150795

SAUGET AREA 1 SITE
Support Sampling Project
Data Validation Report
Volume 7 of 8

APPENDIX C

Summary Tables of Validated Analytical Data and Field/Equipment Blanks

APPENDIX C-1

Summary Tables of Validated Analytical Data and Field/Equipment Blanks Waste Discrete Surface

Waste Discrete Surface
Volatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-1a
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8260B Volatile Organic Compound Data

	Sample ID	WASTE-G-B-0-0 5FTEB	WASTE-G-B1-0-0 5FT	WASTE-G-B1-0-0 5FTFD	WASTE-G-B2-0-0 5FT	WASTE-G-B3-0-0 5FT	WASTE-G-B4-0-0 5FT	WASTE-H-B1-0-0 5FT
	Sample Date	10/07/1999	10/06/1999	10/06/1999	10/06/1999	10/07/1999	10/07/1999	09/27/1999
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
1,1,2,2-Tetrachloroethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
1,1,2-Trichloroethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
1,1-Dichloroethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
1,1-Dichloroethene		5 U	4.9 U	5 U	4 U	4.4 U	5.4 U	7.3 U
1,2-Dichloroethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
1,2-Dichloropropane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
2-Butanone (MEK)		25 U	26 U	27 U	22 U	24 U	29 U	39 U
2-Hexanone		25 U	26 U	27 U	22 U	24 U	29 U	39 UJ
4-Methyl-2-pentanone (MIBK)		25 U	26 U	27 U	22 U	24 U	29 U	39 U
Acetone		50 U	53 U	54 U	44 U	48 U	58 U	79 U
Benzene		1.2 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Bromodichloromethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Bromoform		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
Bromomethane		9.8 U	11 U	11 U	8.8 U	9.6 U	12 U	16 U
Carbon disulfide		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	4.3 J
Carbon tetrachloride		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Chlorobenzene		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
Chloroethane		10 U	11 U	11 U	8.8 U	9.6 U	12 U	16 U
Chloroform		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Chloromethane		10 U	11 U	11 U	8.8 U	9.6 U	12 U	16 U
Cis/Trans-1,2-Dichloroethene		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Dibromochloromethane		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
Ethylbenzene		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
Methylene chloride (Dichloromethane)		4.7 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Styrene		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
Tetrachloroethene		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
Toluene		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Trichloroethene		2.7 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 U
Vinyl chloride		10 U	11 U	11 U	8.8 U	9.6 U	12 U	16 U
Xylenes, Total		5 U	5.3 U	5.4 U	4.4 U	4.8 U	5.8 U	7.9 UJ
cis-1,3-Dichloropropene		1 U	4.2 U	4.4 U	3.5 U	3.8 U	4.7 U	6.3 U
trans-1,3-Dichloropropene		5 U	4.2 U	4.4 U	3.5 U	3.8 U	4.7 U	6.3 U
Total VOCs		ND	ND	ND	ND	ND	ND	4.3

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1a
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8260B Volatile Organic Compound Data

	Sample ID	WASTE-H-B2-0-0 5FT	WASTE-H-B3-0-0 5FT	WASTE-H-B4-0-0 5FT	WASTE-I-B-0-0 5FTEB	WASTE-I-B1-0-0 5FT	WASTE-I-B2-0-0 5FT	WASTE-I-B3-0-0 5FT
	Sample Date	09/27/1999	09/27/1999	09/27/1999	10/14/1999	10/13/1999	10/13/1999	10/13/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
1,1,2,2-Tetrachloroethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
1,1,2-Trichloroethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
1,1-Dichloroethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
1,1-Dichloroethene		4.7 U	8.3 U	6.2 U	5.0 U	5.0 U	5.8 U	4.3 U
1,2-Dichloroethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
1,2-Dichloropropane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
2-Butanone (MEK)		25 U	45 U	34 U	25 U	27 U	32 U	23 U
2-Hexanone		25 U	5.7 J	34 U	25 U	27 U	32 U	23 U
4-Methyl-2-pentanone (MIBK)		25 U	45 U	34 U	25 U	27 U	32 U	23 U
Acetone		51 U	90 U	68 U	50 U	55 U	63 U	47 U
Benzene		5.1 U	9 U	6.8 U	0.31 J	5.5 U	6.3 U	4.7 U
Bromodichloromethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Bromoform		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Bromomethane		10 U	18 U	14 U	9.8 U	11 U	13 U	9.4 U
Carbon disulfide		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Carbon tetrachloride		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Chlorobenzene		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Chloroethane		10 U	18 U	14 U	10 U	11 U	13 U	9.4 U
Chloroform		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Chloromethane		10 U	18 U	14 U	10 U	11 U	13 U	9.4 U
Cis/Trans-1,2-Dichloroethene		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Dibromochloromethane		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Ethylbenzene		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Methylene chloride (Dichloromethane)		5.1 U	9 U	6.8 U	0.90 J	5.5 U	6.3 U	4.7 U
Styrene		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Tetrachloroethene		5.1 U	17	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Toluene		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
Trichloroethene		5.1 U	9 U	6.8 U	0.32 J	5.5 U	6.3 U	4.7 U
Vinyl chloride		10 U	18 U	14 U	10 U	11 U	13 U	9.4 U
Xylenes, Total		5.1 U	9 U	6.8 U	5.0 U	5.5 U	6.3 U	4.7 U
cis-1,3-Dichloropropene		4.1 U	7.2 U	5.4 U	1.0 U	4.4 U	5.0 U	3.7 U
trans-1,3-Dichloropropene		4.1 U	7.2 U	5.4 U	5.0 U	4.4 U	5.0 U	3.7 U
Total VOCs		ND	22.7	ND	1.53	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1a
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8260B Volatile Organic Compound Data

	Sample ID	WASTE-I-B4-0-0 5FT	WASTE-I-B4-0-0 5FTFD	WASTE-L-B1-0-0 5FT	WASTE-L-B2-0-0 5FT	WASTE-L-B3-0-0 5FT	WASTE-L-B4-0-0 5FT	WASTE-N-B1-0-0 5FT
	Sample Date	10/14/1999	10/14/1999	09/27/1999	09/27/1999	09/27/1999	09/27/1999	11/30/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
1,1,2,2-Tetrachloroethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
1,1,2-Trichloroethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
1,1-Dichloroethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
1,1-Dichloroethene		5.2 U	5.5 U	5.8 U	4.8 U	8.9 U	6.1 U	8.2 U
1,2-Dichloroethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
1,2-Dichloropropane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
2-Butanone (MEK)		28 U	30 U	31 U	26 U	48 U	33 U	45 U
2-Hexanone		28 U	30 U	31 U	26 U	48 UJ	33 U	45 U
4-Methyl-2-pentanone (MIBK)		28 U	30 U	31 U	26 U	48 U	33 U	45 U
Acetone		56 U	60 U	63 U	53 U	97 U	66 U	90 U
Benzene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Bromodichloromethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Bromoform		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
Bromomethane		11 U	12 U	12 U	10 U	19 U	13 U	18 U
Carbon disulfide		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Carbon tetrachloride		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Chlorobenzene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
Chloroethane		11 U	12 U	12 U	10 U	19 U	13 U	18 U
Chloroform		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Chloromethane		11 U	12 U	12 U	10 U	19 U	13 U	18 U
Cis/Trans-1,2-Dichloroethene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Dibromochloromethane		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
Ethylbenzene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
Methylene chloride (Dichloromethane)		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Styrene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
Tetrachloroethene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
Toluene		5.6 U	3.8 J	6.3 U	13	9.7 U	6.6 U	9 U
Trichloroethene		5.6 U	6.0 U	6.3 U	5.3 U	9.7 U	6.6 U	9 U
Vinyl chloride		11 U	12 U	12 U	10 U	19 U	13 U	18 U
Xylenes, Total		5.6 U	6.0 U	6.3 U	5.3 U	9.7 UJ	6.6 U	9 U
cis-1,3-Dichloropropene		4.5 U	4.8 U	5 U	4.2 U	7.8 U	5.3 U	7.2 U
trans-1,3-Dichloropropene		4.5 U	4.8 U	5 U	4.2 U	7.8 U	5.3 U	7.2 U
Total VOCs		ND	3.8	ND	13	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1a
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8260B Volatile Organic Compound Data

	Sample ID	WASTE-N-B2-0-0.5FT	WASTE-N-B3-0-0.5FT	WASTE-N-B4-0-0.5FT	WASTE-N-B4-0-0.5FTEB	WASTE-N-B4-0-0.5FTFD
	Sample Date	11/30/1999	11/30/1999	12/02/1999	12/02/1999	12/02/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound						
1,1,1-Trichloroethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
1,1,2,2-Tetrachloroethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
1,1,2-Trichloroethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
1,1-Dichloroethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
1,1-Dichloroethene		4.5 U	5.4 U	6 U	5 U	6.3 U
1,2-Dichloroethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
1,2-Dichloropropane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
2-Butanone (MEK)		25 U	30 U	33 U	25 U	34 U
2-Hexanone		25 UJ	30 U	33 U	25 U	34 U
4-Methyl-2-pentanone (MIBK)		25 U	30 U	33 U	25 U	34 U
Acetone		49 U	59 U	65 U	50 U	68 U
Benzene		4.9 U	5.9 U	6.5 U	1.2 U	6.8 U
Bromodichloromethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Bromoform		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Bromomethane		9.9 U	12 U	13 U	9.8 U	14 U
Carbon disulfide		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Carbon tetrachloride		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Chlorobenzene		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Chloroethane		9.9 U	12 U	13 U	10 U	14 U
Chloroform		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Chloromethane		9.9 U	12 U	13 U	10 U	14 U
Cis/Trans-1,2-Dichloroethene		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Dibromochloromethane		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Ethylbenzene		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Methylene chloride (Dichloromethane)		4.9 U	5.9 U	6.5 U	4.7 U	6.8 U
Styrene		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Tetrachloroethene		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Toluene		4.9 U	5.9 U	6.5 U	5 U	6.8 U
Trichloroethene		4.9 U	5.9 U	6.5 U	2.7 U	6.8 U
Vinyl chloride		9.9 U	12 U	13 U	10 U	14 U
Xylenes, Total		4.9 U	5.9 U	6.5 U	5 U	6.8 U
cis-1,3-Dichloropropene		4 U	4.7 U	5.2 U	1 U	5.5 U
trans-1,3-Dichloropropene		4 U	4.7 U	5.2 U	5 U	5.5 U
Total VOCs		ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-1b

Waste Discrete Surface Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-G-B-0-0.5FTEB	WASTE-G-B1-0-0.5FT	WASTE-G-B1-0-0.5FTFD	WASTE-G-B2-0-0.5FT	WASTE-G-B3-0-0.5FT	WASTE-G-B4-0-0.5FT	WASTE-H-B1-0-0.5FT
	Sample Date	10/07/1999	10/06/1999	10/06/1999	10/06/1999	10/07/1999	10/07/1999	09/27/1999
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
1,2-Dichlorobenzene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
1,3-Dichlorobenzene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
1,4-Dichlorobenzene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2,2'-Oxybis(1-Chloropropane)		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2,4,5-Trichlorophenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2,4,6-Trichlorophenol		2.1 U	200 U	200 U	200 U	190 U	180 U	180 U
2,4-Dichlorophenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2,4-Dinitrophenol		14 U	1000 U	990 U	980 U	940 U	920 U	880 U
2,4-Dinitrotoluene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2,6-Dinitrotoluene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2-Chloronaphthalene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2-Chlorophenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2-Methylnaphthalene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2-Methylphenol (o-cresol)		10 U	200 U	200 U	200 U	190 U	180 U	180 U
2-Nitroaniline		50 U	1000 U	990 U	980 U	940 U	920 U	880 U
2-Nitrophenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
3,3'-Dichlorobenzidine		20 U	390 U	380 U	380 U	370 U	360 U	340 U
3-Methylphenol/4-Methylphenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
3-Nitroaniline		50 U	1000 U	990 U	980 U	940 U	920 U	880 U
4,6-Dinitro-2-methylphenol		13 U	1000 U	990 U	980 U	940 U	920 U	880 U
4-Bromophenylphenyl ether		1 U	200 U	200 U	200 U	190 U	180 U	180 U
4-Chloro-3-methylphenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
4-Chloroaniline		9.2 J	390 U	380 U	380 U	370 U	360 U	340 U
4-Chlorophenylphenyl ether		10 U	200 U	200 U	200 U	190 U	180 U	180 U
4-Nitroaniline		50 U	1000 U	990 U	980 U	940 U	920 U	880 U
4-Nitrophenol		50 U	1000 U	990 U	980 U	940 U	920 U	880 U
Acenaphthene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Acenaphthylene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Anthracene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Benzo(a)anthracene		10 U	200 U	200 U	200 U	190 U	180 U	95 J
Benzo(a)pyrene		10 U	110 U	100 U	100 U	100 U	97 U	100
Benzo(b)fluoranthene		10 U	200 U	200 U	200 U	190 U	180 U	120 J
Benzo(g,h,i)perylene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Benzo(k)fluoranthene		10 U	200 U	200 U	200 U	190 U	180 U	85 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-G-B-0-0 5FTEB	WASTE-G-B1-0-0 5FT	WASTE-G-B1-0-0 5FTFD	WASTE-G-B2-0-0 5FT	WASTE-G-B3-0-0 5FT	WASTE-G-B4-0-0 5FT	WASTE-H-B1-0-0 5FT
	Sample Date	10/07/1999	10/06/1999	10/06/1999	10/06/1999	10/07/1999	10/07/1999	09/27/1999
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Carbazole		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Chrysene		10 U	200 U	200 U	200 U	190 U	180 U	110 J
Di-n-butylphthalate		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Di-n-octylphthalate		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Dibenzo(a,h)anthracene		10 U	110 U	100 U	100 U	100 U	97 U	93 U
Dibenzofuran		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Diethylphthalate		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Dimethylphthalate		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Fluoranthene		10 U	200 U	200 U	200 U	190 U	180 U	210
Fluorene		1 U	200 U	200 U	200 U	190 U	180 U	180 U
Hexachlorobenzene		10 U	83 U	81 U	81 U	78 U	76 U	73 U
Hexachlorobutadiene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Hexachlorocyclopentadiene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Hexachloroethane		1.9 U	200 U	200 U	200 U	190 U	180 U	180 U
Indeno(1,2,3-cd)pyrene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Isophorone		10 U	200 U	200 U	200 U	190 U	180 U	180 U
N-Nitroso-di-n-propylamine		10 U	200 U	200 U	200 U	190 U	180 U	180 U
N-Nitrosodiphenylamine		5 U	200 U	200 U	200 U	190 U	180 U	180 U
Naphthalene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Nitrobenzene		3.5 U	200 U	200 U	200 U	190 U	180 U	180 U
Pentachlorophenol		5 U	1000 U	990 U	980 U	940 U	920 U	880 U
Phenanthrene		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Phenol		10 U	200 U	200 U	200 U	190 U	180 U	180 U
Pyrene		10 U	200 U	200 U	200 U	190 U	180 U	160 J
bis(2-Chloroethoxy)methane		10 U	200 U	200 U	200 U	190 U	180 U	180 U
bis(2-Chloroethyl)ether		10 U	200 U	200 U	200 U	190 U	180 U	180 U
bis(2-Ethylhexyl)phthalate		1.8 U	200 U	200 U	200 U	190 U	180 U	110 J
Total Semivolatiles		9.2	ND	ND	ND	ND	ND	990

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-H-B2-0-0.5FT	WASTE-H-B3-0-0.5FT	WASTE-H-B4-0-0.5FT	WASTE-I-B-0-0.5FTEB	WASTE-I-B1-0-0.5FT	WASTE-I-B2-0-0.5FT	WASTE-I-B3-0-0.5FT
	Sample Date	09/27/1999	09/27/1999	09/27/1999	10/14/1999	10/13/1999	10/13/1999	10/13/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		190 U	180 U	180 U	10 U	180 U	180 J	180 U
1,2-Dichlorobenzene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
1,3-Dichlorobenzene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
1,4-Dichlorobenzene		190 U	180 U	180 U	10 U	180 U	46 J	180 U
2,2'-Oxybis(1-Chloropropane)		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2,4,5-Trichlorophenol		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2,4,6-Trichlorophenol		190 U	180 U	180 U	2.1 U	180 U	190 U	180 U
2,4-Dichlorophenol		190 U	180 U	180 U	10 U	180 U	82 J	180 U
2,4-Dinitrophenol		930 U	880 U	R	14 U	880 U	940 U	920 U
2,4-Dinitrotoluene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2,6-Dinitrotoluene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2-Chloronaphthalene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2-Chlorophenol		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2-Methylnaphthalene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2-Methylphenol (o-cresol)		190 U	180 U	180 U	10 U	180 U	190 U	180 U
2-Nitroaniline		930 U	880 U	880 U	50 U	880 U	160 J	920 U
2-Nitrophenol		190 U	180 U	180 U	10 U	180 U	190 U	180 U
3,3'-Dichlorobenzidine		360 U	340 U	340 U	20 U	340 U	360 U	360 U
3-Methylphenol/4-Methylphenol		190 U	180 U	180 U	10 U	180 U	190 U	180 U
3-Nitroaniline		930 U	880 U	880 U	50 U	880 U	940 U	920 U
4,6-Dinitro-2-methylphenol		930 U	880 U	880 U	13 U	880 U	940 U	920 U
4-Bromophenylphenyl ether		190 U	180 U	180 U	1.0 U	180 U	190 U	180 U
4-Chloro-3-methylphenol		190 U	180 U	180 U	10 U	180 U	190 U	180 U
4-Chloroaniline		360 U	340 U	340 U	20 U	340 U	18000 D	240 J
4-Chlorophenylphenyl ether		190 U	180 U	180 U	10 U	180 U	190 U	180 U
4-Nitroaniline		930 U	880 U	880 U	50 U	880 U	940 U	920 U
4-Nitrophenol		930 U	880 U	880 U	50 U	880 U	940 U	920 U
Acenaphthene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Acenaphthylene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Anthracene		190 U	180 U	180 U	10 U	180 U	190 U	730
Benzo(a)anthracene		100 J	180 U	130 J	10 U	78 J	190 U	2200
Benzo(a)pyrene		110	94 U	140	10 U	70 J	99 U	2200
Benzo(b)fluoranthene		100 J	180 U	140 J	10 U	100 J	190 U	2800
Benzo(g,h,i)perylene		190 U	180 U	370	10 U	180 U	110 J	1600
Benzo(k)fluoranthene		130 J	180 U	82 J	10 U	55 J	190 U	960

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-H-B2-0-0 5FT	WASTE-H-B3-0-0 5FT	WASTE-H-B4-0-0 5FT	WASTE-I-B-0-0 5FTEB	WASTE-I-B1-0-0 5FT	WASTE-I-B2-0-0 5FT	WASTE-I-B3-0-0 5FT
	Sample Date	09/27/1999	09/27/1999	09/27/1999	10/14/1999	10/13/1999	10/13/1999	10/13/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		190 U	180 U	180 UJ	10 U	180 UJ	190 U	180 U
Carbazole		190 U	180 U	180 U	10 U	180 U	190 U	320
Chrysene		130 J	180 U	300 J	10 U	99 J	190 U	2200
Di-n-butylphthalate		190 U	180 U	180 U	10 U	180 U	190 U	52 J
Di-n-octylphthalate		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Dibenzo(a,h)anthracene		98 U	94 U	93 U	10 U	93 U	99 U	360
Dibenzofuran		190 U	180 U	180 U	10 U	180 U	190 U	100 J
Diethylphthalate		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Dimethylphthalate		190 U	180 U	180 UJ	10 U	180 UJ	190 U	180 U
Fluoranthene		240	180 U	140 J	10 U	170 J	120 J	6000
Fluorene		190 U	180 U	180 U	1.0 U	180 U	190 U	230
Hexachlorobenzene		77 U	73 U	72 U	10 U	72 U	110	76 U
Hexachlorobutadiene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Hexachlorocyclopentadiene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Hexachloroethane		190 U	180 U	180 U	1.9 U	180 U	190 U	180 U
Indeno(1,2,3-cd)pyrene		87 J	180 U	100 J	10 U	180 U	190 U	1600
Isophorone		190 U	180 U	180 U	10 U	180 U	190 U	180 U
N-Nitroso-di-n-propylamine		190 U	180 U	180 U	10 U	180 U	190 U	180 U
N-Nitrosodiphenylamine		190 U	180 U	180 UJ	5.0 U	180 U	190 U	180 U
Naphthalene		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Nitrobenzene		190 U	180 U	180 U	3.5 U	180 U	190 U	180 U
Pentachlorophenol		930 U	880 U	880 U	5.0 U	880 U	2000	920 U
Phenanthrene		190 U	180 U	110 J	10 U	71 J	50 J	3300
Phenol		190 U	180 U	180 U	10 U	180 U	190 U	180 U
Pyrene		190	180 U	190	10 U	140 J	170 J	4700
bis(2-Chloroethoxy)methane		190 U	180 U	180 U	10 U	180 U	190 U	180 U
bis(2-Chloroethyl)ether		190 U	180 U	180 U	10 U	180 U	190 U	180 U
bis(2-Ethylhexyl)phthalate		190 U	180 U	120 J	1.8 U	180 U	190 U	180 U
Total Semivolatiles		1087	ND	1822	ND	783	21028	29592

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

Sample ID	WASTE-I-B4-0-0.5FT	WASTE-I-B4-0-0.5FTFD	WASTE-L-B1-0-0.5FT	WASTE-L-B2-0-0.5FT	WASTE-L-B3-0-0.5FT	WASTE-L-B4-0-0.5FT	WASTE-N-B1-0-0.5FT
Sample Date	10/14/1999	10/14/1999	09/27/1999	09/27/1999	09/27/1999	09/27/1999	11/30/1999
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,2,4-Trichlorobenzene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
1,2-Dichlorobenzene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
1,3-Dichlorobenzene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
1,4-Dichlorobenzene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2,2'-Oxybis(1-Chloropropane)	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2,4,5-Trichlorophenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2,4,6-Trichlorophenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2,4-Dichlorophenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2,4-Dinitrophenol	870 U	840 U	880 U	1800 U	920 U	940 U	900 U
2,4-Dinitrotoluene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2,6-Dinitrotoluene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2-Chloronaphthalene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2-Chlorophenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2-Methylnaphthalene	170 U	170 U	180 U	140 J	180 U	190 U	180 U
2-Methylphenol (o-cresol)	170 U	170 U	180 U	360 U	180 U	190 U	180 U
2-Nitroaniline	870 U	840 U	880 U	1800 U	920 U	940 U	900 U
2-Nitrophenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
3,3'-Dichlorobenzidine	340 U	320 U	340 U	710 U	360 U	360 U	350 U
3-Methylphenol/4-Methylphenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
3-Nitroaniline	870 U	840 U	880 U	1800 U	920 U	940 U	900 U
4,6-Dinitro-2-methylphenol	870 U	840 U	880 U	1800 U	920 U	940 U	900 U
4-Bromophenylphenyl ether	170 U	170 U	180 U	360 U	180 U	190 U	180 U
4-Chloro-3-methylphenol	170 U	170 U	180 U	360 U	180 U	190 U	180 U
4-Chloroaniline	340 U	320 U	340 U	710 U	360 U	360 U	350 U
4-Chlorophenylphenyl ether	170 U	170 U	180 U	360 U	180 U	190 U	180 U
4-Nitroaniline	870 U	840 U	880 U	1800 U	920 U	940 U	900 U
4-Nitrophenol	870 U	840 U	880 U	1800 U	920 U	940 U	900 U
Acenaphthene	170 U	170 U	140 J	1600	180 U	190 U	180 U
Acenaphthylene	170 U	170 U	180 U	360 U	180 U	190 U	180 U
Anthracene	23 J	34 J	360	3600	180 U	160 J	58 J
Benzo(a)anthracene	180	300	1700	7800	180 U	640	270
Benzo(a)pyrene	140	250	1600	7000	98 U	550	330
Benzo(b)fluoranthene	200	320	1500	6600	180 U	580	320
Benzo(g,h,i)perylene	110 J	180	1100	3800	180 U	340	300
Benzo(k)fluoranthene	92 J	170	1800	6800	180 U	460	360

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-I-B4-0-0 5FT	WASTE-I-B4-0-0 5FTFD	WASTE-L-B1-0-0 5FT	WASTE-L-B2-0-0 5FT	WASTE-L-B3-0-0 5FT	WASTE-L-B4-0-0 5FT	WASTE-N-B1-0-0 5FT
	Sample Date	10/14/1999	10/14/1999	09/27/1999	09/27/1999	09/27/1999	09/27/1999	11/30/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Carbazole		170 U	170 U	190	1500	180 U	140 J	180 U
Chrysene		190	320	1900	7800	180 U	760	310
Di-n-butylphthalate		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Di-n-octylphthalate		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Dibenzo(a,h)anthracene		29 J	88 U	420	1300	98 U	100 U	110
Dibenzofuran		170 U	170 U	180 U	750	180 U	190 U	180 U
Diethylphthalate		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Dimethylphthalate		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Fluoranthene		290	440	3400	18000	180 U	1600	610
Fluorene		170 U	170 U	100 J	1400	180 U	190 U	180 U
Hexachlorobenzene		72 U	69 U	72 U	150 U	76 U	78 U	74 U
Hexachlorobutadiene		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Hexachlorocyclopentadiene		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Hexachloroethane		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Indeno(1,2,3-cd)pyrene		110 J	190	1100	4800	180 U	320	250
Isophorone		170 U	170 U	180 U	360 U	180 U	190 U	180 U
N-Nitroso-di-n-propylamine		170 U	170 U	180 U	360 U	180 U	190 U	180 U
N-Nitrosodiphenylamine		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Naphthalene		170 U	170 U	180 U	320 J	180 U	190 U	180 U
Nitrobenzene		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Pentachlorophenol		870 U	840 U	880 U	1800 U	920 U	940 U	900 U
Phenanthrene		110 J	170 U	1400	12000	180 U	1000	260
Phenol		170 U	170 U	180 U	360 U	180 U	190 U	180 U
Pyrene		310	460	2700	13000	180 U	1300	550
bis(2-Chloroethoxy)methane		170 U	170 U	180 U	360 U	180 U	190 U	180 U
bis(2-Chloroethyl)ether		170 U	170 U	180 U	360 U	180 U	190 U	180 U
bis(2-Ethylhexyl)phthalate		170 U	90 J	310	360 U	180 U	180 J	180 U
Total Semivolatiles		1784	2754	19720	98210	ND	8030	3728

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-N-B2-0-0.5FT	WASTE-N-B3-0-0.5FT	WASTE-N-B4-0-0.5FT	WASTE-N-B4-0-0.5FTEB	WASTE-N-B4-0-0.5FTFD
	Sample Date	11/30/1999	11/30/1999	12/02/1999	12/02/1999	12/02/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound						
1,2,4-Trichlorobenzene		180 UJ	180 U	190 U	10 U	190 U
1,2-Dichlorobenzene		180 U	180 U	190 U	10 U	190 U
1,3-Dichlorobenzene		180 U	180 U	190 U	10 U	190 U
1,4-Dichlorobenzene		180 U	180 U	190 U	10 U	190 U
2,2'-Oxybis(1-Chloropropane)		180 U	180 U	190 U	10 U	190 U
2,4,5-Trichlorophenol		180 U	180 U	190 U	10 U	190 U
2,4,6-Trichlorophenol		180 UJ	180 U	190 U	2.1 U	190 U
2,4-Dichlorophenol		180 U	180 U	190 U	10 U	190 U
2,4-Dinitrophenol		920 U	920 U	950 U	14 U	940 U
2,4-Dinitrotoluene		180 U	180 U	190 U	10 U	190 U
2,6-Dinitrotoluene		180 U	180 U	190 U	10 U	190 U
2-Chloronaphthalene		180 U	180 U	190 U	10 U	190 U
2-Chlorophenol		180 U	180 U	190 U	10 U	190 U
2-Methylnaphthalene		180 U	180 U	190 U	10 U	190 U
2-Methylphenol (o-cresol)		180 U	180 U	190 U	10 U	190 U
2-Nitroaniline		920 U	920 U	950 U	50 U	940 U
2-Nitrophenol		180 U	180 U	190 U	10 U	190 U
3,3'-Dichlorobenzidine		360 U	360 U	370 U	20 U	370 U
3-Methylphenol/4-Methylphenol		180 U	180 U	190 U	10 U	190 U
3-Nitroaniline		920 UJ	920 U	950 U	50 U	940 U
4,6-Dinitro-2-methylphenol		920 U	920 U	950 U	13 U	940 U
4-Bromophenylphenyl ether		180 UJ	180 U	190 U	1 U	190 U
4-Chloro-3-methylphenol		180 U	180 U	190 U	10 U	190 U
4-Chloroaniline		360 U	360 U	370 U	20 U	370 U
4-Chlorophenylphenyl ether		180 U	180 U	190 U	10 U	190 U
4-Nitroaniline		920 U	920 U	950 U	50 U	940 U
4-Nitrophenol		920 U	920 U	950 U	50 U	940 U
Acenaphthene		180 U	180 U	190 U	10 U	190 U
Acenaphthylene		180 U	180 U	190 U	10 U	190 U
Anthracene		47 J	180 U	35 J	10 U	37 J
Benzo(a)anthracene		220	70 J	97 J	10 U	130 J
Benzo(a)pyrene		240	72 J	94 J	10 U	120
Benzo(b)fluoranthene		190	59 J	80 J	10 U	100 J
Benzo(g,h,i)perylene		180 U	180 U	190 U	10 U	190 U
Benzo(k)fluoranthene		290 J	80 J	120 J	10 U	160 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1b
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WASTE-N-B2-0-0 5FT	WASTE-N-B3-0-0 5FT	WASTE-N-B4-0-0 5FT	WASTE-N-B4-0-0 5FTEB	WASTE-N-B4-0-0 5FTFD
	Sample Date	11/30/1999	11/30/1999	12/02/1999	12/02/1999	12/02/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound						
Butylbenzylphthalate		180 UJ	180 U	190 U	10 U	190 U
Carbazole		180 U	180 U	190 U	10 U	190 U
Chrysene		270	88 J	110 J	10 U	150 J
Di-n-butylphthalate		180 U	180 U	190 U	10 U	190 U
Di-n-octylphthalate		180 U	180 U	190 U	10 U	190 U
Dibenzo(a,h)anthracene		81 J	98 U	100 U	10 U	100 U
Dibenzofuran		180 U	180 U	190 U	10 U	190 U
Diethylphthalate		180 U	180 U	190 U	10 U	190 U
Dimethylphthalate		180 U	180 U	190 U	10 U	190 U
Fluoranthene		500 J	170 J	240	10 U	340
Fluorene		180 U	180 U	190 U	1 U	190 U
Hexachlorobenzene		76 U	76 U	78 U	10 U	78 U
Hexachlorobutadiene		180 U	180 U	190 U	10 U	190 U
Hexachlorocyclopentadiene		180 U	180 U	190 U	10 U	190 U
Hexachloroethane		180 U	180 U	190 U	1.9 U	190 U
Indeno(1,2,3-cd)pyrene		150 J	180 U	190 U	10 U	80 J
Isophorone		180 U	180 U	190 U	10 U	190 U
N-Nitroso-di-n-propylamine		180 U	180 U	190 U	10 U	190 U
N-Nitrosodiphenylamine		180 U	180 U	190 U	5 U	190 U
Naphthalene		180 U	180 U	190 U	10 U	190 U
Nitrobenzene		180 U	180 U	190 U	3.5 U	190 U
Pentachlorophenol		920 U	920 U	950 U	5 U	940 U
Phenanthrene		190 J	80 J	140 J	10 U	210
Phenol		180 U	180 U	190 U	10 U	190 U
Pyrene		420 J	150 J	190	10 U	300
bis(2-Chloroethoxy)methane		180 U	180 U	190 U	10 U	190 U
bis(2-Chloroethyl)ether		180 U	180 U	190 U	10 U	190 U
bis(2-Ethylhexyl)phthalate		130 J	180 U	190 U	1.8 U	190 U
Total Semivolatiles		2728	769	1106	ND	1627

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Waste Discrete Surface Pesticide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-1c
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8081A Pesticide Data

	Sample ID	WASTE-G-B-0-0 5FTEB	WASTE-G-B1-0-0 5FT	WASTE-G-B1-0-0 5FTFD	WASTE-G-B2-0-0 5FT	WASTE-G-B3-0-0 5FT	WASTE-G-B4-0-0 5FT	WASTE-H-B1-0-0 5FT
	Sample Date	10/07/1999	10/06/1999	10/06/1999	10/06/1999	10/07/1999	10/07/1999	09/27/1999
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		0.1 U	3.9 U	3.9 U	3.8 U	3.6 U	3.6 U	17 U
4,4'-DDE		0.1 U	3.9 U	3.9 U	3.8 U	3.6 U	3.6 U	86
4,4'-DDT		0.1 U	0.11 J	0.059 J	0.1 J	0.16 J	3.6 U	60 J
Aldrin		0.05 U	2 U	2 U	2 U	1.9 U	1.9 U	21
Alpha Chlordane		0.05 U	2 U	2 U	0.12 J	0.26 J	1.9 U	8.8 U
Dieldrin		0.1 U	3.9 U	3.9 U	3.8 U	0.062 J	3.6 U	17 U
Endosulfan I		0.05 U	2 U	2 U	2 U	0.22 J	1.9 U	8.8 U
Endosulfan II		0.1 U	3.9 U	3.9 U	3.8 U	3.6 U	0.34 J	7.2 J
Endosulfan sulfate		0.1 U	3.9 U	3.9 U	0.12 J	0.18 J	3.6 U	17 U
Endrin		0.1 U	0.16 J	0.15 J	3.8 U	0.14 J	3.6 U	17 U
Endrin aldehyde		0.1 U	3.9 U	3.9 U	0.67 J	0.12 J	3.6 U	17 U
Endrin ketone		0.1 U	0.11 J	3.9 U	0.79 J	3.6 U	3.6 U	15 J
Gamma Chlordane		0.05 U	0.081 J	0.073 J	0.22 J	0.31 J	1.9 U	27
Heptachlor		0.05 U	2 U	2 U	2 U	1.9 U	1.9 U	2 J
Heptachlor epoxide		0.05 U	2 U	2 U	2 U	0.22 J	1.9 U	44
Methoxychlor		0.5 U	20 U	20 U	0.94 J	19 U	19 U	33 J
Toxaphene		5 U	200 U	200 U	200 U	190 U	190 U	880 U
alpha-BHC		0.039 U	0.59 U	0.59 U	0.58 U	0.55 U	0.55 U	2.6 U
beta-BHC		0.014 U	0.59 U	0.59 U	0.58 U	0.55 U	0.55 U	2.6 U
delta-BHC		0.0074 J	0.59 U	0.068 J	0.07 J	0.058 J	0.55 U	2.6 U
gamma-BHC (Lindane)		0.019 U	2 U	2 U	2 U	1.9 U	1.9 U	8.8 U
Total Pesticides		0.0074	0.461	0.35	3.03	1.73	0.34	295.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1c
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8081A Pesticide Data

	Sample ID	WASTE-H-B2-0-0 5FT	WASTE-H-B3-0-0 5FT	WASTE-H-B4-0-0 5FT	WASTE-I-B-0-0 5FTEB	WASTE-I-B1-0-0 5FT	WASTE-I-B2-0-0 5FT	WASTE-I-B3-0-0 5FT
	Sample Date	09/27/1999	09/27/1999	09/27/1999	10/14/1999	10/13/1999	10/13/1999	10/13/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.6 U	3.4 U	17 U	0.10 U	R	200 J	0.31 J
4,4'-DDE		6.9	3.4 U	43	0.10 U	R	300 J	7.4 J
4,4'-DDT		8.7 J	3.4 U	110 J	0.10 U	R	460 J	18 U
Aldrin		1.9 U	1.8 U	10	0.50 U	R	250 J	3.5 J
Alpha Chlordane		1.9 U	1.8 U	8.8 U	0.050 U	R	380 U	9.1 U
Dieldrin		3.6 U	3.4 U	17 U	0.10 U	R	200 J	9.6 J
Endosulfan I		1.9 U	1.8 U	8.8 U	0.050 U	R	260 J	5.7 J
Endosulfan II		3.6 U	3.4 U	17 U	0.10 U	R	600 J	15 J
Endosulfan sulfate		3.6 U	3.4 U	17 U	0.10 U	R	730 U	8.8 J
Endrin		3.6 U	3.4 U	17 U	0.10 U	R	240 J	5.8 J
Endrin aldehyde		3.6 U	3.4 U	17 U	0.10 U	R	1500 J	40 J
Endrin ketone		1.4 J	3.4 U	82 J	0.10 U	R	700 J	22 J
Gamma Chlordane		1.9 U	1.8 U	30 J	0.050 U	R	380	9.0 J
Heptachlor		1.9 U	1.8 U	8.8 U	0.050 U	R	69 J	9.1 U
Heptachlor epoxide		1.9 U	0.59 J	20 J	0.050 U	R	140 J	4.7 J
Methoxychlor		19 U	18 U	130 J	0.50 U	R	3000 J	67 J
Toxaphene		190 U	180 U	880 U	0.50 U	R	38000 U	910 U
alpha-BHC		0.5 U	0.5 U	2.6 U	0.039 U	R	110 U	2.7 U
beta-BHC		0.5 U	0.5 U	2.6 U	0.014 U	R	110 U	2.7 U
delta-BHC		0.5 U	0.5 U	2.6 U	0.012 U	R	110 U	2.7 U
gamma-BHC (Lindane)		1.9 U	1.8 U	8.8 U	0.019 U	R	380 U	9.1 U
Total Pesticides		17	0.59	425	ND	---	8299	198.81

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-1c
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8081A Pesticide Data

	Sample ID	WASTE-I-B4-0-0 5FT	WASTE-I-B4-0-0 5FTFD	WASTE-L-B1-0-0 5FT	WASTE-L-B2-0-0 5FT	WASTE-L-B3-0-0 5FT	WASTE-L-B4-0-0 5FT	WASTE-N-B1-0-0 5FT
	Sample Date	10/14/1999	10/14/1999	09/27/1999	09/27/1999	09/27/1999	09/27/1999	11/30/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		0.38 J	0.47 J	17 U	18 U	3.6 U	18 U	3.5 U
4,4'-DDE		1.7 J	1.4 J	20	12 J	3.6 U	10 J	3.5 U
4,4'-DDT		2.4 J	2.6 J	16 J	18 U	3.6 U	18 U	3.5 U
Aldrin		0.94 J	0.70 J	8.7 U	9.1 U	1.8 U	5.5 J	1.8 U
Alpha Chlordane		2.9 J	2.4 J	8.7 U	9.1 U	1.8 U	9.4 U	1.8 U
Dieldrin		1.8 J	1.6 J	17 U	12 J	3.6 U	18 U	3.5 U
Endosulfan I		1.1 J	0.34 J	8.7 U	9.1 U	1.8 U	9.4 U	1.8 U
Endosulfan II		2.4 J	2.1 J	17 U	18 U	3.6 U	18 U	3.5 U
Endosulfan sulfate		17 U	17 U	17 U	18 U	3.6 U	18 U	3.5 U
Endrin		1.1 J	0.72 J	17 U	18 U	3.6 U	18 U	3.5 U
Endrin aldehyde		5.3 J	4.1 J	17 U	18 U	3.6 U	18 U	3.5 U
Endrin ketone		3.6 J	2.8 J	28 J	9.5 J	3.6 U	9.9 J	3.5 U
Gamma Chlordane		6.0 J	5.1 J	21	14 J	1.8 U	10 J	1.8 U
Heptachlor		0.85 J	0.86 J	8.7 U	9.1 U	1.8 U	9.4 U	1.8 U
Heptachlor epoxide		1.1 J	0.78 J	4.4 J	9.2 J	1.8 U	8.9 J	1.8 U
Methoxychlor		18 J	14 J	46 J	24 J	18 U	94 U	18 U
Toxaphene		870 U	880 U	870 U	910 U	180 U	940 U	180 U
alpha-BHC		2.6 U	2.6 U	2.6 U	2.7 U	0.5 U	2.8 U	0.54 U
beta-BHC		2.6 U	2.6 U	2.6 U	3.7 J	0.5 U	2.8 U	0.54 U
delta-BHC		2.6 U	2.6 U	2.6 U	2.7 U	0.5 U	2.8 U	0.54 U
gamma-BHC (Lindane)		8.7 U	8.8 U	8.7 U	9.1 U	1.8 U	9.4 U	1.8 U
Total Pesticides		49.57	39.97	135.4	84.4	ND	44.3	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1c
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8081A Pesticide Data

	Sample ID	WASTE-N-B2-0-0.5FT	WASTE-N-B3-0-0.5FT	WASTE-N-B4-0-0.5FT	WASTE-N-B4-0-0.5FTEB	WASTE-N-B4-0-0.5FTFD
	Sample Date	11/30/1999	11/30/1999	12/02/1999	12/02/1999	12/02/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound						
4,4'-DDD		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
4,4'-DDE		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
4,4'-DDT		2.7 J	3.6 UJ	3.7 U	0.1 U	3.6 U
Aldrin		3.7 U	1.8 UJ	1.9 U	0.05 U	1.6 J
Alpha Chlordane		3.7 U	1.8 UJ	1.2 J	0.05 U	1 J
Dieldrin		7.1 U	3.6 UJ	3.7 U	0.1 U	2.4 J
Endosulfan I		3.7 U	1.8 UJ	1.9 U	0.05 U	1.9 U
Endosulfan II		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
Endosulfan sulfate		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
Endrin		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
Endrin aldehyde		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
Endrin ketone		7.1 U	3.6 UJ	3.7 U	0.1 U	3.6 U
Gamma Chlordane		3.7 U	1.8 UJ	2	0.05 U	1.7 J
Heptachlor		3.7 U	1.8 UJ	1.9 U	0.05 U	1.9 U
Heptachlor epoxide		3.7 U	1.8 UJ	1.9 U	0.05 U	1.9 U
Methoxychlor		55 J	18 UJ	19 U	0.5 U	19 U
Toxaphene		370 U	180 UJ	190 U	5 U	190 U
alpha-BHC		1.1 U	0.54 UJ	0.56 U	0.039 U	0.55 U
beta-BHC		1.1 U	0.54 UJ	0.4 J	0.014 U	0.55 U
delta-BHC		1.1 U	0.54 UJ	0.56 U	0.012 U	0.55 U
gamma-BHC (Lindane)		3.7 U	1.8 UJ	1.9 U	0.019 U	1.9 U
Total Pesticides		57.7	ND	3.6	ND	6.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Waste Discrete Surface Herbicide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-1d
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8151A Herbicide Data

	Sample ID	WASTE-G-B-0-0.5FTEB	WASTE-G-B1-0-0.5FT	WASTE-G-B1-0-0.5FTFD	WASTE-G-B2-0-0.5FT	WASTE-G-B3-0-0.5FT	WASTE-G-B4-0-0.5FT	WASTE-H-B1-0-0.5FT
	Sample Date	10/07/1999	10/06/1999	10/06/1999	10/06/1999	10/07/1999	10/07/1999	09/27/1999
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		0.5 U	9.8 U	9.6 U	9.5 U	9.2 UJ	8.9 UJ	8.6 U
2,4,5-TP (Silvex)		0.5 U	9.8 U	9.6 U	9.5 U	9.2 UJ	8.9 UJ	8.6 U
2,4-D		0.5 U	9.8 U	9.6 U	9.5 U	9.2 UJ	8.9 UJ	8.6 U
2,4-DB		0.5 U	9.8 U	9.6 U	9.5 U	9.2 UJ	8.9 UJ	8.6 U
Dalapon		120 U	76 U	75 U	74 U	72 UJ	70 UJ	68 U
Dicamba		1.2 U	23 U	23 U	23 U	22 UJ	22 UJ	21 U
Dichloroprop		6 U	120 U	120 U	110 U	110 UJ	110 UJ	100 U
Dinoseb		6 U	120 U	120 U	110 U	110 UJ	110 UJ	100 U
MCPA		120 U	2300 U	2300 U	2300 U	2200 UJ	2200 UJ	2100 U
MCPP		120 U	2300 U	2300 U	2300 U	2200 UJ	2200 UJ	2100 U
Pentachlorophenol		1.0 U	20 U	20 U	19 U	19 UJ	18 U	18 U
Total Herbicides		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1d
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8151A Herbicide Data

	Sample ID	WASTE-H-B2-0-0 5FT	WASTE-H-B3-0-0 5FT	WASTE-H-B4-0-0 5FT	WASTE-I-B-0-0 5FTEB	WASTE-I-B1-0-0 5FT	WASTE-I-B2-0-0.5FT	WASTE-I-B3-0-0 5FT
	Sample Date	09/27/1999	09/27/1999	09/27/1999	10/14/1999	10/13/1999	10/13/1999	10/13/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.1 U	8.6 U	8.5 U	0.50 U	8.7 UJ	180 U	9.0 U
2,4,5-TP (Silvex)		9.1 U	8.6 U	8.5 UJ	0.50 U	8.7 UJ	180 U	9.0 U
2,4-D		9.1 U	8.6 U	8.5 U	0.50 U	8.7 UJ	180 U	9.0 U
2,4-DB		9.1 U	9.7	8.4 J	0.50 U	8.7 UJ	180 UJ	9.0 UJ
Dalapon		71 U	68 U	67 UJ	120 U	68 U	1400 U	70 U
Dicamba		22 U	21 U	20 UJ	1.2 U	21 UJ	440 U	22 U
Dichloroprop		110 U	100 U	100 U	6.0 U	100 UJ	2200 U	110 U
Dinoseb		110 U	100 U	100 UJ	6.0 U	100 UJ	2200 U	110 U
MCPA		2200 U	2100 U	2000 U	120 U	2100 UJ	44000 UJ	2200 UJ
MCPP		2200 U	2100 U	2000 U	120 U	2100 UJ	44000 UJ	2200 UJ
Pentachlorophenol		18 U	18 U	41	1.0 U	0.62 J	1300	9.7 J
Total Herbicides		ND	9.7	49.4	ND	0.62	1300	9.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1d
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8151A Herbicide Data

	Sample ID	WASTE-I-B4-0-0.5FT	WASTE-I-B4-0-0.5FTFD	WASTE-L-B1-0-0.5FT	WASTE-L-B2-0-0.5FT	WASTE-L-B3-0-0.5FT	WASTE-L-B4-0-0.5FT	WASTE-N-B1-0-0.5FT
	Sample Date	10/14/1999	10/14/1999	09/27/1999	09/27/1999	09/27/1999	09/27/1999	11/30/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		8.5 U	8.5 U	8.5 U	8.9 U	9 U	9.2 U	8.8 U
2,4,5-TP (Silvex)		8.5 U	8.5 U	8.5 U	8.9 U	9 U	9.2 U	8.8 U
2,4-D		8.5 U	8.5 U	8.5 U	8.9 U	9 U	9.2 U	8.8 U
2,4-DB		8.5 UJ	54 J	8.5 U	8.9 U	9 U	9.2 U	8.8 U
Dalapon		66 U	67 U	67 U	70 U	71 U	72 U	69 U
Dicamba		20 U	20 U	20 U	22 U	22 U	22 U	21 U
Dichloroprop		100 U	100 U	100 U	110 U	110 U	110 U	110 U
Dinoseb		100 U	100 U	100 U	110 U	110 U	110 U	110 U
MCPA		2000 UJ	2000 UJ	2000 U	2200 U	2200 U	2200 U	2100 U
MCPP		2000 UJ	2000 UJ	2000 U	2200 U	2200 U	2200 U	2100 U
Pentachlorophenol		1.1 J	17 U	40	18 U	18 U	19 U	130 D
Total Herbicides		1.1	54	40	ND	ND	ND	130

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1d
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8151A Herbicide Data

	Sample ID	WASTE-N-B2-0-0.5FT	WASTE-N-B3-0-0.5FT	WASTE-N-B4-0-0.5FT	WASTE-N-B4-0-0.5FTEB	WASTE-N-B4-0-0.5FTFD
	Sample Date	11/30/1999	11/30/1999	12/02/1999	12/02/1999	12/02/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound						
2,4,5-T		9 UJ	8.9 U	9.3 U	0.5 U	9.2 U
2,4,5-TP (Silvex)		9 UJ	8.9 U	9.3 U	0.5 U	9.2 U
2,4-D		9 UJ	8.9 U	9.3 U	0.5 U	9.2 U
2,4-DB		9 UJ	8.9 U	9.3 U	0.5 U	9.2 U
Dalapon		70 UJ	70 U	73 U	120 U	72 U
Dicamba		22 UJ	22 U	22 U	1.2 U	22 U
Dichloroprop		110 UJ	110 U	110 U	6 U	110 U
Dinoseb		110 UJ	110 U	110 U	6 U	110 U
MCPA		2200 UJ	2200 U	2200 U	120 U	2200 U
MCPP		2200 UJ	2200 U	2200 U	120 U	2200 U
Pentachlorophenol		4.3 J	4 J	2.2 J	1 U	3 J
Total Herbicides		4.3	4	2.2	ND	3

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Waste Discrete Surface Polychlorinated Biphenyl Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-1e
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 680 Polychlorinated Biphenyl Data

	Sample ID	WASTE-G-B-0-0.5FTEB	WASTE-G-B1-0-0.5FT	WASTE-G-B1-0-0.5FTFD	WASTE-G-B2-0-0.5FT	WASTE-G-B3-0-0.5FT	WASTE-G-B4-0-0.5FT	WASTE-H-B1-0-0.5FT
	Sample Date	10/07/1999	10/06/1999	10/06/1999	10/06/1999	10/07/1999	10/07/1999	09/27/1999
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		0.5 U	20 U	20 U	19 U	18 U	18 U	46
Dichlorobiphenyl		0.1 U	3.9 U	3.9 U	3.8 U	3.6 U	3.6 U	3.4 U
Heptachlorobiphenyl		0.3 U	12 U	12 U	12 U	11 U	11 U	52
Hexachlorobiphenyl		0.2 U	8 U	23	7.9	7.4 U	7.4 U	36
Monochlorobiphenyl		0.1 U	3.9 U	3.9 U	3.8 U	3.6 U	3.6 U	3.4 U
Nonachlorobiphenyl		0.5 U	20 U	20 U	19 U	18 U	18 U	17 U
Octachlorobiphenyl		0.3 U	12 U	12 U	12 U	11 U	11 U	26
Pentachlorobiphenyl		0.2 U	8 U	60	7.8 U	7.4 U	7.4 U	500
Tetrachlorobiphenyl		0.2 U	8 U	7.9 U	7.8 U	7.4 U	7.4 U	790
Trichlorobiphenyl		0.1 U	3.9 U	3.9 U	3.8 U	3.6 U	3.6 U	69
Total PCBs		ND	ND	83	7.9	ND	ND	1519

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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File Number 10040.25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-1e
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 680 Polychlorinated Biphenyl Data

	Sample ID	WASTE-I-B4-0-0.5FT	WASTE-I-B4-0-0.5FTFD	WASTE-L-B1-0-0.5FT	WASTE-L-B2-0-0.5FT	WASTE-L-B3-0-0.5FT	WASTE-L-B4-0-0.5FT	WASTE-N-B1-0-0.5FT
	Sample Date	10/14/1999	10/14/1999	09/27/1999	09/27/1999	09/27/1999	09/27/1999	11/30/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		170 U	170 U	860 U	90 U	18 U	190 U	10 J
Dichlorobiphenyl		34 U	34 U	170 U	18 U	3.6 U	37 U	3.5 U
Heptachlorobiphenyl		100 U	100 U	510 U	21 J	11 U	110 U	57
Hexachlorobiphenyl		69 U	37 J	340 U	180 J	7.3 U	48 J	7.2 U
Monochlorobiphenyl		34 U	34 U	170 U	18 U	3.6 U	37 U	3.5 U
Nonachlorobiphenyl		170 U	170 U	860 U	90 U	18 U	190 U	18 U
Octachlorobiphenyl		100 U	100 U	510 U	54 U	11 U	110 U	21
Pentachlorobiphenyl		69 U	70 U	340 U	760 J	7.3 U	250	90
Tetrachlorobiphenyl		69 U	70 U	340 U	210 J	7.3 U	50 J	7.2 U
Trichlorobiphenyl		34 U	34 U	170 U	18 U	3.6 U	37 U	3.5 U
Total PCBs		ND	37	ND	1171	ND	348	178

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-1e
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 680 Polychlorinated Biphenyl Data

	Sample ID	WASTE-N-B2-0-0.5FT	WASTE-N-B3-0-0.5FT	WASTE-N-B4-0-0.5FT	WASTE-N-B4-0-0.5FTEB	WASTE-N-B4-0-0.5FTFD
	Sample Date	11/30/1999	11/30/1999	12/02/1999	12/02/1999	12/02/1999
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound						
Decachlorobiphenyl		18 U	18 U	19 U	0.5 U	18 U
Dichlorobiphenyl		3.6 U	3.6 U	3.7 U	0.1 U	3.7 U
Heptachlorobiphenyl		11 U	11 U	11 U	0.3 U	11 U
Hexachlorobiphenyl		7.3 UJ	7.3 U	7.5 U	0.2 U	7.4 U
Monochlorobiphenyl		3.6 U	3.6 U	3.7 U	0.1 U	3.7 U
Nonachlorobiphenyl		18 U	18 U	19 U	0.2 J	18 U
Octachlorobiphenyl		11 UJ	11 U	11 U	0.3 U	11 U
Pentachlorobiphenyl		7.3 U	7.3 U	7.5 U	0.2 U	7.4 U
Tetrachlorobiphenyl		7.3 U	7.3 U	7.5 U	0.2 U	7.4 U
Trichlorobiphenyl		3.6 U	3.6 U	3.7 U	0.1 U	3.7 U
Total PCBs		ND	ND	ND	0.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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File Number 10040 25501

APPENDIX C-1f

Waste Discrete Surface Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-1f
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	WASTE-G-B-0-0 5FTEB	WASTE-G-B1-0-0 5FT	WASTE-G-B1-0-0 5FTFD	WASTE-G-B2-0-0 5FT	WASTE-G-B3-0-0 5FT	WASTE-G-B4-0-0 5FT	WASTE-H-B1-0-0 5FT
	Sample Date	10/07/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	09/27/99
	Units	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		0.2 U	14000 J	13000 J	14000 J	15000 J	9300 J	5000 J
Antimony		0.02 U	2.4 UJ	2.4 UJ	0.72 J	0.65 J	2.2 UJ	1.8 J
Arsenic		0.01 U	8.3	7.8	6.5	7.7	6.5	6.5
Barium		0.01 U	140 J	140 J	120 J	79 J	130 J	110
Beryllium		0.004 U	0.63	0.62	0.64	0.58	0.51	0.83
Cadmium		0.005 U	0.32 J	0.46 J	0.22 J	0.18 J	0.25 J	8.7 J
Calcium		0.25 J	15000 J	13000 J	10000 J	9800 J	5100 J	15000
Chromium		0.01 U	20 J	20 J	20 J	22 J	15 J	15 J
Cobalt		0.01 U	8.5	8.7	7.3	5.8	7.6	5.2
Copper		0.02 U	190 J	390 J	200 J	140 J	100 J	480
Cyanide, Total		0.01 U	0.6 U	0.59 U	0.58 U	0.56 U	0.55 U	0.52 U
Iron		0.027 J	20000 J	19000 J	18000 J	20000 J	16000 J	18000
Lead		0.005 U	14	17	11	16	12	200 J
Magnesium		0.5 U	5100	4800	4500	3300	3600	2500
Manganese		0.01 U	630 J	640 J	540 J	260 J	740 J	480
Mercury		0.0002 U	0.031	0.027	0.029	0.015 J	0.025	0.2
Molybdenum		0.01 U	0.5 J	0.49 J	0.38 J	0.78 J	0.42 J	3.6 J
Nickel		0.04 U	21	22	19	17	18	23
Potassium		1 U	1600	1600	1700	1300	1200	1100
Selenium		0.01 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	0.64 J
Silver		0.01 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	1.8 J
Sodium		0.5	71 U	82 U	94 U	56 U	79 U	180
Thallium		0.01 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	1 U
Vanadium		0.01 U	39 J	39 J	40 J	32 J	32 J	20
Zinc		0.02 U	64 J	75 J	56 J	60 J	58 J	800 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1f
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	WASTE-H-B2-0-0 5FT	WASTE-H-B3-0-0 5FT	WASTE-H-B4-0-0 5FT	WASTE-I-B-0-0 5FTEB	WASTE-I-B1-0-0 5FT	WASTE-I-B2-0-0 5FT	WASTE-I-B3-0-0 5FT
	Sample Date	09/27/99	09/27/99	09/27/99	10/14/99	10/13/99	10/13/99	10/13/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		14000 J	4300 J	8500 J	0.070 J	5200 J	5600 J	8000 J
Antimony		0.69 J	2.3 J	1.5 J	0.020 U	2.9 J	8.4 J	8.4 J
Arsenic		7.5	64	13	0.010 U	4.9 J	9.7 J	12 J
Barium		120	99	120	0.010 U	110	740	190
Beryllium		0.73	3.8	0.73	0.0040 U	0.71 J	0.77 J	1.7 J
Cadmium		2.7 J	2.7 J	22 J	0.0050 U	2.2 J	31 J	9.2 J
Calcium		7500	5900	42000	0.20 J	92000 J	190000 J	110000 J
Chromium		20 J	23 J	20 J	0.010 U	18 J	37 J	65 J
Cobalt		9.5	20	5.4	0.010 U	4.8	33	8.4
Copper		200	340	480	0.020 U	2000 J	10000 J	13000 J
Cyanide, Total		0.55 U	0.52 U	0.52 U	0.010 U	0.53 U	0.53 U	0.52 U
Iron		17000	14000	16000	0.050 U	12000 J	10000 J	16000 J
Lead		53 J	100 J	230 J	0.0050 U	220 J	1500 J	830 J
Magnesium		2400	690	2500	0.50 U	7600 J	11000 J	12000 J
Manganese		720	98	450	0.010 U	190	160	300
Mercury		0.064	0.1	0.77	0.00020 U	0.057	2.0	0.31
Molybdenum		0.98 J	11 J	4.2 J	0.010 U	2.7 J	7.5 J	8.5 J
Nickel		20	70	23	0.040 U	20 J	42 J	65 J
Potassium		1600	1100	830	1.0 U	1100 J	1300 J	1500 J
Selenium		1.1 U	4.7	0.42 J	0.010 U	1.1 U	1.6	1.6
Silver		1.1 UJ	0.51 J	2.7 J	0.010 U	3.1 J	11 J	19 J
Sodium		110	310	390	0.41 J	760 J	870 J	440 J
Thallium		1.1 U	2.5	0.94 U	0.010 U	1.1 U	1.0 U	0.99 U
Vanadium		33	45	22	0.010 U	17 J	21 J	26 J
Zinc		350 J	370 J	3600 J	0.020 U	1200 J	2800 J	1300 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1f
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	WASTE-I-B4-0-0.5FT	WASTE-I-B4-0-0.5FTFD	WASTE-L-B1-0-0.5FT	WASTE-L-B2-0-0.5FT	WASTE-L-B3-0-0.5FT	WASTE-L-B4-0-0.5FT	WASTE-N-B1-0-0.5FT
	Sample Date	10/14/99	10/14/99	09/27/99	09/27/99	09/27/99	09/27/99	11/30/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		3300 J	4200 J	7000 J	4900 J	3500 J	7600 J	7900
Antimony		3.8 J	5.3 J	5.4 J	3 J	2.7 J	2 J	2.2 UJ
Arsenic		3.9 J	5.2 J	35	37	30	31	5.5 J
Barium		75	91	250	150	63	220	860 J
Beryllium		0.38 J	0.54 J	1.4	1.4	1.5	1.6	0.48 U
Cadmium		2.1 J	2.7 J	10 J	4.6 J	0.71 J	7.1 J	1.5
Calcium		240000 J	230000 J	29000	20000	2800	28000	63000 J
Chromium		11 J	15 J	79 J	35 J	17 J	50 J	18 J
Cobalt		1.8	2.2	17	15	11	12	5.7
Copper		1200 J	2100 J	1700	4700	190	460	50 J
Cyanide, Total		0.51 U	0.52 U	1.6	0.54 U	0.54 U	0.56 U	0.54 U
Iron		4600 J	6100 J	32000	24000	7100	29000	15000 J
Lead		190 J	270 J	940 J	190 J	64 J	280 J	410 J
Magnesium		16000 J	22000 J	4200	2100	340	3300	6600 J
Manganese		150	170	490	240	23	650	400 J
Mercury		0.047	0.048	0.56	0.34	0.039	0.35	0.095
Molybdenum		3.4 J	6.1 J	16 J	23 J	9.3 J	9.6 J	0.96 J
Nickel		13 J	16 J	51	43	38	55	16
Potassium		900 J	1200 J	1200	950	500	1700	1300
Selenium		0.44 J	0.83 J	4.3	4	1.8	2.2	1.1 U
Silver		1.3 J	2.2 J	1.2 J	0.7 J	1.1 UJ	0.8 J	1.1 U
Sodium		430 J	510 J	400	540	210	230	220 UJ
Thallium		0.94 U	0.95 U	2.1	1.9	1.6	1.8	1.1 U
Vanadium		9.4 J	12 J	49	40	39	49	21
Zinc		310 J	500 J	870 J	420 J	160 J	590 J	210 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1f
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	WASTE-N-B2-0-0.5FT	WASTE-N-B3-0-0.5FT	WASTE-N-B4-0-0.5FT	WASTE-N-B4-0-0.5FTEB	WASTE-N-B4-0-0.5FTFD
	Sample Date	11/30/99	11/30/99	12/02/99	12/02/99	12/02/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw
Compound						
Aluminum		8600	7500	10000	0.2 U	12000
Antimony		0.71 J	2.2 UJ	2.2 UJ	0.0052 J	2.2 UJ
Arsenic		6.2 J	7.3 J	5.5 J	0.01 U	7.1 J
Barium		1200 J	170 J	110 J	0.01 U	170 J
Beryllium		0.46 U	0.56 U	0.5 U	0.0011 J	0.59 U
Cadmium		1	0.3 J	0.61	0.005 U	0.56
Calcium		41000 J	16000 J	130000 J	0.39 J	88000 J
Chromium		18 J	12 J	16 J	0.01 U	20 J
Cobalt		5.6	5.9	5.8	0.01 U	6.5
Copper		110 J	16 J	22 J	0.0017 J	27 J
Cyanide, Total		0.54 U	0.54 U	0.56 U	0.01 U	0.56 U
Iron		15000 J	13000 J	12000 J	0.031 J	16000 J
Lead		99 J	19 J	23 J	0.005 U	26 J
Magnesium		5200	5400 J	11000 J	0.5 U	12000 J
Manganese		410 J	280 J	380 J	0.01 U	430 J
Mercury		0.095	0.031	0.046	0.0002 U	0.054
Molybdenum		1 J	0.7 J	1.3	0.01 U	1.6
Nickel		17	15	15	0.04 U	18
Potassium		1600	1200	1500	1 U	1500
Selenium		0.99 U	1.1 U	0.61 J	0.01 U	0.75 J
Silver		0.99 U	1.1 U	1.1 U	0.01 U	1.1 U
Sodium		110 U	200 UJ	210 UJ	0.47 J	160 UJ
Thallium		0.99 U	0.62 UJ	1.1 U	0.01 U	0.74 UJ
Vanadium		23	22	27	0.01 U	31
Zinc		250 J	62 J	71 J	0.0063 J	79 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-1g

Waste Discrete Surface PCDD/PCDF Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-1g
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	WASTE-G-B-0-0 5FTEB	WASTE-G-B1-0-0 5FT	WASTE-G-B1-0-0 5FTFD	WASTE-G-B2-0-0 5FT	WASTE-G-B3-0-0 5FT	WASTE-G-B4-0-0 5FT	WASTE-H-B1-0-0 5FT
	Sample Date	10/07/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	09/27/99
	Units	ug/l	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000176 M	10 J	10.6	14.4	3.6 J	4.1 J	85
1,2,3,4,6,7,8,9-OCDF		0.0000118	0.12 J	0.09	1.1	0.06 UJ	0.07 UJ	10.5
1,2,3,4,6,7,8-HpCDD		0.0000057 U	0.09 J	0.09	0.46	0.05 UJ	0.05 UJ	6
1,2,3,4,6,7,8-HpCDF		0.0000164 U	0.04 UJ	0.03 U	0.22	0.04 UJ	0.05 UJ	2.7
1,2,3,4,7,8,9-HpCDF		0.0000212 U	0.04 UJ	0.03 U	0.04 U	0.04 UJ	0.05 UJ	0.13
1,2,3,4,7,8-HxCDD		0.0000056 U	0.04 UJ	0.03 U	0.04 U	0.04 UJ	0.04 UJ	0.08
1,2,3,4,7,8-HxCDF		0.0000153 U	0.03 UJ	0.02 U	0.03 U	0.03 UJ	0.03 UJ	0.44
1,2,3,6,7,8-HxCDD		0.0000053 U	0.03 UJ	0.03 U	0.03 U	0.04 UJ	0.04 UJ	0.19
1,2,3,6,7,8-HxCDF		0.0000142 U	0.03 UJ	0.02 U	0.03 U	0.03 UJ	0.04 UJ	0.08
1,2,3,7,8,9-HxCDD		0.0000055 U	0.04 UJ	0.03 U	0.03 U	0.04 UJ	0.04 UJ	0.16
1,2,3,7,8,9-HxCDF		0.000017 U	0.03 UJ	0.02 U	0.03 U	0.03 UJ	0.04 UJ	0.01 U
1,2,3,7,8-PeCDD		0.0000102 U	0.06 UJ	0.05 UJ	0.06 UJ	0.06 UJ	0.07 UJ	0.06
1,2,3,7,8-PeCDF		0.0000065 U	0.04 UJ	0.03 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.08
2,3,4,6,7,8-HxCDF		0.0000151 U	0.03 UJ	0.03 U	0.03 U	0.03 UJ	0.04 UJ	0.11
2,3,4,7,8-PeCDF		0.0000069 U	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.28 J
2,3,7,8-TCDD		0.0000078 U	0.03 UJ	0.03 UJ	0.03 UJ	0.04 UJ	0.04 UJ	0.04 M
2,3,7,8-TCDF		0.0000056 U	0.03 UJ	0.03 UJ	0.03 UJ	0.03 UJ	0.03 UJ	0.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1g
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	WASTE-H-B2-0-0 5FT	WASTE-H-B3-0-0 5FT	WASTE-H-B4-0-0 5FT	WASTE-I-B-0-0 5FTEB	WASTE-I-B1-0-0 5FT	WASTE-I-B2-0-0 5FT	WASTE-I-B3-0-0 5FT
	Sample Date	09/27/99	09/27/99	09/27/99	10/14/99	10/13/99	10/13/99	10/13/99
	Units	ug/kg	ug/kg	ug/kg	ug/l	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		8.6	5.3	328 J	0.0002 U	6.7	4920 J	94.4
1,2,3,4,6,7,8,9-OCDF		1.8	0.48	55.7	0.0002 U	2.3	1460 J	27.7
1,2,3,4,6,7,8-HpCDD		1.1	0.34	29.2	0.0001 U	1.1	337 J	6.2
1,2,3,4,6,7,8-HpCDF		0.73	0.15	11.6	0.0001 U	0.6	157 J	4.8
1,2,3,4,7,8,9-HpCDF		0.11	0.01 U	0.63	0.0001 U	0.08	29.4	1.1
1,2,3,4,7,8-HxCDD		0.07	0.01 U	0.21	0.0001 U	0.03 U	2.2 M	0.04 U
1,2,3,4,7,8-HxCDF		0.19	0.01 U	0.75	0.00006 U	0.12	22.4	1.1
1,2,3,6,7,8-HxCDD		0.16	0.01 U	0.98	0.0001 U	0.07	8.6	0.18
1,2,3,6,7,8-HxCDF		0.06	0.01 U	0.26	0.00007 U	0.05 M	9	0.4
1,2,3,7,8,9-HxCDD		0.23	0.01 U	0.57	0.0001 U	0.03 U	5	0.12
1,2,3,7,8,9-HxCDF		0.01 U	0.01 U	0.01 U	0.00007 U	0.02 U	0.2 U	0.22
1,2,3,7,8-PeCDD		0.14	0.03 U	0.14	0.0002 U	0.04 U	0.45	0.05 U
1,2,3,7,8-PeCDF		0.08	0.02 U	0.12	0.0001 U	0.02 U	13.2 M	0.1
2,3,4,6,7,8-HxCDF		0.06	0.01 U	0.4	0.00008 U	0.06	0.2 U	0.18
2,3,4,7,8-PeCDF		0.06 J	0.02 U	0.43 J	0.0001 U	0.03 U	2.5	0.23
2,3,7,8-TCDD		0.01 U	0.01 U	0.06	0.00009 U	0.02 U	0.1 U	0.03 U
2,3,7,8-TCDF		0.13	0.01 U	1	0.00008 U	0.07	2.6 J	0.22

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1g
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	WASTE-I-B4-0-0.5FT	WASTE-I-B4-0-0.5FTFD	WASTE-L-B1-0-0.5FT	WASTE-L-B2-0-0.5FT	WASTE-L-B3-0-0.5FT	WASTE-L-B4-0-0.5FT	WASTE-N-B1-0-0.5FT
	Sample Date	10/14/99	10/14/99	09/27/99	09/27/99	09/27/99	09/27/99	11/30/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		19.6	18.7	46.6	33	3.1	39.7	243 J
1,2,3,4,6,7,8,9-OCDF		5	4.2	9.5	2.5	0.25	3.5	16.1
1,2,3,4,6,7,8-HpCDD		1.3	1.3	4.3	2.1	0.21	2.6	16.8
1,2,3,4,6,7,8-HpCDF		0.96	1.1	3.8	1.9	0.37	0.8	4.2
1,2,3,4,7,8,9-HpCDF		0.08	0.09 M	0.32	0.13	0.01 U	0.07	0.16
1,2,3,4,7,8-HxCDD		0.009 U	0.04 U	0.12	0.08	0.01 U	0.05	0.07
1,2,3,4,7,8-HxCDF		0.08	0.11	1.3	0.7	0.14	0.08 M	0.36
1,2,3,6,7,8-HxCDD		0.05	0.04 U	0.12	0.1	0.02 U	0.11	0.38
1,2,3,6,7,8-HxCDF		0.04	0.06 M	0.4	0.19	0.05	0.07	0.03 U
1,2,3,7,8,9-HxCDD		0.01 U	0.04 U	0.22	0.14	0.02 U	0.08	0.26 J
1,2,3,7,8,9-HxCDF		0.007 U	0.03 U	0.01 U	0.01 U	0.01 U	0.01 U	0.03 U
1,2,3,7,8-PeCDD		0.01 U	0.06 U	0.07	0.04	0.02 U	0.03 U	0.05 U
1,2,3,7,8-PeCDF		0.01 U	0.04 U	0.45	0.21	0.02 M	0.02 U	0.02 U
2,3,4,6,7,8-HxCDF		0.05 M	0.03 U	0.63	0.33	0.09	0.08	0.03 U
2,3,4,7,8-PeCDF		0.01 U	0.04 U	0.5 J	0.23 J	0.07 J	0.02 U	0.02 U
2,3,7,8-TCDD		0.008 U	0.04 U	0.03 M	0.01 U	0.01 U	0.01 U	0.03 U
2,3,7,8-TCDF		0.008 U	0.03 U	1.1 J	0.51	0.11	0.09	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-1g
Solutia
Sauget Area 1
Waste - Discrete Surface (0-0.5 ft)
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	WASTE-N-B2-0-0 5FT	WASTE-N-B3-0-0 5FT	WASTE-N-B4-0-0 5FT	WASTE-N-B4-0-0 5FTEB	WASTE-N-B4-0-0 5FTFD
	Sample Date	11/30/99	11/30/99	12/02/99	12/02/99	12/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/l	ug/kg
Compound						
1,2,3,4,6,7,8,9-OCDD		31.5	1	4	0.0000062 U	7.1
1,2,3,4,6,7,8,9-OCDF		1.9	0.04	0.12	0.0000047 U	0.34
1,2,3,4,6,7,8-HpCDD		1.6	0.02 U	0.15	0.000004 U	0.32
1,2,3,4,6,7,8-HpCDF		0.5	0.02 U	0.03 U	0.0000025 U	0.09
1,2,3,4,7,8,9-HpCDF		0.03 U	0.02 U	0.04 U	0.0000037 U	0.04 U
1,2,3,4,7,8-HxCDD		0.03 U	0.01 U	0.03 U	0.0000029 U	0.02 U
1,2,3,4,7,8-HxCDF		0.02 U	0.01 U	0.03 U	0.000002 U	0.03 U
1,2,3,6,7,8-HxCDD		0.04 U	0.02 U	0.04 U	0.0000028 U	0.03 U
1,2,3,6,7,8-HxCDF		0.03 U	0.01 U	0.03 U	0.0000018 U	0.04 U
1,2,3,7,8,9-HxCDD		0.05 U	0.03 U	0.06 U	0.0000031 U	0.04 U
1,2,3,7,8,9-HxCDF		0.03 U	0.02 U	0.03 U	0.0000023 U	0.04 U
1,2,3,7,8-PeCDD		0.05 U	0.03 U	0.06 U	0.0000033 U	0.03 U
1,2,3,7,8-PeCDF		0.02 U	0.01 U	0.02 U	0.0000021 U	0.01 U
2,3,4,6,7,8-HxCDF		0.03 U	0.01 U	0.03 U	0.0000019 U	0.03 U
2,3,4,7,8-PeCDF		0.03 U	0.01 U	0.03 U	0.0000021 U	0.02 U
2,3,7,8-TCDD		0.03 U	0.01 U	0.03 U	0.0000026 U	0.02 U
2,3,7,8-TCDF		0.02 U	0.01 U	0.02 U	0.0000021 U	0.01 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-2

Summary Tables of Validated Analytical Data and Field/Equipment Blanks Ground Water

APPENDIX C-2a

Ground Water
Volatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		1.6 J	0.89 J	5.0 U	0.88 J	5.0 U	1.0 J	11
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5 U	5.0 U	0.64 J	5.0 U	0.78 J	11
Dibromochloromethane		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	0.51 J	4.7 U	4.7 U
Styrene		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5 U	5 U	13	7.1	5.0 U	7.8	5.0 U
Toluene		5 U	5 U	5.0 U	0.85 J	5.0 U	0.52 J	5.0 U
Trichloroethene		2.7 U	2.7 U	0.50 J	1.8 J	2.7 U	2.0 J	1.8 J
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		1.6	0.89	13.5	11.27	0.51	12.1	23.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	20	87	270 D	9.6	9.3	1.5 J	1.3 J
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene	5.0	1.3 J	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Toluene	5.0 U	5.0 U	5 U	5 U	5 U	0.54 J	5 U
Trichloroethene	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Total VOCs	25	88.3	270	9.6	9.3	2.04	1.3

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
	Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	10 J
Acetone		50 U	50 U	50 U	50 U	50 U	1.2 U	1.2 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	5 U	5 U
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.8 U	9.8 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	5 U	5 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Chlorobenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	14	88
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	5 U	5 U
Cis/Trans-1,2-Dichloroethene		0.55 J	1.9 J	7.5	5.0 U	5.0	10 U	10 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.3 J	21
Ethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	5 U	2.2 J
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	4.7 U	4.7 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Toluene		5.0 U	5.0 U	5.0 U	5.0 U	0.56 J	8.9	1.6 J
Trichloroethene		0.79 J	1.6 J	2.5 J	2.7 U	2.7 U	5 U	0.94 J
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	2.7 U	2.7 U
Xylenes, Total		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	7.5 J
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5 U	5 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1 U	1 U
Total VOCs		1.34	3.5	10	ND	5.56	27.2	131.24

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
	Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		2.2	0.49 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene		80	76	19	1.5 J	5 U	1.4 J	4.8 J
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		19	2.2 J	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		2.3 J	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene		1 J	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		7.1 J	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total VOCs		111.6	78.69	19	1.5	ND	1.4	4.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
	Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene		0.91 J	5 U	5 U	5 U	5 U	5 U	8.8
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total VOCs		0.91	ND	ND	ND	ND	ND	8.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
	Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U	5.0 U	5.0 U	3.7 J
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		16 J	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		0.57 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.1
Bromodichloromethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Bromoform		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		28	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		0.68 J	14	16	9.2	14	5.0 U	91
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5 U	5 U	5 U	5 U	5.0 U	5.0 U	13
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5 U	5 U	5 U	1.2 J	5.0 U	5.0 U	5.0 U
Toluene		1.4 J	0.73 J	5 U	5 U	0.63 J	5.0 U	2.2 J
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	1.8 J
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	5 U	5.0 U	5.0 U	30
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Total VOCs		46.65	14.73	16	10.4	14.63	ND	144.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
	Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	960
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	32 J
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	250 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	250 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	26	250 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	500 U
Benzene		1.3	7.5	11	18	1.2 U	140	620
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	98 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Chlorobenzene		66	63	92	230 D	5.0 U	600 D	1600
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	100 U
Chloroform		5.0 U	5.0 U	5.0 U	0.97 J	5.0 U	7.4	50 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	100 U
Cis/Trans-1,2-Dichloroethene		5.0 U	0.92 J	1.3 J	2.1 J	5.0 U	17	1200
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Ethylbenzene		5.0	2.0 J	2.7 J	3.8 J	5.0 U	18	870
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	47 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Toluene		0.88 J	3.8 J	5.7	6.5	5.0 U	46	18 J
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.5 J	27 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	970
Xylenes, Total		6.8	2.6 J	4.9 J	6.9	5.0 U	33	50 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Total VOCs		79.98	79.82	117.6	268.27	ND	889.9	6270

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
1,1,2,2-Tetrachloroethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
1,1,2-Trichloroethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
1,1-Dichloroethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
1,1-Dichloroethene	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
1,2-Dichloroethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
1,2-Dichloropropane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
2-Butanone (MEK)	2500 U	2500 U	250 U	2500 U	120 U	25 U	5000 U
2-Hexanone	2500 U	2500 U	250 U	2500 U	120 U	25 U	5000 U
4-Methyl-2-pentanone (MIBK)	2500 U	2500 U	250 U	2500 U	120 U	25 U	5000 U
Acetone	5000 U	5000 U	500 U	5000 U	250 U	50 U	10000 U
Benzene	290	120 U	190	120 U	12	1.2 U	140 J
Bromodichloromethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Bromoform	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Bromomethane	980 U	980 U	98 U	980 U	49 U	9.8 U	2000 U
Carbon disulfide	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Carbon tetrachloride	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Chlorobenzene	8700	9800	9400 D	20000	9900 D	5 U	34000
Chloroethane	1000 U	1000 U	100 U	1000 U	50 U	10 U	2000 U
Chloroform	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Chloromethane	1000 U	1000 U	100 U	1000 U	50 U	10 U	2000 U
Cis/Trans-1,2-Dichloroethene	500 U	500 U	310	500 U	25 U	5 U	1000 U
Dibromochloromethane	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Ethylbenzene	240 J	220 J	270	190 J	160	5 U	1000 U
Methylene chloride (Dichloromethane)	470 U	470 U	47 U	470 U	24 U	4.7 U	940 U
Styrene	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Tetrachloroethene	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Toluene	500 U	500 U	26 J	86 J	25 U	0.89 J	1000 U
Trichloroethene	270 U	270 U	27 U	270 U	14 U	2.7 U	540 U
Vinyl chloride	1000 U	1000 U	320	1000 U	50 U	10 U	2000 U
Xylenes, Total	500 U	500 U	23 J	500 U	25 U	5 U	1000 U
cis-1,3-Dichloropropene	100 U	100 U	10 U	100 U	5 U	1 U	200 U
trans-1,3-Dichloropropene	500 U	500 U	50 U	500 U	25 U	5 U	1000 U
Total VOCs	9230	10020	10539	20276	10072	0.89	34140

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
1,1,2-Trichloroethane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
1,1-Dichloroethane		5 U	5 U	5 U	180	160	500 U	500 U
1,1-Dichloroethene		5 U	5 U	5 U	31	100 U	500 U	500 U
1,2-Dichloroethane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
1,2-Dichloropropane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
2-Butanone (MEK)		25 U	25 U	25 U	120 U	500 U	2500 U	2500 U
2-Hexanone		25 U	25 U	25 U	120 U	500 U	2500 U	2500 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	120 U	500 U	2500 U	2500 U
Acetone		50 U	50 U	50 U	250 U	1000 U	5000 U	5000 U
Benzene		74	77	50	2.5 J	120	250	300
Bromodichloromethane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Bromoform		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Bromomethane		9.8 U	9.8 U	9.8 U	49 U	200 U	980 U	980 U
Carbon disulfide		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Carbon tetrachloride		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Chlorobenzene		280 D	280 D	340 D	120	3200	12000	19000
Chloroethane		10 U	10 U	10 U	50 U	200 U	1000 U	1000 U
Chloroform		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Chloromethane		10 U	10 U	10 U	50 U	200 U	1000 U	1000 U
Cis/Trans-1,2-Dichloroethene		1 J	5 U	5 U	510	300	160 J	500 U
Dibromochloromethane		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Ethylbenzene		71	74	32	25 U	210	500 U	500 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	24 U	94 U	470 U	470 U
Styrene		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Tetrachloroethene		0.91 J	1 J	5 U	7.4 J	100 U	500 U	500 U
Toluene		5 U	0.52 J	0.88 J	25 U	100 U	500 U	500 U
Trichloroethene		2.7 U	2.7 U	2.7 U	180	54 U	270 U	270 U
Vinyl chloride		10 U	10 U	1.2 J	160	240	1000 U	1000 U
Xylenes, Total		14	14	10	25 U	100 U	500 U	500 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	5 U	20 U	100 U	100 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	25 U	100 U	500 U	500 U
Total VOCs		440.91	446.52	434.08	1190.9	4230	12410	19300

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
1,1,2,2-Tetrachloroethane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
1,1,2-Trichloroethane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
1,1-Dichloroethane		100 U	27 J	100 U	5.0 U	100 U	120 U	120 U
1,1-Dichloroethene		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
1,2-Dichloroethane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
1,2-Dichloropropane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
2-Butanone (MEK)		500 U	500 U	500 U	25 U	500 U	620 U	620 U
2-Hexanone		500 U	500 U	500 U	25 U	500 U	620 U	620 U
4-Methyl-2-pentanone (MIBK)		500 U	500 U	500 U	25 U	500 U	620 U	620 U
Acetone		1000 U	1000 U	1000 U	50 U	1000 U	1200 U	1200 U
Benzene		200	270	120	1.2 U	120	60	50
Bromodichloromethane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Bromoform		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Bromomethane		200 U	200 U	200 U	9.8 U	200 U	240 U	240 U
Carbon disulfide		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Carbon tetrachloride		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Chlorobenzene		13000 D	12000 D	11000 D	2.2 J	9200 D	7300 D	3300
Chloroethane		200 U	200 U	200 U	10 U	200 U	250 U	250 U
Chloroform		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Chloromethane		200 U	200 U	200 U	10 U	200 U	250 U	250 U
Cis/Trans-1,2-Dichloroethene		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Dibromochloromethane		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Ethylbenzene		37 J	47 J	100 U	5.0 U	100 U	120 U	120 U
Methylene chloride (Dichloromethane)		94 U	94 U	94 U	4.7 U	94 U	120 U	120 U
Styrene		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Tetrachloroethene		81 J	83 J	100 U	5.0 U	66 J	120 U	120 U
Toluene		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Trichloroethene		54 U	26 J	54 U	2.7 U	54 U	68 U	68 U
Vinyl chloride		200 U	17 J	200 U	10 U	200 U	250 U	250 U
Xylenes, Total		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
cis-1,3-Dichloropropene		20 U	20 U	20 U	1.0 U	20 U	25 U	25 U
trans-1,3-Dichloropropene		100 U	100 U	100 U	5.0 U	100 U	120 U	120 U
Total VOCs		13318	12470	11120	2.2	9386	7360	3350

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE
ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
1,1,2,2-Tetrachloroethane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
1,1,2-Trichloroethane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
1,1-Dichloroethane		120 U	25 U	5 U	3.2 J	26	150	78
1,1-Dichloroethene		120 U	25 U	5 U	2.1 J	46	330	9.8 J
1,2-Dichloroethane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
1,2-Dichloropropane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
2-Butanone (MEK)		620 U	120 U	25 U	25 U	50 U	250 U	250 U
2-Hexanone		620 U	120 U	25 U	25 U	50 U	250 U	250 U
4-Methyl-2-pentanone (MIBK)		620 U	120 U	25 U	25 U	50 U	250 U	250 U
Acetone		1200 U	250 U	50 U	50 U	100 U	500 U	500 U
Benzene		52	23	1.2 U	1.2 U	4.9	45	74
Bromodichloromethane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Bromoform		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Bromomethane		240 U	49 U	9.8 U	9.8 U	20 U	98 U	98 U
Carbon disulfide		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Carbon tetrachloride		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Chlorobenzene		4900 D	700	5 U	0.68 J	22	350	1800
Chloroethane		250 U	50 U	10 U	10 U	20 U	100 U	100 U
Chloroform		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Chloromethane		250 U	50 U	10 U	10 U	20 U	100 U	100 U
Cis/Trans-1,2-Dichloroethene		120 U	25 U	5 U	25	210	1400	69
Dibromochloromethane		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Ethylbenzene		120 U	25 U	5 U	5 U	10 U	50 U	8.6 J
Methylene chloride (Dichloromethane)		120 U	24 U	4.7 U	4.7 U	9.4 U	47 U	47 U
Styrene		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Tetrachloroethene		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Toluene		120 U	2.7 J	5 U	0.94 J	10 U	50 U	50 U
Trichloroethene		91	14 U	2.7 U	2.7 U	2.3 J	27 U	27 U
Vinyl chloride		250 U	50 U	10 U	10 U	5 J	39 J	190
Xylenes, Total		120 U	25 U	5 U	5 U	10 U	50 U	50 U
cis-1,3-Dichloropropene		25 U	5 U	1 U	1 U	2 U	10 U	10 U
trans-1,3-Dichloropropene		120 U	25 U	5 U	5 U	10 U	50 U	50 U
Total VOCs		5043	725.7	ND	31.92	316.2	2314	2229.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
1,1,2-Trichloroethane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
1,1-Dichloroethane		64	34 J	5.0 U	32 J	250 U	5.0 U	5.0 U
1,1-Dichloroethene		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
1,2-Dichloroethane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
1,2-Dichloropropane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
2-Butanone (MEK)		250 U	250 U	25 U	250 U	1200 U	25 U	25 U
2-Hexanone		250 U	250 U	25 U	250 U	1200 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		250 U	250 U	25 U	250 U	1200 U	25 U	25 U
Acetone		500 U	500 U	50 U	500 U	2500 U	50 U	50 U
Benzene		72	68	1.2 U	69	53 J	1.2 U	1.2 U
Bromodichloromethane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Bromoform		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Bromomethane		98 U	98 U	9.8 U	98 U	490 U	9.8 U	9.8 U
Carbon disulfide		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Carbon tetrachloride		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Chlorobenzene		3300 D	5500 D	5.0 U	5600 D	5100	14	13
Chloroethane		100 U	100 U	10 U	100 U	500 U	10 U	10 U
Chloroform		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Chloromethane		100 U	100 U	10 U	100 U	500 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Dibromochloromethane		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Ethylbenzene		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		47 U	47 U	4.7 U	47 U	240 U	4.7 U	4.7 U
Styrene		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Tetrachloroethene		24 J	32 J	5.0 U	50 U	250 U	5.0 U	5.0 U
Toluene		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Trichloroethene		27 U	27 U	2.7 U	27 U	140 U	2.7 U	2.7 U
Vinyl chloride		130	43 J	10 U	42 J	500 U	10 U	10 U
Xylenes, Total		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		10 U	10 U	1.0 U	10 U	50 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		50 U	50 U	5.0 U	50 U	250 U	5.0 U	5.0 U
Total VOCs		3590	5677	ND	5743	5153	14	13

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,2-Dichloroethane		5.0 U	5.0 U	5 U	5.0 U	5 U	5 U	5 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	32	97	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Chlorobenzene		5.0 U	5.0 U	1.1 J	5.0 U	5 U	5 U	5 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Ethylbenzene		5.0 U	5.0 U	5.0 U	48	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Toluene		0.72 J	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	0.33 J	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	5.0 U	5 U	18	5 U	5 U	5 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Total VOCs		0.72	ND	33.1	163	ND	0.33	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		28 J	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene		5 U	5 U	15	9.6	9.3	6.7	5 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	1.1 J	1.4 J	0.65 J	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene		5 U	5 U	5 U	5 U	5 U	0.81 J	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Total VOCs		28	1.1	16.4	10.25	9.3	7.51	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	12	10
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5.0 U	5.0 U	5.0 U	0.44 J	5.0 U	0.52 J
Dibromochloromethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene		0.54 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		0.54	ND	ND	ND	0.44	12	10.52

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5.0 U	5.0 U	0.57 J	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	0.60 J	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		8.4	7.2	4.7 J	5.0 U	0.93 J	5.0 U	5.0 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene		0.32 J	2.7 U	0.64 J	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		8.72	7.2	6.51	ND	0.93	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	0.80 J	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	3.3	3.0	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		5.0 U	5.0 U	34	1.0 J	5.0 U	5.0 U	5.0 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.0 U	0.67 J	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene		5.0 U	5.0 U	5.0 U	0.99 J	5.0 U	5.0 U	5.0 U
Trichloroethene		0.34 J	2.7 U	2.7 U	0.75 J	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		0.34	ND	37.97	6.54	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	50	25 U	52
Acetone		50 U	50 U	50 U	50 U	38 J	50 U	41 J
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	55	1.2 U	53
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5 J	5.0 U	1.5 J
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		5.0 U	5.0 U	5.0 U	5.0 U	86	5.0 U	85
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.3	5.0 U	5.9
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	0.52 J	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.4	5.0 U	5.7
Toluene		5.0 U	0.81 J	2.6 J	5.0 U	6.0	5.0 U	5.4
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	0.64 J	2.7 U	0.78 J
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	3.7 J	3.8 J	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		ND	4.51	6.92	ND	251.34	ND	250.28

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
	Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	120 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	120 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	120 U	25 U	25 U	25 U	25 U	25 U
Acetone		100	250 U	50 U	50 U	50 U	50 U	50 U
Benzene		9.4	63	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Bromoform		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Bromomethane		9.8 U	49 U	9.8 UJ	9.8 UJ	9.8 U	9.8 UJ	9.8 UJ
Carbon disulfide		5.0 U	25 U	5 U	12	5 U	1.5 J	5 U
Carbon tetrachloride		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene		110	240	5 U	5 U	5 U	5 U	5 U
Chloroethane		10 U	50 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Chloromethane		10 U	50 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene		0.98 J	390	5 U	5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene		5.0 U	20 J	5 U	5 U	5 U	5 U	5 U
Toluene		3.9 J	44	0.59 J	0.68 J	5 U	5 U	5 U
Trichloroethene		2.7 U	3.7 J	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	50 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	36	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1.0 U	5.0 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5.0 U	25 U	5 U	5 U	5 U	5 U	5 U
Total VOCs		224.28	796.7	0.59	12.68	ND	1.5	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
1,1,2,2-Tetrachloroethane	12 J	250 U	500 U	5 U	50 U	5 U	25 U
1,1,2-Trichloroethane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
1,1-Dichloroethane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
1,1-Dichloroethene	100 U	250 U	500 U	5 U	50 U	5 U	25 U
1,2-Dichloroethane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
1,2-Dichloropropane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
2-Butanone (MEK)	500 U	1200 U	2500 U	25 U	250 U	25 U	120 U
2-Hexanone	500 U	1200 U	2500 U	25 U	250 U	25 U	120 U
4-Methyl-2-pentanone (MIBK)	500 U	1200 U	2500 U	25 U	250 U	25 U	120 U
Acetone	1000 U	2500 U	490 J	50 U	500 U	50 U	250 U
Benzene	1500	2200	2300	1.2 U	110	1.2 U	680
Bromodichloromethane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Bromoform	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Bromomethane	200 U	490 U	980 U	9.8 U	98 U	9.8 U	49 U
Carbon disulfide	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Carbon tetrachloride	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Chlorobenzene	1200	4100	4600	14	620	5 U	1400 D
Chloroethane	200 U	500 U	1000 U	10 U	100 U	10 U	50 U
Chloroform	100 U	410	440 J	5 U	50 U	5 U	25 U
Chloromethane	200 U	500 U	1000 U	10 U	100 U	10 U	50 U
Cis/Trans-1,2-Dichloroethene	100 U	250 U	500 U	5 U	42 J	5 U	25 U
Dibromochloromethane	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Ethylbenzene	1800	250 U	500 U	5 U	50 U	5 U	4.6 J
Methylene chloride (Dichloromethane)	94 U	240 U	470 U	4.7 U	47 U	4.7 U	24 U
Styrene	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Tetrachloroethene	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Toluene	94 J	1500	1600	5 U	970	5 U	5 J
Trichloroethene	54 U	40 J	59 J	2.7 U	18 J	2.7 U	14 U
Vinyl chloride	200 U	500 U	1000 U	10 U	100 U	10 U	50 U
Xylenes, Total	200	250 U	500 U	5 U	50 U	5 U	14 J
cis-1,3-Dichloropropene	20 U	50 U	100 U	1 U	10 U	1 U	5 U
trans-1,3-Dichloropropene	100 U	250 U	500 U	5 U	50 U	5 U	25 U
Total VOCs	4806	8250	9489	14	1760	ND	2103.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	120 U	11	11	5 U	5 U	5 U
1,1-Dichloroethene	5 U	120 U	10 U	10 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
2-Butanone (MEK)	25 U	620 U	50 U	50 U	25 U	25 U	25 U
2-Hexanone	25 U	620 U	50 U	50 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)	25 U	620 U	50 U	50 U	25 U	25 U	25 U
Acetone	50 U	1200 U	100 U	100 U	50 U	50 U	50 U
Benzene	1.2 U	750	4	3.8	1.2 U	1.2 U	1.2 U
Bromodichloromethane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Bromoform	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Bromomethane	9.8 U	240 U	20 U	20 U	9.8 U	9.8 U	9.8 U
Carbon disulfide	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Chlorobenzene	5 U	3800	200	190	5 U	11	5 U
Chloroethane	10 U	250 U	20 U	20 U	10 U	10 U	10 U
Chloroform	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Chloromethane	10 U	250 U	20 U	20 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene	5 U	160	66	62	5 U	5 U	5 U
Dibromochloromethane	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Ethylbenzene	5 U	83 J	10 U	10 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)	4.7 U	120 U	9.4 U	9.4 U	4.7 U	4.7 U	4.7 U
Styrene	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Tetrachloroethene	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Toluene	5 U	42 J	10 U	10 U	5 U	5 U	5 U
Trichloroethene	2.7 U	68 U	0.59 J	0.72 J	2.7 U	2.7 U	2.7 U
Vinyl chloride	10 U	250 U	20 U	20 U	10 U	10 U	10 U
Xylenes, Total	5 U	120 U	10 U	10 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	1 U	25 U	2 U	2 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	5 U	120 U	10 U	10 U	5 U	5 U	5 U
Total VOCs	ND	4835	281.59	267.52	ND	11	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
	Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	120 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	120 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	1300	50	25 U	25 U
Acetone		50 U	50 U	50 U	590	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	9.3	3700 D	44	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	49 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Carbon tetrachloride		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Chlorobenzene		5 U	5 U	180	4300 D	2.8 J	5 U	5 U
Chloroethane		10 U	10 U	10 U	50 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	25 U	76	5 U	5 U
Chloromethane		10 U	10 U	10 U	50 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5 U	5 U	190	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Ethylbenzene		5 U	5 U	5 U	32	5 U	5 UJ	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	24 U	3.6 J	3.2 J	4.7 U
Styrene		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	170	5 U	5 U	5 U
Toluene		5 U	5 U	5 U	8500 D	5 U	5 U	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	200	1.6 J	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	41 J	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	130	3.8 J	5 U	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	5 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	25 U	5 U	5 U	5 U
Total VOCs		ND	ND	189.3	19153	181.8	3.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
	Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		2.8 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		4.7	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2a
Solutia
Sauget Area 1
Ground Water
Method 8260B Volatile Organic Compound Data

	Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
	Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	0.64 J
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs		ND	ND	ND	ND	ND	ND	0.64

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-2b

Ground Water Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	1.2 J	10 U	1.4 J	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	1.2 J	10 U	1.2 J	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	0.39 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	1.9 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	5.7 J	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	3.7 J	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	5.9 J	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	5.9 J	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	2.4 J	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		0.48 J	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	4.8 J	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	0.52 J	10 U	10 U	10 U	10 U	10 U
Fluorene		1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	5.6 J	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		10 U	0.69 J	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		0.48	37.5	ND	2.4	ND	2.6	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	15	21	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	1.4 J	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	7.3 J	9.5 J	2.5 J	2 J	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	1.0 J	5.6 J	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
	Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	0.5 J	0.65 J	0.38 J	0.4 J
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.6 J	1.8 U	1.8 U	1.8 U	4.7	0.75 J
Total Semivolatiles		ND	24.9	37.5	3	2.65	5.08	1.15

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
	Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	1.4 J	6.6 J
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	1.2 J
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	9.2 J
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	0.68 J
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	14 J
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
	Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	0.28 J
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		ND	ND	ND	ND	ND	1.4	31.96

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
	Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		6 J	4.2 J	1.8 J	10 U	10 U	10 U	0.78 J
1,3-Dichlorobenzene		0.98 J	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		8.2 J	5.8 J	2.5 J	10 U	10 U	10 U	0.92 J
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		0.62 J	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		14 J	1 J	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	0.9 J	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U	3.4 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	0.26 J	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	29.8	11.26	4.3	ND	ND	0.9	1.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
	Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	1.5 J
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	1.4 J
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 UJ	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Benzo(a)pyrene		0.5 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		0.52 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Carbazole	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Chrysene	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	1.8 U	0.8 J	1.8 U	1.8 U	1.8 UJ	1.8 U	1.8 U
Total Semivolatiles	1.02	0.8	ND	ND	ND	ND	2.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	31	10 U	2500 D
1,2-Dichlorobenzene	10 U	1.8 J	10 U	0.89 J	4.4 J	10 U	680 D
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	0.36 J	10 U	94 J
1,4-Dichlorobenzene	10 U	10 U	10 U	1.1 J	20	10 U	2600 D
2,2'-Oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	6.1 J
2,4,6-Trichlorophenol	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	1.5 J
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	22 J
2,4-Dinitrophenol	14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	0.44 J	0.53 J	10 U	10 U	10 U	1.0 J
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	20 U	20 U	20 U	20 U	20 U	20 U	12 J
4-Chlorophenylphenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	0.37 J	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	0.35 J	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	1.2 J	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	0.55 J	10 U
Benzo(g,h,i)perylene	10 U	10 U	2.2 J	10 U	10 U	3.4 J	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
	Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	2.4 J
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	0.26 J	0.34 J	0.32 J
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	2.4 J	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	0.31 J
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		0.58 J	10 U	10 U	10 U	10 U	0.38 J	10 U
Fluorene		1 U	1 U	1 U	1 U	0.58 J	1.0 U	1.9
Hexachlorobenzene		10 U	10 U	10 U	10 U	6.0 J	10 U	21
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	1.8 J	10 U	10 U	3.0 J	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	3.2 J
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
Phenanthrene		2.3 J	10 U	10 U	10 U	10 U	0.74 J	2.9 J
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	3.3	0.86 J	2.0
Total Semivolatiles		2.88	2.24	4.53	1.99	65.9	13.59	5950.63

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
Units	ug/l	ug/l dw	ug/l	ug/l dw	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	510	1200 D	1000 D	150	10 U	160	10 UJ
1,2-Dichlorobenzene	250 J	27	30	170	10 U	140	13 J
1,3-Dichlorobenzene	140 J	9.5 J	10	120	10 U	8.1 J	10 UJ
1,4-Dichlorobenzene	14000	1300 D	1000 D	2400 D	10 U	810 D	20 J
2,2'-Oxybis(1-Chloropropane)	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2,4,5-Trichlorophenol	500 U	7.8 J	8.0 J	4.1 J	10 U	23	10 UJ
2,4,6-Trichlorophenol	100 U	2.1 U	3.4	7.3	2.1 U	52	2.1 UJ
2,4-Dichlorophenol	57 J	29	29	35	10 U	69	10 UJ
2,4-Dinitrophenol	700 U	14 U	14 U	14 U	14 U	14 U	14 UJ
2,4-Dinitrotoluene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2,6-Dinitrotoluene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Chloronaphthalene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Chlorophenol	500 U	0.86 J	1.1 J	2.3 J	10 U	5.6 J	10 UJ
2-Methylnaphthalene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Methylphenol (o-cresol)	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-Nitroaniline	2500 U	50 U	50 U	50 U	50 U	50 U	50 UJ
2-Nitrophenol	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
3,3'-Dichlorobenzidine	1000 U	20 U	20 U	20 U	20 U	20 U	20 UJ
3-Methylphenol/4-Methylphenol	500 U	10 U	10 U	0.76 J	10 U	4.5 J	10 UJ
3-Nitroaniline	2500 U	50 U	50 U	50 U	50 U	50 U	50 UJ
4,6-Dinitro-2-methylphenol	650 U	13 U	13 U	13 U	13 U	14	13 UJ
4-Bromophenylphenyl ether	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 UJ
4-Chloro-3-methylphenol	500 U	10 U	10 U	1.0 J	10 U	10 U	10 UJ
4-Chloroaniline	1000 U	2.4 J	20 U	20	20 U	80	4100 JD
4-Chlorophenylphenyl ether	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
4-Nitroaniline	2500 U	50 U	50 U	50 U	50 U	50 U	50 UJ
4-Nitrophenol	2500 U	50 U	50 U	50 U	50 U	50 U	50 UJ
Acenaphthene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Acenaphthylene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Anthracene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(a)anthracene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(a)pyrene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(b)fluoranthene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(g,h,i)perylene	500 U	10 U	10 U	10 U	3.8 J	10 U	10 UJ
Benzo(k)fluoranthene	500 U	10 U	10 U	10 U	10 U	10 U	10 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
	Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
	Units	ug/l	ug/l dw	ug/l	ug/l dw	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Carbazole		170 U	3.4 U	3.4 U	3.4 U	3.4 U	2.8 J	3.4 UJ
Chrysene		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Di-n-butylphthalate		500 U	10 U	0.52 J	10 U	0.36 J	0.39 J	10 UJ
Di-n-octylphthalate		500 U	10 U	10 U	10 U	10 U	0.39 J	10 UJ
Dibenzo(a,h)anthracene		500 U	10 U	10 U	10 U	2.2 J	10 U	10 UJ
Dibenzofuran		500 U	10 U	10 U	1.1 J	10 U	10 U	10 UJ
Diethylphthalate		500 U	10 U	10 U	10 U	10 U	2.1 J	10 UJ
Dimethylphthalate		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Fluoranthene		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Fluorene		50 U	1.2	0.89 J	4.2	1.0 U	7.0	1 UJ
Hexachlorobenzene		500 U	0.48 J	0.49 J	0.37 J	10 U	10 U	10 UJ
Hexachlorobutadiene		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Hexachlorocyclopentadiene		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Hexachloroethane		95 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ
Indeno(1,2,3-cd)pyrene		500 U	10 U	10 U	10 U	2.0 J	10 U	10 UJ
Isophorone		500 U	10 U	10 U	10 U	10 U	0.75 J	10 UJ
N-Nitroso-di-n-propylamine		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
N-Nitrosodiphenylamine		250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 UJ
Naphthalene		500 U	10 U	10 U	10 U	10 U	24	10 UJ
Nitrobenzene		180 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ
Pentachlorophenol		250 U	25	50	95	5.0 U	710 D	5 UJ
Phenanthrene		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Phenol		500 U	10 U	10 U	10 U	10 U	27	10 UJ
Pyrene		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
bis(2-Chloroethoxy)methane		500 U	10 U	10 U	10 U	10 U	10 U	10 UJ
bis(2-Chloroethyl)ether		500 U	10 U	10 U	10 U	10 U	10 U	1.1 J
bis(2-Ethylhexyl)phthalate		90 U	1.8 U	3.0	2.0	2.6	32	0.69 J
Total Semivolatiles		14957	2603.24	2136.4	3013.13	10.96	2172.63	4134.79

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
	Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
1,2-Dichlorobenzene		130	320 JD	310	66 J	91	10 U	19
1,3-Dichlorobenzene		110	280	290 JD	200 J	210	10 U	130
1,4-Dichlorobenzene		4400 D	10000 D	6700 D	8100	6100 D	10 U	3100
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	500 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	500 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	100 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	500 U	42	10 U	8.8 J
2,4-Dinitrophenol		14 U	14 U	14 U	700 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
2-Chlorophenol		5.5 J	13	16	500 U	39	10 U	52
2-Methylnaphthalene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	3 J	10 U	500 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	2500 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	500 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	1000 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	500 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	2500 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	650 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	50 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	500 U	10 U	10 U	10 U
4-Chloroaniline		2400 D	1400 JD	1700 D	520 J	180	20 U	18 J
4-Chlorophenylphenyl ether		10 U	10 U	10 U	500 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	2500 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	2500 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	500 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
	Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Butylbenzylphthalate		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Carbazole		1.4 J	5	12	170 U	13	3.4 U	3.4 U
Chrysene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	0.34 J	500 U	10 U	10 U	0.51 J
Di-n-octylphthalate		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	19 J	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	5.1 J	500 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	22 J	10 U	10 U	10 U
Fluorene		1 U	1 U	1 U	50 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	95 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	500 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	500 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.3	14	22	250 U	28	5 U	18
Naphthalene		4.2 J	15	24	500 U	1.9 J	10 U	0.57 J
Nitrobenzene		3.5 U	3.5 U	3.5 U	180 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	250 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	0.47 J	89 J	0.5 J	10 U	10 U
Phenol		10 U	4.4 J	10 U	500 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	500 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	500 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	500 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	90 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		7056.4	12054.4	9079.91	9016	6705.4	ND	3346.88

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1,2,4-Trichlorobenzene		2700	2300 D	980	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		500	390 D	170 J	10 U	140	120	48
1,3-Dichlorobenzene		80 J	63 JD	150 J	10 U	120	150	150
1,4-Dichlorobenzene		6900	5800 D	9700	92	4200 D	4900 D	2900 D
2,2'-Oxybis(1-Chloropropane)		400 U	10 U	400 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		400 U	1.8 J	400 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		84 U	2.1 U	84 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		400 U	15	47 J	10 U	6.6 J	10 U	21
2,4-Dinitrophenol		560 U	14 U	560 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
2-Chlorophenol		400 U	10 U	400 U	10 U	5.3 J	31	84
2-Methylnaphthalene		400 U	1.3 J	400 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		400 U	10 U	400 U	10 U	10 U	10 U	10 U
2-Nitroaniline		2000 U	50 U	2000 U	50 U	50 U	50 U	50 U
2-Nitrophenol		400 U	10 U	400 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		800 U	20 U	800 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		400 U	10 U	400 U	10 U	10 U	10 U	10 U
3-Nitroaniline		2000 U	50 U	2000 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		520 U	13 U	520 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		40 U	1 U	40 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		400 U	10 U	400 U	10 U	10 U	10 U	10 U
4-Chloroaniline		800 U	20 U	800 U	21	680 D	340	130
4-Chlorophenylphenyl ether		400 U	10 U	400 U	10 U	10 U	10 U	10 U
4-Nitroaniline		2000 U	50 U	2000 U	50 U	50 U	50 U	50 U
4-Nitrophenol		2000 U	50 U	2000 U	50 U	50 U	50 U	50 U
Acenaphthene		400 U	0.33 J	400 U	10 U	10 U	10 U	10 U
Acenaphthylene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Anthracene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		400 U	10 U	400 U	0.59 J	10 U	10 U	10 U
Benzo(a)pyrene		400 U	10 U	400 U	0.98 J	10 U	10 U	10 U
Benzo(b)fluoranthene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		400 U	10 U	400 U	1.2 J	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Carbazole		140 U	13	140 U	10 U	10 U	10 U	10 U
Chrysene		400 U	10 U	400 U	0.73 J	10 U	10 U	10 U
Di-n-butylphthalate		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		400 U	10 U	400 U	1.1 J	0.85 J	10 U	10 U
Dibenzofuran		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Diethylphthalate		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Dimethylphthalate		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Fluoranthene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Fluorene		40 U	1 U	40 U	1 U	1 U	1 U	1 U
Hexachlorobenzene		400 U	1 J	400 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Hexachloroethane		76 U	1.9 U	76 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
Isophorone		400 U	10 U	400 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		400 U	10 U	400 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		200 U	20	200 U	5 U	5 U	1.1 J	2.2 J
Naphthalene		400 U	66	400 U	10 U	10 U	1.3 J	38
Nitrobenzene		140 U	3.5 U	140 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		200 U	5 U	200 U	5 U	5 U	5 U	5 U
Phenanthrene		400 U	1.3 J	400 U	10 U	10 U	10 U	10 U
Phenol		400 U	10 U	400 U	10 U	10 U	10 U	6 J
Pyrene		400 U	10 U	400 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		400 U	10 U	400 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		400 U	10 U	400 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		72 U	1.8 U	72 U	1.8 U	1.8 U	0.51 J	1.8 U
Total Semivolatiles		10180	8672.73	11047	117.6	5152.75	5543.91	3379.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 UJ	33 J
1,2-Dichlorobenzene		59	71	1.6 J	10 U	10 U	10 UJ	21 J
1,3-Dichlorobenzene		130	160	40	10 U	50	41 J	81 J
1,4-Dichlorobenzene		3700 D	4500 D	510 D	10 U	560 D	610 JD	5300 JD
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 UJ
2,4-Dichlorophenol		10 U	10 U	1.2 J	10 U	2.0 J	5.9 J	39 J
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 UJ	14 UJ
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Chlorophenol		13	16	9.2 J	10 U	16	36 J	21 J
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 UJ	50 UJ
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 UJ	20 UJ
3-Methylphenol/4-Methylphenol		10 U	1.7 J	10 U	10 U	10 U	10 UJ	10 UJ
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 UJ	50 UJ
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 UJ	13 UJ
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 UJ	1 UJ
4-Chloro-3-methylphenol		10 U	1.5 J	10 U	10 U	10 U	10 UJ	10 UJ
4-Chloroaniline		280	320	26	20 U	36	15 J	58 J
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 UJ	50 UJ
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 UJ	50 UJ
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Anthracene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 UJ	0.63 J
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	0.94 J	10 UJ	10 UJ
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Carbazole		3.4 U	10 U	3.4 U	3.4 U	3.4 U	3.4 UJ	3.4 UJ
Chrysene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Diethylphthalate		10 U	10 U	10 U	10 U	1.5 J	10 UJ	10 UJ
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Fluorene		1.0 U	5.4 J	1.0 U	1.0 U	1.0 U	1 UJ	1 UJ
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ	1.9 UJ
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	0.66 J	10 UJ	10 UJ
Isophorone		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
N-Nitrosodiphenylamine		5.0 U	2.4 J	5.0 U	5.0 U	5.0 U	5 UJ	0.47 J
Naphthalene		7.6 J	8.7 J	5.9 J	10 U	9.1 J	20 J	11 J
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 UJ
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 UJ	5 UJ
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Phenol		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Pyrene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	3.6	1.8 U	0.77 J	1.8 UJ	1.8 UJ
Total Semivolatiles		4189.6	5086.7	597.5	ND	676.97	727.9	5565.1

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		2.6 J	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 J	11	10 U	10 U	10 U	1.1 J	34
1,3-Dichlorobenzene		42 J	16	10 U	10 U	10 U	10 U	31
1,4-Dichlorobenzene		1300 JD	1000 D	10 U	10 U	10 U	36	1500 D
2,2'-Oxybis(1-Chloropropane)		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		16 J	10 U	10 U	10 U	10 U	10 U	20
2,4-Dinitrophenol		14 UJ	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		28 J	4.1 J	10 U	10 U	10 U	3 J	12
2-Methylnaphthalene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 UJ	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 UJ	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 UJ	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 UJ	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		21 J	75	20 U	20 U	3 J	36	170
4-Chlorophenylphenyl ether		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 UJ	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 UJ	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 UJ	10 U	10 U	1.3 J	10 U	10 U	0.36 J
Benzo(a)pyrene		10 UJ	10 U	0.45 J	2 J	10 U	10 U	0.98 J
Benzo(b)fluoranthene		10 UJ	10 U	0.3 J	1.7 J	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 UJ	10 U	10 U	2.2 J	10 U	10 U	0.74 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 UJ	3.4 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 UJ	10 U	10 U	1.5 J	10 U	10 U	10 U
Di-n-butylphthalate		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 UJ	10 U	10 U	10 U	10 U	10 U	0.5 J
Dibenzo(a,h)anthracene		10 UJ	10 U	10 U	1.6 J	10 U	10 U	10 U
Dibenzofuran		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		0.58 J	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 UJ	10 U	10 U	10 U	10 U	10 U	0.86 J
Isophorone		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		16 J	2.5 J	10 U	10 U	10 U	1.5 J	6.8 J
Nitrobenzene		3.5 UJ	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 UJ	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		1436.18	1108.6	0.75	10.3	3	77.6	1777.24

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		54	8.6 J	10 U	8.0 J	3.4 J	13	10
1,3-Dichlorobenzene		79	47	10 U	43	38	56	47
1,4-Dichlorobenzene		3200 D	1200 D	10 U	1500 D	790 D	290	250
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		32	6.4 J	10 U	12	9.2 J	4.1 J	3.5 J
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		22	20	10 U	34	28	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		100	22	20 U	22	12 J	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	2.3 J
Benzo(a)pyrene		10 U	10 U	0.035 J	10 U	10 U	10 U	3.4 J
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	3.8 J
Benzo(g,h,i)perylene		10 U	2.0 J	0.88 J	10 U	2.5 J	10 U	3.0 J
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	4.0 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	0.53 J
Carbazole		3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	3.1 J
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	0.33 J	0.27 J
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	2.4 J
Dibenzo(a,h)anthracene		10 U	1.6 J	0.61 J	10 U	1.7 J	10 U	3.0 J
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	0.53 J	10 U	10 U	10 U	0.92 J
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene		13	13	10 U	23	18	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		2.0 J	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	9.7 J	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.4
Total Semivolatiles		3502	1320.6	2.055	1651.7	902.8	363.43	340.62

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		0.42 J	10 U	0.49 J	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		9.3 J	3.0 J	4.8 J	3.9 J	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	5.6 J	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	2.1 J	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	0.58 J	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	0.42 J	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		0.31 J	0.29 J	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Naphthalene		10 U	1.9 J	10 U	1400 D	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	0.42 J
Phenol		10 U	10 U	10 U	2.1 J	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		3.8	1.0 J	2.7	1.3 J	1.8 U	1.8 U	1.8 U
Total Semivolatiles		13.83	6.19	8.99	1415	ND	ND	0.42

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	3.5 J	3.3 J	3.3 J	2 J	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	7 J	7.4 J	6.9 J	3.5 J	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	3.4 U	3.4 U	3.4 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	0.27 J	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		ND	ND	10.5	10.97	10.2	5.5	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	3.9 J	5.8 J
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	11	10
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	0.25 J
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		ND	ND	ND	ND	ND	14.9	16.05

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		3.8 J	3.4 J	0.86 J	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		7.9 J	8.6 J	0.95 J	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		11.7	12	1.81	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	0.53 J	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	1.3 J	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	5.3 J	1.2 J	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		0.32 J	10 U	10 U	10 U	10 U	0.43 J	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	0.48 J	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		0.32	ND	7.13	1.2	ND	0.91	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	9400 D	0.88 J	87000 D
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	29 J	10 U	140 J
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	36 J
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	210	10 U	960
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	200 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	120	10 U	150 J
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U	42 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	63 J	10 U	97 J
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	280 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
2-Chlorophenol		10 U	10 U	10 U	10 U	11	10 U	12 J
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	19 J
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	4.1 J	10 U	200 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	1000 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	400 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	200 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	1000 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	260 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	200 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	400 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	200 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	1000 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	1000 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	200 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
Anthracene		10 U	10 U	10 U	10 U	0.76 J	10 U	8.7 J
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	0.83 J	200 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	1.6 J	200 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	1.7 J	200 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	2.2 J	200 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	2.8 J	2.2 J	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	1.2 J	10 U	200 U
Carbazole		10 U	10 U	10 U	10 U	1.0 J	3.4 U	68 U
Chrysene		10 U	10 U	10 U	10 U	5.4 J	1.4 J	120 J
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	200 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	0.64 J	200 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	3.0 J	2.1 J	200 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
Diethylphthalate		0.49 J	10 U	10 U	10 U	10 U	10 U	200 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	8.2 J
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	20 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	520 D	10 U	8400 D
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	200 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	R	10 U	200 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	38 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	2.4 J	200 U
Isophorone		10 U	10 U	10 U	10 U	0.43 J	10 U	200 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	200 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	3.3 J	5.0 U	26 J
Naphthalene		10 U	10 U	10 U	10 U	38	10 U	69 J
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 UJ	3.5 U	70 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	100 U
Phenanthrene		10 U	10 U	10 U	10 U	3.5 J	0.36 J	71 J
Phenol		10 U	10 U	10 U	10 U	48	10 U	51 J
Pyrene		10 U	10 U	10 U	10 U	3.1 J	10 U	75 J
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 UJ	10 U	200 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	200 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	3.9 U	2.7 J	36 U
Total Semivolatiles		0.49	ND	ND	ND	10467.59	19.01	97242.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	600 D	1100000 D	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	8.7 J	12000	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	1.2 J	1100	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	23	51000 D	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	1.0 J	1000 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	2.1 U	1700	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol	1.3 J	2400	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	14 U	1400 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	670 J	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	5000 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	2000 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50 U	5000 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	13 U	5000 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	3.2	100 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	14 J	2000 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50 U	5000 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50 U	5000 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	10 U	130 J	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	1000 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	130 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	400 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	380 J	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	290 J	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	300 J	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	220 J	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
	Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Butylbenzylphthalate		10 U	160 J	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 U	240 J	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	740 J	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	300 J	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	180 J	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	210 J	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	170 J	0.44 J	0.33 J	10 U	10 U	0.36 J
Fluorene		0.61 J	360	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene		0.35 J	90000 D	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	190 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	240 J	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	760	5 U	5 U	5 U	5 U	5 U
Naphthalene		7.4 J	5800	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	140 J	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	500 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene		10 U	790 J	0.38 J	10 U	10 U	10 U	10 U
Phenol		10 U	180 J	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	540 J	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	1000 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	420	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		660.76	1271950	0.82	0.33	ND	ND	0.36

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
	Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		19	290	340	10 U	1.6 J	10 U	0.55 J
1,2-Dichlorobenzene		720 D	200	240	2.2 J	5.7 J	10 U	3.9 J
1,3-Dichlorobenzene		10 U	4.7 J	6.2 J	10 U	1.9 J	10 U	13
1,4-Dichlorobenzene		2200 D	550 D	720 D	21	16	10 U	96
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		62	180	200	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		270	420 D	510 D	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	310	430 D	0.75 J	3.1 J	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		12	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		73	20	25	10 U	38	10 U	10
2-Methylnaphthalene		8 J	1.8 J	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		30	25	31	10 U	26	10 U	0.39 J
2-Nitroaniline		50 U	14 J	13 J	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		62	200	230	10 U	130	10 U	4.8 J
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		1800 D	690 D	860 D	20 U	1600 JD	20 U	1400 D
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	8.4 J	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		2.2 J	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
	Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		5.2 J	1.1 J	1.2 J	10 U	10 U	10 U	3.5
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	1.4 J
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	20	22	10 U	7.1 J	10 U	10 U
Dimethylphthalate		10 U	3.5 J	3.8 J	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	0.41 J
Fluorene		30	1 U	1.5	1 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		7.6	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene		2300 D	190	200	10 U	390 J	10 U	6.5 J
Nitrobenzene		3.5 U	52	61	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		4300 D	580 D	760 D	3 J	5 U	5 U	5 U
Phenanthrene		4.8 J	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		72	290	340	10 U	380 JD	10 U	19
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	0.74 J	1.8 U	1.8 U	1.8 U	1.8 U	0.79 J
Total Semivolatiles		11977.8	4042.84	4994.7	26.95	2607.8	ND	1560.24

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
	Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	510 D	10 U	10 U	10 U	10	10 U
1,2-Dichlorobenzene		10 U	500 D	24	24	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	45	11	11	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	14000 D	440 D	420 D	10 U	58	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	1.6 J	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	15	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	27	4.3 J	2 J	10 U	10 U	10 U
2-Methylnaphthalene		10 U	4.2 J	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	21	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	110	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	1800 D	6.9 J	7.6 J	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	10 U	10	10 U	10 U	10 U	10 U	10 U
Carbazole	3.4 U	26	3.4 U	3.4 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5 U	23	5 U	5 U	5 U	5 U	5 U
Naphthalene	10 U	36	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	5 U	500 D	5 U	5 U	5 U	5 U	5 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	17	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	1.8 U	1.1 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	ND	17646.9	486.2	464.6	ND	68	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	10 U	10 U	47	180 J	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	4.6 J	300 J	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	330	850	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	10 U	10 U	10 U	400 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	400 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	2.1 U	2.1 U	0.47 J	84 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol	10 U	10 U	11	3600	26	10 U	10 U
2,4-Dinitrophenol	14 U	14 U	14 U	560 U	14 U	14 U	14 U
2,4-Dinitrotoluene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	2.3 J	630	21	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	10 U	10 U	10 U	230 J	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	2000 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	400 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	800 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	10 U	10 U	10 U	2400	5.5 J	10 U	10 U
3-Nitroaniline	50 U	50 U	50 U	2000 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	13 U	13 U	13 U	520 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	1 U	1 U	1 U	40 U	1 U	1 U	1 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	400 U	10 U	10 U	10 U
4-Chloroaniline	20 U	20 U	20 U	23000 D	55	20 U	20 U
4-Chlorophenylphenyl ether	10 U	10 U	10 U	400 U	10 U	10 U	10 U
4-Nitroaniline	50 U	50 U	50 U	2000 U	50 U	50 U	50 U
4-Nitrophenol	50 U	50 U	50 U	2000 U	50 U	50 U	50 U
Acenaphthene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	400 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	400 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
	Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Fluorene		1 U	1 U	1 U	40 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	76 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	400 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	400 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	200 U	5 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	2100	28	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	140 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	2000	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	14000 D	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	400 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	400 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	400 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	72 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		ND	ND	395.37	49290	135.5	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
	Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 UJ
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		1.1 J	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
	Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		1.1	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
	Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	0.39 J	0.35 J	0.32 J	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	0.87 J	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	0.52 J	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	0.49 J	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	0.44 J	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	1.1 J	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U
Chrysene	10 U	10 U	10 U	10 U	0.70 J	10 U	10 U
Di-n-butylphthalate	10 U	10 U	0.37 J	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1.0 U	1.0 U	1.0 U	1.0 U	1.6	1.0 U	1.0 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	0.66 J	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	ND	ND	0.76	0.35	6.7	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	TS-S2-24HR	UGGW-EE-04	UGGW-EE-04-100FT	UGGW-EE-04-100FTFD	UGGW-EE-04-60FT	UGGW-EE-04FD	UGGW-EE-20
	Sample Date	03/30/00	10/13/99	01/27/00	01/27/00	10/13/99	10/13/99	10/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	R
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		0.65 J	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		0.37 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		0.72 J	10 UJ	0.82 J	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 UJ	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	TS-S2-24HR	UGGW-EE-04	UGGW-EE-04-100FT	UGGW-EE-04-100FTFD	UGGW-EE-04-60FT	UGGW-EE-04FD	UGGW-EE-20
	Sample Date	03/30/00	10/13/99	01/27/00	01/27/00	10/13/99	10/13/99	10/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		3.4 U	10 U	3.4 U	3.4 U	10 U	10 U	10 U
Chrysene		0.45 J	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	0.36 J
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	0.35 J
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		1.3	1 U	1.0 U	1.0 U	1 U	1 U	0.24 J
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5 U	5.0 U	5.0 U	5 U	5 U	0.25 J
Naphthalene		10 U	10 U	100	98	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		0.70 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		4.19	ND	100.82	98	ND	ND	1.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UGGW-EE-20-100FT	UGGW-EE-20-60FT	UGGW-EEG-108	UGGW-EEG-108-100FT	UGGW-EEG-108-60FT	UGGW-EEG-108-60FTEB	UGGW-EEG-108FD
	Sample Date	01/25/00	01/24/00	10/11/99	01/31/00	01/28/00	01/28/00	10/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	R	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1 U	1 U	1.0 U	1.0 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		8.0 J	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	0.97 J	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2b
Solutia
Sauget Area 1
Ground Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	UGGW-EE-20-100FT	UGGW-EE-20-60FT	UGGW-EEG-108	UGGW-EEG-108-100FT	UGGW-EEG-108-60FT	UGGW-EEG-108-60FTEB	UGGW-EEG-108FD
Sample Date	01/25/00	01/24/00	10/11/99	01/31/00	01/28/00	01/28/00	10/11/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	3.4 U	3.4 U	10 U	3.4 U	3.4 U	3.4 U	10 U
Chrysene	10 U	1.3 J	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1.0 U	1.0 U	1 U	1 U	1.0 U	1.0 U	1 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5 U	5 U	5.0 UJ	5.0 U	5 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	5.0 U	5.0 U	5 U	5 U	5.0 U	5.0 U	5 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	8	2.27	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Ground Water Pesticide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
4,4'-DDE		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
4,4'-DDT		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Aldrin		0.05 UJ	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Alpha Chlordane		0.05 UJ	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Dieldrin		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Endosulfan I		0.05 UJ	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endosulfan II		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Endosulfan sulfate		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Endrin		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Endrin aldehyde		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Endrin ketone		0.1 UJ	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ
Gamma Chlordane		0.05 UJ	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Heptachlor		0.05 UJ	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Heptachlor epoxide		0.05 UJ	0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Methoxychlor		0.5 UJ	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
Toxaphene		5 UJ	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
alpha-BHC		0.039 UJ	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 UJ
beta-BHC		0.014 UJ	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 UJ
delta-BHC		0.012 UJ	0.012 U	0.012 U	0.034 J	0.0077 J	0.030 J	0.0056 J
gamma-BHC (Lindane)		0.019 UJ	0.019 U	0.019 U	0.032 J	0.019 U	0.028 JN	0.013 J
Total Pesticides		ND	ND	ND	0.066	0.0077	0.058	0.0186

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
	Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDE		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
4,4'-DDT		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Aldrin		0.050 UJ	0.050 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Alpha Chlordane		0.050 UJ	0.050 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Dieldrin		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan I		0.050 UJ	0.050 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan II		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin aldehyde		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin ketone		0.10 UJ	0.10 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Gamma Chlordane		0.050 UJ	0.050 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor		0.050 UJ	0.037 J	0.0075 J	0.0032 J	0.003 J	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.050 UJ	0.050 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Methoxychlor		0.50 UJ	0.50 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Toxaphene		5.0 UJ	5.0 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
alpha-BHC		0.039 UJ	0.039 UJ	0.039 UJ	0.039 UJ	0.039 UJ	0.039 UJ	0.039 UJ
beta-BHC		0.014 UJ	0.014 UJ	0.014 UJ	0.014 UJ	0.014 UJ	0.014 UJ	0.014 UJ
delta-BHC		0.0024 J	0.019 J	0.015 J	0.0034 J	0.012 UJ	0.012 UJ	0.012 UJ
gamma-BHC (Lindane)		0.0011 J	0.0029 J	0.019 UJ	0.0018 J	0.019 UJ	0.019 UJ	0.019 UJ
Total Pesticides		0.0035	0.0589	0.0225	0.0084	0.003	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
	Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
4,4'-DDE		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
4,4'-DDT		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
Aldrin		0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.05 UJ	0.05 UJ
Alpha Chlordane		0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.05 UJ	0.05 UJ
Dieldrin		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.011 J
Endosulfan I		0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.05 UJ	0.05 UJ
Endosulfan II		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
Endrin		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
Endrin aldehyde		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
Endrin ketone		0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 UJ	0.1 UJ	0.1 UJ
Gamma Chlordane		0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.05 UJ	0.05 UJ
Heptachlor		0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 UJ	0.05 UJ	0.046 J
Methoxychlor		0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.5 UJ	0.5 UJ
Toxaphene		5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	5 UJ	5 UJ
alpha-BHC		0.039 U	0.039 UJ	0.039 U	0.039 U	0.039 UJ	0.039 UJ	0.039 UJ
beta-BHC		0.014 U	0.014 UJ	0.014 U	0.014 U	0.014 UJ	0.014 UJ	0.014 UJ
delta-BHC		0.012 U	0.012 UJ	0.012 UJ	0.012 UJ	0.012 UJ	0.0054 J	0.014 J
gamma-BHC (Lindane)		0.019 U	0.019 UJ	0.0050 J	0.012 J	0.034 J	0.028 J	0.023 J
Total Pesticides		ND	ND	0.005	0.012	0.034	0.0334	0.094

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

Compound	Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
	Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
4,4'-DDD		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
4,4'-DDE		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
4,4'-DDT		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Aldrin		0.05 UJ	0.05 UJ	0.05 UJ.	0.05 U	0.05 U	0.05 U	0.05 UJ
Alpha Chlordane		0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
Dieldrin		0.012 J	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Endosulfan I		0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
Endosulfan II		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Endrin		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Endrin aldehyde		0.006 J	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Endrin ketone		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ
Gamma Chlordane		0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
Heptachlor		0.02 J	0.01 J	0.0058 J	0.05 U	0.05 U	0.05 U	0.05 UJ
Heptachlor epoxide		0.04 J	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ
Methoxychlor		0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
Toxaphene		5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	5 UJ
alpha-BHC		0.039 UJ	0.039 UJ	0.039 UJ	0.039 U	0.039 U	0.039 U	0.039 UJ
beta-BHC		0.014 UJ	0.014 UJ	0.014 UJ	0.014 U	0.014 U	0.014 U	0.014 UJ
delta-BHC		0.018 J	0.012 J	0.0044 J	0.012 U	0.012 U	0.012 U	0.012 UJ
gamma-BHC (Lindane)		0.012 J	0.0033 J	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 UJ
Total Pesticides		0.108	0.0253	0.0102	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
	Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
4,4'-DDE		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
4,4'-DDT		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Aldrin		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Alpha Chlordane		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Dieldrin		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endosulfan I		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Endosulfan II		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin aldehyde		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin ketone		0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Gamma Chlordane		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Heptachlor		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Heptachlor epoxide		0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Methoxychlor		0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Toxaphene		5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ
alpha-BHC		0.039 U	0.039 U	0.039 UJ	0.039 U	0.039 U	0.039 UJ	0.039 UJ
beta-BHC		0.014 U	0.014 U	0.014 UJ	0.014 U	0.014 U	0.014 UJ	0.014 UJ
delta-BHC		0.012 U	0.012 U	0.012 UJ	0.012 U	0.012 U	0.012 UJ	0.012 UJ
gamma-BHC (Lindane)		0.019 U	0.019 U	0.016 J	0.019 U	0.019 U	0.0026 J	0.0055 J
Total Pesticides		ND	ND	0.016	ND	ND	0.0026	0.0055

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
	Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 U	0.1 U	0.1 U	0.1 U	0.44	0.10 U	0.90 JD
4,4'-DDE		0.1 U	0.1 U	0.1 U	0.1 U	0.10 UJ	0.10 U	0.12 J
4,4'-DDT		0.1 U	0.1 U	0.1 U	0.1 U	1.2 JD	0.10 U	4.4 JD
Aldrin		0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.066 J
Alpha Chlordane		0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.030 J
Dieldrin		0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U
Endosulfan I		0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.017 J
Endosulfan II		0.1 U	0.1 U	0.1 U	0.1 U	0.10 UJ	0.10 U	0.10 U
Endosulfan sulfate		0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U
Endrin		0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.1 U	0.1 U	0.1 U	0.1 U	0.74 J	0.10 U	0.10 U
Endrin ketone		0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.14 J
Heptachlor		0.05 U	0.05 U	0.05 U	0.05 U	0.050 UJ	0.050 U	0.023 J
Heptachlor epoxide		0.05 U	0.05 U	0.05 U	0.05 U	0.050 U	0.050 U	0.090 J
Methoxychlor		0.5 U	0.5 U	0.5 U	0.5 U	1.2 JD	0.50 U	0.50 U
Toxaphene		5 U	5 U	5 U	5 U	5.0 U	5.0 U	5.0 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	0.039 UJ	0.039 U	0.010 J
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.014 UJ	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.0031 J	0.012 U	0.012 U	0.012 U	0.15 J
gamma-BHC (Lindane)		0.019 U	0.019 U	0.0024 J	0.019 U	0.019 U	0.019 U	0.038 J
Total Pesticides		ND	ND	0.0055	ND	3.58	ND	5.984

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
	Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.041 J	0.039 J	0.061 J	0.044 J	0.0095 J	0.090 J	0.0036 J
4,4'-DDE		0.030 J	0.10 UJ	0.021 J	0.022 J	0.10 U	0.16 J	0.1 U
4,4'-DDT		0.099 J	0.035 J	0.024 J	0.19 J	0.10 U	0.17 J	0.0022 J
Aldrin		0.050 U	0.050 UJ	0.026 J	0.050 UJ	0.050 U	0.053 J	0.0055 J
Alpha Chlordane		0.050 U	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U	0.019 J	0.05 U
Dieldrin		0.0050 J	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.0039 J
Endosulfan I		0.050 U	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U	0.035 J	0.05 U
Endosulfan II		0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.001 J
Endosulfan sulfate		0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.1 U
Endrin		0.013 J	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.0027 J
Endrin aldehyde		0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.1 U
Endrin ketone		0.10 U	0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.0044 J
Gamma Chlordane		0.012 J	0.050 UJ	0.0080 J	0.013 J	0.0024 J	0.050 UJ	0.05 U
Heptachlor		0.044 J	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.028 J
Heptachlor epoxide		0.0071 J	0.050 UJ	0.050 UJ	0.050 UJ	0.050 U	0.019 J	0.0077 J
Methoxychlor		0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ	0.5 U
Toxaphene		5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ	5 U
alpha-BHC		0.021 J	0.039 UJ	0.044 J	0.039 UJ	0.039 U	0.039 UJ	0.012 J
beta-BHC		0.014 U	0.14 UJD	0.14 UJD	0.70 UJD	0.014 U	2.8 UJD	0.091 J
delta-BHC		0.077 J	0.019 J	0.27 J	0.062 J	0.012 U	0.012 UJ	0.036
gamma-BHC (Lindane)		0.019 U	0.19 UJD	0.019 UJ	0.95 UJD	0.019 U	3.8 UJD	0.069 J
Total Pesticides		0.3491	0.093	0.454	0.331	0.0119	0.546	0.267

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
	Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 UJ	0.042 J	0.1 UJ	0.031 J	0.1 UJ	0.1 U	0.1 UJ
4,4'-DDE		0.1 UJ	0.0024 J	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 UJ
4,4'-DDT		0.1 UJ	0.025 J	0.11 J	0.06 J	0.1 UJ	0.1 U	0.1 UJ
Aldrin		0.0027 J	0.002 J	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 UJ
Alpha Chlordane		0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 UJ
Dieldrin		0.1 UJ	0.0077 J	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 UJ
Endosulfan I		0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 UJ
Endosulfan II		0.1 UJ	0.022 J	0.039 J	0.1 U	0.1 UJ	0.1 U	0.1 UJ
Endosulfan sulfate		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 UJ
Endrin		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 UJ
Endrin aldehyde		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 UJ
Endrin ketone		0.1 UJ	0.0037 J	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 UJ
Gamma Chlordane		0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 UJ
Heptachlor		0.024 J	0.016 J	0.096 J	0.011 J	0.026 J	0.05 U	0.05 UJ
Heptachlor epoxide		0.014 J	0.016 J	0.037 J	0.016 J	0.05 UJ	0.05 U	0.05 UJ
Methoxychlor		0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 UJ
Toxaphene		5 UJ	5 UJ	5 UJ	5 U	5 UJ	5 U	5 UJ
alpha-BHC		0.054 J	0.066 J	0.039 UJ	0.039 U	0.039 UJ	0.039 U	0.0061 J
beta-BHC		0.014 UJ	0.028 J	46 J	0.024 J	0.014 UJ	0.014 U	0.014 UJ
delta-BHC		0.1 J	0.079 J	0.012 UJ	0.012 U	0.0076 J	0.012 U	0.03 J
gamma-BHC (Lindane)		0.019 UJ	0.019 UJ	0.019 J	0.0019 J	0.012 J	0.019 U	0.0028 J
Total Pesticides		0.1947	0.3098	46.301	0.1439	0.0456	ND	0.0389

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
4,4'-DDE		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
4,4'-DDT		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Aldrin		0.5 U	0.5 U	0.5 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Alpha Chlordane		0.5 U	0.5 U	0.5 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Dieldrin		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endosulfan I		0.5 U	0.5 U	0.5 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Endosulfan II		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endosulfan sulfate		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin aldehyde		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin ketone		1 U	1 U	1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Gamma Chlordane		0.5 U	0.5 U	0.5 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Heptachlor		0.5 U	0.5 U	0.5 U	0.0083 J	0.0068 J	0.0091 J	0.0065 J
Heptachlor epoxide		0.5 U	0.5 U	0.5 U	0.05 U	0.05 U	0.003 J	0.0086 J
Methoxychlor		5 U	5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Toxaphene		50 U	50 U	50 U	5 U	5 U	5 UJ	5 UJ
alpha-BHC		65 D	70 D	72 D	0.039 U	0.0084 J	0.012 J	0.041 J
beta-BHC		13 D	14 D	4.4 D	0.014 U	0.014 U	0.049 J	0.071 J
delta-BHC		0.99 J	2	3.8	0.012 U	0.042 J	0.038 J	0.026 J
gamma-BHC (Lindane)		0.19 U	0.31 J	0.19 U	0.019 U	0.019 U	0.019 UJ	0.019 UJ
Total Pesticides		78.99	86.31	80.2	0.0083	0.0572	0.1111	0.1531

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Job Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.032 J	0.10 UJ	0.015 J	0.015 J	0.10 U	0.1 U	0.1 U
4,4'-DDE		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
4,4'-DDT		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Aldrin		0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Alpha Chlordane		0.050 UJ	0.050 UJ	0.050 U	0.0090 J	0.050 U	0.05 U	0.05 U
Dieldrin		0.0077 J	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Endosulfan I		0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Endosulfan II		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Endosulfan sulfate		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Endrin		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Endrin aldehyde		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Endrin ketone		0.10 UJ	0.10 UJ	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Gamma Chlordane		0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Heptachlor		0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Heptachlor epoxide		0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U
Methoxychlor		0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
Toxaphene		5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5 U	5 U
alpha-BHC		0.028 J	0.030 J	0.039 U	0.039 U	0.039 U	0.039 U	0.038 J
beta-BHC		0.014 UJ	0.014 UJ	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 UJ	0.012 UJ	0.0091 J	0.0061 J	0.012 U	0.034	0.032 J
gamma-BHC (Lindane)		0.019 UJ	0.019 UJ	0.013 J	0.019 U	0.019 U	0.019 U	0.019 U
Total Pesticides		0.0677	0.03	0.0371	0.0301	ND	0.034	0.07

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

Compound	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
4,4'-DDD		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
4,4'-DDE		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
4,4'-DDT		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Aldrin		0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Alpha Chlordane		0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Dieldrin		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endosulfan I		0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Endosulfan II		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endosulfan sulfate		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin aldehyde		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Endrin ketone		0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Gamma Chlordane		0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
Heptachlor		0.05 U	0.05 UJ	0.0092 J	0.05 U	0.05 U	0.05 UJ	0.0038 J
Heptachlor epoxide		0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ	0.0027 J
Methoxychlor		0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Toxaphene		5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ
alpha-BHC		0.039 U	0.039 UJ	0.039 U	0.039 U	0.039 U	0.039 UJ	0.039 UJ
beta-BHC		0.014 U	0.014 UJ	0.014 U	0.014 U	0.014 U	0.014 UJ	0.014 UJ
delta-BHC		0.011 J	0.012 UJ	0.012 U	0.0033 J	0.012 U	0.012 UJ	0.015 J
gamma-BHC (Lindane)		0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 UJ
Total Pesticides		0.011	ND	0.0092	0.0033	ND	ND	0.0215

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Aldrin		0.050 U	0.050 UJ	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Alpha Chlordane		0.050 U	0.050 UJ	0.050 U	0.050 UJ	0.011 J	0.050 U	0.050 U
Dieldrin		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Endosulfan I		0.050 U	0.050 UJ	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Endosulfan II		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Endrin ketone		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.0068 J	0.050 UJ	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Heptachlor		0.050 U	0.050 UJ	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Heptachlor epoxide		0.050 U	0.050 UJ	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Methoxychlor		0.50 U	0.50 UJ	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U
Toxaphene		5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
alpha-BHC		0.039 U	0.039 UJ	0.039 U	0.039 UJ	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 UJ	0.014 U	0.014 UJ	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 UJ	0.0031 J	0.012 UJ	0.012 U	0.012 U	0.012 U
gamma-BHC (Lindane)		0.019 U	0.019 UJ	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U
Total Pesticides		0.0068	ND	0.0031	ND	0.011	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Aldrin		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endosulfan I		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endrin		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endrin ketone		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Heptachlor		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
Toxaphene		5.0 U	5.0 U	5.0 U	0.50 U	5 U	5 U	5 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.012 U	0.012 U	0.0031 J	0.012 U	0.012 U
gamma-BHC (Lindane)		0.019 U	0.019 U	0.019 U	0.019 U	0.0034 J	0.019 U	0.019 U
Total Pesticides		ND	ND	ND	ND	0.0065	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
4,4'-DDE		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Aldrin		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Alpha Chlordane		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Dieldrin		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Endosulfan I		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Endosulfan II		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Endrin		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Endrin aldehyde		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Endrin ketone		0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U	0.1 U
Gamma Chlordane		0.05 U	0.00075 J	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Heptachlor		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Heptachlor epoxide		0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U
Methoxychlor		0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Toxaphene		5 U	5 U	5 U	5 UJ	5 U	5 U	5 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 UJ	0.039 U	0.039 U	0.0048 J
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 UJ	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.012 U	0.012 UJ	0.012 U	0.012 U	0.012 U
gamma-BHC (Lindane)		0.019 U	0.019 U	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U
Total Pesticides		ND	0.00075	ND	ND	ND	ND	0.0048

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin		0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Alpha Chlordane		0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I		0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor		0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.0025 J	0.0053 J
Heptachlor epoxide		0.05 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene		5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.0039 J	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.0071 J	0.012 U	0.012 U	0.012 U	0.012 U	0.008 J	0.0023 J
gamma-BHC (Lindane)		0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Total Pesticides		0.0071	ND	ND	ND	ND	0.0144	0.0076

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor		0.0051 J	0.0041 J	0.0011 J	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.0027 J	0.0023 J	0.012 U	0.0084 J	0.012 U	0.0039 J	0.012 U
gamma-BHC (Lindane)		0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Total Pesticides		0.0078	0.0064	0.0011	0.0084	ND	0.0039	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.0043 J	0.0028 J	0.0033 J	0.0052 J	0.012 U
gamma-BHC (Lindane)		0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Total Pesticides		ND	ND	0.0043	0.0028	0.0033	0.0052	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.10 U	18 J	0.10 U	20 U
Aldrin		0.050 U	0.050 U	0.050 U	0.050 U	10 U	0.050 U	10 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	10 U	0.050 U	10 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	6.0 J
Endosulfan I		0.050 U	0.050 U	0.050 U	0.050 U	10 U	0.050 U	10 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
Endosulfan sulfate		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
Endrin		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
Endrin aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
Endrin ketone		0.10 U	0.10 U	0.10 U	0.10 U	20 U	0.10 U	20 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	10 U	0.050 U	10 U
Heptachlor		0.050 U	0.050 U	0.050 U	0.050 U	10 U	0.050 U	10 U
Heptachlor epoxide		0.050 U	0.050 U	0.050 U	0.050 U	10 U	0.050 U	10 U
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	100 U	0.50 U	100 U
Toxaphene		5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U	1000 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	390 D	0.039 U	2200 D
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	2.8 U	0.014 U	170 JD
delta-BHC		0.012 U	0.0019 J	0.012 U	0.012 U	2.4 U	0.012 U	2.4 U
gamma-BHC (Lindane)		0.019 U	0.019 U	0.019 U	0.019 U	3.8 U	0.019 U	3.8 U
Total Pesticides		ND	0.0019	ND	ND	408	ND	2376

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

Compound	Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
	Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
4,4'-DDD		0.10 U	180	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE		0.10 U	50 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.10 U	50 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Aldrin		0.050 U	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Alpha Chlordane		0.050 U	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin		0.10 U	50 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan I		0.050 U	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan II		0.10 U	50 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.10 U	50 U	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U
Endrin		0.10 U	50 U	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 UJ
Endrin aldehyde		0.10 U	50 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin ketone		0.10 U	50 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Gamma Chlordane		0.050 U	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor		0.050 U	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide		0.050 U	25 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor		0.50 U	250 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene		5.0 U	2500 U	5 U	5 U	5 U	5 U	5 U
alpha-BHC		0.039 U	3300 D	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U
beta-BHC		0.14 J	7.0 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	41	0.0028 J	0.0029 J	0.012 U	0.012 U	0.004 J
gamma-BHC (Lindane)		0.019 U	9.5 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Total Pesticides		0.14	3521	0.0028	0.0029	ND	ND	0.004

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
	Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		10 U	5 U	5 U	0.1 U	0.024 J	0.1 U	2 U
4,4'-DDE		10 U	5 U	5 U	0.1 U	0.0014 J	0.1 U	2.2
4,4'-DDT		10 U	5 U	5 U	0.1 U	0.1 UJ	0.1 U	2 U
Aldrin		5 U	2.5 U	2.5 U	0.05 U	0.05 UJ	0.05 U	1 U
Alpha Chlordane		5 U	1.6 J	3.2 J	0.05 U	0.05 UJ	0.05 U	1 U
Dieldrin		10 U	5 U	5 U	0.1 U	0.02 J	0.1 U	2 U
Endosulfan I		5 U	2.5 U	2.5 U	0.05 U	0.05 UJ	0.05 U	1 U
Endosulfan II		10 U	5 U	5 U	0.1 U	0.1 UJ	0.1 U	2 J
Endosulfan sulfate		10 U	5 U	5 U	0.1 U	0.1 UJ	0.1 U	2 U
Endrin		10 U	0.49 J	0.23 J	0.1 U	0.024 J	0.1 U	2 U
Endrin aldehyde		10 U	5 U	5 U	0.1 U	0.092 J	0.1 U	2 U
Endrin ketone		10 U	5 U	5 U	0.1 U	0.1 UJ	0.1 U	1.8 J
Gamma Chlordane		5 U	2.5 U	2.5 U	0.05 U	0.008 J	0.05 U	3.5
Heptachlor		5 U	12 UD	12 UD	0.05 U	0.026 J	0.05 U	2.5 J
Heptachlor epoxide		5 U	4.2 J	4.6 J	0.05 U	0.024 J	0.05 U	5.6 J
Methoxychlor		50 U	25 U	0.36 J	0.5 U	0.069 J	0.5 U	2.8 J
Toxaphene		500 U	250 U	250 U	5 U	5 UJ	5 U	100 U
alpha-BHC		3.9 U	0.54 JD	0.45 JD	0.039 U	0.024 J	0.039 U	2.4
beta-BHC		1.4 U	3.5 UD	3.5 UD	0.014 U	0.014 UJ	0.014 U	0.28 U
delta-BHC		1.2 U	3 UD	3 UD	0.012 U	0.36 J	0.01 J	0.24 U
gamma-BHC (Lindane)		1.9 U	4.8 UD	4.8 UD	0.019 U	0.019 UJ	0.0013 J	0.38 U
Total Pesticides		ND	6.83	8.84	ND	0.6724	0.0113	22.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
4,4'-DDD	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	0.1 U	0.18 J	0.1 U	0.1 U	0.004 J	0.1 U	0.1 U
4,4'-DDT	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Aldrin	0.05 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Alpha Chlordane	0.05 U	0.5 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan I	0.05 U	0.5 U	0.05 U	0.05 U	0.0016 J	0.05 U	0.05 U
Endosulfan II	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	0.1 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	0.1 U	1 U	0.1 U	0.1 U	0.0038 J	0.1 U	0.1 U
Endrin ketone	0.1 U	0.11 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Gamma Chlordane	0.05 U	0.25 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	0.05 U	0.5 U	0.05 U	0.05 U	0.0012 J	0.05 U	0.05 U
Heptachlor epoxide	0.05 U	0.68 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methoxychlor	0.5 U	0.22 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene	5 U	50 U	5 U	5 U	5 U	5 U	5 U
alpha-BHC	0.039 U	1.1	0.039 U	0.039 U	0.039 U	0.22	0.039 U
beta-BHC	0.014 U	1 J	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC	0.021	0.12 U	0.012 U	0.012 U	0.0082 J	0.012 U	0.012 U
gamma-BHC (Lindane)	0.019 U	0.4	0.0057 J	0.0049 J	0.019 U	0.019 U	0.019 U
Total Pesticides	0.021	3.94	0.0057	0.0049	0.0188	0.22	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
	Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 U	0.1 U	0.1 UJ	5 U	0.044 J	0.1 U	0.1 U
4,4'-DDE		0.0039 J	0.1 U	0.1 UJ	5 U	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.1 U	0.1 U	0.1 UJ	5 U	0.1 U	0.1 U	0.1 U
Aldrin		0.05 U	0.05 U	0.05 UJ	2.5 U	0.05 U	0.05 U	0.05 U
Alpha Chlordane		0.05 U	0.05 U	0.05 UJ	2.5 U	0.038 J	0.05 U	0.05 U
Dieldrin		0.0026 J	0.1 U	0.1 UJ	5 U	0.0029 J	0.1 U	0.1 U
Endosulfan I		0.05 U	0.05 U	0.05 UJ	2.5 U	0.05 U	0.05 UJ	0.05 U
Endosulfan II		0.0069 J	0.1 U	0.1 UJ	5 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.1 U	0.1 U	0.1 UJ	5 U	0.1 U	0.1 U	0.1 U
Endrin		0.1 U	0.1 U	0.1 UJ	5 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde		0.011 J	0.1 U	0.1 UJ	5 U	0.1 U	0.1 U	0.1 U
Endrin ketone		0.0093 J	0.1 U	0.1 UJ	5 U	0.0094 J	0.1 U	0.1 U
Gamma Chlordane		0.05 U	0.05 U	0.05 UJ	2.5 U	0.01 J	0.05 U	0.05 U
Heptachlor		0.05 U	0.05 U	0.05 UJ	2.5 U	0.05 U	0.0099 J	0.05 U
Heptachlor epoxide		0.05 U	0.05 U	0.05 UJ	2.5 U	0.05 U	0.05 U	0.05 U
Methoxychlor		0.5 U	0.5 U	0.5 UJ	25 U	0.5 U	0.5 U	0.5 U
Toxaphene		5 U	5 U	5 UJ	250 U	5 U	5 U	5 U
alpha-BHC		0.0008 J	0.0031 J	8.3 JD	6 J	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.36 J	0.7 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 J	0.13 J	17	0.012 U	0.0016 J	0.0098 J
gamma-BHC (Lindane)		0.00085 J	0.0074 J	0.068 J	2.5 U	0.011 J	0.019 UJ	0.019 U
Total Pesticides		0.03535	0.0225	8.858	23	0.1153	0.0115	0.0098

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
	Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 U	0.10 U	0.0040 J	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.0020 J	0.10 U
4,4'-DDT		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin		0.05 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Alpha Chlordane		0.05 U	0.050 U	0.050 U	0.050 U	0.0014 J	0.050 U	0.050 U
Dieldrin		0.1 U	0.10 U	0.0032 J	0.0013 J	0.10 U	0.10 U	0.10 U
Endosulfan I		0.05 U	0.050 U	0.050 U	0.050 U	0.0011 J	0.050 U	0.050 U
Endosulfan II		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.1 U	0.10 U	0.10 U	0.0032 J	0.10 U	0.10 U	0.10 U
Endrin ketone		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.05 U	0.050 U	0.050 U	0.0022 J	0.050 U	0.0012 J	0.050 U
Heptachlor		0.05 U	0.050 U	0.050 U	0.0019 J	0.050 U	0.050 U	0.050 U
Heptachlor epoxide		0.05 U	0.050 U	0.0014 J	0.0010 J	0.050 U	0.050 U	0.050 U
Methoxychlor		0.5 U	0.50 U	0.0054 J	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene		5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
alpha-BHC		0.039 U	0.039 U	0.0021 J	0.0027 J	0.0037 J	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.0064 JN	0.0020 J	0.014 U
delta-BHC		0.012 U	0.0012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
gamma-BHC (Lindane)		0.019 U	0.0041 JN	0.0034 JN	0.032	0.0095 J	0.0017 J	0.019 U
Total Pesticides		ND	0.0041	0.0195	0.0443	0.0221	0.0069	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
	Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Aldrin		0.50 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan I		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endosulfan sulfate		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Endrin ketone		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toxaphene		0.50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
alpha-BHC		0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
gamma-BHC (Lindane)		0.0059 J	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U	0.019 U
Total Pesticides		0.0059	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	TS-S2-24HR	UGGW-EE-04	UGGW-EE-04-100FT	UGGW-EE-04-100FTFD	UGGW-EE-04-60FT	UGGW-EE-04FD	UGGW-EE-20
	Sample Date	03/30/00	10/13/99	01/27/00	01/27/00	10/13/99	10/13/99	10/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
4,4'-DDE		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
Aldrin		0.050 U	0.05 U	0.050 UJ	0.050 UJ	0.05 U	0.05 U	0.05 U
Alpha Chlordane		0.050 U	0.05 U	0.050 UJ	0.050 UJ	0.05 U	0.05 U	0.05 U
Dieldrin		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
Endosulfan I		0.050 U	0.05 U	0.050 UJ	0.050 UJ	0.05 U	0.05 U	0.05 U
Endosulfan II		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
Endrin		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 UJ
Endrin aldehyde		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
Endrin ketone		0.10 U	0.1 U	0.10 UJ	0.10 UJ	0.1 U	0.1 U	0.1 U
Gamma Chlordane		0.050 U	0.05 U	0.050 UJ	0.050 UJ	0.05 U	0.05 U	0.05 U
Heptachlor		0.050 U	0.05 U	0.050 UJ	0.050 UJ	0.05 U	0.00099 J	0.05 U
Heptachlor epoxide		0.050 U	0.05 U	0.050 UJ	0.050 UJ	0.05 U	0.05 U	0.05 U
Methoxychlor		0.50 U	0.5 U	0.50 UJ	0.50 UJ	0.5 U	0.5 U	0.5 U
Toxaphene		5.0 U	5 U	5.0 UJ	5.0 UJ	5 U	5 U	5 U
alpha-BHC		0.039 U	0.039 U	0.039 UJ	0.039 UJ	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 UJ	0.014 UJ	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.012 UJ	0.012 UJ	0.0015 J	0.012 U	0.012 U
gamma-BHC (Lindane)		0.019 U	0.00062 J	0.019 UJ	0.019 UJ	0.019 U	0.019 U	0.019 U
Total Pesticides		ND	0.00062	ND	ND	0.0015	0.00099	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2c
Solutia
Sauget Area 1
Ground Water
Method 8081A Pesticide Data

	Sample ID	UGGW-EE-20-100FT	UGGW-EE-20-60FT	UGGW-EEG-108	UGGW-EEG-108-100FT	UGGW-EEG-108-60FT	UGGW-EEG-108-60FTEB	UGGW-EEG-108FD
	Sample Date	01/25/00	01/24/00	10/11/99	01/31/00	01/28/00	01/28/00	10/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
4,4'-DDE		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
4,4'-DDT		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
Aldrin		0.050 U	0.050 UJ	0.05 U	0.05 UJ	0.050 U	0.050 U	0.05 U
Alpha Chlordane		0.050 U	0.050 UJ	0.05 U	0.05 UJ	0.050 U	0.050 U	0.05 U
Dieldrin		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
Endosulfan I		0.050 U	0.050 U	0.05 U	0.05 UJ	0.050 U	0.050 U	0.05 U
Endosulfan II		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
Endosulfan sulfate		0.10 U	0.10 U	0.001 J	0.1 UJ	0.10 U	0.10 U	0.1 U
Endrin		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
Endrin aldehyde		0.10 U	0.10 U	0.1 U	0.1 UJ	0.10 U	0.10 U	0.1 U
Endrin ketone		0.10 U	0.10 U	0.0021 J	0.1 UJ	0.10 U	0.10 U	0.1 U
Gamma Chlordane		0.050 U	0.050 UJ	0.05 U	0.05 UJ	0.050 U	0.050 U	0.05 U
Heptachlor		0.050 U	0.050 UJ	0.001 J	0.05 UJ	0.050 U	0.050 U	0.05 U
Heptachlor epoxide		0.050 U	0.050 U	0.0016 J	0.05 UJ	0.050 U	0.050 U	0.05 U
Methoxychlor		0.50 U	0.50 U	0.5 U	0.5 UJ	0.50 U	0.50 U	0.5 U
Toxaphene		5.0 U	5.0 U	5 U	5 UJ	5.0 U	5.0 U	5 U
alpha-BHC		0.039 U	0.039 UJ	0.039 U	0.039 UJ	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.014 U	0.014 U	0.014 UJ	0.014 U	0.014 U	0.014 U
delta-BHC		0.012 U	0.012 U	0.0025 J	0.012 UJ	0.012 UJ	0.012 UJ	0.011 J
gamma-BHC (Lindane)		0.019 U	0.019 UJ	0.019 U	0.019 UJ	0.019 U	0.019 U	0.019 U
Total Pesticides		ND	ND	0.0082	ND	ND	ND	0.011

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

APPENDIX C-2d

Ground Water Herbicide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-D		0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6 U	6 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 U	120 U	120 U	120 UJ	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1 U	1 U	1.0 U	0.48 J	1.0 U	0.11 J	0.13 J
Total Herbicides		ND	ND	ND	0.48	ND	0.11	0.13

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
	Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.048 J	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.50 U	0.50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		6.0 U	6.0 U	6 U	6 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		0.081 J	1.0 U	1 U	1 U	0.066 J	1 U	1 U
Total Herbicides		0.129	ND	ND	ND	0.066	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
	Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.64
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	0.043 J
Total Herbicides		ND	ND	ND	ND	ND	ND	0.683

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
	Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		6 U	6 U	6 U	6 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		0.037 J	1 U	1 U	1 U	1 U	1 U	1 U
Total Herbicides		0.837	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
	Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 UJ	6 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		6 U	6 U	6 U	6 U	6 U	6 U	6 U
MCPA		120 UJ	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1 U	1 U	1 U	0.065 J	1 U	1 U	1 U
Total Herbicides		ND	ND	ND	0.065	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
	Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	2.5 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	2.5 U
2,4-D		0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	2.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	2.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	600 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	6.0 U
Dichloroprop		6 U	6 U	6 U	6 U	6.0 U	6.0 U	30 U
Dinoseb		6 U	6 U	6 U	6 U	6.0 U	6.0 U	30 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	600 U
MCPP		120 U	120 U	120 U	120 U	150 J	120 U	3600 J
Pentachlorophenol		1 U	1 U	1 U	1 U	1.4	1.0 U	4.2 J
Total Herbicides		ND	ND	ND	ND	151.4	ND	3604.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
	Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		1.0 U	2.5 U	2.5 U	25 U	0.50 U	2.5 U	0.5 U
2,4,5-TP (Silvex)		1.0 U	2.5 U	2.5 U	25 U	0.50 U	2.5 U	1.1
2,4-D		1.0 U	2.5 U	1.8 J	25 U	0.50 U	11	0.5 U
2,4-DB		1.0 U	2.5 U	2.5 U	25 U	0.50 U	2.5 U	0.5 U
Dalapon		240 U	600 U	600 U	6000 U	120 U	600 U	120 U
Dicamba		2.4 U	6.0 U	6.0 U	60 U	1.2 U	6.0 U	0.14 J
Dichloroprop		12 U	30 U	30 U	300 U	6.0 U	30 U	6 U
Dinoseb		12 U	30 U	30 U	300 U	6.0 U	30 U	0.27 J
MCPA		240 U	600 U	600 U	6000 U	120 U	600 U	120 U
MCPP		650 J	4100 JD	4400 JD	6000 U	120 U	1200 J	120 U
Pentachlorophenol		1.2 J	23	28	89	1.0 U	320 D	0.13 J
Total Herbicides		651.2	4123	4429.8	89	ND	1531	1.64

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
	Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.35 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		R	6 U	6 U	6 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Herbicides		0.35	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		3.9 J	3.5 J	5.8 J	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.5 U	0.5 U	0.18 J	0.084 J	0.5 U
2,4-D		10 D	11 D	4	0.5 U	0.27 J	0.14 J	0.34 J
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		6 U	6 U	6 U	6 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		640 J	350 J	290 JD	120 U	120 U	120 U	120 U
Pentachlorophenol		0.34 J	0.37 J	0.24 J	1 U	1 U	1 U	1 U
Total Herbicides		654.24	364.87	300.04	ND	0.45	0.224	0.34

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
2,4-D		0.50 U	2.3 J	0.50 U	0.50 U	0.49 J	0.5 U	0.5 U
2,4-DB		0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	260 J	120 U	120 U	120 U	120 U	62 J
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
Total Herbicides		ND	262.3	ND	ND	0.49	ND	62

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		6 U	6 U	6 U	6 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Herbicides		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.50 UJ	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.19 J	0.5 U	0.5 U	0.5 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.5 UJ	0.5 UJ	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U	6 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U	1 UJ	1 U	1 U
Total Herbicides		ND	ND	ND	0.19	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	6 U	6 U	6 U	6 U
Dinoseb		6 U	6 U	6 U	6 U	6 UJ	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Herbicides		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.21 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-D		0.18 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.41 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	0.12 J	1.2 U	1.2 U
Dichloroprop		6 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Herbicides		2.2	ND	ND	ND	0.12	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U	0.77 J	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	ND	0.77	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.051 J	0.50 U	0.50 U	0.50 U
2,4-D		0.50 U	0.50 U	0.50 U	0.30 J	0.50 U	0.50 U	0.50 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	0.064 J	1.0 U	1.0 U	0.044 J	1.0 U
Total Herbicides		ND	ND	0.064	0.351	ND	0.044	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	18 J	0.50 U	17 J
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U	5.0 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	440 D	0.50 U	320 D
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U	5.0 U
Dalapon		120 U	120 U	120 U	120 U	1200 U	120 U	1200 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	12 U	1.2 U	12 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	11 J	6.0 U	11 J
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	60 U	6.0 U	60 U
MCPA		120 U	120 U	120 U	120 U	1200 U	120 U	840 J
MCPP		120 U	120 U	120 U	120 U	1200 U	120 U	2500 J
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U	6.6 J	1.0 U	7.6 J
Total Herbicides		ND	ND	ND	ND	475.6	ND	3695.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
	Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	16	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
2,4,5-TP (Silvex)		0.50 U	2.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
2,4-D		0.74 J	18	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
2,4-DB		0.50 U	2.5 U	0.5 UJ	0.5 UJ	R	0.5 UJ	0.5 UJ
Dalapon		120 U	600 U	120 U	120 U	120 U	120 UJ	120 U
Dicamba		1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U
Dichloroprop		6.0 U	30 U	6 UJ	6 UJ	6 UJ	6 UJ	6 UJ
Dinoseb		6.0 U	30 U	6 U	6 U	6 U	6 UJ	6 U
MCPA		120 U	600 U	120 UJ	120 UJ	120 U	120 UJ	120 UJ
MCPP		120 U	18000 JD	120 U	120 U	120 U	120 UJ	120 U
Pentachlorophenol		0.12 J	900 D	1 U	1 U	1 U	1 UJ	1 U
Total Herbicides		0.86	18934	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
	Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		250 U	36 J	34 J	0.5 U	50 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		250 U	120 U	120 U	0.5 U	390	0.5 U	0.45 J
2,4-D		250 U	190	170	0.5 U	50 U	0.5 U	0.5 U
2,4-DB		250 U	120 UJ	120 UJ	0.5 U	50 U	0.5 U	0.5 UJ
Dalapon		60000 U	30000 U	30000 U	120 U	12000 U	120 U	120 U
Dicamba		600 U	300 U	300 U	1.2 U	120 U	1.2 U	1.2 U
Dichloroprop		3000 U	1500 U	1500 U	6 U	600 U	6 U	6 U
Dinoseb		3000 U	1500 U	1500 U	6 U	600 U	6 U	6 U
MCPA		60000 U	30000 U	30000 U	120 U	12000 U	120 U	120 U
MCPP		60000 U	30000 U	30000 U	120 U	12000 U	120 U	120 U
Pentachlorophenol		2400	500	450	1 U	100 U	1 U	0.067 J
Total Herbicides		2400	726	654	ND	390	ND	0.517

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE
ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
	Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	25 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	25 U	0.5 U	0.5 UJ	0.14 J	0.5 U	0.5 U
2,4-D		0.5 U	25 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 UJ	25 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Dalapon		120 U	6000 U	120 U	120 UJ	120 U	120 U	120 U
Dicamba		1.2 U	60 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	300 U	6 U	6 UJ	6 U	6 U	6 U
Dinoseb		6 U	300 U	6 U	6 UJ	6 U	6 U	6 U
MCPA		120 U	6000 U	120 U	120 UJ	120 U	120 U	120 U
MCPP		120 U	6000 U	120 U	120 UJ	120 U	120 U	120 U
Pentachlorophenol		0.066 J	160	1 U	1 UJ	1.0 U	1.0 U	1 U
Total Herbicides		0.066	160	ND	ND	0.14	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
	Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.5 U	0.5 U	24 J	3.2	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 U	0.5 U	0.5 U	120	6.1	0.5 U	0.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	6000 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	60 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	47 J	6 U	6 U	6 U
Dinoseb		6 U	6 U	0.32 J	300 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	6000 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	6000 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	0.097 J	0.067 J	19 J	0.37 J	1 U	0.13 J
Total Herbicides		ND	0.097	0.387	210	9.67	ND	0.13

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
	Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.5 U	0.50 U	0.50 U	0.11 J	0.062 J	0.50 U	0.50 U
2,4-D		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.66 J	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6 U	6.0 UJ	6.0 UJ	6.0 UJ	6.0 UJ	6.0 UJ	6.0 UJ
MCPA		120 U	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Total Herbicides		ND	ND	ND	0.11	0.062	0.66	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

	Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
	Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.098 J	0.50 U	0.50 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6.0 UJ	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 UJ	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 UJ	1.0 U	1.0 U	1.0 U	0.077 J	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	ND	0.175	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

Compound	Sample ID	TS-S2-24HR	UGGW-EE-04	UGGW-EE-04-100FT	UGGW-EE-04-100FTFD	UGGW-EE-04-60FT	UGGW-EE-04FD	UGGW-EE-20
	Sample Date	03/30/00	10/13/99	01/27/00	01/27/00	10/13/99	10/13/99	10/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
2,4,5-T		0.50 U	0.5 U	0.50 UJ	0.50 UJ	0.5 U	0.5 U	0.21 J
2,4,5-TP (Silvex)		0.50 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U	0.16 J
2,4-D		0.50 U	0.5 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.50 U	0.5 U	0.50 UJ	0.50 UJ	0.5 U	0.5 U	0.5 UJ
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6 U	6.0 U	6.0 U	6 U	6 U	6 UJ
Dinoseb		6.0 U	6 U	6.0 UJ	6.0 UJ	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 UJ
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1 U	1.0 U	1.0 U	1 U	1 U	1 U
Total Herbicides		ND	ND	ND	ND	ND	ND	0.37

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2d
Solutia
Sauget Area 1
Ground Water
Method 8151A Herbicide Data

Sample ID	UGGW-EE-20-100FT	UGGW-EE-20-60FT	UGGW-EEG-108	UGGW-EEG-108-100FT	UGGW-EEG-108-60FT	UGGW-EEG-108-60FTEB	UGGW-EEG-108FD
Sample Date	01/25/00	01/24/00	10/11/99	01/31/00	01/28/00	01/28/00	10/11/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
2,4,5-T	0.50 U	0.50 U	0.5 U	0.5 U	0.50 UJ	0.50 U	0.5 U
2,4,5-TP (Silvex)	0.50 U	0.50 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
2,4-D	0.50 U	0.50 U	0.5 U	0.5 U	0.50 U	0.50 U	0.5 U
2,4-DB	0.50 U	0.50 U	0.5 U	0.5 U	0.50 UJ	0.50 U	0.5 U
Dalapon	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop	6.0 U	6.0 U	6 U	6 U	6.0 U	6.0 U	6 U
Dinoseb	6.0 U	6.0 U	6 U	6 U	6.0 UJ	6.0 U	6 U
MCPA	120 U	120 U	120 U	120 UJ	120 UJ	120 U	120 U
MCPP	120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol	1.0 U	1.0 U	1 U	1 U	1.0 U	1.0 U	1 U
Total Herbicides	ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-2e

Ground Water Polychlorinated Biphenyl Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Monochlorobiphenyl		0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nonachlorobiphenyl		0.5 U	0.5 U	0.50 U	0.18 J	0.50 U	0.50 U	0.50 U
Octachlorobiphenyl		0.3 U	0.3 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorobiphenyl		0.1 U	0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PCBs		ND	ND	ND	0.18	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
	Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
Dichlorobiphenyl		0.10 U	0.10 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Heptachlorobiphenyl		0.30 U	0.30 UJ	0.3 U	0.3 U	0.3 UJ	0.3 UJ	0.3 U
Hexachlorobiphenyl		0.20 U	0.20 UJ	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Monochlorobiphenyl		0.10 U	0.10 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Nonachlorobiphenyl		0.50 U	0.50 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.14 J
Octachlorobiphenyl		0.30 U	0.30 UJ	0.3 U	0.3 U	0.3 UJ	0.3 UJ	0.3 U
Pentachlorobiphenyl		0.20 U	0.20 UJ	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Tetrachlorobiphenyl		0.20 U	0.20 UJ	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Trichlorobiphenyl		0.10 U	0.10 UJ	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	0.14

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Decachlorobiphenyl	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.5 U	0.5 UJ
Dichlorobiphenyl	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 UJ
Heptachlorobiphenyl	0.30 U	0.30 U	0.30 UJ	0.30 U	0.30 U	0.3 U	0.3 UJ
Hexachlorobiphenyl	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.2 U	0.2 UJ
Monochlorobiphenyl	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 UJ
Nonachlorobiphenyl	0.50 U	0.50 U	0.26 J	0.50 U	0.50 U	0.16 J	0.5 UJ
Octachlorobiphenyl	0.30 U	0.30 U	0.30 UJ	0.30 U	0.30 U	0.3 U	0.3 UJ
Pentachlorobiphenyl	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.2 U	0.2 UJ
Tetrachlorobiphenyl	0.20 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.2 U	0.2 UJ
Trichlorobiphenyl	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 UJ
Total PCBs	ND	ND	0.26	ND	ND	0.16	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
	Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 UJ	0.3 UJ	0.3 UJ	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 UJ	0.2 UJ	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.3 UJ	0.3 UJ	0.3 UJ	0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.2 UJ	0.2 UJ	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.2 UJ	0.2 UJ	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
	Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 UJ	0.3 UJ
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Nonachlorobiphenyl		0.5 U	0.5 U	0.14 J	0.5 U	0.5 U	0.5 UJ	0.5 UJ
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 UJ	0.3 UJ
Pentachlorobiphenyl		0.2 U	0.08 J	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ
Total PCBs		ND	0.08	0.14	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
	Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.50	0.10 U	0.72 J
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	2.7	0.30 U	1.3 J
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	3.5	0.20 U	2.4 J
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.14	0.10 U	1.3 J
Nonachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.12 J	0.50 U	0.50 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.65	0.30 U	0.46 J
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	2.5	0.20 U	2.0 J
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	1.3	0.20 U	1.2 J
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.75	0.10 U	0.44 J
Total PCBs		ND	ND	ND	ND	12.16	ND	9.82

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
	Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U
Dichlorobiphenyl		0.23 J	0.07 J	0.11 J	0.04 J	0.10 U	0.10 U	0.1 U
Heptachlorobiphenyl		0.14 J	0.30 U	0.05 J	0.14 J	0.30 U	0.30	0.3 U
Hexachlorobiphenyl		0.20 J	0.20 U	0.12 J	0.31 J	0.20 U	0.38	0.2 U
Monochlorobiphenyl		1.0 J	0.72 J	1.1 J	0.10 U	0.10 U	0.10 U	0.1 U
Nonachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.10 J	0.3 U
Pentachlorobiphenyl		0.14 J	0.20 U	0.10 J	0.21 J	0.20 U	0.26	0.2 U
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U
Trichlorobiphenyl		0.22 J	0.10 U	0.09 J	0.10 U	0.10 U	0.05 J	0.1 U
Total PCBs		1.93	0.79	1.57	0.7	ND	1.09	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
	Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 UJ	0.3 UJ	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 U	0.07 J	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.13 J	0.5 U	0.5 UJ	0.5 UJ	0.19 J	0.5 U	0.5 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 UJ	0.3 UJ	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U	0.11 J	0.2 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.1 U
Total PCBs		0.13	0.07	ND	ND	0.19	0.11	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.5 U	0.26 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 J	0.2 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total PCBs		ND	0.26	ND	ND	ND	0.1	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.06 J	0.06 J
Nonachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.16 J	0.5 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.07 J	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U
Total PCBs		0.07	ND	ND	ND	ND	0.22	0.06

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.13 J	0.13 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.11 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total PCBs		0.24	0.13	ND	ND	ND	ND	0.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nonachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Pentachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE
ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 UJ	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 UJ	0.3 UJ	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Nonachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U	0.3 UJ	0.3 UJ	0.3 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE
ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlorobiphenyl		0.3 U	0.30 U	0.08 J	0.05 J	0.30 U	0.30 U	0.30 U
Hexachlorobiphenyl		0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Monochlorobiphenyl		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nonachlorobiphenyl		0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Octachlorobiphenyl		0.3 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Pentachlorobiphenyl		0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachlorobiphenyl		0.2 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorobiphenyl		0.1 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PCBs		ND	ND	0.08	0.05	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.07 J
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nonachlorobiphenyl		0.50 U	0.50 U	0.24 J	0.50 U	0.50 U	0.21 J	0.50 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Pentachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.11 J
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PCBs		ND	ND	0.24	ND	ND	0.21	0.18

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlorobiphenyl		0.06 J	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nonachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Pentachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PCBs		0.06	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	100 UJ	0.50 U	250 UJ
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	20 UJ	0.10 U	50 UJ
Heptachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	60 UJ	0.30 U	150 UJ
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	40 UJ	0.20 U	100 UJ
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	12 J	0.10 U	22 J
Nonachlorobiphenyl		0.50 U	0.26 J	0.50 U	0.50 U	100 UJ	0.50 U	250 UJ
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	60 UJ	0.30 U	150 UJ
Pentachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	13 J	0.20 U	33 J
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	40 UJ	0.20 U	100 UJ
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	11 J	0.10 U	18 J
Total PCBs		ND	0.26	ND	ND	36	ND	73

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
	Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 UJ	1000 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.10 UJ	170 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.30 UJ	1900 J	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.20 UJ	2800 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.11 J	200 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.50 UJ	250 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.30 UJ	730 J	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.20 UJ	4800 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.20 UJ	3900 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.10 UJ	1200 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total PCBs		0.11	15750	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
	Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		10 U	5 U	5 U	0.5 U	1 U	0.5 U	5 U
Dichlorobiphenyl		2 U	1 U	1 U	0.1 U	0.2 U	0.1 U	1 U
Heptachlorobiphenyl		6 U	3 U	3 U	0.3 U	0.6 U	0.3 U	3 U
Hexachlorobiphenyl		4 U	2 U	2 U	0.2 U	0.4 U	0.2 U	2 U
Monochlorobiphenyl		2 U	1 U	1 U	0.1 U	0.2 U	0.1 U	1 U
Nonachlorobiphenyl		10 U	5 U	5 U	0.5 U	1 U	0.5 U	5 U
Octachlorobiphenyl		6 U	3 U	3 U	0.3 U	0.6 U	0.3 U	3 U
Pentachlorobiphenyl		4 U	2 U	2 U	0.2 U	0.4 U	0.2 U	2 U
Tetrachlorobiphenyl		4 U	2 U	2 U	0.2 U	0.4 U	0.2 U	2 U
Trichlorobiphenyl		2 U	1 U	1 U	0.1 U	0.2 U	0.1 U	1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
	Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 U	1.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.3 U	1.5 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.2 U	0.49 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 U	0.19 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Total PCBs		ND	0.88	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
	Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	1 U	0.1 U	0.1 U	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
	Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.50 UJ	0.50 U	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ
Dichlorobiphenyl		0.1 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ
Heptachlorobiphenyl		0.3 U	0.30 UJ	0.30 U	0.30 UJ	0.30 U	0.30 UJ	0.30 UJ
Hexachlorobiphenyl		0.2 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 UJ
Monochlorobiphenyl		0.1 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ
Nonachlorobiphenyl		0.5 U	0.50 UJ	0.50 U	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ
Octachlorobiphenyl		0.3 U	0.30 UJ	0.30 U	0.30 UJ	0.30 U	0.30 UJ	0.30 UJ
Pentachlorobiphenyl		0.2 U	0.20 UJ	0.20 U	0.056 J	0.20 U	0.20 UJ	0.20 UJ
Tetrachlorobiphenyl		0.2 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 UJ
Trichlorobiphenyl		0.1 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 UJ
Total PCBs		ND	ND	ND	0.056	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2e
Solutia
Sauget Area 1
Ground Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
	Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorobiphenyl		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Heptachlorobiphenyl		0.30 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Hexachlorobiphenyl		0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Monochlorobiphenyl		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nonachlorobiphenyl		0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Octachlorobiphenyl		0.30 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Pentachlorobiphenyl		0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Tetrachlorobiphenyl		0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Trichlorobiphenyl		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-2f

Ground Water Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-107-111FT	AA-GHL-S1-12-16FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-32-36FT
	Sample Date	12/01/99	12/02/99	11/16/99	11/17/99	11/17/99	11/17/99	11/18/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		11 J	8.1 J	0.16 UJ	0.33 J	0.081 J	0.12 UJ	0.13 J
Antimony		0.02 U	0.0079 J	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.009 J	0.006 J	0.010 U	0.010 U	0.010 U	0.010 U	0.0037 J
Barium		0.64	0.62	0.10	0.14	0.015	0.13	0.13
Beryllium		0.0018 J	0.0015 UJ	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.00063 U
Cadmium		0.005 U	0.005 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		170 J	170 J	140 J	130 J	24	120 J	160 J
Chromium		0.11	0.09	0.0036 J	0.010 U	0.010 U	0.010 U	0.0019 UJ
Cobalt		0.014	0.0092 J	0.010 U	0.0038 J	0.010 U	0.0032 J	0.0075 J
Copper		0.023 U	0.019 UJ	0.0023 J	0.020 U	0.017 J	0.020 U	0.020 U
Cyanide, Total		0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		54 J	45 J	0.77 J	1.1 J	0.034 J	0.40 J	3.6 J
Lead		0.017	0.011	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Magnesium		51	50	30	25	7.8	25	36
Manganese		2.9 J	1.9 J	0.041	0.75	0.017	0.71	1.7
Mercury		0.0002 U	0.0002 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.018	0.012	0.016	0.010 U	0.010 U	0.010 U	0.0044 J
Nickel		0.048	0.038 J	0.0091 J	0.012 J	0.040 U	0.011 J	0.010 J
Potassium		10	9.2	3.2	6.4	2.5	6.1	7.7
Selenium		0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		30 J	33 J	11 J	16 J	13	15 J	23 J
Thallium		0.01 U	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium		0.029	0.022	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Zinc		0.13 U	0.12 U	0.020 U	0.020 U	0.029	0.020 U	0.020 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-GHL-S1-42-46FT	AA-GHL-S1-52-56FT	AA-GHL-S1-62-66FT	AA-GHL-S1-72-76FT	AA-GHL-S1-82-86FT	AA-GHL-S1-92-96FT	AA-GHL-S1-92-96FTFD
	Sample Date	11/18/99	11/19/99	11/29/99	11/30/99	11/30/99	12/01/99	12/01/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.066 J	0.28	0.43	0.2 U	15	2.2 J	1.7 J
Antimony		0.020 U	0.020 U	0.02 U	0.0053 J	0.02 U	0.02 U	0.02 U
Arsenic		0.0049 J	0.010 U	0.01 U	0.01 U	0.0091 J	0.01 U	0.01 U
Barium		0.12	0.24	0.25	0.15	0.65	0.35	0.33
Beryllium		0.00068 UJ	0.00066 UJ	0.0011 UJ	0.0011 UJ	0.0019 UJ	0.0013 UJ	0.0012 UJ
Cadmium		0.0050 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		170 J	190 J	200 J	150 J	210 J	150 J	150 J
Chromium		0.0028 UJ	0.0026 J	0.0042 J	0.01 U	0.16	0.031	0.023
Cobalt		0.0018 J	0.010 U	0.01 U	0.01 U	0.018	0.0019 J	0.01 U
Copper		0.0015 UJ	0.020 U	0.001 UJ	0.02 U	0.035 J	0.0045 UJ	0.0036 UJ
Cyanide, Total		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		11 J	27 J	23 J	14 J	67 J	21 J	19 J
Lead		0.0029 UJ	0.0050 U	0.005 U	0.005 U	0.022	0.005 U	0.0039 J
Magnesium		37	62	86	46	61	44	44
Manganese		2.0	1.9	1.4 J	0.76 J	2.2 J	0.68 J	0.6 J
Mercury		0.00020 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.0029 J	0.010 U	0.0035 J	0.0031 J	0.024	0.0066 J	0.0082 J
Nickel		0.0052 J	0.0052 J	0.04 U	0.04 U	0.072	0.01 J	0.0072 J
Potassium		8.3	13	13	7.7	14	7.6	7.3
Selenium		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		24 J	79 J	100 J	39 J	51 J	24 J	23 J
Thallium		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.010 U	0.010 U	0.01 U	0.01 U	0.039	0.0047 J	0.0031 J
Zinc		0.011 J	0.013 J	0.0078 UJ	0.02 U	0.22 J	0.051 U	0.038 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	AA-GHL-S2-12-16FT	AA-GHL-S2-22-26FT	AA-GHL-S2-32-36FT	AA-GHL-S2-32-36FTEB	AA-GHL-S2-42-46FT	AA-GHL-S2-52-56FT	AA-GHL-S2-62-66FT
	Sample Date	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/29/99	11/30/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		1.6	0.20 U	0.18 J	0.20 U	0.20 U	0.26	0.24
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.02 U	0.02 U
Arsenic		0.0038 J	0.010 U	0.010 U	0.010 U	0.0056 J	0.01 U	0.01 U
Barium		0.16	0.087	0.15	0.010 U	0.18	0.19	0.32
Beryllium		0.00075 UJ	0.00072 UJ	0.00056 UJ	0.0040 U	0.00068 UJ	0.0015 UJ	0.0011 UJ
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.005 U	0.005 U
Calcium		140 J	110 J	130 J	0.34 J	140 J	180 J	210 J
Chromium		0.0028 UJ	0.010 U	0.0012 J	0.010 U	0.010 U	0.0059 J	0.003 J
Cobalt		0.0030 J	0.0042 J	0.0048 J	0.010 U	0.010 U	0.01 U	0.01 U
Copper		0.0018 UJ	0.020 U	0.020 U	0.020 U	0.020 U	0.084 J	0.02 U
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Iron		2.7 J	0.28 J	1.4 J	0.050 U	11 J	21 J	32 J
Lead		0.0020 UJ	0.0017 UJ	0.0050 U	0.0050 U	0.0050 U	0.0025 J	0.005 U
Magnesium		32	22	26	0.50 U	28	38	60
Manganese		1.2	0.22	1.9	0.010 U	1.6	2.2 J	1.5 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U
Molybdenum		0.0045 J	0.0045 J	0.0037 J	0.010 U	0.010 U	0.01 U	0.01 U
Nickel		0.0098 J	0.0092 J	0.0093 J	0.040 U	0.040 U	0.04 U	0.04 U
Potassium		5.0	3.0	4.1	1.0 U	6.4	7.5	9.6
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Sodium		8.2 J	7.3 J	9.6 J	0.47 J	14 J	21 J	41 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Vanadium		0.0040 J	0.010 U	0.010 U	0.010 U	0.010 U	0.0038 J	0.01 U
Zinc		0.0091 J	0.020 U	0.020	0.020 U	0.0079 J	0.006 UJ	0.008 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-GHL-S2-62-66FTFD	AA-GHL-S2-72-76FT	AA-GHL-S2-82-86FT	AA-GHL-S2-92-96FT	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT
	Sample Date	11/30/99	11/30/99	12/01/99	12/02/99	12/02/99	12/02/99	12/20/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.038 J	8.7	0.2 UJ	0.2 UJ	0.2 U	4.2 J	23
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.01 U	0.007 J	0.01 U	0.01 U	0.01 U	0.01 U	0.02 J
Barium		0.31	0.32	0.25	0.64	0.01 U	0.79	0.98 J
Beryllium		0.0011 UJ	0.0015 UJ	0.0011 UJ	0.0011 UJ	0.0011 J	0.0012 UJ	0.0011 J
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		210 J	210 J	170 J	170 J	0.28 J	160 J	200 J
Chromium		0.01 U	0.11	0.002 J	0.01 U	0.01 U	0.036	0.28
Cobalt		0.01 U	0.014	0.01 U	0.01 U	0.01 U	0.0038 J	0.018
Copper		0.02 U	0.03 J	0.02 U	0.02 U	0.0048 J	0.0087 UJ	0.051 J
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		31 J	54 J	16 J	16 J	0.04 J	24 J	69 J
Lead		0.005 U	0.019	0.0018 J	0.005 U	0.005 U	0.0044 J	0.026
Magnesium		61	65	54	50	0.5 U	48	62
Manganese		1.5 J	1.6 J	0.53 J	0.34 J	0.0024 J	0.5 J	1.1 J
Mercury		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00017 UJ
Molybdenum		0.0027 J	0.019	0.01 U	0.01 U	0.01 U	0.0082 J	0.038
Nickel		0.04 U	0.052	0.04 U	0.04 U	0.04 U	0.017 J	0.082
Potassium		9.7	11	7.7	7.3	1 U	7.9	13
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		42 J	40 J	46 J	30 J	0.36 J	28 J	19 J
Thallium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.01 U	0.024	0.01 U	0.01 U	0.01 U	0.011	0.056
Zinc		0.02 U	0.21 J	0.0074 UJ	0.011 UJ	0.027	0.087 U	0.22 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	AA-GHL-S3-110-114FT	AA-GHL-S3-20-24FT	AA-GHL-S3-30-34FT	AA-GHL-S3-30-34FTFD	AA-GHL-S3-40-44FT	AA-GHL-S3-50-54FT	AA-GHL-S3-60-64FT
	Sample Date	12/21/99	12/14/99	12/15/99	12/15/99	12/15/99	12/16/99	12/16/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		0.9	0.2 U	0.2 U	0.22	0.028 J	0.15 J	0.2 U
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0042 UJ	0.0069 UJ
Barium		0.64 J	0.13	0.14	0.14	0.17	0.14 J	0.12 J
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		130 J	170 J	130 J	130 J	120 J	110 J	180 J
Chromium		0.011	0.01 U	0.01 U	0.01 U	0.01 U	0.0027 J	0.01 U
Cobalt		0.01 U	0.0058 J	0.007 J	0.0075 J	0.0068 J	0.01 U	0.01 U
Copper		0.0023 UJ	0.0024 UJ	0.002 UJ	0.002 UJ	0.002 UJ	0.0012 UJ	0.0011 UJ
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		14 J	0.2 J	1.8 J	1.6 J	1.2 J	5.2 J	26 J
Lead		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium		41	37	29	30	22	22	35
Manganese		0.34 J	1.5	0.7	0.7	1.9	1.8 J	1.9 J
Mercury		0.00016 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00013 UJ	0.00015 UJ
Molybdenum		0.0042 J	0.01 U	0.0085 J	0.0063 J	0.01 U	0.0073 J	0.01 U
Nickel		0.0056 J	0.012 J	0.018 J	0.015 J	0.011 J	0.012 J	0.04 U
Potassium		5.3	12 J	10 J	10 J	6.4 J	4.8	6.1
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		15 J	19 J	17 J	17 J	11 J	8.9 J	17 J
Thallium		0.01 U	0.01 U	0.0054 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Zinc		0.012 UJ	0.006 UJ	0.02 U	0.02 U	0.0097 UJ	0.0064 UJ	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-GHL-S3-60-64FTEB	AA-GHL-S3-70-74FT	AA-GHL-S3-80-84FT	AA-GHL-S3-90-94FT	AA-H-S1-101-105FT	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT
	Sample Date	12/16/99	12/17/99	12/17/99	12/20/99	03/16/00	03/17/00	03/10/00
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.2 U	0.2 U	1.4	33	1.1 J	0.20 U	2.1 J
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.020 U	0.020 U	0.0062 J
Arsenic		0.01 U	0.01 U	0.0038 UJ	0.034 J	0.59	0.010 U	0.33
Barium		0.01 U	0.21 J	0.46 J	0.96 J	0.17 J	0.010 U	0.17 J
Beryllium		0.004 U	0.004 U	0.004 U	0.0016 J	0.0040 U	0.0040 U	0.0040 U
Cadmium		0.005 U	0.005 U	0.005 U	0.0016 J	0.0050 U	0.0050 U	0.0050 U
Calcium		0.28 J	170 J	200 J	210 J	170 J	0.38 J	190 J
Chromium		0.01 U	0.01 U	0.0099 J	0.57	0.018 J	0.010 U	0.0042 UJ
Cobalt		0.01 U	0.01 U	0.0072 J	0.034	0.010 U	0.010 U	0.0027 J
Copper		0.00099 J	0.00093 UJ	0.0042 UJ	0.1 J	0.023 J	0.020 U	0.012 J
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U
Iron		0.031 J	23 J	28 J	110 J	6.4 J	0.026 J	18 J
Lead		0.005 U	0.005 U	0.004 J	0.045	0.0019 J	0.0050 U	0.0050 U
Magnesium		0.5 U	37	43	53	37	0.50 U	56
Manganese		0.01 U	1.2 J	1.5 J	2 J	0.45 J	0.010 U	0.72 J
Mercury		0.00012 J	0.00014 UJ	0.00018 UJ	0.00014 UJ	0.00020 J	0.00020 U	0.00020 U
Molybdenum		0.01 U	0.01 U	0.0026 J	0.071	0.0045 J	0.010 U	0.0051 J
Nickel		0.04 U	0.04 U	0.016 J	0.15	0.13 J	0.040 U	0.72 J
Potassium		1 U	6.1	6.4	14	5.5	1.0 U	7.8
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U
Sodium		0.45 J	15 J	14 J	16 J	22	0.48 J	29 J
Thallium		0.0064 J	0.01 U	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U
Vanadium		0.01 U	0.01 U	0.0051 J	0.091	0.0060 J	0.010 U	0.0068 J
Zinc		0.011 J	0.02 U	0.029 U	0.47 J	0.11 U	0.089	0.054 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB	AA-H-S1-93-97FT	AA-I-S1-17-21FT
	Sample Date	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00	03/15/00	12/14/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.20 U	0.20 U	0.20 U	0.041 J	0.20 U	1.0 J	1.4
Antimony		0.020 U	0.15	0.15	0.0059 J	0.020 U	0.0094 J	0.02 U
Arsenic		0.39	0.095	0.097	0.31	0.010 U	0.084	0.14
Barium		0.11 J	0.18 J	0.18 J	0.10 J	0.0037 J	0.73 J	0.31
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.004 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.005 U
Calcium		230 J	180 J	170 J	620 J	0.60	200 J	320 J
Chromium		0.010 U	0.010 U	0.010 U	0.0021 UJ	0.0027 J	0.11 J	0.0031 J
Cobalt		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0064 J	0.01
Copper		0.0036 UJ	0.0019 UJ	0.0015 UJ	0.0050 UJ	0.0018 J	0.042 J	0.0033 UJ
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U
Iron		9.8 J	19 J	19 J	22 J	0.15	89 J	33 J
Lead		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0082	0.0028 J
Magnesium		45	49	48	37	0.50 U	43	71
Manganese		0.44 J	0.47 J	0.46 J	0.50 J	0.0024 J	1.8 J	3.7
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0002 U
Molybdenum		0.0032 J	0.0067 J	0.0061 J	0.053	0.010 U	0.13	0.0078 J
Nickel		0.042 U	0.25 J	0.24 J	0.23 J	0.012 J	0.26 J	0.048
Potassium		5.9	7.3	7.1	7.9	1.0 U	13	13 J
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U
Sodium		13 J	17 J	17 J	28 J	0.81	76 J	130 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U
Vanadium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0066 J	0.0045 J
Zinc		0.035 U	0.042 U	0.043 U	0.21 U	0.031	1.0 J	0.021 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-I-S1-27-31FT	AA-I-S1-37-41FT	AA-I-S1-47-51FT	AA-I-S1-57-61FT	AA-I-S1-67-71FT	AA-I-S1-67-71FTEB	AA-I-S1-77-81FT
	Sample Date	12/15/99	12/15/99	12/16/99	12/16/99	12/17/99	12/17/99	12/20/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.13 J	0.092 J	0.58	3	0.61	0.2 U	10
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.068	0.0081 J	0.0046 UJ	0.0045 UJ	0.0047 UJ	0.01 U	0.013 U
Barium		0.76	0.7	0.58 J	0.4 J	0.41 J	0.0033 J	1 J
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0017 J
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00072 J
Calcium		190 J	200 J	230 J	170 J	170 J	0.41 J	190 J
Chromium		0.01 U	0.0017 J	0.0077 J	0.024	0.0054 J	0.01 U	0.16
Cobalt		0.01 U	0.01 U	0.01 U	0.0023 J	0.01 U	0.01 U	0.027
Copper		0.0033 UJ	0.0016 UJ	0.003 UJ	0.0089 UJ	0.0043 UJ	0.0053 J	0.047 J
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		65 J	59 J	34 J	30 J	26 J	0.073	190 J
Lead		0.005 U	0.005 U	0.005 U	0.0055 U	0.005 U	0.005 U	0.019
Magnesium		55	46	58	40	37	0.5 U	52
Manganese		1.4	2.1	3.4 J	3 J	2.5 J	0.0024 J	7.7 J
Mercury		0.0002 U	0.0002 U	0.00014 UJ	0.00016 UJ	0.000097 UJ	0.00015 J	0.00019 UJ
Molybdenum		0.01 U	0.01 U	0.0027 J	0.0058 J	0.0055 J	0.01 U	0.023
Nickel		0.04 U	0.04 U	0.0053 J	0.013 J	0.0082 J	0.04 U	0.09
Potassium		9.8 J	9.7 J	12	10	8.5	1 U	9.7
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		54 J	62 J	78 J	55 J	45 J	0.72	28 J
Thallium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.01 U	0.01 U	0.0028 J	0.0081 J	0.01 U	0.01 U	0.05
Zinc		0.0064 UJ	0.01 UJ	0.018 UJ	0.05 U	0.011 UJ	0.011 J	0.3 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-I-S1-87-91FT	AA-I-S1-87-91FTFD	AA-I-S1-97-101FT	AA-I-S2-16-20FT	AA-I-S2-26-30FT	AA-I-S2-36-40FT	AA-I-S2-46-50FT
	Sample Date	12/21/99	12/21/99	12/21/99	12/03/99	12/06/99	12/07/99	12/07/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.2 U	0.2 U	4.8	0.36 U	0.2 U	0.2 U	0.073 UJ
Antimony		0.02 U	0.02 U	0.02 U	0.2 U	0.02 U	0.02 U	0.02 U
Arsenic		0.01 U	0.0037 UJ	0.0047 UJ	0.01 U	0.041	0.029	0.005 J
Barium		1 J	1 J	1.1 J	0.047 J	0.079 J	0.16 J	0.23 J
Beryllium		0.004 U	0.004 U	0.004 U	0.0014 UJ	0.0014 UJ	0.0013 UJ	0.0013 UJ
Cadmium		0.005 U	0.005 U	0.005 U	0.07	0.005 U	0.005 U	0.005 U
Calcium		150 J	150 J	190 J	350 J	260 J	170 J	200 J
Chromium		0.01 U	0.01 U	0.089	0.01 U	0.01 U	0.01 U	0.0029 UJ
Cobalt		0.01 U	0.01 U	0.0057 J	0.047	0.04	0.0081 J	0.01 U
Copper		0.02 U	0.001 UJ	0.022 U	0.0042 UJ	0.02 U	0.00092 UJ	0.031 J
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.048
Iron		18 J	18 J	47 J	0.89 U	23 J	20 J	29
Lead		0.005 U	0.005 U	0.0065	0.0032 UJ	0.0021 UJ	0.005 U	0.0036 UJ
Magnesium		47	48	58	65	51	49	54
Manganese		0.4 J	0.4 J	0.98 J	7.4 J	2.3 J	1.2 J	1.7 J
Mercury		0.0002 U	0.00031 U	0.000086 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.004 J	0.0033 J	0.016	0.0029 J	0.0031 J	0.01 U	0.01 U
Nickel		0.04 U	0.04 U	0.045	7.8	1	0.63	0.45
Potassium		6.7	7	8.5	13	11	11	11
Selenium		0.01 U	0.01 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		21 J	21 J	24 J	120 J	60 J	43 J	45 J
Thallium		0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
Vanadium		0.01 U	0.01 U	0.012	0.0027 J	0.01 U	0.01 U	0.01 U
Zinc		0.01 UJ	0.0081 UJ	0.24 J	33 J	3.6 J	3.6 J	1 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	AA-I-S2-56-60FT	AA-I-S2-66-70FT	AA-I-S2-76-80FT	AA-I-S2-76-80FTEB	AA-I-S2-76-80FTFD	AA-I-S2-86-90FT	AA-I-S2-96-100FT
	Sample Date	12/08/99	12/08/99	12/10/99	12/10/99	12/10/99	12/13/99	12/13/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		0.066 UJ	2.7 J	7.4 J	0.20 U	8.2 J	5.6	4.3
Antimony		0.020 U	0.020 U	0.056	0.020 U	0.058	0.02 U	0.02 U
Arsenic		0.0046 J	0.0063 J	0.023	0.010 U	0.024	0.015	0.028
Barium		0.49 J	1.2 J	0.62 J	0.0025 J	0.63 J	0.59	0.54
Beryllium		0.00091 UJ	0.00087 UJ	0.00095 UJ	0.00066 J	0.00098 UJ	0.004 U	0.004 U
Cadmium		0.0050 U	0.0050 U	0.010	0.0050 U	0.012	0.00085 J	0.00093 J
Calcium		210 J	280 J	180 J	0.25 J	190 J	170 J	170 J
Chromium		0.010 U	0.022 J	0.041 J	0.0029 J	0.045 J	0.066	0.038
Cobalt		0.010 U	0.010	0.020	0.010 U	0.022	0.0078 J	0.0094 J
Copper		0.0014 UJ	0.018 J	3.0 J	0.0027 J	3.5 J	0.078 J	0.062 J
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Iron		30 J	34 J	47 J	0.033 J	50 J	33 J	22 J
Lead		0.0050 U	0.019 J	3.6 J	0.0050 U	4.1 J	0.073	0.06
Magnesium		58	78	52	0.50 U	53	51	48
Manganese		1.9 J	2.5 J	0.87 J	0.0036 J	0.91 J	1.1	0.89
Mercury		0.00020 U	0.00020 U	0.00052	0.00020 U	0.00054	0.0002 U	0.0002 U
Molybdenum		0.010 U	0.0048 J	0.011	0.010 U	0.013	0.011	0.007 J
Nickel		0.0061 J	0.038 J	0.22	0.040 U	0.24	0.15	2
Potassium		11	12	9.4	1.0 U	9.4	9.2 J	9.1 J
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Silver		0.010 U	0.010 U	0.019	0.010 U	0.020	0.01 U	0.01 U
Sodium		57 J	69 J	29 J	0.38 J	28 J	28 J	28 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U
Vanadium		0.010 U	0.011	0.021	0.010 U	0.023	0.016	0.012
Zinc		0.021 U	0.15 J	5.7 J	0.0071 J	6.3 J	0.35 J	0.32 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-I-S3-104-108FT	AA-I-S3-110-114FT	AA-I-S3-24-28FT	AA-I-S3-34-38FT	AA-I-S3-44-48FT	AA-I-S3-54-58FT	AA-I-S3-64-68FT
	Sample Date	12/13/99	12/14/99	12/03/99	12/06/99	12/06/99	12/07/99	12/07/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		13	3.6	0.084 UJ	7.5 J	0.064 UJ	0.032 UJ	0.42 J
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.03	0.0078 J	0.01 U	0.011	0.011	0.01 U	0.01 U
Barium		0.43	0.13	0.33 J	0.37 J	0.16 J	0.12 J	0.21 J
Beryllium		0.00057 J	0.004 U	0.0013 UJ	0.0018 UJ	0.0014 UJ	0.0013 UJ	0.0013 UJ
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		170 J	520 J	240 J	250 J	200 J	240 J	270 J
Chromium		0.2	0.16	0.01 U	0.013 U	0.01 U	0.0018 UJ	0.004 UJ
Cobalt		0.01	0.024	0.01 U	0.0041 J	0.01 U	0.01 U	0.01 U
Copper		0.067 J	0.16 J	0.0015 UJ	0.0072 UJ	0.00092 UJ	0.0012 UJ	0.0019 UJ
Cyanide, Total		0.01 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		53	140 J	0.33 U	22 J	23 J	22 J	34 J
Lead		0.024	0.024 J	0.0027 UJ	0.0081 U	0.005 U	0.002 UJ	0.0029 UJ
Magnesium		49	210	33	80	67	44	63
Manganese		0.97	2.3	0.43 J	0.46 J	0.6 J	0.9 J	1.4 J
Mercury		0.00011 UJ	0.000074 UJ	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.029	0.036	0.011	0.0048 J	0.005 J	0.0063 J	0.0028 J
Nickel		0.48	27	0.04 U	0.015 J	0.04 U	0.04 U	0.04 U
Potassium		10 J	19 J	170	23	15	15	18
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		31 J	39 J	180 J	600 J	190 J	130 J	51 J
Thallium		0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
Vanadium		0.03	0.0088 J	0.01 U	0.02	0.01 U	0.01 U	0.01 U
Zinc		0.3 J	0.54 J	0.019 UJ	0.049 UJ	0.006 UJ	0.0096 UJ	0.01 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	AA-I-S3-74-78FT	AA-I-S3-84-88FT	AA-I-S3-84-88FTEB	AA-I-S3-84-88FTFD	AA-I-S3-94-98FT	AA-I-S4-56-60FT	AA-I-S4-56-60FTFD
	Sample Date	12/08/99	12/09/99	12/10/99	12/09/99	12/10/99	03/07/00	03/07/00
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		0.63 J	0.060 UJ	0.080 J	0.074 UJ	1.6 J	3.5 J	5.1 J
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.010 U	0.0055 J	0.010 U	0.0054 J	0.0051 J	0.010 U	0.010 U
Barium		0.10 J	0.27 J	0.0036 J	0.27 J	0.28 J	0.52 J	0.56 J
Beryllium		0.00099 UJ	0.00081 UJ	0.0040 U	0.00091 UJ	0.0024 UJ	0.0040 U	0.0040 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		290 J	200 J	0.67	200 J	170 J	140 J	140 J
Chromium		0.0073 UJ	0.0035 UJ	0.010 U	0.0026 UJ	0.017 J	0.033 J	0.050 J
Cobalt		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0023 J	0.0038 J
Copper		0.0027 UJ	0.0018 UJ	0.0017 J	0.0014 UJ	0.0075 UJ	0.0060 UJ	0.0088 UJ
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 J	0.010 U	0.010 U	0.010 U
Iron		39 J	23 J	0.40	23	19 J	28 J	32 J
Lead		0.0016 UJ	0.0027 UJ	0.0050 U	0.0050 U	0.0043 UJ	0.0033 J	0.0059
Magnesium		72	58	0.50 U	58	49	29	29
Manganese		2.6 J	0.86 J	0.018	0.87 J	0.75 J	1.1 J	1.2 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.0035 UJ	0.0053 UJ	0.010 U	0.0039 UJ	0.0043 J	0.012	0.018
Nickel		0.040 U	0.0049 J	0.040 U	0.040 U	0.0080 J	0.012 UJ	0.016 UJ
Potassium		13	9.1	1.0 U	9.2	7.9	9.3	9.9
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		45 J	36 J	0.47 J	36 J	30 J	38 J	39 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium		0.0025 J	0.010 U	0.010 U	0.010 U	0.0045 J	0.0079 J	0.012
Zinc		0.019 UJ	0.019 UJ	0.015 J	0.014 UJ	0.035 U	0.35 J	0.52 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	AA-I-S4-66-70FT	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT
	Sample Date	03/07/00	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		1.8 J	0.46 J	0.11 J	0.13 J	9.8 J	10 J	0.21 UJ
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.02 U	0.02 U	0.02 U
Arsenic		0.010 U	0.010 U	0.010 U	0.010 U	0.0068 J	0.0069 J	0.01 U
Barium		0.63 J	1.1 J	1.2 J	0.97 J	0.76 J	0.76 J	0.17 J
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.004 U	0.004 U	0.004 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.005 U	0.005 U	0.005 U
Calcium		130 J	140 J	160 J	150 J	140 J	130 J	140 J
Chromium		0.028 J	0.0074 UJ	0.0079 UJ	0.0018 UJ	0.18 J	0.17 J	0.01 U
Cobalt		0.0019 J	0.010 U	0.010 U	0.010 U	0.012	0.011	0.01 U
Copper		0.0059 UJ	0.0048 UJ	0.012 J	0.0016 UJ	0.029	0.025	0.001 J
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Iron		23 J	19 J	20 J	14 J	47 J	45 J	0.71 J
Lead		0.0040 J	0.0016 J	0.0050 U	0.0050 U	0.013	0.012	0.005 U
Magnesium		35	43	48	43	40	40	33
Manganese		0.84 J	0.51 J	0.49 J	0.34 J	1 J	0.96 J	0.78 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.011	0.0038 J	0.0055 J	0.010 U	0.028	0.027	0.0052 J
Nickel		0.010 UJ	0.0052 UJ	0.0062 UJ	0.040 U	0.065	0.061	0.012 J
Potassium		8.9	8.0	8.0	7.3	8	8.1	5.3
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Sodium		51 J	35 J	20 J	22 J	16 J	16 J	12 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Vanadium		0.0047 J	0.010 U	0.010 U	0.010 U	0.025	0.025	0.01 U
Zinc		0.18 J	0.15 UJ	0.26 J	0.060 UJ	0.3 J	0.26 J	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-SW-S1-24-26FT	AA-SW-S1-34-36FT	AA-SW-S1-42-46FT	AA-SW-S1-52-56FT	AA-SW-S1-62-66FT	AA-SW-S1-72-76FT	AA-SW-S1-82-86FT
	Sample Date	11/02/99	11/02/99	11/03/99	11/03/99	11/04/99	11/04/99	11/05/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		4.8 J	0.19 UJ	0.052 UJ	0.83 J	0.34 J	0.53 J	29 J
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.0045 J	0.0041 J	0.006 J	0.01 U	0.01 U	0.01 U	0.021
Barium		0.31 J	0.19 J	0.22 J	0.4 J	0.14 J	0.14 J	0.88 J
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.0012 J
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		130 J	150 J	150 J	160 J	130 J	130 J	170 J
Chromium		0.0072 UJ	0.01 U	0.01 U	0.0087 UJ	0.0017 UJ	0.0079 UJ	0.3 J
Cobalt		0.0097 J	0.0077 J	0.01 U	0.01 U	0.01 U	0.01 U	0.032
Copper		0.0043 J	0.02 U	0.02 U	0.0028 J	0.02 U	0.0016 J	0.066
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		9.1 J	11 J	25 J	20 J	20 J	17 J	87 J
Lead		0.0077	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.035 J
Magnesium		39	29	32	35	36	42	51
Manganese		0.62 J	1.5 J	1.2 J	1.1 J	1.1 J	0.74 J	1.9 J
Mercury		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.01 U	0.01 U	0.01 U	0.0031 J	0.01 U	0.01 U	0.069
Nickel		0.023 J	0.0062 J	0.024 J	0.006 J	0.04 U	0.04 U	0.11
Potassium		6.2	7.6	5.3	7.4	5.4	4.7	14
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		10 J	18 J	12 J	10 J	9.2 J	9.6 J	14 J
Thallium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.013	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.07
Zinc		0.036 J	0.02 U	0.02 U	0.016 UJ	0.02 UJ	0.0087 UJ	0.29 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-SW-S1-91-95FT	AA-SW-S2-102-106FT	AA-SW-S2-14-16FT	AA-SW-S2-22-26FT	AA-SW-S2-32-36FT	AA-SW-S2-42-46FT	AA-SW-S2-52-56FT
	Sample Date	11/05/99	11/15/99	11/09/99	11/09/99	11/09/99	11/10/99	11/11/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		8.2 J	9.0 J	0.27 UJ	2.6 J	1.1 J	0.42 UJ	1.4 J
Antimony		0.02 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.01 U	0.0059 J	0.010 U	0.010 U	0.033	0.010	0.010 U
Barium		0.52 J	0.95	0.21 J	0.20 J	0.18 J	0.24 J	0.22 J
Beryllium		0.004 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium		0.005 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		140 J	130 J	120 J	140 J	140 J	140 J	110 J
Chromium		0.088 J	0.077 J	0.010 U	0.011 U	0.0053 UJ	0.0018 UJ	0.0088 UJ
Cobalt		0.0085 J	0.0098 J	0.010 U	0.0073 J	0.010 U	0.010 U	0.010 U
Copper		0.021	0.018 J	0.020 U	0.0023 J	0.0011 J	0.020 U	0.0014 J
Cyanide, Total		0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		39 J	30 J	0.96 J	6.7 J	9.3 J	24 J	31 J
Lead		0.01 U	0.0087	0.0050 U	0.0026 J	0.0050 U	0.0050 U	0.0050 U
Magnesium		41	40	36	28	26	26	27
Manganese		1 J	0.76 J	0.13 J	1.3 J	1.4 J	0.97 J	1.0 J
Mercury		0.0002 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.017	0.014	0.0033 J	0.0037 J	0.010 U	0.010 U	0.010 U
Nickel		0.038 J	0.042	0.0087 J	0.019 J	0.040 U	0.040 U	0.0051 J
Potassium		7.9	7.9	3.5	5.6	6.7	9.9	7.9
Selenium		0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		13 J	16 J	6.5 J	4.8 J	13 J	10 J	8.8 J
Thallium		0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium		0.021	0.022	0.010 U	0.0069 J	0.010 U	0.010 U	0.0038 J
Zinc		0.11 J	0.085 J	0.020 U	0.019 UJ	0.0065 UJ	0.020 U	0.013 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-SW-S2-62-66FT	AA-SW-S2-62-66FTFD	AA-SW-S2-72-76FT	AA-SW-S2-72-76FTEB	AA-SW-S2-82-86FT	AA-SW-S2-92-96FT	AA-SW-S3-14-16FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/12/99	11/10/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		4.2 J	3.3 J	22 J	0.10 J	32 J	23 J	4.4 J
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.0054 J	0.010 U	0.020	0.010 U	0.025	0.020	0.0089 J
Barium		0.27 J	0.24 J	0.67 J	0.0023 J	1.0 J	1.1 J	0.29 J
Beryllium		0.0040 U	0.0040 U	0.0010 J	0.0040 U	0.0016 J	0.0010 J	0.0040 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		130 J	130 J	160 J	0.63	200 J	160 J	180 J
Chromium		0.030 J	0.022 J	0.25 J	0.0026 J	0.41 J	0.27 J	0.0062 UJ
Cobalt		0.0021 J	0.0019 J	0.026	0.010 U	0.041	0.029	0.0053 J
Copper		0.0043 J	0.0029 J	0.048	0.020 U	0.073	0.050	0.0045 J
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		28 J	26 J	73 J	0.063	110 J	82 J	8.7 J
Lead		0.0050 U	0.0050 U	0.029	0.0050 U	0.042	0.024	0.0027 J
Magnesium		32	31	42	0.50 U	52	46	42
Manganese		0.80 J	0.77 J	2.4 J	0.0028 J	3.7 J	2.8 J	0.36 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.0052 J	0.0040 J	0.039	0.010 U	0.064	0.047	0.0063 J
Nickel		0.013 J	0.0099 J	0.098	0.040 U	0.16	0.11	0.017 J
Potassium		7.1	6.9	11	1.0 U	14	11	6.6
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		10 J	10 J	14 J	0.76	15 J	15 J	7.7 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium		0.0099 J	0.0084 J	0.055	0.010 U	0.088	0.057	0.014
Zinc		0.039 J	0.028 U	0.27 J	0.0062 J	0.51 J	0.37 J	0.022 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-SW-S3-22-26FT	AA-SW-S3-32-36FT	AA-SW-S3-42-46FT	AA-SW-S3-52-56FT	AA-SW-S3-62-66FT	AA-SW-S3-72-76FT	AA-SW-S3-82-86FT
	Sample Date	11/10/99	11/11/99	11/11/99	11/12/99	11/12/99	11/15/99	11/15/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.70 J	3.7 J	0.51 J	0.87 J	2.5 J	11 J	11 J
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.010 U	0.023	0.010 U	0.010 U	0.010 U	0.016	0.012
Barium		0.19 J	0.41 J	0.59 J	0.82 J	0.70 J	0.96	0.66
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.00058 UJ	0.0040 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		150 J	130 J	100 J	140 J	150 J	180 J	160 J
Chromium		0.010 U	0.0062 UJ	0.010 U	0.0066 UJ	0.019 J	0.085 J	0.10 J
Cobalt		0.0085 J	0.0042 J	0.010 U	0.010 U	0.0016 J	0.014	0.013
Copper		0.020 U	0.0016 J	0.020 U	0.0012 J	0.0027 J	0.028	0.028
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		2.0 J	23 J	13 J	20 J	21 J	52 J	45 J
Lead		0.0050 U	0.0032 J	0.0050 U	0.0050 U	0.0050 U	0.020	0.019
Magnesium		27	27	21	30	35	43	45
Manganese		2.0	1.2 J	0.64 J	0.59 J	0.49 J	2.1 J	1.3 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.010 U	0.010 U	0.010 U	0.010 U	0.0048 J	0.013	0.017
Nickel		0.019 J	0.014 J	0.0049 J	0.0050 J	0.012 J	0.050	0.048
Potassium		7.1	6.1	6.8	6.0	6.2	8.8	8.4
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		6.8 J	13 J	27 J	27 J	23 J	17 J	12 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium		0.010 U	0.0079 J	0.010 U	0.0022 J	0.0052 J	0.028	0.028
Zinc		0.0061 UJ	0.016 UJ	0.0059 UJ	0.012 UJ	0.020 UJ	0.14 J	0.16 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	AA-SW-S3-92-96FT	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD
	Sample Date	11/16/99	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		13 J	0.43 J	0.35	2.5 J	8.2 J	0.20 U	3.7 J
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.011	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0039 J
Barium		0.96	0.66	0.024	0.72	0.25	0.010 U	.22
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.00070 UJ	0.00055 J	0.00071 UJ
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		140 J	120 J	24	120 J	260 J	0.11 J	160 J
Chromium		0.14 J	0.0061 J	0.0033 J	0.040 J	0.41 J	0.010 U	0.095 J
Cobalt		0.012	0.010 U	0.010 U	0.0025 J	0.0057 J	0.010 U	0.0016 J
Copper		0.035	0.020 U	0.0014 J	0.0071 J	0.025	0.020 U	0.0079 J
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		50 J	12 J	0.42	22 J	14 J	0.031 J	5.7 J
Lead		0.014	0.0050 U	0.0050 U	0.0050 U	0.0077	0.0050 U	0.0029 J
Magnesium		41	36	7.6	37	55	0.50 U	49
Manganese		0.95 J	0.24 J	0.025	0.38 J	0.091 J	0.010 U	0.040 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.035	0.0049 J	0.0037 J	0.016	0.0095 J	0.010 U	0.0045 J
Nickel		0.058	0.040 U	0.0052 J	0.022 J	0.087	0.040 U	0.043
Potassium		8.7	4.8	2.6	5.5	13	1.0 U	11
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		13 J	12 J	13	12 J	43 J	0.42 J	44 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0053 J
Vanadium		0.029	0.010 U	0.0030 J	0.0064 J	0.027	0.010 U	0.012
Zinc		0.47 J	0.032 J	0.032	0.17 J	0.26 J	0.020 U	0.11 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	BR-H	BR-I	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1
	Sample Date	05/01/00	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.040 J	0.091 J	0.06 UJ	0.064 UJ	0.2 U	0.061 UJ	0.06 UJ
Antimony		0.020 U	0.020 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.0059 J	0.010 U	0.027	0.031	0.0064 J	0.01 U	0.01 U
Barium		0.054	0.093	0.26	0.27	0.22	0.18	0.13
Beryllium		0.0040 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.0050 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 J
Calcium		470 J	32 J	100 J	100 J	170	180 J	150 J
Chromium		0.010 UJ	0.014 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cobalt		0.0057 J	0.010 U	0.01 U	0.01 U	0.01 U	0.003 J	0.0041 J
Copper		0.020 U	0.011 J	0.01 J	0.027	0.0028 J	0.0026 J	0.0011 J
Cyanide, Total		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		23 J	0.24 J	9.2	11	17 J	2.4	1.9
Lead		0.0020 J	0.0052	0.077 J	0.18 J	0.005 U	0.0027 J	0.015 J
Magnesium		84	46	22	22	39	41	38
Manganese		2.9 J	0.0027 J	0.57	0.58	1.2	0.86	1.1
Mercury		0.00020 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.0043 J	0.0052 J	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Nickel		9.6	0.039 J	0.04 U	0.04 U	0.04 U	0.0062 J	0.053
Potassium		14	17 J	4	4.1	6.8	5.7	5.7
Selenium		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		40 J	93 J	9.5	9.6	22	24	29
Thallium		0.010 U	0.010 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.010 U	0.0036 J	0.01 U	0.0025 J	0.01 U	0.01 U	0.01 U
Zinc		0.025 J	0.0092 J	2.3 J	5.8 J	0.12	0.075 J	0.95 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	EE-01	EE-02-GP	EE-02-GPFD	EE-03	EE-05	EE-05EB	EE-12-GP
	Sample Date	10/12/99	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.3 J	0.18 UJ	0.17 UJ	0.082 UJ	0.2 U	0.2 U	4.9 J
Antimony		0.02 U	0.11	0.1	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.037	1.2	1.3	0.028	0.045	0.01 U	0.0097 J
Barium		0.57 J	0.071 J	0.056 J	0.13 J	0.4	0.01 U	0.92 J
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.0022 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00096 J
Calcium		330	710	730	260	270 J	0.32 J	480
Chromium		0.0042 J	0.003 J	0.003 J	0.01 UJ	0.01 UJ	0.01 U	0.0073 J
Cobalt		0.13	0.037	0.042	0.01 U	0.007 J	0.01 U	0.0028 J
Copper		0.018 J	0.0072 J	0.0054 J	0.02 U	0.001 UJ	0.02 U	0.01 J
Cyanide, Total		0.01 U	0.018	0.018	0.01 U	0.01 U	0.01 U	0.01 U
Iron		77 J	23 J	25 J	36 J	46 J	0.05 U	62 J
Lead		0.005 U	0.0085 U	0.0071 U	0.005 U	0.005 U	0.005 U	0.0092 U
Magnesium		60	39	40	79	52	0.5 U	110
Manganese		1.6 J	8.7 J	8.9 J	1.4 J	1.1	0.01 U	6.8 J
Mercury		0.0002 U	0.000087 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.00013 J
Molybdenum		0.01 U	0.0057 J	0.0052 J	0.01 U	0.45	0.01 U	0.01 U
Nickel		0.67	0.4	0.46	0.0054 J	0.0059 J	0.04 U	0.0095 J
Potassium		27	26	26	12	3.5	1 U	26
Selenium		0.01 U	0.0077 J	0.0066 J	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		51	32	33	98	59	0.54	240
Thallium		0.006 UJ	0.01 U	0.0051 J	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.012 U	0.0036 J	0.0034 J	0.01 U	0.0037 J	0.01 U	0.022
Zinc		0.48	0.057 J	0.064 J	0.02 U	0.02 U	0.02 U	0.12 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	EE-13-GP	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP
	Sample Date	11/04/99	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		1.5 J	0.18 UJ	7.1 J	1.4 J	0.58	0.2 U	0.042 J
Antimony		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.01 U	0.016	0.026	0.016	0.021 J	0.028	0.014
Barium		0.17 J	0.58 J	0.3 J	0.21 J	0.13 J	0.095	0.17
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Calcium		150	190	150	150	120	84	97
Chromium		0.0025 J	0.0078 J	0.013 J	0.0032 J	0.0053 J	0.01 UJ	0.01 UJ
Cobalt		0.0041 J	0.004 J	0.0075 J	0.01 U	0.0044 J	0.005 J	0.0019 J
Copper		0.0038 J	0.019 J	0.014 J	0.0029 J	0.0015 J	0.02 U	0.0016 J
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		2.1 J	64 J	42 J	28 J	6.4	6.5	1.4
Lead		0.0033 UJ	0.022 J	0.0092 U	0.005 U	0.005 U	0.005 U	0.005 U
Magnesium		31	49	41	40	25	18	21
Manganese		0.32 J	1.2 J	1.2 J	1.1 J	2.4 J	0.83 J	0.27
Mercury		0.0002 U	0.00018 J	0.00012 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.01 U	0.01 U	0.01 U	0.01 U	0.0052 J	0.0095 J	0.0079 J
Nickel		0.011 J	0.15	0.019 J	0.04 U	0.02 J	0.017 J	0.0049 J
Potassium		7.6	11	7 J	5.3 J	4	6.7	4.1
Selenium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		37	88	31	30	16	18	16
Thallium		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.005 J	0.0057 J	0.027 J	0.0054 J	0.01 U	0.01 U	0.01 U
Zinc		0.01 J	0.093 J	0.046 J	0.0082 J	0.02 U	0.019 J	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	EEG-104	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP
	Sample Date	10/08/99	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		0.031 J	0.15 UJ	0.2 U	0.61	1.5 J	0.041 UJ	5.5
Antimony		0.02 U	0.02 U	0.02 U	0.0086 J	0.02 U	0.02 U	0.02 U
Arsenic		0.01 U	0.01 U	0.042	0.014	4.3	0.0045 J	0.0042 J
Barium		0.16 J	0.13	0.13	0.42	0.021 J	0.12 J	0.47
Beryllium		0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U	0.004 U
Cadmium		0.005 U	0.005 U	0.005 U	0.0026 J	0.025 U	0.0021 J	0.005 U
Calcium		150	86	280	520	530	120	150
Chromium		0.01 UJ	0.01 UJ	0.01 UJ	0.022 J	0.01 UJ	0.01 UJ	0.018 J
Cobalt		0.0025 J	0.0016 J	0.01 U	0.14	0.22	0.0019 J	0.0093 J
Copper		0.02 U	0.02 U	0.02 U	0.011 J	0.044 J	0.02 U	0.0094 J
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Iron		0.1	0.28	56	270	290 J	0.48 J	11
Lead		0.005 U	0.005 U	0.003 J	0.024	0.1 U	0.005 U	0.008 U
Magnesium		38	15	60	49	160	21	29
Manganese		0.72 J	0.45	2.1 J	6.1 J	10 J	1.6 J	0.4
Mercury		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.01 U	0.0057 J	0.01 U	0.056	0.01 U	0.01	0.01
Nickel		0.015 J	0.0067 J	0.04 U	0.12	180	0.15	0.024 J
Potassium		4.5	7.7	14	28	29	3.6	5.8
Selenium		0.01 U	0.01 U	0.01 U	0.005 J	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Sodium		12	19	230	150	47	15	28
Thallium		0.01 U	0.01 U	0.01 U	0.01 U	0.0061 UJ	0.01 U	0.01 U
Vanadium		0.01 U	0.01 U	0.01 U	0.33	0.01 U	0.01 U	0.017
Zinc		0.011 J	0.02 U	0.02 U	1.3	1.2	0.54	0.037

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Sample ID	EEG-112	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT
Sample Date	10/08/99	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound							
Aluminum	0.2 U	4.0 J	0.70 J	17 J	7.3 J	3.2 J	4.6 J
Antimony	0.02 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic	0.055 J	0.013 J	0.044 J	0.023 J	0.012 J	0.010 UJ	0.0047 J
Barium	0.34 J	0.54 J	0.25 J	0.55 J	0.35 J	0.43 J	0.38 J
Beryllium	0.004 U	0.0040 U	0.0040 U	0.0011 J	0.0040 U	0.0040 U	0.0040 U
Cadmium	0.005 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium	100	130 J	80 J	130 J	100 J	140 J	170 J
Chromium	0.01 UJ	0.018 J	0.0044 J	0.082 J	0.030 J	0.0092 J	0.011 J
Cobalt	0.01 U	0.012 J	0.0042 J	0.020 J	0.0091 J	0.0072 J	0.010 J
Copper	0.02 U	0.011 J	0.0021 J	0.056 J	0.030 J	0.0047 J	0.0059 J
Cyanide, Total	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron	27	12 J	7.6 J	42 J	18 J	6.7 J	8.4 J
Lead	0.005 U	0.015 J	0.0034 J	0.036 J	0.015 J	0.0047 J	0.0045 J
Magnesium	23	14 J	8.8 J	28 J	22 J	27 J	27 J
Manganese	1.1 J	1.7 J	0.85 J	1.4 J	1.0 J	0.35 J	1.2 J
Mercury	0.0002 U	0.00020 U	0.00020 U	0.00020 U	0.00038	0.00020 U	0.00020 U
Molybdenum	0.0031 J	0.0029 J	0.0092 J	0.013	0.0064 J	0.010 U	0.0067 J
Nickel	0.04 U	0.027 J	0.010 J	0.059	0.027 J	0.016 J	0.022 J
Potassium	6.3	16 J	6.4 J	9.1	6.2 J	5.6 J	4.8 J
Selenium	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium	58	13	15	19	19	18	19
Thallium	0.01 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium	0.01 U	0.014 J	0.0038 J	0.057 J	0.023 J	0.011 J	0.014 J
Zinc	0.02 U	0.051 J	0.012 J	0.17 J	0.061 J	0.026 J	0.030 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	SGW-S2-40FT	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR
	Sample Date	10/15/99	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		2.0 J	4.3 J	0.20 U	0.028 UJ	0.20 U	1.5 J	0.051 UJ
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic		0.010 UJ	0.011	0.012	0.0095 J	0.013	0.0085 J	0.0071 J
Barium		0.23 J	0.43 J	0.27 J	0.28 J	0.27 J	0.29 J	0.23 J
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium		160 J	180	150	150	150	150	150
Chromium		0.0072 J	0.0097 J	0.010 U	0.010 U	0.010 U	0.0033 J	0.010 U
Cobalt		0.0095 J	0.014	0.0025 J	0.0023 J	0.0022 J	0.0023 J	0.010 U
Copper		0.0041 J	0.0068 UJ	0.020 U	0.020 U	0.020 U	0.0024 UJ	0.020 U
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		5.2 J	14	5.6	5.5	5.4	8.7	6.9
Lead		0.0053 J	0.014	0.0050 U	0.0050 U	0.0050 U	0.0022 J	0.0050 U
Magnesium		36 J	39	29	29	29	30	29
Manganese		1.6 J	1.7 J	1.4 J	1.4 J	1.4 J	1.5 J	1.5 J
Mercury		0.00020 U	0.000091 J	0.000079 J	0.000086 J	0.000088 J	0.000094 J	0.00020 UJ
Molybdenum		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Nickel		0.017 J	0.034 J	0.0048 J	0.040 U	0.040 U	0.0048 J	0.040 U
Potassium		7.8 J	6.2	4.8	4.9	4.7	7.2	6.6
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		26	17	17	17	17	24	24
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Vanadium		0.0069 J	0.012	0.010 U	0.010 U	0.010 U	0.0038 J	0.010 U
Zinc		0.017 J	0.049	0.020 U	0.020 U	0.013 J	0.016 J	0.020 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

Compound	Sample ID	TS-S2-24HR	UGGW-EE-04	UGGW-EE-04-100FT	UGGW-EE-04-100FTFD	UGGW-EE-04-60FT	UGGW-EE-04FD	UGGW-EE-20
	Sample Date	03/30/00	10/13/99	01/27/00	01/27/00	10/13/99	10/13/99	10/18/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Aluminum		0.20 U	0.2 U	0.38 J	0.84 J	24	0.2 U	0.1 UJ
Antimony		0.020 U	0.02 U	0.020 U	0.020 U	0.02 U	0.02 U	0.02 U
Arsenic		0.0072 J	0.01 U	0.010 U	0.010 U	0.014	0.01 U	0.01 U
Barium		0.22 J	0.27	0.65 J	0.70 J	0.97	0.27	0.11
Beryllium		0.0040 U	0.004 U	0.0040 U	0.0040 U	0.00097 J	0.004 U	0.004 U
Cadmium		0.0050 U	0.005 U	0.0050 U	0.0050 U	0.005 U	0.005 U	0.005 U
Calcium		140	330 J	120 J	120 J	180 J	330 J	100
Chromium		0.010 U	0.14 J	0.0051 J	0.0084 J	0.18 J	0.11 J	0.01 UJ
Cobalt		0.010 U	0.0072 J	0.010 U	0.010 U	0.018	0.0071 J	0.01 U
Copper		0.020 U	0.003 UJ	0.0023 J	0.0012 J	0.036 J	0.0029 UJ	0.02 U
Cyanide, Total		0.010 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Iron		6.8	1 J	8.4 J	9.9 J	57 J	0.8 J	0.073 J
Lead		0.0050 U	0.005 U	0.0050 U	0.0050 U	0.021	0.005 U	0.005 U
Magnesium		28	62	40	39	51	62	23
Manganese		1.4 J	1.2	0.32	0.35	1.2	1.2	0.074
Mercury		0.00010 J	0.0002 U	0.00020 UJ	0.00020 UJ	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.010 U	0.01 U	0.0035 J	0.0062 J	0.028	0.01 U	0.01 U
Nickel		0.040 U	0.17	0.040 U	0.0057 J	0.062	0.18	0.007 J
Potassium		6.3	170	4.3	4.5	12	170	2.5
Selenium		0.010 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Silver		0.010 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Sodium		23	100	26 J	25 J	27	100	8.5
Thallium		0.010 U	0.01 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Vanadium		0.010 U	0.01 U	0.010 U	0.0027 J	0.054	0.01 U	0.01 U
Zinc		0.020 U	0.02 U	0.042 J	0.083 J	0.077	0.02 U	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2f
Solutia
Sauget Area 1
Ground Water
Method 6010B/7470A/9010B Metals Data

	Sample ID	UGGW-EE-20-100FT	UGGW-EE-20-60FT	UGGW-EEG-108	UGGW-EEG-108-100FT	UGGW-EEG-108-60FT	UGGW-EEG-108-60FTEB	UGGW-EEG-108FD
	Sample Date	01/25/00	01/24/00	10/11/99	01/31/00	01/28/00	01/28/00	10/11/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		17 J	0.46 J	0.041 UJ	5.4 J	2.4 J	0.20 U	0.044 UJ
Antimony		0.020 U	0.020 U	0.02 U	0.02 U	0.020 U	0.020 U	0.02 U
Arsenic		0.016	0.010 U	0.0084 J	0.0038 J	0.010 U	0.010 U	0.0067 J
Barium		0.77 J	0.37 J	0.55 J	0.86	0.34 J	0.010 U	0.54 J
Beryllium		0.00096 J	0.0040 U	0.004 U	0.004 U	0.0040 U	0.0040 U	0.004 U
Cadmium		0.0050 U	0.0050 U	0.005 U	0.005 U	0.0050 U	0.0050 U	0.005 U
Calcium		190 J	130 J	210	140 J	140 J	0.18 J	210
Chromium		0.17	0.0029 J	0.04 J	0.028	0.0055 J	0.010 U	0.014 J
Cobalt		0.015	0.010 U	0.01 U	0.0047 J	0.010 U	0.010 U	0.01 U
Copper		0.052	0.0014 J	0.02 U	0.0095 J	0.0023 J	0.020 U	0.02 U
Cyanide, Total		0.010 U	0.010 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U
Iron		80 J	12 J	32 J	20 J	20 J	0.021 J	32 J
Lead		0.022	0.0050 U	0.005 U	0.0061	0.0050 U	0.0050 U	0.005 U
Magnesium		53	32	54	41	35	0.50 U	53
Manganese		1.6	1.2	1.3 J	0.58	0.62	0.010 U	1.4 J
Mercury		0.00020 UJ	0.00020 UJ	0.0002 U	0.0002 U	0.00020 UJ	0.00020 UJ	0.0002 U
Molybdenum		0.049	0.0028 J	0.01 U	0.0067 J	0.010 U	0.010 U	0.01 U
Nickel		0.056	0.040 U	0.0051 J	0.013 J	0.010 J	0.040 U	0.04 U
Potassium		12	6.0	12	6.4	6.6	1.0 U	12
Selenium		0.010 U	0.010 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U
Silver		0.010 U	0.010 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U
Sodium		30 J	20 J	85	18 J	25 J	0.55	89
Thallium		0.010 U	0.010 U	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U
Vanadium		0.050	0.0026 J	0.01 U	0.016	0.0076 J	0.010 U	0.01 U
Zinc		1.0 J	0.037 J	0.02 U	0.065 J	0.016 J	0.020 U	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-2g

Ground Water PCDD/PCDF Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-GHL-S1-102-106FT	AA-GHL-S1-22-26FT	AA-GHL-S1-22-26FTEB	AA-GHL-S1-22-26FTFD	AA-GHL-S1-62-66FT	AA-GHL-S2-22-26FT	AA-GHL-S2-62-66FT
	Sample Date	12/01/99	11/17/99	11/17/99	11/17/99	11/29/99	11/18/99	12/02/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.000188 J	0.0000089 M	0.0000054 M	0.0000112 M	0.0000421 J	0.0000046 U	0.0000405 U
1,2,3,4,6,7,8,9-OCDF		0.0000313 J	0.0000048 U	0.000003 M	0.000005 U	0.0000093 J	0.0000037 U	0.0000321 U
1,2,3,4,6,7,8-HpCDD		0.0000104 J	0.0000034 U	0.0000054 M	0.0000077 M	0.0000036 J	0.0000022 U	0.0000192 U
1,2,3,4,6,7,8-HpCDF		0.0000044 UJ	0.0000022 U	0.0000026	0.0000031 M	0.000002 UJ	0.000001 U	0.00001 U
1,2,3,4,7,8,9-HpCDF		0.0000057 UJ	0.0000031 U	0.0000014 U	0.0000026 U	0.0000026 UJ	0.0000015 U	0.0000156 U
1,2,3,4,7,8-HxCDD		0.000004 UJ	0.0000024 U	0.0000012 U	0.0000021 U	0.0000025 UJ	0.0000012 U	0.000009 U
1,2,3,4,7,8-HxCDF		0.0000031 UJ	0.0000016 U	0.0000017 M	0.0000014 U	0.0000015 UJ	0.0000007 U	0.000005 U
1,2,3,6,7,8-HxCDD		0.0000038 UJ	0.0000022 U	0.0000011 U	0.000002 U	0.0000023 UJ	0.0000011 U	0.0000087 U
1,2,3,6,7,8-HxCDF		0.0000028 UJ	0.0000014 U	0.0000007 U	0.0000022	0.0000014 UJ	0.0000007 U	0.0000046 U
1,2,3,7,8,9-HxCDD		0.0000039 UJ	0.0000024 U	0.0000012 U	0.0000021 U	0.0000024 UJ	0.0000012 U	0.0000093 U
1,2,3,7,8,9-HxCDF		0.0000034 UJ	0.0000018 U	0.0000009 U	0.0000017 U	0.0000016 UJ	0.0000009 U	0.0000062 U
1,2,3,7,8-PeCDD		0.0000033 UJ	0.0000025 U	0.0000016 U	0.0000022 U	0.0000026 UJ	0.0000015 U	0.0000074 U
1,2,3,7,8-PeCDF		0.0000024 UJ	0.0000019 U	0.0000012 U	0.0000021 U	0.000002 UJ	0.0000009 U	0.0000052 U
2,3,4,6,7,8-HxCDF		0.000003 UJ	0.0000016 U	0.0000018 U	0.0000014 U	0.0000015 UJ	0.0000008 U	0.0000052 U
2,3,4,7,8-PeCDF		0.0000025 UJ	0.0000019 U	0.0000013 U	0.0000021 U	0.0000021 UJ	0.0000009 U	0.0000051 U
2,3,7,8-TCDD		0.0000034 UJ	0.0000026 U	0.0000018 U	0.0000028 U	0.0000024 UJ	0.0000012 U	0.0000057 U
2,3,7,8-TCDF		0.000003 UJ	0.0000017 U	0.0000055	0.0000017 M	0.0000019 UJ	0.0000009 U	0.0000038 U
1998 Total TEQ w/ EMPC as ND		0.0000055614	0.0000038716	0.0000030955	0.0000039854	0.0000038941	0.0000019964	0.0000107726

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-GHL-S2-92-96FTEB	AA-GHL-S2-99-103FT	AA-GHL-S3-100-104FT	AA-GHL-S3-20-24FT	AA-GHL-S3-60-64FT	AA-GHL-S3-60-64FTEB	AA-H-S1-101-105FT
	Sample Date	12/02/99	12/02/99	12/20/99	12/14/99	12/16/99	12/16/99	03/17/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000212 U	0.0000548 U	0.000107	0.0000069 U	0.0000073 U	0.0000751	0.27284
1,2,3,4,6,7,8,9-OCDF		0.0000168 U	0.0000434 U	0.0000133	0.0000056 U	0.0000063 U	0.000013	0.12223
1,2,3,4,6,7,8-HpCDD		0.0000109 U	0.0000214 U	0.0000122	0.000004 U	0.000004 U	0.0000054	0.04796
1,2,3,4,6,7,8-HpCDF		0.0000058 U	0.0000113 U	0.0000029 U	0.0000025 U	0.0000028 U	0.0000035	0.02024
1,2,3,4,7,8,9-HpCDF		0.0000091 U	0.0000176 U	0.0000042 U	0.0000036 U	0.0000044 U	0.0000031 U	0.00262 J
1,2,3,4,7,8-HxCDD		0.0000069 U	0.0000134 U	0.0000034 U	0.0000022 U	0.0000026 U	0.0000018 U	0.000182
1,2,3,4,7,8-HxCDF		0.0000043 U	0.0000072 U	0.0000024 U	0.0000016 U	0.0000018 U	0.0000013 U	0.00326 J
1,2,3,6,7,8-HxCDD		0.0000067 U	0.000013 U	0.0000031 U	0.000002 U	0.0000025 U	0.0000018 U	0.00144 J
1,2,3,6,7,8-HxCDF		0.0000039 U	0.0000066 U	0.0000022 U	0.0000015 U	0.0000018 U	0.0000012 U	0.000454
1,2,3,7,8,9-HxCDD		0.0000071 U	0.0000138 U	0.0000033 U	0.0000021 U	0.0000028 U	0.000002 U	0.000834
1,2,3,7,8,9-HxCDF		0.0000053 U	0.0000089 U	0.0000028 U	0.0000019 U	0.0000023 U	0.0000016 U	0.0000646 JM
1,2,3,7,8-PeCDD		0.0000072 U	0.0000129 U	0.0000025 U	0.0000014 U	0.0000019 U	0.0000014 U	0.000147 JM
1,2,3,7,8-PeCDF		0.000005 U	0.0000087 U	0.0000019 U	0.0000011 U	0.0000013 U	0.000001 U	0.0000333
2,3,4,6,7,8-HxCDF		0.0000045 U	0.0000075 U	0.0000024 U	0.0000016 U	0.0000019 U	0.0000014 U	0.000326 J
2,3,4,7,8-PeCDF		0.0000049 U	0.0000086 U	0.0000019 U	0.0000011 U	0.0000014 U	0.0000011 U	0.000222 J
2,3,7,8-TCDD		0.0000055 U	0.0000092 U	0.0000025 U	0.0000012 U	0.0000016 U	0.0000012 U	0.0000131 M
2,3,7,8-TCDF		0.0000041 U	0.0000068 U	0.0000021 U	0.000001 U	0.0000013 U	0.0000011 U	0.000083
1998 Total TEQ w/ EMPC as ND		0.0000099709	0.0000175339	0.000004277	0.0000023486	0.0000030392	0.0000023233	0.001601552

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-H-S1-101-105FTEB	AA-H-S1-53-57FT	AA-H-S1-63-67FT	AA-H-S1-73-77FT	AA-H-S1-73-77FTFD	AA-H-S1-83-87FT	AA-H-S1-83-87FTEB
	Sample Date	03/13/00	03/10/00	03/10/00	03/13/00	03/13/00	03/13/00	03/14/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.000208	0.86337	0.0106	0.00269	0.00264	0.01765 J	0.0000506
1,2,3,4,6,7,8,9-OCDF		0.0000881	0.30155	0.00597	0.00122	0.0012	0.00764 J	0.0000201
1,2,3,4,6,7,8-HpCDD		0.0000315 M	0.10594	0.00153	0.000451	0.000426	0.00369	0.0000108
1,2,3,4,6,7,8-HpCDF		0.0000213	0.04578 M	0.00061	0.000231	0.000219	0.00148	0.000003 U
1,2,3,4,7,8,9-HpCDF		0.0000064 U	0.00845	0.000178	0.0000437	0.0000462	0.000214	0.0000043 U
1,2,3,4,7,8-HxCDD		0.0000034 U	0.000309	0.0000092 U	0.0000056	0.0000035 U	0.0000038 U	0.0000033 U
1,2,3,4,7,8-HxCDF		0.0000063	0.01521	0.00018	0.0000516	0.0000496	0.000172	0.0000026 U
1,2,3,6,7,8-HxCDD		0.0000034 U	0.00386	0.0000475	0.0000161	0.0000137	0.0000929	0.000003 U
1,2,3,6,7,8-HxCDF		0.0000027 U	0.00152	0.0000236 M	0.0000126 M	0.0000109	0.000029	0.0000024 U
1,2,3,7,8,9-HxCDD		0.0000037 U	0.00176 M	0.0000091 U	0.0000148	0.0000038 U	0.0000648	0.0000032 U
1,2,3,7,8,9-HxCDF		0.0000034 U	0.000427 M	0.0000075 U	0.000007 J	0.0000039 U	0.0000035 U	0.000003 U
1,2,3,7,8-PeCDD		0.000003 U	0.0000009 U	0.0000087 U	0.0000073	0.0000032 U	0.0000159	0.0000029 U
1,2,3,7,8-PeCDF		0.0000022 U	0.000495	0.0000056 U	0.0000075	0.0000024 U	0.0000111	0.000002 U
2,3,4,6,7,8-HxCDF		0.0000029 U	0.00104	0.0000176	0.0000176 J	0.0000131 J	0.00003 J	0.0000026 U
2,3,4,7,8-PeCDF		0.0000023 U	0.000942	0.0000215	0.0000126	0.000008	0.0000183	0.000002 U
2,3,7,8-TCDD		0.000003 U	0.0000299 M	0.0000075 U	0.0000035 U	0.0000032 U	0.0000028 U	0.0000029 U
2,3,7,8-TCDF		0.0000023 U	0.000247	0.0000052 U	0.0000058 U	0.0000047 U	0.0000072 JM	0.0000021 U
1998 Total TEQ w/ EMPC as ND		0.0000057821	0.004328392	0.000071067	0.000035563	0.000024081	0.000122969	0.0000047116

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-H-S1-93-97FT	AA-I-S1-17-21FT	AA-I-S1-57-61FT	AA-I-S1-97-101FT	AA-I-S1-97-101FTFD	AA-I-S2-16-20FT	AA-I-S2-56-60FT
	Sample Date	03/16/00	12/14/99	12/16/99	12/21/99	12/21/99	12/03/99	12/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.00759 J	0.0000049 U	0.0000208	0.0000526 M	0.0000133 M	0.0000053 J	0.0000141 U
1,2,3,4,6,7,8,9-OCDF		0.01972	0.000004 U	0.0000058 U	0.0000212	0.0000099 U	0.0000021 UJ	0.0000116 U
1,2,3,4,6,7,8-HpCDD		0.00711	0.0000029 U	0.0000038 U	0.0000062 M	0.0000061 U	0.0000016 UJ	0.0000082 U
1,2,3,4,6,7,8-HpCDF		0.00374	0.0000018 U	0.0000026 U	0.0000033 U	0.0000047 U	0.0000011 UJ	0.0000056 U
1,2,3,4,7,8,9-HpCDF		0.000567	0.0000026 U	0.000004 U	0.0000045 U	0.0000063 U	0.0000014 UJ	0.0000081 U
1,2,3,4,7,8-HxCDD		0.0000222	0.0000018 U	0.0000022 U	0.0000038 U	0.0000042 U	0.0000012 UJ	0.0000066 U
1,2,3,4,7,8-HxCDF		0.00053	0.0000013 U	0.0000016 U	0.0000029 U	0.0000031 U	0.0000009 UJ	0.0000046 U
1,2,3,6,7,8-HxCDD		0.000174	0.0000016 U	0.0000022 U	0.0000033 U	0.0000036 U	0.0000012 UJ	0.0000057 U
1,2,3,6,7,8-HxCDF		0.0000743	0.0000012 U	0.0000015 U	0.0000026 U	0.0000028 U	0.0000008 UJ	0.000004 U
1,2,3,7,8,9-HxCDD		0.0000817	0.0000017 U	0.0000025 U	0.0000038 U	0.0000042 U	0.0000012 UJ	0.0000066 U
1,2,3,7,8,9-HxCDF		0.0000028 U	0.0000016 U	0.0000019 U	0.0000032 U	0.0000034 U	0.000001 UJ	0.0000053 U
1,2,3,7,8-PeCDD		0.0000201	0.0000013 U	0.0000016 U	0.0000031 U	0.0000043 U	0.000001 UJ	0.0000087 U
1,2,3,7,8-PeCDF		0.000018	0.000001 U	0.0000012 U	0.0000028 U	0.0000035 U	0.0000008 UJ	0.0000063 U
2,3,4,6,7,8-HxCDF		0.0000585 J	0.0000013 U	0.0000016 U	0.0000026 U	0.0000028 U	0.0000008 UJ	0.0000046 U
2,3,4,7,8-PeCDF		0.0000424	0.000001 U	0.0000013 U	0.0000025 U	0.0000031 U	0.0000009 UJ	0.0000064 U
2,3,7,8-TCDD		0.0000027 U	0.0000014 U	0.0000024 M	0.0000043 U	0.0000039 U	0.0000014 UJ	0.0000086 U
2,3,7,8-TCDF		0.0000133	0.0000011 U	0.0000013 U	0.0000029 U	0.0000031 U	0.0000011 UJ	0.0000063 U
1998 Total TEQ w/ EMPC as ND		0.000255991	0.0000022419	0.0000031494	0.0000057247	0.0000064092	0.0000018761	0.0000127033

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-1-S2-96-100FT	AA-1-S3-104-108FT	AA-1-S3-24-28FT	AA-1-S3-64-68FT	AA-1-S4-56-60FT	AA-1-S4-56-60FTFD	AA-1-S4-66-70FT
	Sample Date	12/13/99	12/13/99	12/03/99	12/07/99	03/07/00	03/07/00	03/07/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000232	0.0000132	0.0000035 JM	0.0000128 UJ	0.0000386	0.0000367	0.000209
1,2,3,4,6,7,8,9-OCDF		0.0000044 U	0.0000055 M	0.0000041 J	0.0000105 UJ	0.0000038 U	0.0000133	0.000223
1,2,3,4,6,7,8-HpCDD		0.0000035 U	0.0000023 U	0.0000021 UJ	0.0000069 UJ	0.0000029 U	0.0000021 U	0.0000255
1,2,3,4,6,7,8-HpCDF		0.0000044 M	0.0000015 U	0.0000014 UJ	0.0000035 UJ	0.0000018 U	0.0000012 U	0.0000261
1,2,3,4,7,8,9-HpCDF		0.0000029 U	0.0000021 U	0.0000018 UJ	0.000005 UJ	0.0000026 U	0.0000017 U	0.0000169
1,2,3,4,7,8-HxCDD		0.0000021 U	0.0000014 U	0.0000018 JM	0.0000042 UJ	0.0000022 U	0.0000015 U	0.0000021 U
1,2,3,4,7,8-HxCDF		0.000004 M	0.000001 U	0.0000016 JM	0.0000021 UJ	0.0000015 U	0.0000009 U	0.0000128
1,2,3,6,7,8-HxCDD		0.000002 U	0.0000013 U	0.0000014 UJ	0.0000038 UJ	0.000002 U	0.0000014 U	0.0000018 U
1,2,3,6,7,8-HxCDF		0.0000014 U	0.0000009 U	0.0000016 J	0.0000019 UJ	0.0000014 U	0.0000009 U	0.0000015 U
1,2,3,7,8,9-HxCDD		0.0000021 U	0.0000013 U	0.0000015 UJ	0.0000041 UJ	0.0000021 U	0.0000015 U	0.0000021 U
1,2,3,7,8,9-HxCDF		0.0000018 U	0.0000011 U	0.0000011 UJ	0.0000025 UJ	0.0000018 U	0.0000011 U	0.0000019 U
1,2,3,7,8-PeCDD		0.0000017 U	0.000001 U	0.0000012 UJ	0.0000028 UJ	0.0000023 U	0.0000015 U	0.0000017 U
1,2,3,7,8-PeCDF		0.0000013 U	0.0000007 U	0.0000023 JM	0.0000018 UJ	0.0000016 U	0.000001 U	0.0000013 U
2,3,4,6,7,8-HxCDF		0.0000015 U	0.000001 U	0.000001 UJ	0.0000021 UJ	0.0000015 U	0.000001 U	0.0000016 U
2,3,4,7,8-PeCDF		0.0000039	0.0000007 U	0.0000011 UJ	0.0000019 UJ	0.0000016 U	0.000001 U	0.0000013 U
2,3,7,8-TCDD		0.0000016 U	0.000001 M	0.0000016 UJ	0.000002 UJ	0.0000016 U	0.0000012 U	0.0000012 U
2,3,7,8-TCDF		0.0000064	0.0000008 U	0.0000015 UJ	0.0000016 UJ	0.0000013 U	0.0000009 U	0.0000009 U
1998 Total TEQ w/ EMPC as ND		0.000005074	0.0000016636	0.0000024146	0.0000041131	0.0000031206	0.000002115	0.0000044107

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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DBF File: D:\ EMPDATA.DBF
FXP File: D:\ ABLEPR.FXP

Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-I-S4-76-80FT	AA-I-S4-86-90FT	AA-I-S4-96-100FT	AA-SW-S1-101-104FT	AA-SW-S1-101-104FTFD	AA-SW-S1-14-16FT	AA-SW-S1-62-66FT
	Sample Date	03/08/00	03/08/00	03/09/00	11/08/99	11/08/99	11/01/99	11/04/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.000178	0.0000389	0.000244	0.0000354 JM	0.0000264	0.0000026 M	0.0000268
1,2,3,4,6,7,8,9-OCDF		0.000232	0.0000454	0.000351	0.0000029 UJ	0.0000051 M	0.0000019 U	0.0000073
1,2,3,4,6,7,8-HpCDD		0.0000399	0.0000039 U	0.0000417	0.0000046 J	0.0000013 U	0.0000016 U	0.0000037
1,2,3,4,6,7,8-HpCDF		0.0000234	0.0000022 U	0.0000285	0.0000017 UJ	0.0000009 U	0.0000009 U	0.0000025
1,2,3,4,7,8,9-HpCDF		0.0000182	0.0000032 U	0.0000175 M	0.0000025 UJ	0.0000012 U	0.0000014 U	0.0000019 U
1,2,3,4,7,8-HxCDD		0.0000047 U	0.0000026 U	0.0000018 U	0.000002 UJ	0.000001 U	0.0000013 U	0.0000016 U
1,2,3,4,7,8-HxCDF		0.0000121 M	0.0000017 U	0.0000158	0.0000012 UJ	0.0000007 U	0.0000013 M	0.0000013 M
1,2,3,6,7,8-HxCDD		0.0000044 U	0.0000024 U	0.0000017 U	0.0000018 UJ	0.0000009 U	0.0000011 U	0.0000015 U
1,2,3,6,7,8-HxCDF		0.0000028 U	0.0000016 U	0.0000011 U	0.0000011 UJ	0.0000007 U	0.00000076 M	0.0000011
1,2,3,7,8,9-HxCDD		0.0000047 U	0.0000026 U	0.0000018 U	0.0000019 UJ	0.000001 U	0.0000014 U	0.0000016 U
1,2,3,7,8,9-HxCDF		0.0000035 U	0.000002 U	0.0000014 U	0.0000015 UJ	0.0000008 U	0.000001 U	0.0000011 M
1,2,3,7,8-PeCDD		0.0000042 U	0.0000027 U	0.0000016 UJ	0.0000018 UJ	0.0000009 U	0.0000016 U	0.0000017 U
1,2,3,7,8-PeCDF		0.000003 U	0.0000018 U	0.000001 UJ	0.0000018 UJ	0.0000009 U	0.000001 U	0.0000012 U
2,3,4,6,7,8-HxCDF		0.000003 U	0.0000017 U	0.0000012 U	0.0000013 UJ	0.0000007 U	0.0000008 U	0.0000009 U
2,3,4,7,8-PeCDF		0.0000031 U	0.0000018 U	0.000001 UJ	0.0000019 UJ	0.000001 U	0.000001 U	0.0000012 U
2,3,7,8-TCDD		0.0000032 U	0.000002 U	0.00000089 JM	R	0.0000015 U	0.0000012 U	0.0000015 U
2,3,7,8-TCDF		0.0000025 U	0.0000015 U	0.0000012 UJ	R	0.0000013 U	0.000001 U	0.000001 U
1998 Total TEQ w/ EMPC as ND		0.000007291	0.0000037049	0.000004459	0.0000020289	0.0000018474	0.0000021277	0.0000025649

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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DBF File D:\25501\TEMPDATA.DBF
FXP File D:\25501\TABLEPR.FXP

File Number 10040.25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-SW-S2-102-106FT	AA-SW-S2-22-26FT	AA-SW-S2-22-26FTFD	AA-SW-S2-62-66FT	AA-SW-S2-72-76FTEB	AA-SW-S3-22-26FT	AA-SW-S3-62-66FT
	Sample Date	11/15/99	11/09/99	11/10/99	11/10/99	11/11/99	11/10/99	11/12/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000225 M	0.0000085 U	0.000042 J	0.0000184 J	0.0000128	0.0000078	0.0000158
1,2,3,4,6,7,8,9-OCDF		0.0000076	0.000006 U	0.00001 J	0.0000088 UJ	0.0000055 U	0.0000069 UJ	0.000014 U
1,2,3,4,6,7,8-HpCDD		0.0000026 U	0.0000046 U	0.0000034 UJ	0.0000067 UJ	0.0000038 U	0.0000052 U	0.0000106 U
1,2,3,4,6,7,8-HpCDF		0.0000015 U	0.0000025 U	0.000002 UJ	0.0000043 UJ	0.0000024 U	0.0000032 UJ	0.0000076 U
1,2,3,4,7,8,9-HpCDF		0.0000022 U	0.0000042 U	0.0000029 UJ	0.0000062 UJ	0.0000033 U	0.0000047 UJ	0.0000102 U
1,2,3,4,7,8-HxCDD		0.0000017 U	0.000003 U	0.0000022 UJ	0.0000043 UJ	0.0000023 U	0.0000035 UJ	0.0000061 U
1,2,3,4,7,8-HxCDF		0.000001 U	0.0000019 U	0.0000026 J	0.0000042 J	0.0000019 U	0.0000027 UJ	0.0000052 U
1,2,3,6,7,8-HxCDD		0.0000016 U	0.0000026 U	0.0000018 UJ	0.0000036 UJ	0.0000021 U	0.0000029 UJ	0.0000057 U
1,2,3,6,7,8-HxCDF		0.000001 U	0.0000017 U	0.0000013 UJ	0.0000028 J	0.0000017 U	0.0000022 UJ	0.0000047 U
1,2,3,7,8,9-HxCDD		0.0000017 U	0.000003 U	0.0000022 UJ	0.0000044 UJ	0.0000021 U	0.0000035 UJ	0.0000058 U
1,2,3,7,8,9-HxCDF		0.0000012 U	0.0000022 U	0.0000018 UJ	0.0000036 J	0.0000021 U	0.0000032 UJ	0.0000058 U
1,2,3,7,8-PeCDD		0.0000016 U	0.0000029 U	0.0000021 U	0.0000044 UJ	0.000002 U	0.0000038 U	0.0000043 U
1,2,3,7,8-PeCDF		0.0000012 U	0.0000025 U	0.0000017 U	0.0000032 UJ	0.0000016 U	0.0000032 U	0.0000037 U
2,3,4,6,7,8-HxCDF		0.000001 U	0.0000018 U	0.0000015 UJ	0.0000034 UJ	0.0000019 U	0.0000026 UJ	0.0000051 U
2,3,4,7,8-PeCDF		0.0000012 U	0.0000028 U	0.0000018 U	0.0000028 JM	0.0000016 U	0.0000035 U	0.0000037 U
2,3,7,8-TCDD		0.0000015 U	0.0000027 U	0.000002 U	0.0000041 UJ	0.0000028 U	0.0000039 UJ	0.0000049 U
2,3,7,8-TCDF		0.000001 U	0.0000019 U	0.0000014 U	0.0000029 UJ	0.000002 U	0.0000029 U	0.0000037 U
1998 Total TEQ w/ EMPC as ND		0.0000024234	0.0000045247	0.0000034592	0.0000071082	0.0000036941	0.0000060466	0.0000078668

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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FXP File: D:\[illegible].BLEPR.FXP

Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	AA-SW-S3-96-99FT	AA-SW-S3-96-99FTEB	AA-SW-S3-96-99FTFD	BR-G	BR-GEB	BR-GFD	BR-H
	Sample Date	11/17/99	11/17/99	11/17/99	05/01/00	05/02/00	05/01/00	05/01/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000064 M	0.0000113	0.0000042 JM	0.11233	0.0000864	0.44073	0.00063
1,2,3,4,6,7,8,9-OCDF		0.0000035 U	0.000003 M	0.0000024 U	0.08746	0.0000512	0.1927	0.00025
1,2,3,4,6,7,8-HpCDD		0.0000023 U	0.000007 U	0.0000017 UJ	0.01511	0.0000114	0.04063	0.0000745
1,2,3,4,6,7,8-HpCDF		0.0000015 U	0.0000025 M	0.000001 UJ	0.00756	0.0000064 M	0.01295 M	0.0000656
1,2,3,4,7,8,9-HpCDF		0.0000021 U	0.0000064 U	0.0000015 UJ	0.00548 U	0.0000065 U	0.00596 U	0.0000086 U
1,2,3,4,7,8-HxCDD		0.0000015 U	0.0000047 U	0.0000012 UJ	0.004 U	0.000005 U	0.00475 U	0.0000062 U
1,2,3,4,7,8-HxCDF		0.000001 U	0.0000032 U	0.00000091 JM	0.00376 U	0.0000033 U	0.00455	0.0000068
1,2,3,6,7,8-HxCDD		0.0000013 U	0.0000043 U	0.0000011 UJ	0.00351 U	0.0000047 U	0.00416 U	0.0000059 U
1,2,3,6,7,8-HxCDF		0.000001 U	0.0000029 U	0.0000007 UJ	0.00329 U	0.0000031 U	0.00344 U	0.0000038 U
1,2,3,7,8,9-HxCDD		0.0000014 U	0.0000047 U	0.0000011 UJ	0.00367 U	0.0000047 U	0.00435 U	0.0000058 U
1,2,3,7,8,9-HxCDF		0.0000012 U	0.0000037 U	0.0000009 UJ	0.00429 U	0.0000041 U	0.00448 U	0.000005 U
1,2,3,7,8-PeCDD		0.0000013 U	0.0000048 U	0.0000011 U	0.0027 U	0.0000064 U	0.00352 U	0.0000078 U
1,2,3,7,8-PeCDF		0.0000011 U	0.000004 U	0.0000008 U	0.00173 U	0.000003 U	0.00213 U	0.0000035 U
2,3,4,6,7,8-HxCDF		0.000001 U	0.0000032 U	0.0000008 UJ	0.0039 U	0.0000035 U	0.00408 U	0.0000043 U
2,3,4,7,8-PeCDF		0.0000011 U	0.0000041 U	0.0000009 U	0.00202 U	0.0000036 U	0.00249 U	0.0000042 U
2,3,7,8-TCDD		0.0000014 U	0.000005 U	0.0000011 U	0.0021 U	0.000004 U	0.00264 U	0.0000054 U
2,3,7,8-TCDF		0.0000011 U	0.0000033 U	0.0000008 U	0.00259 U	0.0000319	0.0077 U	0.0000043 U
1998 Total TEQ w/ EMPC as ND		0.0000021575	0.0000076058	0.0000017418	0.004672829	0.0000109772	0.006422943	0.0000117145

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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FXP File: D:\25501\TABLEPR.FXP
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O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

Compound	Sample ID	BR-1	DW-MCDO-1	DW-MCDO-1FD	DW-SCHM-1	DW-SETT-1	DW-WRIG-1	EE-01
	Sample Date	04/25/00	10/21/99	10/21/99	10/22/99	10/21/99	10/21/99	10/12/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
1,2,3,4,6,7,8,9-OCDD		0.56075	0.0000063 M	0.0000167	0.0000131 M	0.0000081 U	0.0000073 M	0.00271
1,2,3,4,6,7,8,9-OCDF		0.21592	0.0000057 U	0.0000026 U	0.000005	0.0000057 U	0.0000034 U	0.00161
1,2,3,4,6,7,8-HpCDD		0.03732	0.0000036 U	0.0000018 M	0.0000012 U	0.0000034 U	0.0000023 U	0.00026
1,2,3,4,6,7,8-HpCDF		0.05061	0.0000018 U	0.000001 U	0.0000007 U	0.000002 U	0.0000012 U	0.000259
1,2,3,4,7,8,9-HpCDF		0.00961	0.0000027 U	0.0000015 U	0.000001 U	0.000003 U	0.0000018 U	0.000104
1,2,3,4,7,8-HxCDD		0.00196 U	0.000002 U	0.0000012 U	0.0000008 U	0.0000019 U	0.0000014 U	0.0000108 U
1,2,3,4,7,8-HxCDF		0.01713	0.0000014 U	0.0000024	0.0000015 M	0.0000015 U	0.0000014	0.000112
1,2,3,6,7,8-HxCDD		0.00172 U	0.0000019 U	0.0000012 U	0.0000008 U	0.0000018 U	0.0000013 U	0.0000205
1,2,3,6,7,8-HxCDF		0.00473	0.0000012 U	0.0000018 M	0.0000006 U	0.0000014 U	0.00000077 M	0.0000346
1,2,3,7,8,9-HxCDD		0.0018 U	0.0000021 U	0.0000025	0.0000009 U	0.000002 U	0.0000014 U	0.0000191 JM
1,2,3,7,8,9-HxCDF		0.00185 U	0.0000016 U	0.000002 M	0.0000008 U	0.0000019 U	0.0000017	0.0000206
1,2,3,7,8-PeCDD		0.0012 U	0.0000024 UJ	0.000003 JM	0.0000016 U	0.0000023 UJ	0.0000019 UJ	0.0000137 U
1,2,3,7,8-PeCDF		0.0035	0.0000015 U	0.0000009 U	0.000001 U	0.0000015 U	0.0000012 U	0.0000075 U
2,3,4,6,7,8-HxCDF		0.00442	0.0000014 U	0.0000017	0.0000006 U	0.0000016 U	0.0000009 U	0.0000258
2,3,4,7,8-PeCDF		0.00317	0.0000016 U	0.000001 U	0.0000009 U	0.0000016 U	0.0000013 U	0.000017 M
2,3,7,8-TCDD		0.000853 U	0.0000014 U	0.0000016 M	0.0000012 U	0.0000014 U	0.0000012 U	0.0000077 U
2,3,7,8-TCDF		0.000781 U	0.0000012 U	0.0000031	0.0000017 M	0.0000011 U	0.0000009 U	0.0000102
1998 Total TEQ w/ EMPC as ND		0.006873117	0.0000030186	0.0000038758	0.0000020507	0.0000029902	0.0000025756	0.0000456645

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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DBF File: D [illegible]EMPDATA.DBF
FXP File: D [illegible]ABLEPR.FXP

e Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	EE-02-GP	EE-02-GPEB	EE-03	EE-05	EE-05EB	EE-12-GP	EE-13-GP
	Sample Date	11/04/99	11/04/99	10/12/99	10/13/99	10/13/99	11/05/99	11/04/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000416	0.0000278	0.00421	0.18156 J	0.0000694	0.53785 J	0.02728
1,2,3,4,6,7,8,9-OCDF		0.0000024 U	0.0000089 U	0.000365	0.02243	0.0000048 M	0.30903 J	0.00198 J
1,2,3,4,6,7,8-HpCDD		0.0000022 U	0.0000076 U	0.0000954	0.00857	0.0000043 M	0.09338 J	0.00261
1,2,3,4,6,7,8-HpCDF		0.0000013 U	0.0000049 U	0.0000561	0.00341	0.0000007 U	0.06045 J	0.000332
1,2,3,4,7,8,9-HpCDF		0.000002 U	0.000007 U	0.0000015 U	0.000105	0.0000009 U	0.00401	0.0000406
1,2,3,4,7,8-HxCDD		0.0000015 U	0.0000049 U	0.0000016 U	0.000004 M	0.0000009 U	0.00023	0.0000039 U
1,2,3,4,7,8-HxCDF		0.0000025	0.0000037 U	0.0000086 M	0.0000246	0.0000006 U	0.00687	0.0000514
1,2,3,6,7,8-HxCDD		0.0000012 U	0.000004 U	0.0000014 U	0.000162	0.0000009 U	0.00205	0.0000345
1,2,3,6,7,8-HxCDF		0.0000008 U	0.0000032 U	0.0000018 M	0.0000172	0.0000005 U	0.000912	0.0000115
1,2,3,7,8,9-HxCDD		0.0000015 U	0.0000048 U	0.0000015 U	0.0000208 J	0.0000009 U	0.000821	0.0000038 U
1,2,3,7,8,9-HxCDF		0.0000011 U	0.0000056	0.0000012 U	0.0000014 U	0.0000007 U	0.0000547	0.0000034 U
1,2,3,7,8-PeCDD		0.0000014 U	0.0000045 U	0.0000017 U	0.0000068	0.0000012 U	0.000124	0.0000034 U
1,2,3,7,8-PeCDF		0.0000011 U	0.0000035 U	0.0000011 U	0.0000103 M	0.0000007 U	0.000156 JM	0.0000026 U
2,3,4,6,7,8-HxCDF		0.0000009 U	0.0000035 U	0.000001 U	0.0000314	0.0000006 U	0.000536	0.0000043 M
2,3,4,7,8-PeCDF		0.0000012 U	0.0000036 U	0.0000011 U	0.000005 M	0.0000007 U	0.000205	0.0000027 U
2,3,7,8-TCDD		0.0000012 U	0.0000042 U	0.0000011 U	0.0000039 M	0.0000007 U	0.0000032 U	0.0000032 U
2,3,7,8-TCDF		0.0000011 U	0.0000038 U	0.0000048	0.0000054 M	0.0000006 U	0.0000718	0.0000028 U
1998 Total TEQ w/ EMPC as ND		0.0000023143	0.0000073932	0.0000050175	0.0001776465	0.0000014641	0.003049638	0.000047442

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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DBF File D:\25501\TEMPDATA.DBF
FXP File D:\25501\TABLEPR.FXP

File Number 10040.25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	EE-14-GP	EE-15-GP	EE-15-GPFD	EEG-101	EEG-102	EEG-103-GP	EEG-104
	Sample Date	11/05/99	11/08/99	11/08/99	10/08/99	10/07/99	11/03/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.39915 J	0.00118	0.000458	0.00132 J	0.000325	0.0000088 U	0.00736 J
1,2,3,4,6,7,8,9-OCDF		0.08439 J	0.000244	0.000048	0.000272 J	0.0001	0.0000078 U	0.00174 J
1,2,3,4,6,7,8-HpCDD		0.04082 J	0.000106	0.0000257	0.0000832 J	0.0000488	0.0000057 U	0.000595 J
1,2,3,4,6,7,8-HpCDF		0.01511	0.0000324	0.0000092	0.0000407 J	0.0000185	0.000005 U	0.000277 J
1,2,3,4,7,8,9-HpCDF		0.000609	0.0000023 U	0.0000012 U	0.0000039 UJ	0.0000228	0.0000072 U	0.0000333 J
1,2,3,4,7,8-HxCDD		0.0000283	0.0000016 U	0.000001 U	0.000003 UJ	0.0000057 U	0.000003 U	0.0000054 J
1,2,3,4,7,8-HxCDF		0.000233	0.0000011 U	0.0000007 U	0.0000055 JM	0.0000043 U	0.0000011	0.0000191 J
1,2,3,6,7,8-HxCDD		0.000645	0.0000015 U	0.0000009 U	0.0000029 UJ	0.0000053 U	0.0000029 U	0.0000177 J
1,2,3,6,7,8-HxCDF		0.0000617	0.000001 U	0.0000006 U	0.0000021 UJ	0.000004 U	0.0000021 U	0.0000086 J
1,2,3,7,8,9-HxCDD		0.000105	0.0000016 U	0.000001 U	0.0000032 UJ	0.0000055 U	0.0000032 U	0.0000145 J
1,2,3,7,8,9-HxCDF		0.0000016 U	0.0000013 U	0.0000008 U	0.0000027 UJ	0.0000048 U	0.0000025 U	0.0000024 UJ
1,2,3,7,8-PeCDD		0.0000104	0.0000014 U	0.0000009 U	0.0000036 UJ	0.0000076 U	0.000002 U	0.0000035 UJ
1,2,3,7,8-PeCDF		0.0000267 JM	0.0000012 U	0.0000008 U	0.0000022 UJ	0.0000044 U	0.0000013 U	0.000002 UJ
2,3,4,6,7,8-HxCDF		0.0000704	0.0000011 U	0.0000007 U	0.0000023 UJ	0.0000043 U	0.0000021 U	0.0000065 JM
2,3,4,7,8-PeCDF		0.0000485	0.0000012 U	0.0000008 U	0.0000023 UJ	0.0000047 U	0.0000013 U	0.0000068 J
2,3,7,8-TCDD		0.0000062 M	0.0000017 U	0.0000011 U	0.0000028 UJ	0.0000054 U	0.0000023 U	0.0000023 UJ
2,3,7,8-TCDF		0.0000237	0.0000013 U	0.0000009 U	0.0000026 UJ	0.0000047 U	0.0000017 U	0.0000072 J
1998 Total TEQ w/ EMPC as ND		0.0007689515	0.0000039429	0.0000019556	0.0000064627	0.0000106585	0.0000035828	0.000024008

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	EEG-105-GP	EEG-106	EEG-107	EEG-109	EEG-110	EEG-111-GP	EEG-112
	Sample Date	11/02/99	10/07/99	10/07/99	10/11/99	10/11/99	11/03/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0000083 M	0.00011 M	0.01757 J	0.000088	0.0000173 M	0.0000111 M	0.000205 JM
1,2,3,4,6,7,8,9-OCDF		0.0000037	0.0000321	0.00392 J	0.0000117 M	0.000006 M	0.0000086 U	0.0000384 JM
1,2,3,4,6,7,8-HpCDD		0.0000026 U	0.0000134	0.00318 J	0.0000082	0.000002 M	0.0000057 U	0.0000154 JM
1,2,3,4,6,7,8-HpCDF		0.0000016 U	0.0000238	0.00115 J	0.0000012 U	0.0000012 U	0.0000037 U	0.0000074 J
1,2,3,4,7,8,9-HpCDF		0.0000023 U	0.0000083 U	0.00485	0.0000017 U	0.0000016 U	0.0000053 U	0.0000027 UJ
1,2,3,4,7,8-HxCDD		0.000002 U	0.0000061 U	0.00196	0.000002 U	0.0000016 U	0.0000032 U	0.0000022 UJ
1,2,3,4,7,8-HxCDF		0.0000014 U	0.0000135	0.00232	0.0000011 U	0.000001 U	0.0000021 U	0.0000034 JM
1,2,3,6,7,8-HxCDD		0.0000017 U	0.0000057 U	0.00602	0.0000018 U	0.0000014 U	0.0000031 U	0.0000021 UJ
1,2,3,6,7,8-HxCDF		0.0000012 U	0.0000046 U	0.000808	0.000001 U	0.000001 U	0.000002 U	0.0000015 UJ
1,2,3,7,8,9-HxCDD		0.000002 U	0.0000059 U	0.00542 J	0.0000021 U	0.0000016 U	0.0000034 U	0.0000023 UJ
1,2,3,7,8,9-HxCDF		0.0000016 U	0.0000054 U	0.0000527 M	0.0000012 U	0.0000012 U	0.0000024 U	0.000002 UJ
1,2,3,7,8-PeCDD		0.0000021 U	0.0000064 U	0.00136	0.0000026 U	0.000002 U	0.0000021 U	0.0000027 UJ
1,2,3,7,8-PeCDF		0.0000014 U	0.0000044 U	0.000435 JM	0.0000014 U	0.0000011 U	0.0000013 U	0.0000017 UJ
2,3,4,6,7,8-HxCDF		0.0000013 U	0.0000048 U	0.000773	0.0000011 U	0.000001 U	0.0000021 U	0.0000028 JM
2,3,4,7,8-PeCDF		0.0000014 U	0.0000046 U	0.000432	0.0000014 U	0.0000011 U	0.0000013 U	0.0000017 UJ
2,3,7,8-TCDD		0.0000016 U	0.0000044 U	0.000221	0.0000016 U	0.0000013 U	0.0000022 U	0.000002 UJ
2,3,7,8-TCDF		0.0000015 U	0.000004 U	0.000125	0.0000011 U	0.0000009 U	0.0000015 U	0.0000018 UJ
1998 Total TEQ w/ EMPC as ND		0.0000029033	0.0000102572	0.003647059	0.0000031609	0.0000024627	0.000003572	0.0000038992

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	SGW-S1-15FT	SGW-S1-20FT	SGW-S1-40FT	SGW-S1-40FTFD	SGW-S2-15FT	SGW-S2-20FT	SGW-S2-40FT
	Sample Date	10/14/99	10/14/99	10/14/99	10/14/99	10/15/99	10/15/99	10/15/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.000017 JM	0.0000168 JM	0.0398 J	0.000125 J	0.0000151 U	0.0000261	0.000114
1,2,3,4,6,7,8,9-OCDF		0.0000045 UJ	0.0000061 UJ	0.01277 J	0.0000363 J	0.0000128 U	0.00002 U	0.0000248 M
1,2,3,4,6,7,8-HpCDD		0.0000017 M	0.0000037 U	0.00432	0.0000162	0.0000098 U	0.000014 U	0.000013 U
1,2,3,4,6,7,8-HpCDF		0.0000014 U	0.0000021 U	0.00174	0.0000016 U	0.000007 U	0.0000091 U	0.0000088 U
1,2,3,4,7,8,9-HpCDF		0.0000021 U	0.0000032 U	0.0000877	0.0000024 U	0.000009 U	0.0000118 U	0.0000114 U
1,2,3,4,7,8-HxCDD		0.0000019 U	0.0000024 U	0.0000118 U	0.0000024 U	0.0000081 U	0.0000113 U	0.0000107 U
1,2,3,4,7,8-HxCDF		0.0000012 M	0.0000017 M	0.0000644	0.0000022 M	0.0000055 U	0.000007 U	0.0000072 U
1,2,3,6,7,8-HxCDD		0.0000016 U	0.0000021 U	0.000181	0.0000023 M	0.0000076 U	0.0000105 U	0.00001 U
1,2,3,6,7,8-HxCDF		0.0000009 U	0.0000013 U	0.0000184 M	0.0000019	0.0000051 U	0.0000066 U	0.0000067 U
1,2,3,7,8,9-HxCDD		0.0000019 U	0.0000025 U	0.0000407	0.0000025 U	0.0000079 U	0.0000109 U	0.0000104 U
1,2,3,7,8,9-HxCDF		0.0000012 U	0.0000025 M	0.0000088 U	0.0000018 U	0.0000061 U	0.0000078 U	0.000008 U
1,2,3,7,8-PeCDD		0.0000024 U	0.0000032 U	0.0000059 M	0.0000034 U	0.0000077 U	0.0000097 U	0.0000104 U
1,2,3,7,8-PeCDF		0.0000013 U	0.0000017 U	0.000022	0.0000021 M	0.000005 U	0.000006 U	0.0000065 U
2,3,4,6,7,8-HxCDF		0.000001 U	0.0000014 U	0.0000413	0.0000018 M	0.0000054 U	0.0000069 U	0.0000071 U
2,3,4,7,8-PeCDF		0.0000013 U	0.0000017 U	0.0000077 U	0.0000018 U	0.0000053 U	0.0000063 U	0.0000068 U
2,3,7,8-TCDD		0.0000014 U	0.000002 U	0.0000075 U	0.0000021 U	0.0000059 U	0.000007 U	0.0000075 U
2,3,7,8-TCDF		0.0000011 U	0.0000016 U	0.0000283	0.0000017 U	0.0000047 U	0.0000057 U	0.0000058 U
1998 Total TEQ w/ EMPC as ND		0.0000028246	0.0000038886	0.000113979	0.0000043756	0.0000109004	0.0000135881	0.0000142861

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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FXP File: D:\ [illegible]\BLEPR.FXP

Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	TS-S1-0HR	TS-S1-12HR	TS-S1-12HRFD	TS-S1-24HR	TS-S2-0HR	TS-S2-12HR	TS-S2-24HR
	Sample Date	03/29/00	03/29/00	03/29/00	03/30/00	03/29/00	03/29/00	03/30/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.000057 M	0.0000333 M	0.0000219 M	0.0000094 M	0.0000651 JM	0.0000061 M	0.0000061 U
1,2,3,4,6,7,8,9-OCDF		0.0000135 JM	0.0000099 JM	0.0000141 JM	0.0000042 U	0.0000361 JM	0.0000037 U	0.0000051 U
1,2,3,4,6,7,8-HpCDD		0.0000027 U	0.0000041 U	0.0000053	0.0000035 U	0.0000047 U	0.0000032 U	0.0000044 U
1,2,3,4,6,7,8-HpCDF		0.0000016 U	0.0000027 U	0.0000023 U	0.0000021 U	0.0000029 U	0.0000021 U	0.0000027 U
1,2,3,4,7,8,9-HpCDF		0.0000021 U	0.0000035 U	0.000003 U	0.0000028 U	0.0000038 U	0.0000027 U	0.0000035 U
1,2,3,4,7,8-HxCDD		0.0000019 U	0.0000027 U	0.0000022 U	0.0000024 U	0.0000031 U	0.0000021 U	0.0000029 U
1,2,3,4,7,8-HxCDF		0.0000027 M	0.0000021 U	0.0000017 U	0.0000029 M	0.0000024 U	0.0000017 U	0.0000023 U
1,2,3,6,7,8-HxCDD		0.0000018 U	0.0000025 U	0.0000021 U	0.0000023 U	0.0000029 U	0.000002 U	0.0000027 U
1,2,3,6,7,8-HxCDF		0.0000013 U	0.0000019 U	0.0000016 U	0.0000017 U	0.0000022 U	0.0000016 U	0.0000021 U
1,2,3,7,8,9-HxCDD		0.0000018 U	0.0000026 U	0.0000022 U	0.0000024 U	0.000003 U	0.0000021 U	0.0000028 U
1,2,3,7,8,9-HxCDF		0.0000016 U	0.0000023 U	0.0000019 U	0.000002 U	0.0000026 U	0.0000019 U	0.0000025 U
1,2,3,7,8-PeCDD		0.0000017 U	0.0000024 U	0.0000056	0.0000025 U	0.0000027 U	0.0000019 U	0.0000027 U
1,2,3,7,8-PeCDF		0.0000034 M	0.0000018 U	0.0000015 U	0.0000017 U	0.000002 U	0.0000015 U	0.000002 U
2,3,4,6,7,8-HxCDF		0.0000014 U	0.000002 U	0.0000017 U	0.0000018 U	0.0000023 U	0.0000017 U	0.0000022 U
2,3,4,7,8-PeCDF		0.0000013 U	0.0000019 U	0.0000015 U	0.0000018 U	0.0000021 U	0.0000015 U	0.0000021 U
2,3,7,8-TCDD		0.0000015 U	0.000002 U	0.0000095	0.000002 U	0.0000024 U	0.0000017 U	0.0000023 U
2,3,7,8-TCDF		0.0000014 U	0.0000018 U	0.0000016 U	0.0000018 U	0.000002 U	0.0000015 U	0.000002 U
1998 Total TEQ w/ EMPC as ND		0.0000027406	0.0000036687	0.0000163438	0.0000036502	0.0000042121	0.000002983	0.0000041036

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	UGGW-EE-04	UGGW-EE-04-100FT	UGGW-EE-04-100FTFD	UGGW-EE-04-60FT	UGGW-EE-04FD	UGGW-EE-20	UGGW-EE-20-100FT
	Sample Date	10/13/99	01/27/00	01/27/00	10/13/99	10/13/99	10/18/99	01/25/00
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.00149 J	0.0000182 U	0.0000216 U	0.00489	0.000473	0.000152	0.00151
1,2,3,4,6,7,8,9-OCDF		0.0000976 J	0.0000148 U	0.0000176 U	0.00167	0.0000348	0.0000125 U	0.000231
1,2,3,4,6,7,8-HpCDD		0.0000333 J	0.0000089 U	0.0000121 U	0.00051	0.0000143	0.0000019 M	0.000111
1,2,3,4,6,7,8-HpCDF		0.0000118 JM	0.0000043 U	0.0000057 U	0.000234	0.0000008 U	0.0000027 M	0.0000258
1,2,3,4,7,8,9-HpCDF		0.0000018 U	0.0000062 U	0.0000081 U	0.0000144 M	0.0000011 U	0.0000032 U	0.0000046 U
1,2,3,4,7,8-HxCDD		0.0000019 U	0.000005 U	0.0000067 U	0.0000053 M	0.0000012 U	0.0000028 U	0.0000042 U
1,2,3,4,7,8-HxCDF		0.0000012 U	0.0000028 U	0.0000039 U	0.0000088 M	0.0000007 U	0.0000015 U	0.0000022 U
1,2,3,6,7,8-HxCDD		0.0000018 U	0.0000046 U	0.0000061 U	0.0000177	0.0000011 U	0.0000026 U	0.0000039 U
1,2,3,6,7,8-HxCDF		0.0000011 U	0.0000026 U	0.0000036 U	0.0000055	0.0000007 U	0.0000014 U	0.0000021 U
1,2,3,7,8,9-HxCDD		0.0000019 U	0.000005 U	0.0000066 U	0.0000174	0.0000011 U	0.0000028 U	0.0000041 U
1,2,3,7,8,9-HxCDF		0.0000014 U	0.0000033 U	0.0000046 U	0.0000015 U	0.0000008 U	0.0000017 U	0.0000026 U
1,2,3,7,8-PeCDD		0.000002 U	0.0000035 U	0.0000043 U	0.000003 M	0.0000015 U	0.0000035 U	0.0000033 U
1,2,3,7,8-PeCDF		0.0000015 U	0.000002 U	0.0000027 U	0.0000017 U	0.0000009 U	0.0000021 U	0.0000021 U
2,3,4,6,7,8-HxCDF		0.0000012 U	0.0000028 U	0.0000039 U	0.0000049 M	0.0000007 U	0.0000015 U	0.0000023 U
2,3,4,7,8-PeCDF		0.0000015 U	0.000002 U	0.0000028 U	0.0000017 U	0.0000009 U	0.0000022 U	0.0000021 U
2,3,7,8-TCDD		0.0000017 U	0.0000024 U	0.0000032 U	0.0000017 U	0.000001 U	0.0000019 U	0.0000025 U
2,3,7,8-TCDF		0.0000012 U	0.0000017 U	0.0000024 U	0.0000046	0.0000008 U	0.0000014 U	0.0000018 U
1998 Total TEQ w/ EMPC as ND		0.0000034073	0.0000049886	0.000006539	0.0000165305	0.0000020558	0.0000041423	0.0000062026

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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FXP File: D ABLEPR.FXP

Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-2g
Solutia
Sauget Area 1
Ground Water
Method 8290 PCDD/PCDF Data

	Sample ID	UGGW-EE-20-60FT	UGGW-EEG-108	UGGW-EEG-108-100FT	UGGW-EEG-108-60FT	UGGW-EEG-108-60FTEB	UGGW-EEG-108FD
	Sample Date	03/13/00	10/11/99	01/31/00	01/28/00	01/28/00	10/11/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,3,4,6,7,8,9-OCDD		0.000335	0.00069	0.0000056 U	0.0000191 U	0.0000106 U	0.000555
1,2,3,4,6,7,8,9-OCDF		0.000197	0.0000365 M	0.0000046 U	0.0000155 U	0.0000086 U	0.0000634
1,2,3,4,6,7,8-HpCDD		0.000056	0.0000192	0.0000033 U	0.0000095 U	0.0000058 U	0.0000183
1,2,3,4,6,7,8-HpCDF		0.0000336	0.0000015 U	0.0000016 U	0.0000046 U	0.0000029 U	0.0000166
1,2,3,4,7,8,9-HpCDF		0.0000103 M	0.0000021 U	0.0000024 U	0.0000066 U	0.0000041 U	0.0000041 U
1,2,3,4,7,8-HxCDD		0.0000048 U	0.0000019 U	0.0000022 U	0.0000049 U	0.0000037 U	0.0000033 U
1,2,3,4,7,8-HxCDF		0.0000101	0.0000011 U	0.0000013 U	0.000003 U	0.0000021 U	0.000002 U
1,2,3,6,7,8-HxCDD		0.0000047 U	0.0000018 U	0.000002 U	0.0000045 U	0.0000034 U	0.000003 U
1,2,3,6,7,8-HxCDF		0.000004 U	0.000001 U	0.0000012 U	0.0000027 U	0.000002 U	0.0000019 U
1,2,3,7,8,9-HxCDD		0.0000052 U	0.000002 U	0.0000021 U	0.0000049 U	0.0000036 U	0.0000035 U
1,2,3,7,8,9-HxCDF		0.0000051 U	0.0000012 U	0.0000015 U	0.0000035 U	0.0000025 U	0.0000023 U
1,2,3,7,8-PeCDD		0.0000044 U	0.0000027 U	0.0000017 U	0.0000032 U	0.0000029 U	0.0000043 U
1,2,3,7,8-PeCDF		0.0000035 U	0.0000014 U	0.0000012 U	0.0000021 U	0.0000019 U	0.0000025 U
2,3,4,6,7,8-HxCDF		0.0000043 U	0.000001 U	0.0000013 U	0.000003 U	0.0000021 U	0.000002 U
2,3,4,7,8-PeCDF		0.0000036 U	0.0000013 U	0.0000012 U	0.0000022 U	0.0000019 U	0.0000025 U
2,3,7,8-TCDD		0.0000047 U	0.0000015 U	0.0000012 U	0.0000021 U	0.0000022 U	0.0000022 U
2,3,7,8-TCDF		0.000004 U	0.0000011 U	0.000001 U	0.0000015 U	0.0000021 U	0.0000016 U
1998 Total TEQ w/ EMPC as ND		0.0000091532	0.0000032958	0.000002447	0.0000047578	0.0000042124	0.0000053488

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Summary Tables of Validated Analytical Data and Field/Equipment Blanks - Soil

APPENDIX C-3a

Soil – Volatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S1-3-6FT	DAS-T1-S2-0-0.5FT	DAS-T1-S2-3-6FT	DAS-T1-S3-0-0.5FT
	Sample Date	03/09/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
1,1,2,2-Tetrachloroethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
1,1,2-Trichloroethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
1,1-Dichloroethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
1,1-Dichloroethene		4.5 U	5.0 U	4.9 U	5.6 U	5.2 U	5.5 U	5.6 U
1,2-Dichloroethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
1,2-Dichloropropane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
2-Butanone (MEK)		24 U	19 J	27 U	30 U	32	30 U	30 U
2-Hexanone		24 U	27 U	27 U	30 U	28 U	30 U	30 U
4-Methyl-2-pentanone (MIBK)		24 U	27 U	27 U	30 U	28 U	30 U	30 U
Acetone		5.5 J	240	54 U	60 U	390	60 U	330
Benzene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Bromodichloromethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Bromoform		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Bromomethane		9.8 U	11 U	11 U	12 U	11 U	12 U	12 U
Carbon disulfide		4.9 U	5.5 U	5.4 U	6.0 U	2.6 J	6.0 U	6.1 U
Carbon tetrachloride		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Chlorobenzene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Chloroethane		9.8 U	11 U	11 U	12 U	11 U	12 U	12 U
Chloroform		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Chloromethane		9.8 U	11 U	11 U	12 U	11 U	12 U	12 U
Cis/Trans-1,2-Dichloroethene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Dibromochloromethane		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Ethylbenzene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Methylene chloride (Dichloromethane)		1.4 J	2.1 J	5.4 U	6.0 U	5.7 U	6.0 U	1.8 J
Styrene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Tetrachloroethene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Toluene		4.9 U	5.5 U	5.4 U	6.0 U	2.3 J	6.0 U	6.1 U
Trichloroethene		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
Vinyl chloride		9.8 U	11 U	11 U	12 U	11 U	12 U	12 U
Xylenes, Total		4.9 U	5.5 U	5.4 U	6.0 U	5.7 U	6.0 U	6.1 U
cis-1,3-Dichloropropene		3.9 U	4.4 U	4.3 U	4.8 U	4.5 U	4.8 U	4.8 U
trans-1,3-Dichloropropene		3.9 U	4.4 U	4.3 U	4.8 U	4.5 U	4.8 U	4.8 U
Total VOCs		6.9	261.1	ND	ND	426.9	ND	331.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
1,1,2,2-Tetrachloroethane		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
1,1,2-Trichloroethane		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
1,1-Dichloroethane		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
1,1-Dichloroethene		5.6 U	5.1 U	5.1 U	5.2 U	5.6 U	5.5 U	6.0 U
1,2-Dichloroethane		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
1,2-Dichloropropane		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
2-Butanone (MEK)		30 U	20 J	29	28 U	31 U	30 U	32 U
2-Hexanone		30 U	28 UJ	28 U	28 U	31 U	30 U	32 U
4-Methyl-2-pentanone (MIBK)		30 U	28 U	28 U	28 U	31 U	30 U	32 U
Acetone		60 U	240	350	57 U	61 U	60 U	25 J
Benzene		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Bromodichloromethane		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Bromoform		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Bromomethane		12 U	11 U	11 U	11 U	12 U	12 U	13 U
Carbon disulfide		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Carbon tetrachloride		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Chlorobenzene		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Chloroethane		12 U	11 U	11 U	11 U	12 U	12 U	13 U
Chloroform		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Chloromethane		12 U	11 U	11 U	11 U	12 U	12 U	13 U
Cis/Trans-1,2-Dichloroethene		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Dibromochloromethane		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Ethylbenzene		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Methylene chloride (Dichloromethane)		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Styrene		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Tetrachloroethene		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Toluene		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	4.8 J
Trichloroethene		6.0 U	5.5 U	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
Vinyl chloride		12 U	11 U	11 U	11 U	12 U	12 U	13 U
Xylenes, Total		6.0 U	5.5 UJ	5.6 U	5.7 U	6.1 U	6.0 U	6.5 U
cis-1,3-Dichloropropene		4.8 U	4.4 U	4.5 U	4.5 U	4.9 U	4.8 U	5.2 U
trans-1,3-Dichloropropene		4.8 U	4.4 U	4.5 U	4.5 U	4.9 U	4.8 U	5.2 U
Total VOCs		ND	260	379	ND	ND	ND	29.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/L	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,1,1-Trichloroethane	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
1,1,2,2-Tetrachloroethane	6.0 UJ	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
1,1,2-Trichloroethane	6.0 UJ	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
1,1-Dichloroethane	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
1,1-Dichloroethene	5.6 U	5.5 U	4.6 U	4.6 U	5.1 U	5.2 U	5.9 U
1,2-Dichloroethane	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
1,2-Dichloropropane	6.0 UJ	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
2-Butanone (MEK)	39 U	30 U	20 J	25 U	28 U	28 U	32 U
2-Hexanone	30 UJ	30 U	25 UJ	25 U	28 U	28 U	32 U
4-Methyl-2-pentanone (MIBK)	30 U	30 U	25 U	25 U	28 U	28 U	32 U
Acetone	460 J	220	160	50 U	55 U	56 U	64 U
Benzene	6.0 U	6.0 U	1.8 J	5.0 U	5.5 U	5.6 U	6.4 U
Bromodichloromethane	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Bromoform	6.0 UJ	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
Bromomethane	12 U	12 U	10 U	10 U	11 U	11 U	13 U
Carbon disulfide	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Carbon tetrachloride	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Chlorobenzene	6.0 U	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
Chloroethane	12 U	12 U	10 U	10 U	11 U	11 U	13 U
Chloroform	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Chloromethane	12 U	12 U	10 U	10 U	11 U	11 U	13 U
Cis/Trans-1,2-Dichloroethene	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Dibromochloromethane	6.0 UJ	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
Ethylbenzene	6.0 U	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
Methylene chloride (Dichloromethane)	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Styrene	6.0 U	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
Tetrachloroethene	6.0 U	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
Toluene	4.5 J	6.0 U	2.8 J	5.0 U	5.5 U	5.6 U	6.4 U
Trichloroethene	6.0 U	6.0 U	5.0 U	5.0 U	5.5 U	5.6 U	6.4 U
Vinyl chloride	12 U	12 U	10 U	10 U	11 U	11 U	13 U
Xylenes, Total	6.0 U	6.0 U	5.0 UJ	5.0 U	5.5 U	5.6 U	6.4 U
cis-1,3-Dichloropropene	4.8 U	4.8 U	4.0 U	4.0 U	4.4 U	4.5 U	5.1 U
trans-1,3-Dichloropropene	4.8 U	4.8 U	4.0 U	4.0 U	4.4 U	4.5 U	5.1 U
Total VOCs	464.5	220	184.6	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
1,1,1-Trichloroethane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
1,1,2,2-Tetrachloroethane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
1,1,2-Trichloroethane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
1,1-Dichloroethane		5.4 U	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
1,1-Dichloroethene		5.0 U	5.3 U	5.2 U	5.9 U	4.8 U	5.1 U	5.7 U
1,2-Dichloroethane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
1,2-Dichloropropane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
2-Butanone (MEK)		27 U	29 U	32 U	32 U	26 U	28 U	31 U
2-Hexanone		27 UJ	29 U	28 U	32 U	26 U	28 U	31 U
4-Methyl-2-pentanone (MIBK)		27 UJ	29 U	28 U	32 U	26 U	28 U	31 U
Acetone		54 U	58 U	420	64 U	220	56 U	48 J
Benzene		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Bromodichloromethane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Bromoform		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Bromomethane		11 U	12 U	11 U	13 U	10 U	11 U	12 U
Carbon disulfide		5.4 U	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Carbon tetrachloride		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Chlorobenzene		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Chloroethane		11 U	12 U	11 U	13 U	10 U	11 U	12 U
Chloroform		5.4 U	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Chloromethane		11 U	12 U	11 U	13 U	10 U	11 U	12 U
Cis/Trans-1,2-Dichloroethene		5.4 U	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Dibromochloromethane		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Ethylbenzene		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Methylene chloride (Dichloromethane)		5.4 U	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Styrene		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Tetrachloroethene		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Toluene		5.4 UJ	5.8 U	5.6 U	6.4 U	2.2 J	5.6 U	6.2 U
Trichloroethene		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
Vinyl chloride		11 U	12 U	11 U	13 U	10 U	11 U	12 U
Xylenes, Total		5.4 UJ	5.8 U	5.6 U	6.4 U	5.3 U	5.6 U	6.2 U
cis-1,3-Dichloropropene		4.3 UJ	4.6 U	4.5 U	5.2 U	4.2 U	4.5 U	4.9 U
trans-1,3-Dichloropropene		4.3 UJ	4.6 U	4.5 U	5.2 U	4.2 U	4.5 U	4.9 U
Total VOCs		ND	ND	420	ND	222.2	ND	48

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
	Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
1,1,2,2-Tetrachloroethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
1,1,2-Trichloroethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
1,1-Dichloroethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
1,1-Dichloroethene		4.8 U	5.0 U	5.5 U	5.3 U	5.2 U	5.9 U	6.6 U
1,2-Dichloroethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
1,2-Dichloropropane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
2-Butanone (MEK)		26 U	39 U	34 U	35 U	28 U	32 U	36 U
2-Hexanone		26 U	27 U	30 U	29 U	28 U	6.6 J	36 U
4-Methyl-2-pentanone (MIBK)		26 U	27 U	30 U	29 U	28 U	32 U	36 U
Acetone		40 J	340	310	480	140	350	72 U
Benzene		3.0 J	4.8 J	3.2 J	5.8 U	2.5 J	3.0 J	7.2 U
Bromodichloromethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Bromoform		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Bromomethane		10 U	11 U	12 U	12 U	11 U	13 U	14 U
Carbon disulfide		5.2 U	5.4 U	4.9 J	4.3 J	7.8	6.4 U	7.2 U
Carbon tetrachloride		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Chlorobenzene		5.2 U	5.4 U	5.9 U	5.8 U	10	4.0 J	7.2 U
Chloroethane		10 U	11 U	12 U	12 U	11 U	13 U	14 U
Chloroform		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Chloromethane		10 U	11 U	12 U	12 U	11 U	13 U	14 U
Cis/Trans-1,2-Dichloroethene		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Dibromochloromethane		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Ethylbenzene		5.2 U	3.0 J	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Methylene chloride (Dichloromethane)		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Styrene		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Tetrachloroethene		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Toluene		6.6	8.8	5.4 J	2.2 J	5.7 U	3.2 J	7.2 U
Trichloroethene		5.2 U	5.4 U	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
Vinyl chloride		10 U	11 U	12 U	12 U	11 U	13 U	14 U
Xylenes, Total		4.3 J	4.2 J	5.9 U	5.8 U	5.7 U	6.4 U	7.2 U
cis-1,3-Dichloropropene		4.2 U	4.3 U	4.7 U	4.6 U	4.5 U	5.1 U	5.7 U
trans-1,3-Dichloropropene		4.2 U	4.3 U	4.7 U	4.6 U	4.5 U	5.1 U	5.7 U
Total VOCs		53.9	360.8	323.5	486.5	160.3	366.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
1,1,1-Trichloroethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
1,1,2,2-Tetrachloroethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
1,1,2-Trichloroethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
1,1-Dichloroethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
1,1-Dichloroethene		5.6 U	6.3 U	5.6 U	5.7 U	5.3 U	8.9 U	4.4 U
1,2-Dichloroethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
1,2-Dichloropropane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
2-Butanone (MEK)		56 U	34 U	30 U	31 U	29 U	48 U	24 U
2-Hexanone		31 U	34 U	30 U	31 U	29 U	48 U	24 U
4-Methyl-2-pentanone (MIBK)		31 U	34 U	30 U	31 U	29 U	48 U	24 U
Acetone		440	69 U	60 U	62 U	57 U	97 U	48 U
Benzene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Bromodichloromethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Bromoform		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Bromomethane		12 U	14 U	12 U	12 U	11 U	19 U	9.7 U
Carbon disulfide		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Carbon tetrachloride		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Chlorobenzene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Chloroethane		12 U	14 U	12 U	12 U	11 U	19 U	9.7 U
Chloroform		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Chloromethane		12 U	14 U	12 U	12 U	11 U	19 U	9.7 U
Cis/Trans-1,2-Dichloroethene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Dibromochloromethane		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Ethylbenzene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Methylene chloride (Dichloromethane)		6.1 U	2.4 J	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Styrene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Tetrachloroethene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Toluene		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
Trichloroethene		6.1 U	6.9 U	6.2	4.9 J	4.0 J	7.4 J	3.8 J
Vinyl chloride		12 U	14 U	12 U	12 U	11 U	19 U	9.7 U
Xylenes, Total		6.1 U	6.9 U	6.0 U	6.2 U	5.7 U	9.7 U	4.8 U
cis-1,3-Dichloropropene		4.9 U	5.5 U	4.8 U	4.9 U	4.6 U	7.8 U	3.9 U
trans-1,3-Dichloropropene		4.9 U	5.5 U	4.8 U	4.9 U	4.6 U	7.8 U	3.9 U
Total VOCs		440	2.4	6.2	4.9	4	7.4	3.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
1,1,2,2-Tetrachloroethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
1,1,2-Trichloroethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
1,1-Dichloroethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
1,1-Dichloroethene		4.5 U	5.6 U	5.4 U	5.7 U	5.0 U	6.6 U	5.2 U
1,2-Dichloroethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
1,2-Dichloropropane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
2-Butanone (MEK)		24 U	30 U	29 U	31 U	25 U	36 U	28 U
2-Hexanone		24 U	30 U	29 U	31 U	25 U	36 U	28 U
4-Methyl-2-pentanone (MIBK)		24 U	30 U	29 U	31 U	25 U	36 U	28 U
Acetone		48 U	60 U	59 U	62 U	50 U	71 U	56 U
Benzene		4.8 U	6.0 U	5.9 U	6.2 U	1.2 U	7.1 U	5.6 U
Bromodichloromethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Bromoform		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Bromomethane		9.7 U	12 U	12 U	12 U	9.8 U	14 U	11 U
Carbon disulfide		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Carbon tetrachloride		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Chlorobenzene		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Chloroethane		9.7 U	12 U	12 U	12 U	10 U	14 U	11 U
Chloroform		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Chloromethane		9.7 U	12 U	12 U	12 U	10 U	14 U	11 U
Cis/Trans-1,2-Dichloroethene		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Dibromochloromethane		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Ethylbenzene		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Methylene chloride (Dichloromethane)		4.8 U	6.0 U	5.9 U	6.2 U	4.7 U	7.1 U	5.6 U
Styrene		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Tetrachloroethene		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Toluene		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
Trichloroethene		2.8 J	6.0 U	5.9 U	6.2 U	2.7 U	7.1 U	5.6 U
Vinyl chloride		9.7 U	12 U	12 U	12 U	10 U	14 U	11 U
Xylenes, Total		4.8 U	6.0 U	5.9 U	6.2 U	5.0 U	7.1 U	5.6 U
cis-1,3-Dichloropropene		3.9 U	4.8 U	4.7 U	4.9 U	1.0 U	5.7 U	4.5 U
trans-1,3-Dichloropropene		3.9 U	4.8 U	4.7 U	4.9 U	5.0 U	5.7 U	4.5 U
Total VOCs		2.8	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg
Compound							
1,1,1-Trichloroethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
1,1,2,2-Tetrachloroethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
1,1,2-Trichloroethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
1,1-Dichloroethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
1,1-Dichloroethene	5.0 U	6.0 U	5.3 U	5.0 U	4.8 U	5.9 U	6.4 U
1,2-Dichloroethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
1,2-Dichloropropane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
2-Butanone (MEK)	25 U	33 U	29 U	27 U	22 J	32 U	34 J
2-Hexanone	25 U	33 U	4.8 J	27 U	26 U	32 U	35 U
4-Methyl-2-pentanone (MIBK)	25 U	33 U	29 U	27 U	26 U	32 U	35 U
Acetone	50 U	65 U	58 U	55 U	220	64 U	440
Benzene	1.2 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Bromodichloromethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Bromoform	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Bromomethane	9.8 U	13 U	12 U	11 U	10 U	13 U	14 U
Carbon disulfide	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Carbon tetrachloride	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Chlorobenzene	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Chloroethane	10 U	13 U	12 U	11 U	10 U	13 U	14 U
Chloroform	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Chloromethane	10 U	13 U	12 U	11 U	10 U	13 U	14 U
Cis/Trans-1,2-Dichloroethene	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Dibromochloromethane	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Ethylbenzene	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Methylene chloride (Dichloromethane)	4.7 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Styrene	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Tetrachloroethene	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Toluene	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Trichloroethene	2.7 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
Vinyl chloride	10 U	13 U	12 U	11 U	10 U	13 U	14 U
Xylenes, Total	5.0 U	6.5 U	5.8 U	5.5 U	5.2 U	6.4 U	7.0 U
cis-1,3-Dichloropropene	1.0 U	5.2 U	4.6 U	4.4 U	4.2 U	5.1 U	5.6 U
trans-1,3-Dichloropropene	5.0 U	5.2 U	4.6 U	4.4 U	4.2 U	5.1 U	5.6 U
Total VOCs	ND	ND	4.8	ND	242	ND	474

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
1,1,2,2-Tetrachloroethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
1,1,2-Trichloroethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
1,1-Dichloroethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
1,1-Dichloroethene		5.0 U	5.2 U	6.5 U	6.0 U	7.9 U	5.6 U	4.8 U
1,2-Dichloroethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
1,2-Dichloropropane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
2-Butanone (MEK)		27 U	30	35 U	25 J	43 U	31 U	26 U
2-Hexanone		27 U	28 U	35 U	32 U	43 U	31 U	26 U
4-Methyl-2-pentanone (MIBK)		27 U	28 U	35 U	32 U	43 U	31 U	26 U
Acetone		54 U	280 J	70 UJ	450	86 U	61 U	52 U
Benzene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Bromodichloromethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Bromoform		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Bromomethane		11 U	11 U	14 U	13 U	17 U	12 U	10 U
Carbon disulfide		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Carbon tetrachloride		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Chlorobenzene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Chloroethane		11 U	11 U	14 U	13 U	17 U	12 U	10 U
Chloroform		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Chloromethane		11 U	11 U	14 U	13 U	17 U	12 U	10 U
Cis/Trans-1,2-Dichloroethene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Dibromochloromethane		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Ethylbenzene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Methylene chloride (Dichloromethane)		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Styrene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Tetrachloroethene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Toluene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Trichloroethene		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
Vinyl chloride		11 U	11 U	14 U	13 U	17 U	12 U	10 U
Xylenes, Total		5.4 U	5.7 U	7.0 U	6.5 U	8.6 U	6.1 U	5.2 U
cis-1,3-Dichloropropene		4.3 U	4.5 U	5.6 U	5.2 U	6.8 U	4.9 U	4.2 U
trans-1,3-Dichloropropene		4.3 U	4.5 U	5.6 U	5.2 U	6.8 U	4.9 U	4.2 U
Total VOCs		ND	310	ND	475	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
1,1,1-Trichloroethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
1,1,2,2-Tetrachloroethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
1,1,2-Trichloroethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
1,1-Dichloroethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
1,1-Dichloroethene		5.4 U	6.9 U	4.6 U	5.8 U	5.8 U	5.6 U	6.1 U
1,2-Dichloroethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
1,2-Dichloropropane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
2-Butanone (MEK)		29 U	38 U	25	32 U	56	38	33 U
2-Hexanone		29 U	38 U	25 U	32 U	32 U	30 U	33 U
4-Methyl-2-pentanone (MIBK)		29 U	38 U	25 U	32 U	32 U	30 U	33 U
Acetone		59 U	75 U	280	63 U	780	560	66 U
Benzene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Bromodichloromethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Bromoform		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Bromomethane		12 U	15 U	9.9 U	13 U	13 U	12 U	13 U
Carbon disulfide		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Carbon tetrachloride		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Chlorobenzene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Chloroethane		12 U	15 U	9.9 U	13 U	13 U	12 U	13 U
Chloroform		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Chloromethane		12 U	15 U	9.9 U	13 U	13 U	12 U	13 U
Cis/Trans-1,2-Dichloroethene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Dibromochloromethane		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Ethylbenzene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Methylene chloride (Dichloromethane)		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Styrene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Tetrachloroethene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Toluene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Trichloroethene		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
Vinyl chloride		12 U	15 U	9.9 U	13 U	13 U	12 U	13 U
Xylenes, Total		5.9 U	7.5 U	5.0 U	6.3 U	6.3 U	6.0 U	6.6 U
cis-1,3-Dichloropropene		4.7 U	6.0 U	4.0 U	5.1 U	5.0 U	4.8 U	5.3 U
trans-1,3-Dichloropropene		4.7 U	6.0 U	4.0 U	5.1 U	5.0 U	4.8 U	5.3 U
Total VOCs		ND	ND	305	ND	836	598	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
1,1,2,2-Tetrachloroethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
1,1,2-Trichloroethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
1,1-Dichloroethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
1,1-Dichloroethene		5.0 U	5.3 U	5.5 U	5.0 U	5.0 U	4.5 U	5.6 U
1,2-Dichloroethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
1,2-Dichloropropane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
2-Butanone (MEK)		27 U	34	30 U	45	25 U	24 J	38
2-Hexanone		27 U	29 U	30 U	27 U	25 U	24 U	6.9 J
4-Methyl-2-pentanone (MIBK)		27 U	29 U	30 U	27 U	25 U	24 U	30 U
Acetone		54 U	450	60 U	550	13 J	180	580
Benzene		5.4 U	5.7 U	6.0 U	5.4 U	1.2 U	4.9 U	2.1 J
Bromodichloromethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Bromoform		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Bromomethane		11 U	11 U	12 U	11 U	9.8 U	9.7 U	12 U
Carbon disulfide		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Carbon tetrachloride		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Chlorobenzene		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Chloroethane		11 U	11 U	12 U	11 U	10 U	9.7 U	12 U
Chloroform		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Chloromethane		11 U	11 U	12 U	11 U	10 U	9.7 U	12 U
Cis/Trans-1,2-Dichloroethene		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Dibromochloromethane		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Ethylbenzene		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Methylene chloride (Dichloromethane)		5.4 U	5.7 U	6.0 U	5.4 U	0.55 J	4.9 U	6.1 U
Styrene		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Tetrachloroethene		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
Toluene		5.4 U	5.3 J	6.0 U	2.5 J	5.0 U	4.9 U	3.9 J
Trichloroethene		5.4 U	5.7 U	6.0 U	5.4 U	2.7 U	4.9 U	6.1 U
Vinyl chloride		11 U	11 U	12 U	11 U	10 U	9.7 U	12 U
Xylenes, Total		5.4 U	5.7 U	6.0 U	5.4 U	5.0 U	4.9 U	6.1 U
cis-1,3-Dichloropropene		4.3 U	4.6 U	4.8 U	4.3 U	1.0 U	3.9 U	4.9 U
trans-1,3-Dichloropropene		4.3 U	4.6 U	4.8 U	4.3 U	5.0 U	3.9 U	4.9 U
Total VOCs		ND	489.3	ND	597.5	13.55	204	630.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
1,1,2,2-Tetrachloroethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
1,1,2-Trichloroethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
1,1-Dichloroethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
1,1-Dichloroethene		5.6 U	5.4 U	6.5 U	5.0 U	6.7 U	6.9 U	4.2 U
1,2-Dichloroethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
1,2-Dichloropropane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
2-Butanone (MEK)		30 U	30	35 U	25 U	36 U	38 U	23 U
2-Hexanone		30 U	29 U	35 U	25 U	36 U	38 U	23 U
4-Methyl-2-pentanone (MIBK)		30 U	29 U	35 U	25 U	36 U	38 U	23 U
Acetone		61 U	430	70 U	50 U	73 U	7.2 J	46 U
Benzene		6.1 U	5.8 U	7.0 U	1.2 U	7.3 U	7.5 U	4.6 U
Bromodichloromethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Bromoform		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Bromomethane		12 U	12 U	14 U	9.8 U	14 U	15 U	9.2 U
Carbon disulfide		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Carbon tetrachloride		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Chlorobenzene		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Chloroethane		12 U	12 U	14 U	10 U	14 U	15 U	9.2 U
Chloroform		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Chloromethane		12 U	12 U	14 U	10 U	14 U	15 U	9.2 U
Cis/Trans-1,2-Dichloroethene		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Dibromochloromethane		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Ethylbenzene		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Methylene chloride (Dichloromethane)		6.1 U	5.8 U	7.0 U	0.54 J	7.3 U	7.5 U	4.6 U
Styrene		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Tetrachloroethene		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Toluene		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
Trichloroethene		6.1 U	5.8 U	7.0 U	2.7 U	7.3 U	7.5 U	4.6 U
Vinyl chloride		12 U	12 U	14 U	10 U	14 U	15 U	9.2 U
Xylenes, Total		6.1 U	5.8 U	7.0 U	5.0 U	7.3 U	7.5 U	4.6 U
cis-1,3-Dichloropropene		4.9 U	4.7 U	5.6 U	1.0 U	5.8 U	6.0 U	3.7 U
trans-1,3-Dichloropropene		4.9 U	4.7 U	5.6 U	5.0 U	5.8 U	6.0 U	3.7 U
Total VOCs		ND	460	ND	0.54	ND	7.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
1,1,2,2-Tetrachloroethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
1,1,2-Trichloroethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
1,1-Dichloroethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
1,1-Dichloroethene		5.7 U	5.6 U	3.7 U	5.2 U	4.1 U	4.5 U	4.5 U
1,2-Dichloroethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
1,2-Dichloropropane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
2-Butanone (MEK)		31 U	30 U	20 U	28 U	22 U	24 U	5.7 J
2-Hexanone		31 U	30 U	20 U	28 U	22 U	24 U	24 U
4-Methyl-2-pentanone (MIBK)		31 U	30 U	20 U	28 U	22 U	24 U	24 U
Acetone		36 J	60 U	40 U	56 U	45 U	49 U	86
Benzene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Bromodichloromethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Bromoform		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Bromomethane		12 U	12 U	8.0 U	11 U	8.9 U	9.7 U	9.7 U
Carbon disulfide		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Carbon tetrachloride		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Chlorobenzene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Chloroethane		12 U	12 U	8.0 U	11 U	8.9 U	9.7 U	9.7 U
Chloroform		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Chloromethane		12 U	12 U	8.0 U	11 U	8.9 U	9.7 U	9.7 U
Cis/Trans-1,2-Dichloroethene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Dibromochloromethane		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Ethylbenzene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Methylene chloride (Dichloromethane)		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Styrene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Tetrachloroethene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Toluene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Trichloroethene		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
Vinyl chloride		12 U	12 U	8.0 U	11 U	8.9 U	9.7 U	9.7 U
Xylenes, Total		6.2 U	6.0 U	4.0 U	5.6 U	4.5 U	4.9 U	4.9 U
cis-1,3-Dichloropropene		4.9 U	4.8 U	3.2 U	4.5 U	3.6 U	3.9 U	3.9 U
trans-1,3-Dichloropropene		4.9 U	4.8 U	3.2 U	4.5 U	3.6 U	3.9 U	3.9 U
Total VOCs		36	ND	ND	ND	ND	ND	91.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T4-S5-0-0.5FT	UAS-T4-S5-3-6FT	UAS-T4-S6-0-0.5FT	UAS-T4-S6-3-6FT	UAS-T4-S7-0-0.5FT	UAS-T4-S7-3-6FT	UAS-T5-S1-0-0.5FT
	Sample Date	11/16/99	11/16/99	11/16/99	11/16/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
1,1,2,2-Tetrachloroethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
1,1,2-Trichloroethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
1,1-Dichloroethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
1,1-Dichloroethene		3.8 U	5.6 U	4.8 U	5.3 U	5.1 U	5.4 U	5.4 U
1,2-Dichloroethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
1,2-Dichloropropane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
2-Butanone (MEK)		20 U	30 U	26 U	29 U	28 U	29 U	34
2-Hexanone		20 U	30 U	26 U	29 U	28 U	29 U	30 U
4-Methyl-2-pentanone (MIBK)		20 U	30 U	26 U	29 U	28 U	29 U	30 U
Acetone		41 U	60 U	52 U	57 U	55 U	58 U	460
Benzene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Bromodichloromethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Bromoform		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Bromomethane		8.2 U	12 U	10 U	11 U	11 U	12 U	12 U
Carbon disulfide		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Carbon tetrachloride		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Chlorobenzene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Chloroethane		8.2 U	12 U	10 U	11 U	11 U	12 U	12 U
Chloroform		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Chloromethane		8.2 U	12 U	10 U	11 U	11 U	12 U	12 U
Cis/Trans-1,2-Dichloroethene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Dibromochloromethane		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Ethylbenzene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Methylene chloride (Dichloromethane)		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Styrene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Tetrachloroethene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Toluene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Trichloroethene		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
Vinyl chloride		8.2 U	12 U	10 U	11 U	11 U	12 U	12 U
Xylenes, Total		4.1 U	6.0 U	5.2 U	5.7 U	5.5 U	5.8 U	5.9 U
cis-1,3-Dichloropropene		3.3 U	4.8 U	4.2 U	4.6 U	4.4 U	4.7 U	4.7 U
trans-1,3-Dichloropropene		3.3 U	4.8 U	4.2 U	4.6 U	4.4 U	4.7 U	4.7 U
Total VOCs		ND	ND	ND	ND	ND	ND	494

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T5-S1-3-6FT	UAS-T5-S2-0-0.5FT	UAS-T5-S2-3-6FT	UAS-T5-S3-0-0.5FT	UAS-T5-S3-3-6FT	UAS-T5-S4-0-0.5FT	UAS-T5-S4-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
1,1,2,2-Tetrachloroethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
1,1,2-Trichloroethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
1,1-Dichloroethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
1,1-Dichloroethene		5.9 U	5.0 U	5.9 U	5.0 U	5.6 U	6.0 U	4.4 U
1,2-Dichloroethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
1,2-Dichloropropane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
2-Butanone (MEK)		32 U	19 J	32 U	14 J	31 U	24 J	13 J
2-Hexanone		32 U	27 U	32 U	27 U	31 U	33 U	24 U
4-Methyl-2-pentanone (MIBK)		32 U	27 U	32 U	27 U	31 U	33 U	24 U
Acetone		64 U	170	64 U	160	61 U	180	140
Benzene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	0.98 J
Bromodichloromethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Bromoform		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Bromomethane		13 U	11 U	13 U	11 U	12 U	13 U	9.6 U
Carbon disulfide		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Carbon tetrachloride		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Chlorobenzene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Chloroethane		13 U	11 U	13 U	11 U	12 U	13 U	9.6 U
Chloroform		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Chloromethane		13 U	11 U	13 U	11 U	12 U	13 U	9.6 U
Cis/Trans-1,2-Dichloroethene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Dibromochloromethane		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Ethylbenzene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Methylene chloride (Dichloromethane)		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Styrene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Tetrachloroethene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Toluene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	1.8 J
Trichloroethene		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
Vinyl chloride		13 U	11 U	13 U	11 U	12 U	13 U	9.6 U
Xylenes, Total		6.4 U	5.4 U	6.4 U	5.4 U	6.1 U	6.5 U	4.8 U
cis-1,3-Dichloropropene		5.1 U	4.4 U	5.2 U	4.3 U	4.9 U	5.2 U	3.8 U
trans-1,3-Dichloropropene		5.1 U	4.4 U	5.2 U	4.3 U	4.9 U	5.2 U	3.8 U
Total VOCs		ND	189	ND	174	ND	204	155.78

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0.5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
1,1,1-Trichloroethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
1,1,2,2-Tetrachloroethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
1,1,2-Trichloroethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
1,1-Dichloroethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
1,1-Dichloroethene		4.8 U	5.0 U	5.6 U	5.0 U	4.8 U	4.9 U	5.0 U
1,2-Dichloroethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
1,2-Dichloropropane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
2-Butanone (MEK)		26 U	25 U	30 U	25 U	26 U	26 U	27 U
2-Hexanone		26 U	25 U	30 U	25 U	26 U	26 U	27 U
4-Methyl-2-pentanone (MIBK)		26 U	25 U	30 U	25 U	26 U	26 U	27 U
Acetone		52 U	50 U	60 U	50 U	52 U	53 U	54 U
Benzene		5.2 U	1.2 U	6.0 U	1.2 U	5.2 U	5.3 U	5.4 U
Bromodichloromethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Bromoform		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Bromomethane		10 U	9.8 U	12 U	9.8 U	10 U	11 U	11 U
Carbon disulfide		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Carbon tetrachloride		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Chlorobenzene		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Chloroethane		10 U	10 U	12 U	10 U	10 U	11 U	11 U
Chloroform		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Chloromethane		10 U	10 U	12 U	10 U	10 U	11 U	11 U
Cis/Trans-1,2-Dichloroethene		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Dibromochloromethane		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Ethylbenzene		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Methylene chloride (Dichloromethane)		5.2 U	0.58 J	6.0 U	0.53 J	5.2 U	5.3 U	5.4 U
Styrene		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Tetrachloroethene		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Toluene		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
Trichloroethene		5.2 U	2.7 U	6.0 U	2.7 U	5.2 U	5.3 U	5.4 U
Vinyl chloride		10 U	10 U	12 U	10 U	10 U	11 U	11 U
Xylenes, Total		5.2 U	5.0 U	6.0 U	5.0 U	5.2 U	5.3 U	5.4 U
cis-1,3-Dichloropropene		4.2 U	1.0 U	4.8 U	1.0 U	4.2 U	4.2 U	4.3 U
trans-1,3-Dichloropropene		4.2 U	5.0 U	4.8 U	5.0 U	4.2 U	4.2 U	4.3 U
Total VOCs		ND	0.58	ND	0.53	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
1,1,1-Trichloroethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
1,1,2,2-Tetrachloroethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
1,1,2-Trichloroethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
1,1-Dichloroethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
1,1-Dichloroethene		4.7 U	6.6 U	7.6 U	5.2 U	5.2 U	4.9 U	5.0 U
1,2-Dichloroethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
1,2-Dichloropropane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
2-Butanone (MEK)		26 U	36 U	41 U	28 U	28 U	26 U	25 U
2-Hexanone		26 U	36 U	41 U	28 U	3.5 J	26 U	25 U
4-Methyl-2-pentanone (MIBK)		26 U	36 U	41 U	28 U	28 U	26 U	25 U
Acetone		51 U	72 U	83 U	56 U	56 U	53 U	50 U
Benzene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	1.2 U
Bromodichloromethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Bromoform		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Bromomethane		10 U	14 U	16 U	11 U	11 U	10 U	9.8 U
Carbon disulfide		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Carbon tetrachloride		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Chlorobenzene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Chloroethane		10 U	14 U	16 U	11 U	11 U	10 U	10 U
Chloroform		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Chloromethane		10 U	14 U	16 U	11 U	11 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Dibromochloromethane		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Ethylbenzene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Methylene chloride (Dichloromethane)		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	1.7 J
Styrene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Tetrachloroethene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Toluene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
Trichloroethene		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	2.7 U
Vinyl chloride		10 U	14 U	16 U	11 U	11 U	10 U	10 U
Xylenes, Total		5.1 U	7.2 U	8.3 U	5.6 U	5.6 U	5.3 U	5.0 U
cis-1,3-Dichloropropene		4.1 U	5.7 U	6.6 U	4.5 U	4.5 U	4.2 U	1.0 U
trans-1,3-Dichloropropene		4.1 U	5.7 U	6.6 U	4.5 U	4.5 U	4.2 U	5.0 U
Total VOCs		ND	ND	ND	ND	3.5	ND	1.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

Compound	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
1,1,1-Trichloroethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
1,1,2,2-Tetrachloroethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
1,1,2-Trichloroethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
1,1-Dichloroethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
1,1-Dichloroethene		6.0 U	5.0 U	5.0 U	4.4 U	5.7 U	5.3 U	7.7 U
1,2-Dichloroethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
1,2-Dichloropropane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
2-Butanone (MEK)		33 U	25 U	27 U	24 U	31 U	29 U	42 U
2-Hexanone		33 U	25 U	27 U	24 U	31 U	29 U	42 U
4-Methyl-2-pentanone (MIBK)		33 U	25 U	27 U	24 U	31 U	29 U	42 U
Acetone		65 U	50 U	54 U	48 U	62 U	57 U	83 U
Benzene		6.5 U	1.2 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Bromodichloromethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Bromoform		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Bromomethane		13 U	9.8 U	11 U	9.6 U	12 U	11 U	17 U
Carbon disulfide		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Carbon tetrachloride		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Chlorobenzene		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Chloroethane		13 U	10 U	11 U	9.6 U	12 U	11 U	17 U
Chloroform		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Chloromethane		13 U	10 U	11 U	9.6 U	12 U	11 U	17 U
Cis/Trans-1,2-Dichloroethene		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Dibromochloromethane		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Ethylbenzene		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Methylene chloride (Dichloromethane)		6.5 U	1.7 J	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Styrene		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Tetrachloroethene		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Toluene		2.8 J	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Trichloroethene		6.5 U	2.7 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
Vinyl chloride		13 U	10 U	11 U	9.6 U	12 U	11 U	17 U
Xylenes, Total		6.5 U	5.0 U	5.4 U	4.8 U	6.2 U	5.7 U	8.3 U
cis-1,3-Dichloropropene		5.2 U	1.0 U	4.3 U	3.8 U	4.9 U	4.6 U	6.7 U
trans-1,3-Dichloropropene		5.2 U	5.0 U	4.3 U	3.8 U	4.9 U	4.6 U	6.7 U
Total VOCs		2.8	1.7	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
1,1,2,2-Tetrachloroethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
1,1,2-Trichloroethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
1,1-Dichloroethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
1,1-Dichloroethene		5.9 U	5.7 U	7.5 U	4.8 U	4.7 U	5.7 U	6.6 U
1,2-Dichloroethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
1,2-Dichloropropane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
2-Butanone (MEK)		12 J	37	41 U	20 J	26 U	31 U	36 U
2-Hexanone		32 U	31 U	41 U	26 U	26 U	31 U	36 U
4-Methyl-2-pentanone (MIBK)		32 U	31 U	41 U	26 U	26 U	31 U	36 U
Acetone		140	500	81 U	270	51 U	62 U	71 U
Benzene		6.4 U	2.1 J	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Bromodichloromethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Bromoform		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Bromomethane		13 U	12 U	16 U	10 U	10 U	12 U	14 U
Carbon disulfide		5.0 J	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Carbon tetrachloride		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Chlorobenzene		4.0 J	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Chloroethane		13 U	12 U	16 U	10 U	10 U	12 U	14 U
Chloroform		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Chloromethane		13 U	12 U	16 U	10 U	10 U	12 U	14 U
Cis/Trans-1,2-Dichloroethene		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Dibromochloromethane		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Ethylbeazene		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Methylene chloride (Dichloromethane)		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Styrene		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Tetrachloroethene		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Toluene		6.4 U	12	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Trichloroethene		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
Vinyl chloride		13 U	12 U	16 U	10 U	10 U	12 U	14 U
Xylenes, Total		6.4 U	6.2 U	8.1 U	5.2 U	5.1 U	6.2 U	7.1 U
cis-1,3-Dichloropropene		5.1 U	4.9 U	6.5 U	4.2 U	4.1 U	4.9 U	5.7 U
trans-1,3-Dichloropropene		5.1 U	4.9 U	6.5 U	4.2 U	4.1 U	4.9 U	5.7 U
Total VOCs		161	551.1	ND	290	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound								
1,1,1-Trichloroethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
1,1,2,2-Tetrachloroethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
1,1,2-Trichloroethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
1,1-Dichloroethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
1,1-Dichloroethene		4.6 U	5.0 U	5.0 U	6.2 U	6.8 U	5.0 U	5.9 U
1,2-Dichloroethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
1,2-Dichloropropane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
2-Butanone (MEK)		25 U	27 U	9.1 J	34 U	37 U	25 U	32 U
2-Hexanone		25 U	27 U	27 U	34 U	37 U	25 U	32 U
4-Methyl-2-pentanone (MIBK)		25 U	27 U	27 U	34 U	37 U	25 U	32 U
Acetone		50 U	54 U	68 J	68 U	74 U	50 U	64 U
Benzene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	1.2 U	6.4 U
Bromodichloromethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Bromoform		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Bromomethane		10 U	11 U	11 U	14 U	15 U	9.8 U	13 U
Carbon disulfide		5.0 U	5.4 U	2.7 J	6.8 U	7.4 U	5.0 U	6.4 U
Carbon tetrachloride		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Chlorobenzene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Chloroethane		10 U	11 U	11 U	14 U	15 U	10 U	13 U
Chloroform		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Chloromethane		10 U	11 U	11 U	14 U	15 U	10 U	13 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Dibromochloromethane		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Ethylbenzene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Methylene chloride (Dichloromethane)		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	4.7 U	6.4 U
Styrene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Tetrachloroethene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
Toluene		5.0 U	5.4 U	3.4 J	6.8 U	7.4 U	5.0 U	6.4 U
Trichloroethene		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	2.7 U	6.4 U
Vinyl chloride		10 U	11 U	11 U	14 U	15 U	10 U	13 U
Xylenes, Total		5.0 U	5.4 U	5.4 U	6.8 U	7.4 U	5.0 U	6.4 U
cis-1,3-Dichloropropene		4.0 U	4.4 U	4.3 U	5.4 U	5.9 U	1.0 U	5.1 U
trans-1,3-Dichloropropene		4.0 U	4.4 U	4.3 U	5.4 U	5.9 U	5.0 U	5.1 U
Total VOCs		ND	ND	83.2	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8260B Volatile Organic Compound Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg dw	ug/kg dw
Compound				
1,1,1-Trichloroethane		5.0 U	5.6 UJ	6.6 U
1,1,2,2-Tetrachloroethane		5.0 U	5.6 UJ	6.6 U
1,1,2-Trichloroethane		5.0 U	5.6 UJ	6.6 U
1,1-Dichloroethane		5.0 U	5.6 UJ	6.6 U
1,1-Dichloroethene		5.0 U	5.1 UJ	6.1 U
1,2-Dichloroethane		5.0 U	5.6 UJ	6.6 U
1,2-Dichloropropane		5.0 U	5.6 UJ	6.6 U
2-Butanone (MEK)		25 U	28 UJ	7.0 J
2-Hexanone		25 U	28 UJ	33 U
4-Methyl-2-pentanone (MIBK)		25 U	28 UJ	33 U
Acetone		50 U	56 UJ	66 U
Benzene		1.2 U	5.6 UJ	6.6 U
Bromodichloromethane		5.0 U	5.6 UJ	6.6 U
Bromoform		5.0 U	5.6 UJ	6.6 U
Bromomethane		9.8 U	11 UJ	13 U
Carbon disulfide		5.0 U	5.6 UJ	6.6 U
Carbon tetrachloride		5.0 U	5.6 UJ	6.6 U
Chlorobenzene		5.0 U	5.6 UJ	6.6 U
Chloroethane		10 U	11 UJ	13 U
Chloroform		5.0 U	5.6 UJ	6.6 U
Chloromethane		10 U	11 UJ	13 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.6 UJ	6.6 U
Dibromochloromethane		5.0 U	5.6 UJ	6.6 U
Ethylbenzene		5.0 U	5.6 UJ	6.6 U
Methylene chloride (Dichloromethane)		4.7 U	5.6 UJ	6.6 U
Styrene		5.0 U	5.6 UJ	6.6 U
Tetrachloroethene		5.0 U	5.6 UJ	6.6 U
Toluene		2.4 J	5.6 UJ	6.6 U
Trichloroethene		2.7 U	2.6 J	6.6 U
Vinyl chloride		10 U	11 UJ	13 U
Xylenes, Total		5.0 U	5.6 UJ	6.6 U
cis-1,3-Dichloropropene		1.0 U	4.4 UJ	5.3 U
trans-1,3-Dichloropropene		5.0 U	4.4 UJ	5.3 U
Total VOCs		2.4	2.6	7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-3b

Soil – Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	BS-EE-04-0-0.5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0.5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0.5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
1,2,4-Trichlorobenzene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
1,2-Dichlorobenzene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
1,3-Dichlorobenzene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
1,4-Dichlorobenzene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2,2'-Oxybis(1-Chloropropane)		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2,4,5-Trichlorophenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2,4,6-Trichlorophenol		220 U	230 U	220 U	210 U	200 U	200 U	2.1 U
2,4-Dichlorophenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2,4-Dinitrophenol		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	14 U
2,4-Dinitrotoluene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2,6-Dinitrotoluene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2-Chloronaphthalene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2-Chlorophenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2-Methylnaphthalene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2-Methylphenol (o-cresol)		220 U	230 U	220 U	210 U	200 U	200 U	10 U
2-Nitroaniline		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	50 U
2-Nitrophenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
3,3'-Dichlorobenzidine		430 U	440 U	430 U	410 U	390 U	400 U	20 U
3-Methylphenol/4-Methylphenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
3-Nitroaniline		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	50 U
4,6-Dinitro-2-methylphenol		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	13 U
4-Bromophenylphenyl ether		220 U	230 U	220 U	210 U	200 U	200 U	1.0 U
4-Chloro-3-methylphenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
4-Chloroaniline		430 U	440 U	430 U	410 U	390 U	400 U	20 U
4-Chlorophenylphenyl ether		220 U	230 U	220 U	210 U	200 U	200 U	10 U
4-Nitroaniline		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	50 U
4-Nitrophenol		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	50 U
Acenaphthene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Acenaphthylene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Anthracene		220 U	230 U	220 U	210 U	200 U	80 J	10 U
Benzo(a)anthracene		220 U	230 U	220 U	77 J	200 U	170 J	10 U
Benzo(a)pyrene		120 U	120 U	120 U	70 J	110 U	150	0.97 J
Benzo(b)fluoranthene		220 U	230 U	220 U	69 J	200 U	110 J	0.93 J
Benzo(g,h,i)perylene		220 U	230 U	220 U	45 J	200 U	82 J	2.8 J
Benzo(k)fluoranthene		220 U	230 U	220 U	60 J	200 U	140 J	1.1 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	BS-EE-04-0-0.5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0.5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0.5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Butylbenzylphthalate		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Carbazole		220 U	230 U	220 U	210 U	200 U	32 J	3.4 U
Chrysene		220 U	230 U	220 U	97 J	200 U	200 J	10 U
Di-n-butylphthalate		130 J	230 U	220 U	210 U	200 U	240	10 U
Di-n-octylphthalate		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Dibenzo(a,h)anthracene		120 U	120 U	120 U	110 U	110 U	110 U	1.7 J
Dibenzofuran		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Diethylphthalate		100 J	120 J	110 J	60 J	63 J	110 J	10 U
Dimethylphthalate		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Fluoranthene		220 U	230 U	220 U	200 J	200 U	440	10 U
Fluorene		220 U	230 U	220 U	210 U	200 U	200 U	1.0 U
Hexachlorobenzene		92 U	93 U	91 U	88 U	83 U	84 U	10 U
Hexachlorobutadiene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Hexachlorocyclopentadiene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Hexachloroethane		220 U	230 U	220 U	210 U	200 U	200 U	1.9 U
Indeno(1,2,3-cd)pyrene		220 U	230 U	220 U	210 U	200 U	200 U	2.5 J
Isophorone		220 U	230 U	220 U	210 U	200 U	200 U	10 U
N-Nitroso-di-n-propylamine		220 U	230 U	220 U	210 U	200 U	200 U	10 U
N-Nitrosodiphenylamine		220 U	230 U	220 U	210 U	200 U	200 U	5.0 U
Naphthalene		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Nitrobenzene		220 U	230 U	220 U	210 U	200 U	200 U	3.5 U
Pentachlorophenol		1100 U	1100 U	1100 U	1100 U	1000 U	1000 U	5.0 U
Phenanthrene		220 U	230 U	220 U	100 J	200 U	290	10 U
Phenol		220 U	230 U	220 U	210 U	200 U	200 U	10 U
Pyrene		220 U	230 U	220 U	180 J	200 U	360	10 U
bis(2-Chloroethoxy)methane		220 U	230 U	220 U	210 U	200 U	200 U	10 U
bis(2-Chloroethyl)ether		220 U	230 U	220 U	210 U	200 U	200 U	10 U
bis(2-Ethylhexyl)phthalate		420	230 U	220 U	210 U	200 U	110 J	1.8 U
Total Semivolatiles		650	120	110	958	63	2514	10

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S1-3-6FT	DAS-T1-S2-0-0.5FT	DAS-T1-S2-3-6FT	DAS-T1-S3-0-0.5FT
	Sample Date	01/27/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
1,2-Dichlorobenzene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
1,3-Dichlorobenzene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
1,4-Dichlorobenzene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2,2'-Oxybis(1-Chloropropane)		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2,4,5-Trichlorophenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2,4,6-Trichlorophenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2,4-Dichlorophenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2,4-Dinitrophenol		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
2,4-Dinitrotoluene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2,6-Dinitrotoluene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2-Chloronaphthalene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2-Chlorophenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2-Methylnaphthalene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2-Methylphenol (o-cresol)		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
2-Nitroaniline		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
2-Nitrophenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
3,3'-Dichlorobenzidine		410 UJ	380 U	380 U	380 U	380 U	380 U	390 U
3-Methylphenol/4-Methylphenol		410 UJ	190 U	190 U	200 U	190 U	200 U	200 U
3-Nitroaniline		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
4,6-Dinitro-2-methylphenol		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
4-Bromophenylphenyl ether		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
4-Chloro-3-methylphenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
4-Chloroaniline		410 UJ	380 U	380 U	380 U	380 U	380 U	390 U
4-Chlorophenylphenyl ether		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
4-Nitroaniline		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
4-Nitrophenol		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
Acenaphthene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Acenaphthylene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Anthracene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Benzo(a)anthracene		26 J	190 U	190 U	200 U	190 U	200 U	200 U
Benzo(a)pyrene		110 UJ	100 U	100 U	100 U	100 U	100 U	110 U
Benzo(b)fluoranthene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Benzo(g,h,i)perylene		34 J	190 U	190 U	200 U	190 U	200 U	200 U
Benzo(k)fluoranthene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S1-3-6FT	DAS-T1-S2-0-0.5FT	DAS-T1-S2-3-6FT	DAS-T1-S3-0-0.5FT
	Sample Date	01/27/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Carbazole		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Chrysene		42 J	190 U	190 U	200 U	190 U	200 U	200 U
Di-n-butylphthalate		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Di-n-octylphthalate		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Dibenzo(a,h)anthracene		110 UJ	100 U	100 U	100 U	100 U	100 U	110 U
Dibenzofuran		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Diethylphthalate		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Dimethylphthalate		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Fluoranthene		42 J	190 U	190 U	200 U	190 U	200 U	200 U
Fluorene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Hexachlorobenzene		87 UJ	80 U	80 U	81 U	80 U	80 U	83 U
Hexachlorobutadiene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Hexachlorocyclopentadiene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Hexachloroethane		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Indeno(1,2,3-cd)pyrene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Isophorone		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
N-Nitroso-di-n-propylamine		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
N-Nitrosodiphenylamine		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Naphthalene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Nitrobenzene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Pentachlorophenol		1000 UJ	960 U	960 U	990 U	960 U	980 U	1000 U
Phenanthrene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Phenol		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
Pyrene		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
bis(2-Chloroethoxy)methane		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
bis(2-Chloroethyl)ether		210 UJ	190 U	190 U	200 U	190 U	200 U	200 U
bis(2-Ethylhexyl)phthalate		210 UJ	190 U	190 U	200 U	190 U	200 U	160 J
Total Semivolatiles		144	ND	ND	ND	ND	ND	160

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT	DAS-T2-S1-3-6FT	DAS-T2-S2-0-0.5FT	DAS-T2-S2-3-6FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
1,2-Dichlorobenzene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
1,3-Dichlorobenzene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
1,4-Dichlorobenzene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2,2'-Oxybis(1-Chloropropane)		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2,4,5-Trichlorophenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2,4,6-Trichlorophenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2,4-Dichlorophenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2,4-Dinitrophenol		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
2,4-Dinitrotoluene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2,6-Dinitrotoluene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2-Chloronaphthalene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2-Chlorophenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2-Methylnaphthalene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2-Methylphenol (o-cresol)		220 U	200 U	190 U	200 U	180 U	220 U	190 U
2-Nitroaniline		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
2-Nitrophenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
3,3'-Dichlorobenzidine		420 U	390 U	370 U	380 U	350 U	430 U	360 U
3-Methylphenol/4-Methylphenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
3-Nitroaniline		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
4,6-Dinitro-2-methylphenol		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
4-Bromophenylphenyl ether		220 U	200 U	190 U	200 U	180 U	220 U	190 U
4-Chloro-3-methylphenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
4-Chloroaniline		420 U	390 U	370 U	380 U	350 U	430 U	360 U
4-Chlorophenylphenyl ether		220 U	200 U	190 U	200 U	180 U	220 U	190 U
4-Nitroaniline		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
4-Nitrophenol		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
Acenaphthene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Acenaphthylene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Anthracene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Benzo(a)anthracene		220 U	46 J	190 U	200 U	180 U	220 U	190 U
Benzo(a)pyrene		120 U	56 J	100 U	100 U	96 U	120 U	99 U
Benzo(b)fluoranthene		220 U	42 J	190 U	200 U	180 U	32 J	190 U
Benzo(g,h,i)perylene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Benzo(k)fluoranthene		220 U	63 J	190 U	200 U	180 U	220 U	190 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT	DAS-T2-S1-3-6FT	DAS-T2-S2-0-0.5FT	DAS-T2-S2-3-6FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Butylbenzylphthalate		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Carbazole		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Chrysene		220 U	69 J	190 U	200 U	180 U	29 J	190 U
Di-n-butylphthalate		220 U	200 U	190 U	120 J	180 U	220 U	190 U
Di-n-octylphthalate		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Dibenzo(a,h)anthracene		120 U	110 U	100 U	100 U	96 U	120 U	99 U
Dibenzofuran		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Diethylphthalate		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Dimethylphthalate		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Fluoranthene		220 U	110 J	190 U	200 U	180 U	220 U	190 U
Fluorene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Hexachlorobenzene		90 U	83 U	79 U	80 U	74 U	92 U	77 U
Hexachlorobutadiene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Hexachlorocyclopentadiene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Hexachloroethane		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Indeno(1,2,3-cd)pyrene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Isophorone		220 U	200 U	190 U	200 U	180 U	220 U	190 U
N-Nitroso-di-n-propylamine		220 U	200 U	190 U	200 U	180 U	220 U	190 U
N-Nitrosodiphenylamine		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Naphthalene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Nitrobenzene		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Pentachlorophenol		1100 U	1000 U	960 U	980 U	900 U	1100 U	930 U
Phenanthrene		220 U	52 J	190 U	200 U	180 U	220 U	190 U
Phenol		220 U	200 U	190 U	200 U	180 U	220 U	190 U
Pyrene		220 U	100 J	190 U	200 U	180 U	220 U	190 U
bis(2-Chloroethoxy)methane		220 U	200 U	190 U	200 U	180 U	220 U	190 U
bis(2-Chloroethyl)ether		220 U	200 U	190 U	200 U	180 U	220 U	190 U
bis(2-Ethylhexyl)phthalate		220 U	61 J	190 U	57 J	180 U	220 U	190 U
Total Semivolatiles		ND	599	ND	177	ND	61	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S1-3-6FT	DAS-T3-S2-0-0.5FT	DAS-T3-S2-3-6FT	DAS-T3-S3-0-0.5FT	DAS-T3-S3-0-0.5FTEB
	Sample Date	04/18/00	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
1,2,4-Trichlorobenzene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
1,2-Dichlorobenzene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
1,3-Dichlorobenzene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
1,4-Dichlorobenzene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2,2'-Oxybis(1-Chloropropane)		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2,4,5-Trichlorophenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2,4,6-Trichlorophenol		190 U	210 U	220 U	200 U	190 U	190 U	2.1 U
2,4-Dichlorophenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2,4-Dinitrophenol		940 U	1000 U	1100 U	1000 U	940 U	970 U	14 U
2,4-Dinitrotoluene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2,6-Dinitrotoluene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2-Chloronaphthalene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2-Chlorophenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2-Methylnaphthalene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2-Methylphenol (o-cresol)		190 U	210 U	220 U	200 U	190 U	190 U	10 U
2-Nitroaniline		940 U	1000 U	1100 U	1000 U	940 U	970 U	50 U
2-Nitrophenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
3,3'-Dichlorobenzidine		370 U	410 U	430 U	390 U	360 U	380 U	20 U
3-Methylphenol/4-Methylphenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
3-Nitroaniline		940 U	1000 U	1100 U	1000 U	940 U	970 U	50 U
4,6-Dinitro-2-methylphenol		940 U	1000 U	1100 U	1000 U	940 U	970 U	13 U
4-Bromophenylphenyl ether		190 U	210 U	220 U	200 U	190 U	190 U	1.0 U
4-Chloro-3-methylphenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
4-Chloroaniline		370 U	410 U	430 U	390 U	360 U	380 U	20 U
4-Chlorophenylphenyl ether		190 U	210 U	220 U	200 U	190 U	190 U	10 U
4-Nitroaniline		940 U	1000 U	1100 U	1000 U	940 U	970 U	50 U
4-Nitrophenol		940 U	1000 U	1100 U	1000 U	940 U	970 U	50 U
Acenaphthene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Acenaphthylene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Anthracene		190 U	210 U	220 U	200 U	190 U	26 J	10 U
Benzo(a)anthracene		190 U	82 J	220 U	35 J	190 U	79 J	10 U
Benzo(a)pyrene		100 U	82 J	120 U	43 J	100 U	80 J	10 U
Benzo(b)fluoranthene		190 U	82 J	220 U	45 J	190 U	84 J	10 U
Benzo(g,h,i)perylene		190 U	75 J	110 J	38 J	70 J	60 J	10 U
Benzo(k)fluoranthene		190 U	83 J	220 U	38 J	190 U	61 J	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S1-3-6FT	DAS-T3-S2-0-0.5FT	DAS-T3-S2-3-6FT	DAS-T3-S3-0-0.5FT	DAS-T3-S3-0-0 5FTEB
	Sample Date	04/18/00	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Butylbenzylphthalate		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Carbazole		190 U	210 U	220 U	200 U	190 U	190 U	3.4 U
Chrysene		190 U	100 J	220 U	46 J	190 U	100 J	10 U
Di-n-butylphthalate		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Di-n-octylphthalate		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Dibenzo(a,h)anthracene		100 U	110 U	87 J	110 U	100 U	100 U	10 U
Dibenzofuran		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Diethylphthalate		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Dimethylphthalate		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Fluoranthene		190 U	220	220 U	86 J	190 U	190 J	10 U
Fluorene		190 U	210 U	220 U	200 U	190 U	190 U	1.0 U
Hexachlorobenzene		78 U	86 U	91 U	83 U	78 U	80 U	10 U
Hexachlorobutadiene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Hexachlorocyclopentadiene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Hexachloroethane		190 U	210 U	220 U	200 U	190 U	190 U	1.9 U
Indeno(1,2,3-cd)pyrene		190 U	210 U	92 J	200 U	190 U	190 U	10 U
Isophorone		190 U	210 U	220 U	200 U	190 U	190 U	10 U
N-Nitroso-di-n-propylamine		190 U	210 U	220 U	200 U	190 U	190 U	10 U
N-Nitrosodiphenylamine		190 U	210 U	220 U	200 U	190 U	190 U	5.0 U
Naphthalene		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Nitrobenzene		190 U	210 U	220 U	200 U	190 U	190 U	3.5 U
Pentachlorophenol		940 U	1000 U	1100 U	1000 U	940 U	970 U	5.0 U
Phenanthrene		190 U	92 J	220 U	24 J	190 U	93 J	10 U
Phenol		190 U	210 U	220 U	200 U	190 U	190 U	10 U
Pyrene		190 U	160 J	220 U	200 U	190 U	130 J	10 U
bis(2-Chloroethoxy)methane		190 U	210 U	220 U	200 U	190 U	190 U	10 U
bis(2-Chloroethyl)ether		190 U	210 U	220 U	200 U	190 U	190 U	10 U
bis(2-Ethylhexyl)phthalate		190 U	100 J	88 J	120 J	57 J	430	1.8 U
Total Semivolatiles		ND	1076	377	475	127	1333	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
1,2,4-Trichlorobenzene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
1,2-Dichlorobenzene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
1,3-Dichlorobenzene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
1,4-Dichlorobenzene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2,2'-Oxybis(1-Chloropropane)	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2,4,5-Trichlorophenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2,4,6-Trichlorophenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2,4-Dichlorophenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2,4-Dinitrophenol	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
2,4-Dinitrotoluene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2,6-Dinitrotoluene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2-Chloronaphthalene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2-Chlorophenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2-Methylnaphthalene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2-Methylphenol (o-cresol)	210 U	210 U	200 U	220 U	220 U	210 U	200 U
2-Nitroaniline	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
2-Nitrophenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
3,3'-Dichlorobenzidine	410 U	400 U	400 U	430 U	420 U	410 U	390 U
3-Methylphenol/4-Methylphenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
3-Nitroaniline	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-methylphenol	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
4-Bromophenylphenyl ether	210 U	210 U	200 U	220 U	220 U	210 U	200 U
4-Chloro-3-methylphenol	210 U	210 U	200 U	220 U	220 U	210 U	200 U
4-Chloroaniline	410 U	400 U	400 U	430 U	420 U	410 U	390 U
4-Chlorophenylphenyl ether	210 U	210 U	200 U	220 U	220 U	210 U	200 U
4-Nitroaniline	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
4-Nitrophenol	1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
Acenaphthene	210 U	43 J	200 U	220 U	220 U	210 U	200 U
Acenaphthylene	210 U	210 U	200 U	220 U	220 U	210 U	200 U
Anthracene	210 U	84 J	200 U	220 U	220 U	210 U	200 U
Benzo(a)anthracene	210 U	200 J	200 U	220 U	220 U	210 U	200 U
Benzo(a)pyrene	110 U	160	110 U	120 U	120 U	110 U	110 U
Benzo(b)fluoranthene	210 U	130 J	30 J	220 U	220 U	210 U	200 U
Benzo(g,h,i)perylene	77 J	100 J	200 U	74 J	51 J	210 U	200 U
Benzo(k)fluoranthene	210 U	140 J	200 U	220 U	220 U	210 U	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Carbazole		210 U	45 J	200 U	220 U	220 U	210 U	200 U
Chrysene		210 U	200 J	29 J	220 U	220 U	35 J	200 U
Di-n-butylphthalate		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Di-n-octylphthalate		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Dibenzo(a,h)anthracene		110 U	110 U	110 U	120 U	120 U	110 U	110 U
Dibenzofuran		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Diethylphthalate		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Dimethylphthalate		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Fluoranthene		210 U	440	39 J	220 U	220 U	42 J	200 U
Fluorene		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Hexachlorobenzene		86 U	85 U	84 U	92 U	90 U	87 U	83 U
Hexachlorobutadiene		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Hexachlorocyclopentadiene		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Hexachloroethane		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Indeno(1,2,3-cd)pyrene		210 U	89 J	200 U	220 U	220 U	210 U	200 U
Isophorone		210 U	210 U	200 U	220 U	220 U	210 U	200 U
N-Nitroso-di-n-propylamine		210 U	210 U	200 U	220 U	220 U	210 U	200 U
N-Nitrosodiphenylamine		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Naphthalene		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Nitrobenzene		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Pentachlorophenol		1000 U	1000 U	1000 U	1100 U	1100 U	1000 U	1000 U
Phenanthrene		210 U	390	200 U	220 U	220 U	210 U	200 U
Phenol		210 U	210 U	200 U	220 U	220 U	210 U	200 U
Pyrene		210 U	370	200 U	220 U	220 U	210 U	200 U
bis(2-Chloroethoxy)methane		210 U	210 U	200 U	220 U	220 U	210 U	200 U
bis(2-Chloroethyl)ether		210 U	210 U	200 U	220 U	220 U	210 U	200 U
bis(2-Ethylhexyl)phthalate		72 J	70 J	62 J	63 J	77 J	210 U	200 U
Total Semivolatiles		149	2461	160	137	128	77	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
1,2-Dichlorobenzene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
1,3-Dichlorobenzene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
1,4-Dichlorobenzene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2,2'-Oxybis(1-Chloropropane)		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2,4,5-Trichlorophenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2,4,6-Trichlorophenol		210 U	220 U	200 U	2.1 U	200 U	200 U	190 U
2,4-Dichlorophenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2,4-Dinitrophenol		1000 U	1100 U	1000 U	14 U	1000 U	990 U	930 U
2,4-Dinitrotoluene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2,6-Dinitrotoluene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2-Chloronaphthalene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2-Chlorophenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2-Methylnaphthalene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2-Methylphenol (o-cresol)		210 U	220 U	200 U	10 U	200 U	200 U	190 U
2-Nitroaniline		1000 U	1100 U	1000 U	50 U	1000 U	990 U	930 U
2-Nitrophenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
3,3'-Dichlorobenzidine		400 U	430 U	390 U	20 U	390 U	380 U	360 U
3-Methylphenol/4-Methylphenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
3-Nitroaniline		1000 U	1100 U	1000 U	50 U	1000 U	990 U	930 U
4,6-Dinitro-2-methylphenol		1000 U	1100 U	1000 U	13 U	1000 U	990 U	930 U
4-Bromophenylphenyl ether		210 U	220 U	200 U	1.0 U	200 U	200 U	190 U
4-Chloro-3-methylphenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
4-Chloroaniline		400 U	430 U	390 U	20 U	390 U	380 U	360 U
4-Chlorophenylphenyl ether		210 U	220 U	200 U	10 U	200 U	200 U	190 U
4-Nitroaniline		1000 U	1100 U	1000 U	50 U	1000 U	990 U	930 U
4-Nitrophenol		1000 U	1100 U	1000 U	50 U	1000 U	990 U	930 U
Acenaphthene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Acenaphthylene		210 U	220 U	34 J	10 U	200 U	200 U	190 U
Anthracene		210 U	220 U	89 J	10 U	200 U	200 U	190 U
Benzo(a)anthracene		210 U	220 U	460	10 U	200 U	46 J	190 U
Benzo(a)pyrene		110 U	120 U	600	10 U	110 U	58 J	99 U
Benzo(b)fluoranthene		210 U	220 U	780	10 U	200 U	70 J	190 U
Benzo(g,h,i)perylene		210 U	220 U	430	0.80 J	200 U	44 J	30 J
Benzo(k)fluoranthene		210 U	220 U	600	10 U	200 U	58 J	190 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		210 UJ	220 U	340	10 U	200 U	200 U	190 U
Carbazole		210 U	220 U	71 J	3.4 U	200 U	200 U	190 U
Chrysene		210 UJ	220 U	710	10 U	200 U	69 J	190 U
Di-n-butylphthalate		210 U	220 U	35 J	0.32 J	200 U	200 U	190 U
Di-n-octylphthalate		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Dibenzo(a,h)anthracene		110 U	120 U	110	10 U	110 U	100 U	99 U
Dibenzofuran		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Diethylphthalate		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Dimethylphthalate		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Fluoranthene		210 U	220 U	1100	10 U	200 U	100 J	190 U
Fluorene		210 U	220 U	200 U	1.0 U	200 U	200 U	190 U
Hexachlorobenzene		85 U	91 U	83 U	10 U	83 U	82 U	77 U
Hexachlorobutadiene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Hexachlorocyclopentadiene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Hexachloroethane		210 U	220 U	200 U	1.9 U	200 U	200 U	190 U
Indeno(1,2,3-cd)pyrene		210 U	220 U	450	10 U	200 U	200 U	190 U
Isophorone		210 U	220 U	200 U	10 U	200 U	200 U	190 U
N-Nitroso-di-n-propylamine		210 U	220 U	200 U	10 U	200 U	200 U	190 U
N-Nitrosodiphenylamine		210 U	220 U	200 U	5.0 U	200 U	200 U	190 U
Naphthalene		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Nitrobenzene		210 U	220 U	200 U	3.5 U	200 U	200 U	190 U
Pentachlorophenol		1000 U	1100 U	1000 U	5.0 U	1000 U	990 U	930 U
Phenanthrene		210 U	220 U	360	10 U	200 U	22 J	190 U
Phenol		210 U	220 U	200 U	10 U	200 U	200 U	190 U
Pyrene		210 U	220 U	810	10 U	200 U	77 J	190 U
bis(2-Chloroethoxy)methane		210 U	220 U	200 U	10 U	200 U	200 U	190 U
bis(2-Chloroethyl)ether		210 U	220 U	200 U	10 U	200 U	200 U	190 U
bis(2-Ethylhexyl)phthalate		210 U	220 U	180 J	1.8 U	96 J	94 J	190 U
Total Semivolatiles		ND	ND	7159	1.12	96	638	30

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
1,2-Dichlorobenzene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
1,3-Dichlorobenzene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
1,4-Dichlorobenzene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2,2'-Oxybis(1-Chloropropane)		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2,4,5-Trichlorophenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2,4,6-Trichlorophenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2,4-Dichlorophenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2,4-Dinitrophenol		930 U	940 U	990 U	960 U	950 U	980 U	920 U
2,4-Dinitrotoluene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2,6-Dinitrotoluene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2-Chloronaphthalene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2-Chlorophenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2-Methylnaphthalene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2-Methylphenol (o-cresol)		180 U	190 U	200 U	190 U	190 U	200 U	180 U
2-Nitroaniline		930 U	940 U	990 U	960 U	950 U	980 U	920 U
2-Nitrophenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
3,3'-Dichlorobenzidine		360 U	360 U	380 U	370 U	370 U	380 U	360 U
3-Methylphenol/4-Methylphenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
3-Nitroaniline		930 U	940 U	990 U	960 U	950 U	980 U	920 U
4,6-Dinitro-2-methylphenol		930 U	940 U	990 U	960 U	950 U	980 U	920 U
4-Bromophenylphenyl ether		180 U	190 U	200 U	190 U	190 U	200 U	180 U
4-Chloro-3-methylphenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
4-Chloroaniline		360 U	360 U	380 U	370 U	370 U	380 U	360 U
4-Chlorophenylphenyl ether		180 U	190 U	200 U	190 U	190 U	200 U	180 U
4-Nitroaniline		930 U	940 U	990 U	960 U	950 U	980 U	920 U
4-Nitrophenol		930 U	940 U	990 U	960 U	950 U	980 U	920 U
Acenaphthene		180 U	190 U	200 U	190 U	190 U	200 U	420
Acenaphthylene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Anthracene		180 U	190 U	200 U	190 U	190 U	200 U	1400
Benzo(a)anthracene		95 J	190 UJ	200 U	190 U	70 J	200 U	4200
Benzo(a)pyrene		240	100 U	100 U	100 U	78 J	100 U	3600
Benzo(b)fluoranthene		180 J	190 U	200 U	190 U	72 J	200 U	4400
Benzo(g,h,i)perylene		370	190 U	200 U	190 U	190 U	200 U	1300
Benzo(k)fluoranthene		190	190 U	200 U	190 U	53 J	200 U	3400

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		180 U	190 UJ	200 U	190 U	190 U	200 U	57 J
Carbazole		180 U	190 U	200 U	190 U	190 U	200 U	860
Chrysene		140 J	190 UJ	200 U	190 U	100 J	200 U	4900
Di-n-butylphthalate		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Di-n-octylphthalate		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Dibenzo(a,h)anthracene		320	100 U	100 U	100 U	100 U	100 U	600
Dibenzofuran		180 U	190 U	200 U	190 U	190 U	200 U	230
Diethylphthalate		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Dimethylphthalate		180 U	190 UJ	200 U	190 U	190 U	200 U	180 U
Fluoranthene		170 J	190 U	200 U	190 U	110 J	200 U	9800
Fluorene		180 U	190 U	200 U	190 U	190 U	200 U	580
Hexachlorobenzene		76 U	78 U	82 U	79 U	78 U	80 U	76 U
Hexachlorobutadiene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Hexachlorocyclopentadiene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Hexachloroethane		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Indeno(1,2,3-cd)pyrene		350	190 U	200 U	190 U	190 U	200 U	1100
Isophorone		180 U	190 U	200 U	190 U	190 U	200 U	180 U
N-Nitroso-di-n-propylamine		180 U	190 U	200 U	190 U	190 U	200 U	180 U
N-Nitrosodiphenylamine		180 U	190 UJ	200 U	190 U	190 U	200 U	180 U
Naphthalene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Nitrobenzene		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Pentachlorophenol		930 U	940 U	990 U	960 U	950 U	980 U	920 U
Phenanthrene		58 J	190 U	200 U	190 U	28 J	200 U	7100
Phenol		180 U	190 U	200 U	190 U	190 U	200 U	180 U
Pyrene		180 J	190 U	200 U	190 U	110 J	200 U	7700
bis(2-Chloroethoxy)methane		180 U	190 U	200 U	190 U	190 U	200 U	180 U
bis(2-Chloroethyl)ether		180 U	190 U	200 U	190 U	190 U	200 U	180 U
bis(2-Ethylhexyl)phthalate		160 J	65 J	200 U	190 U	190 U	200 U	360
Total Semivolatiles		2453	65	ND	ND	621	ND	52007

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
	Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
1,2-Dichlorobenzene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
1,3-Dichlorobenzene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
1,4-Dichlorobenzene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2,2'-Oxybis(1-Chloropropane)		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2,4,5-Trichlorophenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2,4,6-Trichlorophenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2,4-Dichlorophenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2,4-Dinitrophenol		950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
2,4-Dinitrotoluene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2,6-Dinitrotoluene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2-Chloronaphthalene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2-Chlorophenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2-Methylnaphthalene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2-Methylphenol (o-cresol)		190 U	190 U	220 U	200 U	220 U	210 U	200 U
2-Nitroaniline		950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
2-Nitrophenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
3,3'-Dichlorobenzidine		370 U	380 U	420 U	390 U	430 U	410 U	390 U
3-Methylphenol/4-Methylphenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
3-Nitroaniline		950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-methylphenol		950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
4-Bromophenylphenyl ether		190 U	190 U	220 U	200 U	220 U	210 U	200 U
4-Chloro-3-methylphenol		190 U	190 U	220 U	200 U	220 U	210 U	200 U
4-Chloroaniline		370 U	380 U	420 U	390 U	430 U	410 U	390 U
4-Chlorophenylphenyl ether		190 U	190 U	220 U	200 U	220 U	210 U	200 U
4-Nitroaniline		950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
4-Nitrophenol		950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
Acenaphthene		190 U	59 J	220 U	160 J	220 U	210 U	200 U
Acenaphthylene		190 U	190 U	220 U	200 U	220 U	210 U	200 U
Anthracene		190 U	100 J	220 U	360	220 U	210 U	200 U
Benzo(a)anthracene		190 U	500	220 U	1900	220 U	210 U	200 U
Benzo(a)pyrene		100 U	520	120 U	2100	120 U	110 U	110 U
Benzo(b)fluoranthene		190 U	580	220 U	2200	220 U	210 U	200 U
Benzo(g,h,i)perylene		190 U	310	220 U	1100	220 U	210 U	200 U
Benzo(k)fluoranthene		190 U	470	220 U	2100	220 U	210 U	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Butylbenzylphthalate	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Carbazole	190 U	110 J	220 U	310	220 U	210 U	200 U
Chrysene	190 U	770	220 U	2600	220 U	210 U	200 U
Di-n-butylphthalate	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Di-n-octylphthalate	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Dibenzo(a,h)anthracene	100 U	120	120 U	410	120 U	110 U	110 U
Dibenzofuran	190 U	190 U	220 U	52 J	220 U	210 U	200 U
Diethylphthalate	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Dimethylphthalate	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Fluoranthene	190 U	1400	220 U	5600	220 U	210 U	200 U
Fluorene	190 U	56 J	220 U	140 J	220 U	210 U	200 U
Hexachlorobenzene	78 U	80 U	90 U	83 U	92 U	86 U	84 U
Hexachlorobutadiene	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Hexachlorocyclopentadiene	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Hexachloroethane	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Indeno(1,2,3-cd)pyrene	190 U	280	220 U	1100	220 U	210 U	200 U
Isophorone	190 U	190 U	220 U	200 U	220 U	210 U	200 U
N-Nitroso-di-n-propylamine	190 U	190 U	220 U	200 U	220 U	210 U	200 U
N-Nitrosodiphenylamine	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Naphthalene	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Nitrobenzene	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Pentachlorophenol	950 U	970 U	1100 U	1000 U	1100 U	1000 U	1000 U
Phenanthrene	190 U	970	220 U	2900	220 U	210 U	200 U
Phenol	190 U	190 U	220 U	200 U	220 U	210 U	200 U
Pyrene	190 U	1000	220 U	3900	220 U	210 U	200 U
bis(2-Chloroethoxy)methane	190 U	190 U	220 U	200 U	220 U	210 U	200 U
bis(2-Chloroethyl)ether	190 U	190 U	220 U	200 U	220 U	210 U	200 U
bis(2-Ethylhexyl)phthalate	190 U	190 U	140 J	91 J	220 U	210 U	200 U
Total Semivolatiles	ND	7245	140	27023	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
1,2-Dichlorobenzene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
1,3-Dichlorobenzene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
1,4-Dichlorobenzene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2,2'-Oxybis(1-Chloropropane)		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2,4,5-Trichlorophenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2,4,6-Trichlorophenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2,4-Dichlorophenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2,4-Dinitrophenol		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
2,4-Dinitrotoluene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2,6-Dinitrotoluene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2-Chloronaphthalene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2-Chlorophenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2-Methylnaphthalene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2-Methylphenol (o-cresol)		210 U	210 U	210 U	220 U	200 U	180 U	200 U
2-Nitroaniline		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
2-Nitrophenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
3,3'-Dichlorobenzidine		410 U	410 U	420 U	440 U	390 U	360 U	380 U
3-Methylphenol/4-Methylphenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
3-Nitroaniline		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
4,6-Dinitro-2-methylphenol		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
4-Bromophenylphenyl ether		210 U	210 U	210 U	220 U	200 U	180 U	200 U
4-Chloro-3-methylphenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
4-Chloroaniline		410 U	410 U	420 U	440 U	390 U	360 U	380 U
4-Chlorophenylphenyl ether		210 U	210 U	210 U	220 U	200 U	180 U	200 U
4-Nitroaniline		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
4-Nitrophenol		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
Acenaphthene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Acenaphthylene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Anthracene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Benzo(a)anthracene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Benzo(a)pyrene		110 U	110 U	110 U	120 U	110 U	97 U	100 U
Benzo(b)fluoranthene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Benzo(g,h,i)perylene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Benzo(k)fluoranthene		210 U	210 U	210 U	220 U	200 U	180 U	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Carbazole		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Chrysene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Di-n-butylphthalate		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Di-n-octylphthalate		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Dibenzo(a,h)anthracene		110 U	110 U	110 U	120 U	110 U	97 U	100 U
Dibenzofuran		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Diethylphthalate		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Dimethylphthalate		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Fluoranthene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Fluorene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Hexachlorobenzene		87 U	87 U	88 U	93 U	83 U	75 U	81 U
Hexachlorobutadiene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Hexachlorocyclopentadiene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Hexachloroethane		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Indeno(1,2,3-cd)pyrene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Isophorone		210 U	210 U	210 U	220 U	200 U	180 U	200 U
N-Nitroso-di-n-propylamine		210 U	210 U	210 U	220 U	200 U	180 U	200 U
N-Nitrosodiphenylamine		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Naphthalene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Nitrobenzene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Pentachlorophenol		1000 U	1100 U	1100 U	1100 U	1000 U	910 U	990 U
Phenanthrene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Phenol		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Pyrene		210 U	210 U	210 U	220 U	200 U	180 U	200 U
bis(2-Chloroethoxy)methane		210 U	210 U	210 U	220 U	200 U	180 U	200 U
bis(2-Chloroethyl)ether		210 U	210 U	210 U	220 U	200 U	180 U	200 U
bis(2-Ethylhexyl)phthalate		210 U	210 U	210 U	220 U	200 U	180 U	200 U
Total Semivolatiles		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
1,2-Dichlorobenzene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
1,3-Dichlorobenzene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
1,4-Dichlorobenzene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2,2'-Oxybis(1-Chloropropane)		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2,4,5-Trichlorophenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2,4,6-Trichlorophenol		180 U	180 U	200 U	190 U	2.1 U	190 U	200 U
2,4-Dichlorophenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2,4-Dinitrophenol		920 U	910 U	1000 U	940 U	14 U	940 U	990 U
2,4-Dinitrotoluene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2,6-Dinitrotoluene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2-Chloronaphthalene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2-Chlorophenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2-Methylnaphthalene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2-Methylphenol (o-cresol)		180 U	180 U	200 U	190 U	10 U	190 U	200 U
2-Nitroaniline		920 U	910 U	1000 U	940 U	50 U	940 U	990 U
2-Nitrophenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
3,3'-Dichlorobenzidine		360 U	360 U	400 U	360 U	20 U	360 U	380 U
3-Methylphenol/4-Methylphenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
3-Nitroaniline		920 U	910 U	1000 U	940 U	50 U	940 U	990 U
4,6-Dinitro-2-methylphenol		920 U	910 U	1000 U	940 U	13 U	940 U	990 U
4-Bromophenylphenyl ether		180 U	180 U	200 U	190 U	1.0 U	190 U	200 U
4-Chloro-3-methylphenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
4-Chloroaniline		360 U	360 U	400 U	360 U	20 U	360 U	380 U
4-Chlorophenylphenyl ether		180 U	180 U	200 U	190 U	10 U	190 U	200 U
4-Nitroaniline		920 U	910 U	1000 U	940 U	50 U	940 U	990 U
4-Nitrophenol		920 U	910 U	1000 U	940 U	50 U	940 U	990 U
Acenaphthene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Acenaphthylene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Anthracene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Benzo(a)anthracene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Benzo(a)pyrene		97 U	97 U	110 U	99 U	10 U	99 U	100 U
Benzo(b)fluoranthene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Benzo(g,h,i)perylene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Benzo(k)fluoranthene		180 U	180 U	200 U	190 U	10 U	190 U	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Carbazole		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Chrysene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Di-n-butylphthalate		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Di-n-octylphthalate		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Dibenzo(a,h)anthracene		97 U	97 U	110 U	99 U	10 U	99 U	100 U
Dibenzofuran		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Diethylphthalate		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Dimethylphthalate		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Fluoranthene		180 U	180 U	200 U	37 J	10 U	190 U	200 U
Fluorene		180 U	180 U	200 U	190 U	1.0 U	190 U	200 U
Hexachlorobenzene		76 U	75 U	84 U	77 U	10 U	77 U	82 U
Hexachlorobutadiene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Hexachlorocyclopentadiene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Hexachloroethane		180 U	180 U	200 U	190 U	1.9 U	190 U	200 U
Indeno(1,2,3-cd)pyrene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Isophorone		180 U	180 U	200 U	190 U	10 U	190 U	200 U
N-Nitroso-di-n-propylamine		180 U	180 U	200 U	190 U	10 U	190 U	200 U
N-Nitrosodiphenylamine		180 U	180 U	200 U	190 U	5.0 U	190 U	200 U
Naphthalene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Nitrobenzene		180 U	180 U	200 U	190 U	3.5 U	190 U	200 U
Pentachlorophenol		920 U	910 U	1000 U	940 U	5.0 U	940 U	990 U
Phenanthrene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Phenol		180 U	180 U	200 U	190 U	10 U	190 U	200 U
Pyrene		180 U	180 U	200 U	190 U	10 U	190 U	200 U
bis(2-Chloroethoxy)methane		180 U	180 U	200 U	190 U	10 U	190 U	200 U
bis(2-Chloroethyl)ether		180 U	180 U	200 U	190 U	10 U	190 U	200 U
bis(2-Ethylhexyl)phthalate		180 U	180 U	69 J	190 U	1.8 U	190 U	200
Total Semivolatiles		ND	ND	69	37	ND	ND	200

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
	Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
1,2-Dichlorobenzene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
1,3-Dichlorobenzene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
1,4-Dichlorobenzene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2,2'-Oxybis(1-Chloropropane)		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2,4,5-Trichlorophenol		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2,4,6-Trichlorophenol		2.1 U	200 U	190 U	180 U	200 U	190 U	210 U
2,4-Dichlorophenol		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2,4-Dinitrophenol		14 U	990 U	930 U	900 U	1000 U	950 U	1000 U
2,4-Dinitrotoluene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2,6-Dinitrotoluene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2-Chloronaphthalene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2-Chlorophenol		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2-Methylnaphthalene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2-Methylphenol (o-cresol)		10 U	200 U	190 U	180 U	200 U	190 U	210 U
2-Nitroaniline		50 U	990 U	930 U	900 U	1000 U	950 U	1000 U
2-Nitrophenol		10 U	200 U	190 U	180 U	200 U	190 U	210 U
3,3'-Dichlorobenzidine		20 U	380 U	360 U	350 U	390 U	370 U	410 U
3-Methylphenol/4-Methylphenol		10 U	200 U	190 U	180 U	200 U	370 U	410 U
3-Nitroaniline		50 U	990 U	930 U	900 U	1000 U	950 U	1000 U
4,6-Dinitro-2-methylphenol		13 U	990 U	930 U	900 U	1000 U	950 U	1000 U
4-Bromophenylphenyl ether		1.0 U	200 U	190 U	180 U	200 U	190 U	210 U
4-Chloro-3-methylphenol		10 U	200 U	190 U	180 U	200 U	190 U	210 U
4-Chloroaniline		20 U	380 U	360 U	350 U	390 U	370 U	410 U
4-Chlorophenylphenyl ether		10 U	200 U	190 U	180 U	200 U	190 U	210 U
4-Nitroaniline		50 U	990 U	930 U	900 U	1000 U	950 U	1000 U
4-Nitrophenol		50 U	990 U	930 U	900 U	1000 U	950 U	1000 U
Acenaphthene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Acenaphthylene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Anthracene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Benzo(a)anthracene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Benzo(a)pyrene		10 U	100 U	99 U	96 U	110 U	100 U	110 U
Benzo(b)fluoranthene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Benzo(g,h,i)perylene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Benzo(k)fluoranthene		10 U	200 U	190 U	180 U	200 U	190 U	210 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
	Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Carbazole		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Chrysene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Di-n-butylphthalate		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Di-n-octylphthalate		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Dibenzo(a,h)anthracene		10 U	100 U	99 U	96 U	110 U	100 U	110 U
Dibenzofuran		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Diethylphthalate		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Dimethylphthalate		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Fluoranthene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Fluorene		1.0 U	200 U	190 U	180 U	200 U	190 U	210 U
Hexachlorobenzene		10 U	82 U	77 U	74 U	84 U	78 U	86 U
Hexachlorobutadiene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Hexachlorocyclopentadiene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Hexachloroethane		1.9 U	200 U	190 U	180 U	200 U	190 U	210 U
Indeno(1,2,3-cd)pyrene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Isophorone		10 U	200 U	190 U	180 U	200 U	190 U	210 U
N-Nitroso-di-n-propylamine		10 U	200 U	190 U	180 U	200 U	190 U	210 U
N-Nitrosodiphenylamine		5.0 U	200 U	190 U	180 U	200 U	190 U	210 U
Naphthalene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Nitrobenzene		3.5 U	200 U	190 U	180 U	200 U	190 U	210 U
Pentachlorophenol		5.0 U	990 U	930 U	900 U	1000 U	950 U	1000 U
Phenanthrene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Phenol		10 U	200 U	190 U	180 U	200 U	190 U	210 U
Pyrene		10 U	200 U	190 U	180 U	200 U	190 U	210 U
bis(2-Chloroethoxy)methane		10 U	200 U	190 U	180 U	200 U	190 U	210 U
bis(2-Chloroethyl)ether		10 U	200 U	190 U	180 U	200 U	190 U	210 U
bis(2-Ethylhexyl)phthalate		1.8 U	200 U	190 U	160 J	200 U	64 J	210 U
Total Semivolatiles		ND	ND	ND	160	ND	64	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		200 U	200 U	230 UJ	200 U	220 U	200 U	200 U
1,2-Dichlorobenzene		200 U	200 U	230 UJ	200 U	220 U	200 U	200 U
1,3-Dichlorobenzene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
1,4-Dichlorobenzene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2,2'-Oxybis(1-Chloropropane)		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2,4,5-Trichlorophenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2,4,6-Trichlorophenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2,4-Dichlorophenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2,4-Dinitrophenol		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
2,4-Dinitrotoluene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2,6-Dinitrotoluene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2-Chloronaphthalene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2-Chlorophenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2-Methylnaphthalene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2-Methylphenol (o-cresol)		200 U	200 U	230 U	200 U	220 U	200 U	200 U
2-Nitroaniline		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
2-Nitrophenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
3,3'-Dichlorobenzidine		380 U	390 U	440 U	390 U	420 U	390 U	390 U
3-Methylphenol/4-Methylphenol		380 U	200 U	440 U	390 U	420 U	390 U	390 U
3-Nitroaniline		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
4,6-Dinitro-2-methylphenol		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
4-Bromophenylphenyl ether		200 U	200 U	230 UJ	200 U	220 U	200 U	200 U
4-Chloro-3-methylphenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
4-Chloroaniline		380 U	390 U	440 U	390 U	420 U	390 U	390 U
4-Chlorophenylphenyl ether		200 U	200 U	230 U	200 U	220 U	200 U	200 U
4-Nitroaniline		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
4-Nitrophenol		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
Acenaphthene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Acenaphthylene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Anthracene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Benzo(a)anthracene		200 U	200 U	230 U	200 U	220 U	72 J	200 U
Benzo(a)pyrene		100 U	110 U	120 U	110 U	110 U	72 J	110 U
Benzo(b)fluoranthene		200 U	200 U	230 U	200 U	220 U	72 J	200 U
Benzo(g,h,i)perylene		200 U	200 U	230 U	200 U	220 U	40 J	200 U
Benzo(k)fluoranthene		200 U	200 U	230 U	200 U	220 U	53 J	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Carbazole		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Chrysene		200 U	200 U	230 U	200 U	220 U	89 J	200 U
Di-n-butylphthalate		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Di-n-octylphthalate		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Dibenzo(a,h)anthracene		100 U	110 U	120 U	110 U	110 U	110 U	110 U
Dibenzofuran		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Diethylphthalate		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Dimethylphthalate		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Fluoranthene		200 U	200 U	230 U	200 U	220 U	150 J	200 U
Fluorene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Hexachlorobenzene		80 U	84 U	94 U	83 U	89 U	84 U	82 U
Hexachlorobutadiene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Hexachlorocyclopentadiene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Hexachloroethane		200 U	200 U	230 UJ	200 U	220 U	200 U	200 U
Indeno(1,2,3-cd)pyrene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Isophorone		200 U	200 U	230 U	200 U	220 U	200 U	200 U
N-Nitroso-di-n-propylamine		200 U	200 U	230 U	200 U	220 U	200 U	200 U
N-Nitrosodiphenylamine		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Naphthalene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Nitrobenzene		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Pentachlorophenol		980 U	1000 U	1100 U	1000 U	1100 U	1000 U	1000 U
Phenanthrene		200 U	200 U	230 U	200 U	220 U	61 J	200 U
Phenol		200 U	200 U	230 U	200 U	220 U	200 U	200 U
Pyrene		200 U	200 U	230 U	200 U	220 U	120 J	200 U
bis(2-Chloroethoxy)methane		200 U	200 U	230 U	200 U	220 U	200 U	200 U
bis(2-Chloroethyl)ether		200 U	200 U	230 U	200 U	220 U	200 U	200 U
bis(2-Ethylhexyl)phthalate		62 J	200 U	45 J	200 U	120 J	94 J	200 U
Total Semivolatiles		62	ND	45	ND	120	823	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
1,2-Dichlorobenzene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
1,3-Dichlorobenzene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
1,4-Dichlorobenzene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2,2'-Oxybis(1-Chloropropane)		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2,4,5-Trichlorophenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2,4,6-Trichlorophenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2,4-Dichlorophenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2,4-Dinitrophenol		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
2,4-Dinitrotoluene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2,6-Dinitrotoluene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2-Chloronaphthalene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2-Chlorophenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2-Methylnaphthalene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2-Methylphenol (o-cresol)		210 U	210 U	200 U	220 U	200 U	200 U	190 U
2-Nitroaniline		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
2-Nitrophenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
3,3'-Dichlorobenzidine		400 U	410 U	390 U	420 U	380 U	380 U	380 U
3-Methylphenol/4-Methylphenol		400 U	410 U	390 U	420 U	380 U	380 U	380 U
3-Nitroaniline		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
4,6-Dinitro-2-methylphenol		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
4-Bromophenylphenyl ether		210 U	210 U	200 U	220 U	200 U	200 U	190 U
4-Chloro-3-methylphenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
4-Chloroaniline		400 U	410 U	390 U	420 U	380 U	380 U	380 U
4-Chlorophenylphenyl ether		210 U	210 U	200 U	220 U	200 U	200 U	190 U
4-Nitroaniline		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
4-Nitrophenol		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
Acenaphthene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Acenaphthylene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Anthracene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Benzo(a)anthracene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Benzo(a)pyrene		110 U	110 U	100 U	110 U	100 U	100 U	100 U
Benzo(b)fluoranthene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Benzo(g,h,i)perylene		49 J	210 U	200 U	53 J	200 U	200 U	190 U
Benzo(k)fluoranthene		210 U	210 U	200 U	220 U	200 U	200 U	190 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Carbazole		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Chrysene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Di-n-butylphthalate		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Di-n-octylphthalate		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Dibenzo(a,h)anthracene		110 U	110 U	100 U	110 U	100 U	100 U	100 U
Dibenzofuran		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Diethylphthalate		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Dimethylphthalate		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Fluoranthene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Fluorene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Hexachlorobenzene		85 U	87 U	82 U	89 U	81 U	81 U	80 U
Hexachlorobutadiene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Hexachlorocyclopentadiene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Hexachloroethane		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Indeno(1,2,3-cd)pyrene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Isophorone		210 U	210 U	200 U	220 U	200 U	200 U	190 U
N-Nitroso-di-n-propylamine		210 U	210 U	200 U	220 U	200 U	200 U	190 U
N-Nitrosodiphenylamine		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Naphthalene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Nitrobenzene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Pentachlorophenol		1000 U	1000 U	1000 U	1100 U	980 U	980 U	970 U
Phenanthrene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Phenol		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Pyrene		210 U	210 U	200 U	220 U	200 U	200 U	190 U
bis(2-Chloroethoxy)methane		210 U	210 U	200 U	220 U	200 U	200 U	190 U
bis(2-Chloroethyl)ether		210 U	210 U	200 U	220 U	200 U	200 U	190 U
bis(2-Ethylhexyl)phthalate		210 U	210 U	200 U	220 U	200 U	200 U	190 U
Total Semivolatiles		49	ND	ND	53	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound							
1,2,4-Trichlorobenzene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
1,2-Dichlorobenzene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
1,3-Dichlorobenzene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
1,4-Dichlorobenzene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2,2'-Oxybis(1-Chloropropane)	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2,4,5-Trichlorophenol	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2,4,6-Trichlorophenol	200 U	190 U	200 U	190 U	2.1 U	180 U	200 U
2,4-Dichlorophenol	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2,4-Dinitrophenol	990 U	970 U	1000 U	960 U	14 U	880 U	980 U
2,4-Dinitrotoluene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2,6-Dinitrotoluene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2-Chloronaphthalene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2-Chlorophenol	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2-Methylnaphthalene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2-Methylphenol (o-cresol)	200 U	190 U	200 U	190 U	10 U	180 U	200 U
2-Nitroaniline	990 U	970 U	1000 U	960 U	50 U	880 U	980 U
2-Nitrophenol	200 U	190 U	200 U	190 U	10 U	180 U	200 U
3,3'-Dichlorobenzidine	380 U	380 U	390 U	370 U	20 U	340 U	380 U
3-Methylphenol/4-Methylphenol	380 U	380 U	390 U	370 U	10 U	340 U	380 U
3-Nitroaniline	990 U	970 U	1000 U	960 U	50 U	880 U	980 U
4,6-Dinitro-2-methylphenol	990 U	970 U	1000 U	960 U	13 U	880 U	980 U
4-Bromophenylphenyl ether	200 U	190 U	200 U	190 U	1.0 U	180 U	200 U
4-Chloro-3-methylphenol	200 U	190 U	200 U	190 U	10 U	180 U	200 U
4-Chloroaniline	380 U	380 U	390 U	370 U	20 U	340 U	380 U
4-Chlorophenylphenyl ether	200 U	190 U	200 U	190 U	10 U	180 U	200 U
4-Nitroaniline	990 U	970 U	1000 U	960 U	50 U	880 U	980 U
4-Nitrophenol	990 U	970 U	1000 U	960 U	50 U	880 U	980 U
Acenaphthene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
Acenaphthylene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
Anthracene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
Benzo(a)anthracene	200 U	190 U	200 U	23 J	10 U	180 U	200 U
Benzo(a)pyrene	100 U	100 U	110 U	100 U	10 U	93 U	100 U
Benzo(b)fluoranthene	200 U	27 J	200 U	30 J	10 U	180 U	200 U
Benzo(g,h,i)perylene	200 U	190 U	200 U	190 U	10 U	180 U	200 U
Benzo(k)fluoranthene	200 U	190 U	200 U	190 U	10 U	180 U	200 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

Compound	Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Butylbenzylphthalate		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Carbazole		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Chrysene		200 U	28 J	200 U	37 J	10 U	180 U	29 J
Di-n-butylphthalate		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Di-n-octylphthalate		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Dibenzo(a,h)anthracene		100 U	100 U	110 U	100 U	10 U	93 U	100 U
Dibenzofuran		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Diethylphthalate		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Dimethylphthalate		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Fluoranthene		200 U	37 J	200 U	50 J	10 U	180 U	200 U
Fluorene		200 U	190 U	200 U	190 U	1.0 U	180 U	200 U
Hexachlorobenzene		81 U	80 U	84 U	79 U	10 U	72 U	80 U
Hexachlorobutadiene		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Hexachlorocyclopentadiene		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Hexachloroethane		200 U	190 U	200 U	190 U	1.9 U	180 U	200 U
Indeno(1,2,3-cd)pyrene		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Isophorone		200 U	190 U	200 U	190 U	10 U	180 U	200 U
N-Nitroso-di-n-propylamine		200 U	190 U	200 U	190 U	10 U	180 U	200 U
N-Nitrosodiphenylamine		200 U	190 U	200 U	190 U	5.0 U	180 U	200 U
Naphthalene		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Nitrobenzene		200 U	190 U	200 U	190 U	3.5 U	180 U	200 U
Pentachlorophenol		990 U	970 U	1000 U	960 U	5.0 U	880 U	980 U
Phenanthrene		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Phenol		200 U	190 U	200 U	190 U	10 U	180 U	200 U
Pyrene		200 U	190 U	200 U	190 U	10 U	180 U	200 U
bis(2-Chloroethoxy)methane		200 U	190 U	200 U	190 U	10 U	180 U	200 U
bis(2-Chloroethyl)ether		200 U	190 U	200 U	190 U	10 U	180 U	200 U
bis(2-Ethylhexyl)phthalate		200 U	190 U	200 U	190 U	0.56 J	120 J	200 U
Total Semivolatiles		ND	92	ND	140	0.56	120	29

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
1,2-Dichlorobenzene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
1,3-Dichlorobenzene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
1,4-Dichlorobenzene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2,2'-Oxybis(1-Chloropropane)		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2,4,5-Trichlorophenol		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2,4,6-Trichlorophenol		220 U	180 U	220 U	2.1 U	190 U	200 U	180 U
2,4-Dichlorophenol		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2,4-Dinitrophenol		1100 U	890 U	1100 U	14 U	960 U	1000 U	900 U
2,4-Dinitrotoluene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2,6-Dinitrotoluene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2-Chloronaphthalene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2-Chlorophenol		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2-Methylnaphthalene		220 U	180 U	220 U	10 U	190 U	200 U	72 J
2-Methylphenol (o-cresol)		220 U	180 U	220 U	10 U	190 U	200 U	180 U
2-Nitroaniline		1100 U	890 U	1100 U	50 U	960 U	1000 U	900 U
2-Nitrophenol		220 U	180 U	220 U	10 U	190 U	200 U	180 U
3,3'-Dichlorobenzidine		430 U	340 U	420 U	20 U	380 U	390 U	350 U
3-Methylphenol/4-Methylphenol		430 U	340 U	420 U	10 U	190 U	200 U	180 U
3-Nitroaniline		1100 U	890 U	1100 U	50 U	960 U	1000 U	900 U
4,6-Dinitro-2-methylphenol		1100 U	890 U	1100 U	13 U	960 U	1000 U	900 U
4-Bromophenylphenyl ether		220 U	180 U	220 U	1.0 U	190 U	200 U	180 U
4-Chloro-3-methylphenol		220 U	180 U	220 U	10 U	190 U	200 U	180 U
4-Chloroaniline		430 U	340 U	420 U	20 U	380 U	390 U	350 U
4-Chlorophenylphenyl ether		220 U	180 U	220 U	10 U	190 U	200 U	180 U
4-Nitroaniline		1100 U	890 U	1100 U	50 U	960 U	1000 U	900 U
4-Nitrophenol		1100 U	890 U	1100 U	50 U	960 U	1000 U	900 U
Acenaphthene		220 U	180 U	220 U	10 U	190 U	200 U	1200
Acenaphthylene		220 U	180 U	220 U	10 U	190 U	200 U	49 J
Anthracene		220 U	51 J	220 U	10 U	190 U	200 U	2300
Benzo(a)anthracene		220 U	480	220 U	10 U	34 J	200 U	4300
Benzo(a)pyrene		120 U	860	120 U	10 U	100 U	110 U	3500
Benzo(b)fluoranthene		220 U	970	220 U	10 U	190 U	200 U	3500
Benzo(g,h,i)perylene		220 U	830	220 U	10 U	190 U	200 U	2200
Benzo(k)fluoranthene		220 U	1000	220 U	10 U	190 U	200 U	3300

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Carbazole		220 U	88 J	220 U	10 U	190 U	200 U	1000
Chrysene		220 U	980	220 U	10 U	35 J	200 U	4400
Di-n-butylphthalate		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Di-n-octylphthalate		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Dibenzo(a,h)anthracene		120 U	250	120 U	10 U	90 U	110 U	810
Dibenzofuran		220 U	180 U	220 U	10 U	190 U	200 U	770
Diethylphthalate		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Dimethylphthalate		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Fluoranthene		220 U	1500	220 U	10 U	41 J	200 U	10000
Fluorene		220 U	180 U	220 U	1.0 U	190 U	200 U	1400
Hexachlorobenzene		91 U	73 U	90 U	10 U	80 U	84 U	74 U
Hexachlorobutadiene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Hexachlorocyclopentadiene		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Hexachloroethane		220 U	180 U	220 U	1.9 U	190 U	200 U	180 U
Indeno(1,2,3-cd)pyrene		220 U	690	220 U	10 U	190 U	200 U	2000
Isophorone		220 U	180 U	220 U	10 U	190 U	200 U	180 U
N-Nitroso-di-n-propylamine		220 U	180 U	220 U	10 U	190 U	200 U	180 U
N-Nitrosodiphenylamine		220 U	180 U	220 U	5.0 U	190 U	200 U	180 U
Naphthalene		220 U	180 U	220 U	10 U	190 U	200 U	41 J
Nitrobenzene		220 U	180 U	220 U	3.5 U	190 U	200 U	180 U
Pentachlorophenol		1100 U	890 U	1100 U	5.0 U	960 U	1000 U	900 U
Phenanthrene		220 U	530	220 U	10 U	190 U	200 U	9200
Phenol		220 U	180 U	220 U	10 U	190 U	200 U	180 U
Pyrene		220 U	1400	220 U	10 U	190 U	200 U	8500
bis(2-Chloroethoxy)methane		220 U	180 U	220 U	10 U	190 U	200 U	180 U
bis(2-Chloroethyl)ether		220 U	180 U	220 U	10 U	190 U	200 U	180 U
bis(2-Ethylhexyl)phthalate		220 U	61 J	220 U	1.8 U	190 U	8700	180 U
Total Semivolatiles		ND	9690	ND	ND	110	8700	58542

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,2-Dichlorobenzene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,3-Dichlorobenzene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
1,4-Dichlorobenzene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,2'-Oxybis(1-Chloropropane)		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,4,5-Trichlorophenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,4,6-Trichlorophenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,4-Dichlorophenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,4-Dinitrophenol		920 U	900 U	900 U	890 U	890 U	880 U	890 U
2,4-Dinitrotoluene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2,6-Dinitrotoluene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2-Chloronaphthalene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2-Chlorophenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2-Methylnaphthalene		180 U	33 J	180 U	180 U	180 U	180 U	180 U
2-Methylphenol (o-cresol)		180 U	180 U	180 U	180 U	180 U	180 U	180 U
2-Nitroaniline		920 U	900 U	900 U	890 U	890 U	880 U	890 U
2-Nitrophenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
3,3'-Dichlorobenzidine		360 U	350 U	350 U	350 U	340 U	340 U	340 U
3-Methylphenol/4-Methylphenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
3-Nitroaniline		920 U	900 U	900 U	890 U	890 U	880 U	890 U
4,6-Dinitro-2-methylphenol		920 U	900 U	900 U	890 U	890 U	880 U	890 U
4-Bromophenylphenyl ether		180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Chloro-3-methylphenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Chloroaniline		360 U	350 U	350 U	350 U	340 U	340 U	340 U
4-Chlorophenylphenyl ether		180 U	180 U	180 U	180 U	180 U	180 U	180 U
4-Nitroaniline		920 U	900 U	900 U	890 U	890 U	880 U	890 U
4-Nitrophenol		920 U	900 U	900 U	890 U	890 U	880 U	890 U
Acenaphthene		180 U	310	130 J	180 U	180 U	180 U	180 U
Acenaphthylene		180 U	56 J	94 J	180 U	180 U	180 U	180 U
Anthracene		180 U	600	430	26 J	180 U	180 U	180 U
Benzo(a)anthracene		33 J	1200	1200	70 J	55 J	81 J	53 J
Benzo(a)pyrene		98 U	1100	1000	95 U	94 U	120 U	100 U
Benzo(b)fluoranthene		180 U	1000	880	180 U	180 U	180 U	180 U
Benzo(g,h,i)perylene		180 U	670	580	180 U	180 U	180 U	180 U
Benzo(k)fluoranthene		180 U	840	900	180 U	180 U	180 U	180 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Carbazole		180 U	200	96 J	180 U	180 U	180 U	180 U
Chrysene		39 J	1100	1200	76 J	56 J	110 J	62 J
Di-n-butylphthalate		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Di-n-octylphthalate		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Dibenzo(a,h)anthracene		98 U	95 U	140 U	95 U	94 U	93 U	95 U
Dibenzofuran		180 U	160 J	84 J	180 U	180 U	180 U	180 U
Diethylphthalate		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Dimethylphthalate		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Fluoranthene		54 J	2900	2600	190	120 J	170 J	180 U
Fluorene		180 U	310	140 J	180 U	180 U	180 U	180 U
Hexachlorobenzene		76 U	74 U	74 U	73 U	73 U	72 U	73 U
Hexachlorobutadiene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Hexachlorocyclopentadiene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Hexachloroethane		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Indeno(1,2,3-cd)pyrene		180 U	610	510	180 U	180 U	180 U	180 U
Isophorone		180 U	180 U	180 U	180 U	180 U	180 U	180 U
N-Nitroso-di-n-propylamine		180 U	180 U	180 U	180 U	180 U	180 U	180 U
N-Nitrosodiphenylamine		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Naphthalene		180 U	68 J	180 U	180 U	180 U	180 U	180 U
Nitrobenzene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Pentachlorophenol		920 U	900 U	900 U	890 U	890 U	880 U	890 U
Phenanthrene		36 J	2400	1800	100 J	66 J	75 J	180 U
Phenol		180 U	180 U	180 U	180 U	180 U	180 U	180 U
Pyrene		56 J	2300	2300	150 J	96 J	160 J	180 U
bis(2-Chloroethoxy)methane		180 U	180 U	180 U	180 U	180 U	180 U	180 U
bis(2-Chloroethyl)ether		180 U	180 U	180 U	180 U	180 U	180 U	180 U
bis(2-Ethylhexyl)phthalate		180 U	180 U	180 U	260 U	450 U	180 U	180 U
Total Semivolatiles		218	15857	13944	612	393	596	115

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0.5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
1,2-Dichlorobenzene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
1,3-Dichlorobenzene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
1,4-Dichlorobenzene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2,2'-Oxybis(1-Chloropropane)		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2,4,5-Trichlorophenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2,4,6-Trichlorophenol		180 U	2.1 U	180 U	2.1 U	200 U	200 UJ	190 U
2,4-Dichlorophenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2,4-Dinitrophenol		880 U	14 U	880 U	14 U	1000 U	1000 UJ	930 U
2,4-Dinitrotoluene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2,6-Dinitrotoluene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2-Chloronaphthalene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2-Chlorophenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2-Methylnaphthalene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2-Methylphenol (o-cresol)		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
2-Nitroaniline		880 U	50 U	880 U	50 U	1000 U	1000 UJ	930 U
2-Nitrophenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
3,3'-Dichlorobenzidine		340 U	20 U	340 U	20 U	390 U	390 UJ	360 U
3-Methylphenol/4-Methylphenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
3-Nitroaniline		880 U	50 U	880 U	50 U	1000 U	1000 UJ	930 U
4,6-Dinitro-2-methylphenol		880 U	13 U	880 U	13 U	1000 U	1000 UJ	930 U
4-Bromophenylphenyl ether		180 U	1.0 U	180 U	1.0 U	200 U	200 UJ	190 U
4-Chloro-3-methylphenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
4-Chloroaniline		340 U	20 U	340 U	20 U	390 U	390 UJ	360 U
4-Chlorophenylphenyl ether		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
4-Nitroaniline		880 U	50 U	880 U	50 U	1000 U	1000 UJ	930 U
4-Nitrophenol		880 U	50 U	880 U	50 U	1000 U	1000 UJ	930 U
Acenaphthene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Acenaphthylene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Anthracene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Benzo(a)anthracene		73 J	10 U	180 U	10 U	82 J	110 J	190 U
Benzo(a)pyrene		94 U	10 U	93 U	10 U	100 U	130 J	98 U
Benzo(b)fluoranthene		93 J	10 U	180 U	10 U	120 J	110 J	190 U
Benzo(g,h,i)perylene		180 U	10 U	180 U	10 U	200 U	130 J	190 U
Benzo(k)fluoranthene		180 U	10 U	180 U	10 U	200 U	140 J	190 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0.5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Carbazole		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Chrysene		120 J	10 U	180 U	10 U	120 J	200 J	190 U
Di-n-butylphthalate		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Di-n-octylphthalate		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Dibenzo(a,h)anthracene		93 U	10 U	93 U	10 U	48 J	110 UJ	98 U
Dibenzofuran		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Diethylphthalate		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Dimethylphthalate		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Fluoranthene		200	10 U	180 U	10 U	200	290 J	190 U
Fluorene		180 U	1.0 U	180 U	1.0 U	200 U	200 UJ	190 U
Hexachlorobenzene		73 U	10 U	72 U	10 U	82 U	82 UJ	77 U
Hexachlorobutadiene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Hexachlorocyclopentadiene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Hexachloroethane		180 U	1.9 U	180 U	1.9 U	200 U	200 UJ	190 U
Indeno(1,2,3-cd)pyrene		79 J	10 U	180 U	10 U	84 J	100 J	190 U
Isophorone		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
N-Nitroso-di-n-propylamine		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
N-Nitrosodiphenylamine		180 U	5.0 U	180 U	5.0 U	200 U	200 UJ	190 U
Naphthalene		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Nitrobenzene		180 U	3.5 U	180 U	3.5 U	200 U	200 UJ	190 U
Pentachlorophenol		880 U	5.0 U	880 U	5.0 U	1000 U	1000 UJ	930 U
Phenanthrene		74 J	10 U	180 U	10 U	80 J	110 J	190 U
Phenol		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
Pyrene		160 J	10 U	180 U	10 U	170 J	210 J	190 U
bis(2-Chloroethoxy)methane		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
bis(2-Chloroethyl)ether		180 U	10 U	180 U	10 U	200 U	200 UJ	190 U
bis(2-Ethylhexyl)phthalate		180 U	1.8 U	120 J	1.8 U	200 U	200 UJ	190 U
Total Semivolatiles		799	ND	120	ND	904	1530	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
1,2,4-Trichlorobenzene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
1,2-Dichlorobenzene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
1,3-Dichlorobenzene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
1,4-Dichlorobenzene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2,2'-Oxybis(1-Chloropropane)		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2,4,5-Trichlorophenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2,4,6-Trichlorophenol		190 U	200 U	200 U	190 U	200 U	180 U	2.1 U
2,4-Dichlorophenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2,4-Dinitrophenol		940 U	990 U	1000 U	970 U	1000 U	930 U	14 U
2,4-Dinitrotoluene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2,6-Dinitrotoluene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2-Chloronaphthalene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2-Chlorophenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2-Methylnaphthalene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2-Methylphenol (o-cresol)		190 U	200 U	200 U	190 U	200 U	180 U	10 U
2-Nitroaniline		940 U	990 U	1000 U	970 U	1000 U	930 U	50 U
2-Nitrophenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
3,3'-Dichlorobenzidine		370 U	380 U	390 U	380 U	390 U	360 U	20 U
3-Methylphenol/4-Methylphenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
3-Nitroaniline		940 U	990 U	1000 U	970 U	1000 U	930 U	50 U
4,6-Dinitro-2-methylphenol		940 U	990 U	1000 U	970 U	1000 U	930 U	13 U
4-Bromophenylphenyl ether		190 U	200 U	200 U	190 U	200 U	180 U	1.0 U
4-Chloro-3-methylphenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
4-Chloroaniline		370 U	380 U	390 U	380 U	390 U	360 U	20 U
4-Chlorophenylphenyl ether		190 U	200 U	200 U	190 U	200 U	180 U	10 U
4-Nitroaniline		940 U	990 U	1000 U	970 U	1000 U	930 U	50 U
4-Nitrophenol		940 U	990 U	1000 U	970 U	1000 U	930 U	50 U
Acenaphthene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Acenaphthylene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Anthracene		190 U	200 U	200 U	35 J	200 U	180 U	10 U
Benzo(a)anthracene		190 U	25 J	200 U	160 J	33 J	54 J	10 U
Benzo(a)pyrene		100 U	100 U	110 U	160 U	100 U	98 U	10 U
Benzo(b)fluoranthene		55 J	34 J	200 U	150 J	200 U	67 J	10 U
Benzo(g,h,i)perylene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Benzo(k)fluoranthene		190 U	200 U	200 U	190 U	200 U	180 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Butylbenzylphthalate		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Carbazole		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Chrysene		190 U	30 J	200 U	200	42 J	68 J	10 U
Di-n-butylphthalate		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Di-n-octylphthalate		140 J	200 U	200 U	190 U	200 U	180 U	10 U
Dibenzo(a,h)anthracene		140	100 U	110 U	100 U	100 U	26 J	10 U
Dibenzofuran		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Diethylphthalate		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Dimethylphthalate		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Fluoranthene		190 U	42 J	200 U	360	79 J	120 J	10 U
Fluorene		190 U	200 U	200 U	190 U	200 U	180 U	1.0 U
Hexachlorobenzene		78 U	82 U	83 U	80 U	82 U	76 U	10 U
Hexachlorobutadiene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Hexachlorocyclopentadiene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Hexachloroethane		190 U	200 U	200 U	190 U	200 U	180 U	1.9 U
Indeno(1,2,3-cd)pyrene		130 J	200 U	200 U	110 J	200 U	51 J	10 U
Isophorone		190 U	200 U	200 U	190 U	200 U	180 U	10 U
N-Nitroso-di-n-propylamine		190 U	200 U	200 U	190 U	200 U	180 U	10 U
N-Nitrosodiphenylamine		190 U	200 U	200 U	190 U	200 U	180 U	5.0 U
Naphthalene		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Nitrobenzene		190 U	200 U	200 U	190 U	200 U	180 U	3.5 U
Pentachlorophenol		940 U	990 U	1000 U	970 U	1000 U	930 U	5.0 U
Phenanthrene		190 U	200 U	200 U	160 J	57 J	55 J	10 U
Phenol		190 U	200 U	200 U	190 U	200 U	180 U	10 U
Pyrene		190 U	200 U	200 U	310	200 U	97 J	10 U
bis(2-Chloroethoxy)methane		190 U	200 U	200 U	190 U	200 U	180 U	10 U
bis(2-Chloroethyl)ether		190 U	200 U	200 U	190 U	200 U	180 U	10 U
bis(2-Ethylhexyl)phthalate		120 J	29 J	200 U	190 U	200 U	180 U	1.8 U
Total Semivolatiles		585	160	ND	1485	211	538	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
1,2-Dichlorobenzene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
1,3-Dichlorobenzene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
1,4-Dichlorobenzene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2,2'-Oxybis(1-Chloropropane)		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2,4,5-Trichlorophenol		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2,4,6-Trichlorophenol		200 U	2.1 U	180 U	190 U	190 U	220 U	210 U
2,4-Dichlorophenol		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2,4-Dinitrophenol		1000 U	14 U	920 U	970 U	960 U	1100 U	1000 U
2,4-Dinitrotoluene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2,6-Dinitrotoluene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2-Chloronaphthalene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2-Chlorophenol		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2-Methylnaphthalene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2-Methylphenol (o-cresol)		200 U	10 U	180 U	190 U	190 U	220 U	210 U
2-Nitroaniline		1000 U	50 U	920 U	970 U	960 U	1100 U	1000 U
2-Nitrophenol		200 U	10 U	180 U	190 U	190 U	220 U	210 U
3,3'-Dichlorobenzidine		390 U	20 U	360 U	380 U	370 U	420 U	410 U
3-Methylphenol/4-Methylphenol		200 U	10 U	180 U	190 U	190 U	220 U	410 U
3-Nitroaniline		1000 U	50 U	920 U	970 U	960 U	1100 U	1000 U
4,6-Dinitro-2-methylphenol		1000 U	13 U	920 U	970 U	960 U	1100 U	1000 U
4-Bromophenylphenyl ether		200 U	1.0 U	180 U	190 U	190 U	220 U	210 U
4-Chloro-3-methylphenol		200 U	10 U	180 U	190 U	190 U	220 U	210 U
4-Chloroaniline		390 U	20 U	360 U	380 U	370 U	420 U	410 U
4-Chlorophenylphenyl ether		200 U	10 U	180 U	190 U	190 U	220 U	210 U
4-Nitroaniline		1000 U	50 U	920 U	970 U	960 U	1100 U	1000 U
4-Nitrophenol		1000 U	50 U	920 U	970 U	960 U	1100 U	1000 U
Acenaphthene		160 J	10 U	180 U	41 J	16 J	220 U	210 U
Acenaphthylene		49 J	10 U	180 U	190 U	190 U	220 U	210 U
Anthracene		360	10 U	180 U	92 J	32 J	66 J	210 U
Benzo(a)anthracene		940	10 U	88 J	280	150 J	160 J	63 J
Benzo(a)pyrene		880	10 U	97 U	270	160 U	150 U	84 J
Benzo(b)fluoranthene		640	10 U	88 J	260	160 J	150 J	85 J
Benzo(g,h,i)perylene		630	10 U	180 U	190 U	220 U	220 U	100 J
Benzo(k)fluoranthene		1100	10 U	180 U	220	190 U	220 U	69 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Carbazole		170 J	10 U	180 U	36 J	190 U	220 U	210 U
Chrysene		1100	10 U	110 J	300	190 J	180 J	91 J
Di-n-butylphthalate		200 U	10 U	180 U	190 U	190 U	220 U	95 J
Di-n-octylphthalate		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Dibenzo(a,h)anthracene		270	10 U	97 U	92 J	69 J	120 U	110 U
Dibenzofuran		120 J	10 U	180 U	190 U	190 U	220 U	210 U
Diethylphthalate		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Dimethylphthalate		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Fluoranthene		2500	10 U	210	650	290	360	120 J
Fluorene		130 J	1.0 U	180 U	190 U	190 U	36 J	210 U
Hexachlorobenzene		82 U	10 U	76 U	80 U	79 U	89 U	86 U
Hexachlorobutadiene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Hexachlorocyclopentadiene		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Hexachloroethane		200 U	1.9 U	180 U	190 U	190 U	220 U	210 U
Indeno(1,2,3-cd)pyrene		570	10 U	180 U	150 J	110 J	100 J	210 U
Isophorone		200 U	10 U	180 U	190 U	190 U	220 U	210 U
N-Nitroso-di-n-propylamine		200 U	10 U	180 U	190 U	190 U	220 U	210 U
N-Nitrosodiphenylamine		200 U	5.0 U	180 U	190 U	190 U	220 U	210 U
Naphthalene		49 J	10 U	180 U	190 U	190 U	41 J	210 U
Nitrobenzene		200 U	3.5 U	180 U	190 U	190 U	220 U	210 U
Pentachlorophenol		1000 U	5.0 U	920 U	970 U	960 U	1100 U	1000 U
Phenanthrene		1900	10 U	120 J	450	140 J	260	43 J
Phenol		200 U	10 U	180 U	190 U	190 U	220 U	210 U
Pyrene		2300	10 U	180 J	570	260	310	99 J
bis(2-Chloroethoxy)methane		200 U	10 U	180 U	190 U	190 U	220 U	210 U
bis(2-Chloroethyl)ether		200 U	10 U	180 U	190 U	190 U	220 U	210 U
bis(2-Ethylhexyl)phthalate		270	1.8 U	180 U	120 J	190 U	120 J	210 U
Total Semivolatiles		14138	ND	796	3531	1417	1783	849

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
1,2-Dichlorobenzene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
1,3-Dichlorobenzene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
1,4-Dichlorobenzene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2,2'-Oxybis(1-Chloropropane)		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2,4,5-Trichlorophenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2,4,6-Trichlorophenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2,4-Dichlorophenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2,4-Dinitrophenol		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
2,4-Dinitrotoluene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2,6-Dinitrotoluene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2-Chloronaphthalene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2-Chlorophenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2-Methylnaphthalene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2-Methylphenol (o-cresol)		240 U	180 U	200 U	200 U	200 U	190 U	190 U
2-Nitroaniline		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
2-Nitrophenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
3,3'-Dichlorobenzidine		460 U	360 U	400 U	380 U	380 U	380 U	360 U
3-Methylphenol/4-Methylphenol		460 U	360 U	400 U	380 U	380 U	380 U	360 U
3-Nitroaniline		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
4,6-Dinitro-2-methylphenol		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
4-Bromophenylphenyl ether		240 U	180 U	200 U	200 U	200 U	190 U	190 U
4-Chloro-3-methylphenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
4-Chloroaniline		460 U	360 U	400 U	380 U	380 U	380 U	360 U
4-Chlorophenylphenyl ether		240 U	180 U	200 U	200 U	200 U	190 U	190 U
4-Nitroaniline		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
4-Nitrophenol		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
Acenaphthene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Acenaphthylene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Anthracene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Benzo(a)anthracene		240 U	46 J	200 U	45 J	42 J	190 U	190 U
Benzo(a)pyrene		120 U	61 J	110 U	100 U	51 J	100 U	100 U
Benzo(b)fluoranthene		240 U	57 J	200 U	79 J	51 J	190 U	190 U
Benzo(g,h,i)perylene		240 U	63 J	200 U	59 J	50 J	190 U	190 U
Benzo(k)fluoranthene		240 U	51 J	200 U	36 J	45 J	190 U	190 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Carbazole		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Chrysene		240 U	64 J	200 U	70 J	59 J	190 U	190 U
Di-n-butylphthalate		110 J	170 J	120 J	76 J	74 J	65 J	26 J
Di-n-octylphthalate		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Dibenzo(a,h)anthracene		120 U	98 U	110 U	100 U	100 U	100 U	100 U
Dibenzofuran		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Diethylphthalate		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Dimethylphthalate		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Fluoranthene		240 U	99 J	200 U	110 J	92 J	190 U	190 U
Fluorene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Hexachlorobenzene		97 U	76 U	84 U	80 U	80 U	80 U	78 U
Hexachlorobutadiene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Hexachlorocyclopentadiene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Hexachloroethane		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Indeno(1,2,3-cd)pyrene		240 U	52 J	200 U	200 U	200 U	190 U	190 U
Isophorone		240 U	180 U	200 U	200 U	200 U	190 U	190 U
N-Nitroso-di-n-propylamine		240 U	180 U	200 U	200 U	200 U	190 U	190 U
N-Nitrosodiphenylamine		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Naphthalene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Nitrobenzene		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Pentachlorophenol		1200 U	920 U	1000 U	980 U	980 U	960 U	940 U
Phenanthrene		240 U	38 J	200 U	44 J	39 J	190 U	190 U
Phenol		240 U	180 U	200 U	200 U	200 U	190 U	190 U
Pyrene		240 U	90 J	200 U	100 J	80 J	190 U	190 U
bis(2-Chloroethoxy)methane		240 U	180 U	200 U	200 U	200 U	190 U	190 U
bis(2-Chloroethyl)ether		240 U	180 U	200 U	200 U	200 U	190 U	190 U
bis(2-Ethylhexyl)phthalate		180 J	42 J	200 U	200 U	200 U	100 J	50 J
Total Semivolatiles		290	833	120	619	583	165	76

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
1,2-Dichlorobenzene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
1,3-Dichlorobenzene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
1,4-Dichlorobenzene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2,2'-Oxybis(1-Chloropropane)		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2,4,5-Trichlorophenol		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2,4,6-Trichlorophenol		180 U	190 U	180 U	190 U	180 U	2.1 U	190 U
2,4-Dichlorophenol		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2,4-Dinitrophenol		910 U	940 U	920 U	960 U	900 U	14 U	950 U
2,4-Dinitrotoluene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2,6-Dinitrotoluene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2-Chloronaphthalene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2-Chlorophenol		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2-Methylnaphthalene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2-Methylphenol (o-cresol)		180 U	190 U	180 U	190 U	180 U	10 U	190 U
2-Nitroaniline		910 U	940 U	920 U	960 U	900 U	50 U	950 U
2-Nitrophenol		180 U	190 U	180 U	190 U	180 U	10 U	190 U
3,3'-Dichlorobenzidine		350 U	370 U	360 U	370 U	350 U	20 U	370 U
3-Methylphenol/4-Methylphenol		350 U	370 U	360 U	370 U	350 U	10 U	370 U
3-Nitroaniline		910 U	940 U	920 U	960 U	900 U	50 U	950 U
4,6-Dinitro-2-methylphenol		910 U	940 U	920 U	960 U	900 U	13 U	950 U
4-Bromophenylphenyl ether		180 U	190 U	180 U	190 U	180 U	1.0 U	190 U
4-Chloro-3-methylphenol		180 U	190 U	180 U	190 U	180 U	10 U	190 U
4-Chloroaniline		350 U	370 U	360 U	370 U	350 U	20 U	370 U
4-Chlorophenylphenyl ether		180 U	190 U	180 U	190 U	180 U	10 U	190 U
4-Nitroaniline		910 U	940 U	920 U	960 U	900 U	50 U	950 U
4-Nitrophenol		910 U	940 U	920 U	960 U	900 U	50 U	950 U
Acenaphthene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Acenaphthylene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Anthracene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Benzo(a)anthracene		36 J	190 U	46 J	190 U	86 J	10 U	36 J
Benzo(a)pyrene		44 J	100 U	55 J	100 U	95 J	10 U	38 J
Benzo(b)fluoranthene		40 J	190 U	65 J	190 U	130 J	10 U	37 J
Benzo(g,h,i)perylene		40 J	36 J	53 J	190 U	71 J	10 U	35 J
Benzo(k)fluoranthene		37 J	190 U	46 J	190 U	65 J	10 U	36 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound								
Butylbenzylphthalate		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Carbazole		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Chrysene		48 J	190 U	78 J	190 U	130 J	10 U	48 J
Di-n-butylphthalate		75 J	65 J	100 J	94 J	47 J	10 U	52 J
Di-n-octylphthalate		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Dibenzo(a,h)anthracene		97 U	100 U	98 U	100 U	95 U	10 U	100 U
Dibenzofuran		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Diethylphthalate		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Dimethylphthalate		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Fluoranthene		84 J	190 U	110 J	190 U	210	10 U	81 J
Fluorene		180 U	190 U	180 U	190 U	180 U	1.0 U	190 U
Hexachlorobenzene		75 U	78 U	76 U	79 U	74 U	10 U	78 U
Hexachlorobutadiene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Hexachlorocyclopentadiene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Hexachloroethane		180 U	190 U	180 U	190 U	180 U	1.9 U	190 U
Indeno(1,2,3-cd)pyrene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Isophorone		180 U	190 U	180 U	190 U	180 U	10 U	190 U
N-Nitroso-di-n-propylamine		180 U	190 U	180 U	190 U	180 U	10 U	190 U
N-Nitrosodiphenylamine		180 U	190 U	180 U	190 U	180 U	5.0 U	190 U
Naphthalene		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Nitrobenzene		180 U	190 U	180 U	190 U	180 U	3.5 U	190 U
Pentachlorophenol		910 U	940 U	920 U	960 U	900 U	5.0 U	950 U
Phenanthrene		37 J	190 U	41 J	190 U	77 J	10 U	31 J
Phenol		180 U	190 U	180 U	190 U	180 U	10 U	190 U
Pyrene		72 J	190 U	76 J	190 U	150 J	10 U	60 J
bis(2-Chloroethoxy)methane		180 U	190 U	180 U	190 U	180 U	10 U	190 U
bis(2-Chloroethyl)ether		180 U	190 U	180 U	190 U	180 U	10 U	190 U
bis(2-Ethylhexyl)phthalate		180 U	1100	180 U	270	54 J	1.8 U	180 J
Total Semivolatiles		513	1201	670	364	1115	ND	634

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg dw	ug/kg dw
Compound				
1,2,4-Trichlorobenzene		10 U	190 U	190 U
1,2-Dichlorobenzene		10 U	190 U	190 U
1,3-Dichlorobenzene		10 U	190 U	190 U
1,4-Dichlorobenzene		10 U	190 U	190 U
2,2'-Oxybis(1-Chloropropane)		10 U	190 U	190 U
2,4,5-Trichlorophenol		10 U	190 U	190 U
2,4,6-Trichlorophenol		2.1 U	190 U	190 U
2,4-Dichlorophenol		10 U	190 U	190 U
2,4-Dinitrophenol		14 U	940 U	940 U
2,4-Dinitrotoluene		10 U	190 U	190 U
2,6-Dinitrotoluene		10 U	190 U	190 U
2-Chloronaphthalene		10 U	190 U	190 U
2-Chlorophenol		10 U	190 U	190 U
2-Methylnaphthalene		10 U	65 J	190 U
2-Methylphenol (o-cresol)		10 U	190 U	190 U
2-Nitroaniline		50 U	940 U	940 U
2-Nitrophenol		10 U	190 U	190 U
3,3'-Dichlorobenzidine		20 U	370 U	370 U
3-Methylphenol/4-Methylphenol		10 U	370 U	370 U
3-Nitroaniline		50 U	940 U	940 U
4,6-Dinitro-2-methylphenol		13 U	940 U	940 U
4-Bromophenylphenyl ether		1.0 U	190 U	190 U
4-Chloro-3-methylphenol		10 U	190 U	190 U
4-Chloroaniline		20 U	370 U	370 U
4-Chlorophenylphenyl ether		10 U	190 U	190 U
4-Nitroaniline		50 U	940 U	940 U
4-Nitrophenol		50 U	940 U	940 U
Acenaphthene		10 U	190 U	190 U
Acenaphthylene		10 U	190 U	190 U
Anthracene		10 U	41 J	190 U
Benzo(a)anthracene		10 U	360	37 J
Benzo(a)pyrene		10 U	360	34 J
Benzo(b)fluoranthene		10 U	430	28 J
Benzo(g,h,i)perylene		10 U	270	190 U
Benzo(k)fluoranthene		10 U	310	190 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3b
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8270C Semivolatile Organic Compound Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg dw	ug/kg dw
Compound				
Butylbenzylphthalate		10 U	58 J	190 U
Carbazole		10 U	58 J	190 U
Chrysene		10 U	530	43 J
Di-n-butylphthalate		10 U	40 J	190 U
Di-n-octylphthalate		10 U	190 U	190 U
Dibenzo(a,h)anthracene		10 U	100	100 U
Dibenzofuran		10 U	190 U	190 U
Diethylphthalate		10 U	190 U	190 U
Dimethylphthalate		10 U	190 U	190 U
Fluoranthene		10 U	970	78 J
Fluorene		1.0 U	190 U	190 U
Hexachlorobenzene		10 U	78 U	78 U
Hexachlorobutadiene		10 U	190 U	190 U
Hexachlorocyclopentadiene		10 U	190 U	190 U
Hexachloroethane		1.9 U	190 U	190 U
Indeno(1,2,3-cd)pyrene		10 U	250	190 U
Isophorone		10 U	190 U	190 U
N-Nitroso-di-n-propylamine		10 U	190 U	190 U
N-Nitrosodiphenylamine		5.0 U	190 U	190 U
Naphthalene		10 U	190 U	190 U
Nitrobenzene		3.5 U	190 U	190 U
Pentachlorophenol		5.0 U	940 U	940 U
Phenanthrene		10 U	430	42 J
Phenol		10 U	190 U	190 U
Pyrene		10 U	700	190 U
bis(2-Chloroethoxy)methane		10 U	190 U	190 U
bis(2-Chloroethyl)ether		10 U	190 U	190 U
bis(2-Ethylhexyl)phthalate		1.8 U	64 J	7600
Total Semivolatiles		ND	5036	7862

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-3c

Soil – Pesticide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	BS-EE-04-0-0.5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0.5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0.5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
4,4'-DDD		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
4,4'-DDE		4.3 U	4.4 U	4.3 U	20	3.9 U	4 U	0.10 U
4,4'-DDT		4.3 U	4.4 U	4.3 U	17 J	3.9 U	4 U	0.10 U
Aldrin		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.050 U
Alpha Chlordane		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.050 U
Dieldrin		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
Endosulfan I		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.050 U
Endosulfan II		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
Endosulfan sulfate		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
Endrin		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
Endrin aldehyde		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
Endrin ketone		4.3 U	4.4 U	4.3 U	4.1 U	3.9 U	4 U	0.10 U
Gamma Chlordane		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.050 U
Heptachlor		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.050 U
Heptachlor epoxide		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.050 U
Methoxychlor		22 U	23 U	22 U	21 U	20 U	20 U	0.50 U
Toxaphene		220 U	230 U	220 U	210 U	200 U	200 U	5.0 U
alpha-BHC		0.66 U	0.67 U	0.65 U	0.62 U	0.6 U	0.6 U	0.039 U
beta-BHC		0.66 U	0.67 U	0.65 U	0.62 U	0.6 U	0.6 U	0.014 U
delta-BHC		0.66 U	0.67 U	0.65 U	0.62 U	0.6 U	0.6 U	0.012 U
gamma-BHC (Lindane)		2.2 U	2.3 U	2.2 U	2.1 U	2 U	2 U	0.019 U
Total Pesticides		ND	ND	ND	37	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S1-3-6FT	DAS-T1-S2-0-0.5FT	DAS-T1-S2-3-6FT	DAS-T1-S3-0-0.5FT
	Sample Date	01/27/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.1 U	3.8 U	3.8 U	3.8 U	3.8 U	0.53 J	3.9 U
4,4'-DDE		4.1 UJ	0.80 J	0.33 J	3.8 U	0.40 J	3.8 U	3.9 U
4,4'-DDT		4.1 UJ	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Aldrin		2.1 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Alpha Chlordane		2.1 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Dieldrin		4.1 UJ	3.8 U	3.8 U	3.8 U	3.8 U	1.2 J	1.5 J
Endosulfan I		2.1 UJ	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Endosulfan II		4.1 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Endosulfan sulfate		4.1 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Endrin		4.1 UJ	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Endrin aldehyde		4.1 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Endrin ketone		4.1 UJ	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Gamma Chlordane		2.1 UJ	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Heptachlor		2.1 U	1.9 U	1.9 U	2.0 U	1.9 U	0.26 J	2.0 U
Heptachlor epoxide		2.1 U	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Methoxychlor		21 U	19 U	19 U	20 U	19 U	20 U	20 U
Toxaphene		210 U	190 U	190 U	200 U	190 U	200 U	200 U
alpha-BHC		0.62 UJ	0.57 U	0.57 U	0.58 U	0.57 U	0.57 U	0.60 U
beta-BHC		0.62 U	0.57 U	0.57 U	0.58 U	0.57 U	0.57 U	0.60 U
delta-BHC		0.62 U	0.57 U	0.57 U	0.58 U	0.57 U	0.57 U	0.60 U
gamma-BHC (Lindane)		2.1 UJ	1.9 U	1.9 U	2.0 U	1.9 U	2.0 U	2.0 U
Total Pesticides		ND	0.8	0.33	ND	0.4	1.99	1.5

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT	DAS-T2-S1-3-6FT	DAS-T2-S2-0-0.5FT	DAS-T2-S2-3-6FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	0.56 J	3.6 UJ
4,4'-DDE		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 UJ
4,4'-DDT		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	14	3.6 UJ
Aldrin		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Alpha Chlordane		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Dieldrin		4.2 UJ	1.3 J	0.41 J	3.8 U	3.5 U	4.3 U	3.6 UJ
Endosulfan I		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Endosulfan II		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 UJ
Endosulfan sulfate		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 UJ
Endrin		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 UJ
Endrin aldehyde		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 UJ
Endrin ketone		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 UJ
Gamma Chlordane		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Heptachlor		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Heptachlor epoxide		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Methoxychlor		22 U	20 U	19 U	20 U	18 U	22 U	19 UJ
Toxaphene		220 U	200 U	190 U	200 U	180 U	220 U	190 UJ
alpha-BHC		0.64 U	0.60 U	0.56 U	0.57 U	0.53 U	0.66 U	0.55 UJ
beta-BHC		0.64 U	0.60 U	0.56 U	0.57 U	0.53 U	0.66 U	0.55 UJ
delta-BHC		0.64 U	0.60 U	0.56 U	0.57 U	0.53 U	0.66 U	0.55 UJ
gamma-BHC (Lindane)		2.2 U	2.0 U	1.9 U	2.0 U	1.8 U	2.2 U	1.9 UJ
Total Pesticides		ND	1.3	0.41	ND	ND	14.56	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S1-3-6FT	DAS-T3-S2-0-0.5FT	DAS-T3-S2-3-6FT	DAS-T3-S3-0-0.5FT	DAS-T3-S3-0-0.5FTEB
	Sample Date	04/18/00	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
4,4'-DDD		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
4,4'-DDE		3.7 U	4.1 U	4.3 U	1.7 J	3.7 U	0.92 J	0.10 U
4,4'-DDT		3.7 U	4.1 U	4.3 U	1.8 J	3.7 U	1.3 J	0.10 U
Aldrin		1.9 U	2.1 U	2.2 U	2.0 U	1.9 U	2.0 U	0.015 J
Alpha Chlordane		1.9 U	5.8	2.2 U	1.2 J	1.9 U	2.0 U	0.050 U
Dieldrin		3.7 U	0.67 J	4.3 U	0.99 J	3.7 U	0.97 J	0.10 U
Endosulfan I		1.9 U	2.1 U	2.2 U	2.0 U	1.9 U	2.0 U	0.050 U
Endosulfan II		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Endosulfan sulfate		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Endrin		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Endrin aldehyde		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Endrin ketone		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Gamma Chlordane		1.9 U	5.1 J	2.2 U	2.0 U	1.9 U	1.5 J	0.050 U
Heptachlor		1.9 U	2.1 U	2.2 U	2.0 U	1.9 U	2.0 U	0.050 U
Heptachlor epoxide		1.9 U	2.1 U	2.2 U	2.0 U	1.9 U	2.0 U	0.050 U
Methoxychlor		19 U	21 U	22 U	20 U	19 U	20 U	0.50 U
Toxaphene		190 U	210 U	220 U	200 U	190 U	200 U	5.0 U
alpha-BHC		0.56 U	0.62 U	0.65 U	0.60 U	0.56 U	0.57 U	0.039 U
beta-BHC		0.56 U	0.62 U	0.65 U	0.60 U	0.56 U	0.57 U	0.014 U
delta-BHC		0.56 U	0.62 U	0.65 U	0.60 U	0.56 U	0.57 U	0.017
gamma-BHC (Lindane)		1.9 U	2.1 U	2.2 U	2.0 U	1.9 U	2.0 U	0.019 U
Total Pesticides		ND	11.57	ND	5.69	ND	4.69	0.032

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	4.0 U	3.9 U
4,4'-DDE		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	4.0 U	3.9 U
4,4'-DDT		4.0 U	1.3 J	0.65 J	4.3 U	4.3 U	4 U	3.9 U
Aldrin		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Alpha Chlordane		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Dieldrin		4.0 U	1.3 J	1.0 J	4.3 U	4.3 U	4.0 U	3.9 U
Endosulfan I		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Endosulfan II		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	4.0 U	3.9 U
Endosulfan sulfate		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	0.14 J	1.0 J
Endrin		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	4.0 U	3.9 U
Endrin aldehyde		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	4.0 U	3.9 U
Endrin ketone		4.0 U	4.0 U	4.0 UJ	4.3 U	4.3 U	0.17 J	0.29 J
Gamma Chlordane		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Heptachlor		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Heptachlor epoxide		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Methoxychlor		21 U	21 U	20 UJ	22 U	22 U	1.5 J	20 U
Toxaphene		210 U	210 U	200 UJ	220 U	220 U	210 U	200 U
alpha-BHC		0.61 U	0.61 U	0.60 UJ	0.65 U	0.65 U	0.61 U	0.59 U
beta-BHC		0.61 U	0.61 U	0.60 UJ	0.65 U	0.65 U	0.61 U	0.59 U
delta-BHC		0.61 U	0.61 U	0.60 UJ	0.65 U	0.65 U	0.082 J	0.23 J
gamma-BHC (Lindane)		2.1 U	2.1 U	2.0 UJ	2.2 U	2.2 U	2.1 U	2.0 U
Total Pesticides		ND	2.6	1.65	ND	ND	1.892	1.52

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.0 U	4.3 U	7.8 U	0.10 U	3.9 U	3.9 U	3.6 U
4,4'-DDE		0.73 J	4.3 U	4.2 J	0.10 U	3.9 U	3.9 U	3.6 U
4,4'-DDT		4 U	4.3 U	24	0.10 U	3.9 U	3.9 U	3.6 U
Aldrin		2.1 U	2.2 U	4.0 U	0.010 J	2.0 U	2.0 U	1.9 U
Alpha Chlordane		2.1 U	2.2 U	54 D	0.050 U	2.0 U	2.0 U	1.9 U
Dieldrin		4 U	4.3 U	1.4 J	0.10 U	3.9 U	3.9 U	3.6 U
Endosulfan I		2.1 U	2.2 U	4.0 U	0.050 U	2.0 U	2.0 U	1.9 U
Endosulfan II		4.0 U	4.3 U	7.8 U	0.10 U	3.9 U	3.9 U	3.6 U
Endosulfan sulfate		0.10 J	4.3 U	7.8 U	0.10 U	3.9 U	3.9 U	3.6 U
Endrin		4.0 U	4.3 U	7.8 U	0.10 U	3.9 U	3.9 U	3.6 U
Endrin aldehyde		4.0 U	4.3 U	7.8 U	0.10 U	3.9 U	3.9 U	3.6 U
Endrin ketone		4.0 U	4.3 U	7.8 U	0.10 U	3.9 U	3.9 U	3.6 U
Gamma Chlordane		2.1 U	2.2 U	71 JD	0.050 U	2.0 U	2.0 U	1.9 U
Heptachlor		2.1 U	2.2 U	4.0 U	0.050 U	2.0 U	2.0 U	1.9 U
Heptachlor epoxide		2.1 U	2.2 U	30 J	0.050 U	2.0 U	2.0 U	1.9 U
Methoxychlor		21 U	22 U	40 U	0.50 U	20 U	20 U	19 U
Toxaphene		210 U	220 U	400 U	5.0 U	200 U	200 U	190 U
alpha-BHC		0.61 U	0.65 U	1.2 U	0.039 U	0.59 U	0.59 U	0.55 U
beta-BHC		0.61 U	0.65 U	1.2 U	0.014 U	0.59 U	0.59 U	0.55 U
delta-BHC		0.17 J	0.12 J	1.2 U	0.015	0.59 U	0.59 U	0.55 U
gamma-BHC (Lindane)		2.1 U	2.2 U	4.0 U	0.019 U	2.0 U	2.0 U	1.9 U
Total Pesticides		1	0.12	184.6	0.025	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		36 J	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	1.8 J
4,4'-DDE		8.3 J	3.7 U	0.66 J	3.8 U	2.0 J	3.8 U	0.80 J
4,4'-DDT		110	3.7 U	3.8 U	3.8 U	3.7 U	3.8 U	7.4 U
Aldrin		23	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	3.7 U
Alpha Chlordane		9.2 J	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	17
Dieldrin		120	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	7.4 U
Endosulfan I		9.3 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	3.7 U
Endosulfan II		18 U	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	7.4 U
Endosulfan sulfate		18 U	3.7 U	0.96 J	0.58 J	0.57 J	0.42 J	1.9 J
Endrin		6.1 J	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	2.2 J
Endrin aldehyde		18 U	3.7 U	3.9 U	3.8 U	3.7 U	3.8 U	0.75 J
Endrin ketone		18 U	3.7 U	0.67 J	3.8 U	0.23 J	3.8 U	7.4 U
Gamma Chlordane		78 D	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	18 J
Heptachlor		91 D	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	4.1
Heptachlor epoxide		9.3 U	1.9 U	0.18 J	1.9 U	1.9 U	2.0 U	3.7 U
Methoxychlor		38 J	19 U	3.8 J	19 U	1.5 J	20 U	5.5 J
Toxaphene		930 U	190 U	200 U	190 U	190 U	200 U	370 U
alpha-BHC		2.7 U	0.56 U	0.59 U	0.57 U	0.56 U	0.58 U	0.22 J
beta-BHC		2.7 U	0.56 U	0.59 U	0.57 U	0.56 U	0.58 U	3.8
delta-BHC		2.7 U	0.56 UJ	2.0 U	1.9 U	1.9 U	2.0 U	0.12 J
gamma-BHC (Lindane)		9.3 U	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	0.13 J
Total Pesticides		519.6	ND	6.27	0.58	4.3	0.42	56.32

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
	Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.7 U	3.8 U	4.2 U	1.3 J	4.3 U	4.1 U	4.0 U
4,4'-DDE		3.7 U	3.8 U	4.2 U	1.6 J	4.3 U	0.40 J	4.0 U
4,4'-DDT		3.7 U	3.8 U	4.2 U	15	4.3 U	0.51 J	4.0 U
Aldrin		1.9 U	2.0 U	2.2 U	2.0 U	2.2 U	2.1 U	2.0 U
Alpha Chlordane		1.9 U	0.30 J	2.2 U	11	2.2 U	2.1 U	2.0 U
Dieldrin		3.7 U	3.8 U	4.2 U	3.9 U	4.3 U	4.1 U	4.0 U
Endosulfan I		1.9 U	2.0 U	2.2 U	2.0 U	2.2 U	2.1 U	2.0 U
Endosulfan II		3.7 U	3.8 U	4.2 U	3.9 U	4.3 U	4.1 U	4.0 U
Endosulfan sulfate		3.7 U	3.8 U	0.57 J	3.9 U	0.32 J	0.39 J	4.0 U
Endrin		3.7 U	0.40 J	4.2 U	0.10 J	4.3 U	4.1 U	4.0 U
Endrin aldehyde		3.7 U	3.8 U	4.2 U	3.9 U	4.3 U	4.1 U	4.0 U
Endrin ketone		3.7 U	3.8 U	4.2 U	3.9 U	4.3 U	0.49 J	4.0 U
Gamma Chlordane		1.9 U	2.0 U	2.2 U	10 J	2.2 U	2.1 U	2.0 U
Heptachlor		1.9 U	2.0 U	2.2 U	2 U	2.2 U	2.1 UJ	2.0 U
Heptachlor epoxide		1.9 U	2.0 U	2.2 U	0.62 J	2.2 U	0.14 J	2.0 U
Methoxychlor		19 U	20 U	22 U	10 J	22 U	2.9 J	20 U
Toxaphene		190 U	200 U	220 U	200 U	220 U	210 U	200 U
alpha-BHC		0.56 U	0.58 U	0.64 U	0.59 U	0.66 U	0.62 U	0.60 U
beta-BHC		0.56 U	0.58 U	0.64 U	0.59 U	0.66 U	0.62 U	0.60 U
delta-BHC		0.14 J	2.0 U	2.2 U	0.18 J	2.2 U	0.62 U	0.60 U
gamma-BHC (Lindane)		1.9 U	2.0 U	2.2 U	0.087 J	2.2 U	2.1 U	2.0 U
Total Pesticides		0.14	0.7	0.57	49.887	0.32	4.83	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.1 U	4.1 U	4.2 U	4.4 U	3.9 U	3.6 U	3.8 U
4,4'-DDE		0.13 J	4.1 U	0.28 J	0.22 J	3.9 U	3.6 U	0.27 J
4,4'-DDT		0.12 J	4.1 U	0.14 J	4.4 U	3.9 U	3.6 U	0.70 J
Aldrin		2.1 U	2.1 U	2.2 U	2.2 U	2.0 U	1.8 U	2.0 U
Alpha Chlordane		2.1 U	2.1 U	2.2 U	2.2 U	2.0 U	1.8 U	2.0 U
Dieldrin		4.1 U	4.1 U	4.2 U	0.12 J	3.9 U	3.6 U	0.14 J
Endosulfan I		2.1 U	2.1 U	2.2 U	2.2 U	2.0 U	1.8 U	2.0 U
Endosulfan II		4.1 U	4.1 U	4.2 U	4.4 U	3.9 U	3.6 U	3.8 U
Endosulfan sulfate		0.093 J	4.1 U	0.11 J	4.4 U	3.9 U	3.6 U	0.45 J
Endrin		4.1 U	4.1 U	4.2 U	4.4 U	3.9 U	3.6 U	3.8 U
Endrin aldehyde		4.1 U	4.1 U	4.2 U	4.4 U	3.9 U	3.6 U	3.8 U
Endrin ketone		0.18 J	4.1 U	0.30 J	0.27 J	0.12 J	3.6 U	0.30 J
Gamma Chlordane		2.1 U	2.1 U	2.2 U	2.2 U	2.0 U	1.8 U	2.0 U
Heptachlor		2.1 U	2.1 U	2.2 U	2.2 U	2.0 U	1.8 U	2.0 U
Heptachlor epoxide		2.1 U	2.1 U	0.34 J	0.35 J	0.35 J	0.057 J	0.13 J
Methoxychlor		1.7 J	21 U	2.6 J	2.6 J	1.2 J	18 U	20 U
Toxaphene		210 U	210 U	220 U	220 U	200 U	180 U	200 U
alpha-BHC		0.62 U	0.63 U	0.64 U	0.66 U	0.59 U	0.54 U	0.58 U
beta-BHC		0.62 U	0.63 U	0.64 U	0.66 U	0.59 U	0.54 U	0.58 U
delta-BHC		0.62 U	0.63 U	0.64 U	0.66 U	0.59 U	0.54 U	0.58 U
gamma-BHC (Lindane)		2.1 U	2.1 U	2.2 U	2.2 U	2.0 U	1.8 U	2.0 U
Total Pesticides		2.223	ND	3.77	3.56	1.67	0.057	1.99

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.6 U	3.6 U	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
4,4'-DDE		0.14 J	0.086 J	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
4,4'-DDT		0.27 J	3.6 U	4.0 U	3.6 U	0.10 U	0.065 J	3.9 U
Aldrin		1.8 U	1.8 U	2.0 U	1.9 U	0.050 U	1.9 U	2.0 U
Alpha Chlordane		1.8 U	1.8 U	2.0 U	1.9 U	0.050 U	1.9 U	2.0 U
Dieldrin		3.6 U	0.089 J	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
Endosulfan I		1.8 U	1.8 U	2.0 U	1.9 U	0.050 U	1.9 U	2.0 U
Endosulfan II		3.6 U	3.6 U	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
Endosulfan sulfate		3.6 U	3.6 U	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
Endrin		3.6 U	3.6 U	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
Endrin aldehyde		3.6 U	3.6 U	4.0 U	3.6 U	0.10 U	3.6 U	3.9 U
Endrin ketone		0.18 J	0.24 J	4.0 U	0.20 J	0.10 U	0.26 J	3.9 U
Gamma Chlordane		1.8 U	1.8 U	2.0 U	1.9 U	0.050 U	1.9 U	2.0 U
Heptachlor		1.8 U	1.8 U	2.0 U	1.9 U	0.050 U	1.9 U	2.0 U
Heptachlor epoxide		1.8 U	0.090 J	2.0 U	1.9 U	0.050 U	0.064 J	2.0 U
Methoxychlor		1.6 J	18 U	20 U	1.6 J	0.50 U	2.2 J	20 U
Toxaphene		180 U	180 U	200 U	190 U	5.0 U	190 U	200 U
alpha-BHC		0.54 U	0.54 U	0.60 U	0.55 U	0.039 U	0.55 U	0.59 U
beta-BHC		0.54 U	0.54 U	0.60 U	0.55 U	0.014 U	0.55 U	0.59 U
delta-BHC		0.54 U	0.54 U	0.60 U	0.55 U	0.0053 J	0.55 U	0.59 U
gamma-BHC (Lindane)		1.8 U	1.8 U	2.0 U	1.9 U	0.019 U	1.9 U	2.0 U
Total Pesticides		2.19	0.505	ND	1.8	0.0053	2.589	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
	Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		0.10 U	3.8 U	3.6 U	3.5 U	4.0 U	3.7 U	4.0 U
4,4'-DDE		0.10 U	3.8 U	0.48 J	3.5 U	4.0 U	3.7 U	4.0 U
4,4'-DDT		0.10 U	3.8 U	0.54 J	3.5 U	0.14 J	3.7 U	0.52 J
Aldrin		0.050 U	2.0 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U
Alpha Chlordane		0.050 U	0.16 J	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U
Dieldrin		0.10 U	3.8 U	3.6 U	3.5 U	4.0 U	3.7 U	4.0 U
Endosulfan I		0.050 U	2.0 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U
Endosulfan II		0.10 U	3.8 U	3.6 U	3.5 U	4.0 U	3.7 U	4.0 U
Endosulfan sulfate		0.10 U	3.8 U	0.41 J	3.5 U	0.11 J	3.7 U	4.0 U
Endrin		0.10 U	3.8 U	3.6 U	3.5 U	4.0 U	3.7 U	4.0 U
Endrin aldehyde		0.10 U	3.8 U	3.6 U	3.5 U	4.0 U	3.7 U	4.0 U
Endrin ketone		0.10 U	3.8 U	0.81 J	3.5 U	0.14 J	3.7 U	4.0 U
Gamma Chlordane		0.050 U	2.0 U	0.20 J	1.8 U	2.0 U	1.9 U	2.1 U
Heptachlor		0.050 U	2.0 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U
Heptachlor epoxide		0.050 U	0.14 J	0.19 J	1.8 U	2.0 U	1.9 U	2.1 U
Methoxychlor		0.50 U	20 U	7.3 J	18 U	1.3 J	19 U	21 U
Toxaphene		5.0 U	200 U	190 U	180 U	200 U	190 U	210 U
alpha-BHC		0.039 U	0.58 U	0.55 U	0.53 U	0.60 U	0.56 UJ	0.61 UJ
beta-BHC		0.014 U	0.58 U	0.55 U	0.53 U	0.60 U	0.56 U	0.61 U
delta-BHC		0.0043 J	0.58 U	0.55 U	0.53 U	0.60 U	0.56 U	0.61 U
gamma-BHC (Lindane)		0.019 U	2.0 U	1.9 U	1.8 U	2.0 U	1.9 U	2.1 U
Total Pesticides		0.0043	0.3	9.93	ND	1.69	ND	0.52

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.8 U	3.9 U	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
4,4'-DDE		3.8 U	0.24 J	4.4 U	3.9 U	4.1 U	0.42 J	3.9 U
4,4'-DDT		3.8 U	0.61 J	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
Aldrin		2.0 U	2.0 U	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Alpha Chlordane		2.0 U	2.0 U	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Dieldrin		3.8 U	3.9 U	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
Endosulfan I		2.0 U	2.0 U	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Endosulfan II		3.8 U	3.9 U	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
Endosulfan sulfate		3.8 U	0.47 J	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
Endrin		3.8 U	3.9 U	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
Endrin aldehyde		3.8 U	3.9 U	4.4 U	3.9 U	4.1 U	3.9 U	3.9 U
Endrin ketone		3.8 U	0.13 J	4.4 U	3.9 U	4.1 U	1.3 J	3.9 U
Gamma Chlordane		2.0 U	2.0 U	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Heptachlor		2.0 U	2.0 U	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Heptachlor epoxide		2.0 U	0.15 J	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Methoxychlor		20 U	20 U	23 U	20 U	21 U	20 U	20 U
Toxaphene		200 U	200 U	230 U	200 U	210 U	200 U	200 U
alpha-BHC		0.57 UJ	0.60 U	0.67 UJ	0.58 UJ	0.63 UJ	0.60 UJ	0.59 UJ
beta-BHC		0.57 U	0.60 U	0.67 U	0.58 U	0.63 U	0.60 U	0.59 U
delta-BHC		0.57 U	0.60 U	0.67 U	0.58 U	0.63 U	0.60 U	0.59 U
gamma-BHC (Lindane)		2.0 U	2.0 U	2.3 U	2.0 U	2.1 U	2.0 U	2.0 U
Total Pesticides		ND	1.6	ND	ND	ND	1.72	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.0 U	4.2 U	3.9 U	4.1 U	3.8 U	3.8 U	3.8 U
4,4'-DDE		0.11 J	4.2 U	3.9 U	4.1 U	0.31 J	0.17 J	3.8 U
4,4'-DDT		4.0 U	4.2 U	3.9 U	4.1 U	1.1 J	0.39 J	3.8 U
Aldrin		2.1 U	2.1 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Alpha Chlordane		2.1 U	2.1 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Dieldrin		4.0 U	4.2 U	3.9 U	4.1 U	0.26 J	3.8 U	3.8 U
Endosulfan I		2.1 U	2.1 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Endosulfan II		4.0 U	4.2 U	3.9 U	4.1 U	3.8 U	3.8 U	3.8 U
Endosulfan sulfate		4.0 U	4.2 U	3.9 U	4.1 U	3.8 U	3.8 U	3.8 U
Endrin		4.0 U	4.2 U	3.9 U	4.1 U	3.8 U	3.8 U	3.8 U
Endrin aldehyde		4.0 U	4.2 U	3.9 U	4.1 U	3.8 U	3.8 U	3.8 U
Endrin ketone		0.17 J	4.2 U	3.9 U	4.1 U	3.8 U	3.8 U	3.8 U
Gamma Chlordane		2.1 U	2.1 U	2.0 U	2.1 U	0.18 J	2.0 U	2.0 U
Heptachlor		2.1 U	2.1 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Heptachlor epoxide		2.1 U	2.1 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Methoxychlor		21 U	21 U	20 U	21 U	20 U	20 U	20 U
Toxaphene		210 U	210 U	200 U	210 U	200 U	200 U	200 U
alpha-BHC		0.61 U	0.63 UJ	0.59 UJ	0.63 U	0.58 UJ	0.58 U	0.58 UJ
beta-BHC		0.61 U	0.63 U	0.59 U	0.63 U	0.58 U	0.58 U	0.58 U
delta-BHC		0.61 U	0.63 U	0.59 U	0.63 U	0.58 U	0.58 U	0.58 U
gamma-BHC (Lindane)		2.1 U	2.1 U	2.0 U	2.1 U	2.0 U	2.0 U	2.0 U
Total Pesticides		0.28	ND	ND	ND	1.85	0.56	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
4,4'-DDE		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
4,4'-DDT		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Aldrin		2.0 UJ	1.9 U	2.0 U	1.9 U	0.050 U	1.8 U	1.9 UJ
Alpha Chlordane		2.0 UJ	1.9 U	2.0 U	1.9 U	0.050 U	1.8 U	1.9 UJ
Dieldrin		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Endosulfan I		2.0 UJ	1.9 U	2.0 U	1.9 U	0.050 U	1.8 U	1.9 UJ
Endosulfan II		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Endosulfan sulfate		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Endrin		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Endrin aldehyde		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Endrin ketone		3.8 UJ	3.8 U	3.9 U	3.6 U	0.10 U	3.4 U	3.8 UJ
Gamma Chlordane		2.0 UJ	1.9 U	2.0 U	1.9 U	0.050 U	1.8 U	1.9 UJ
Heptachlor		2.0 UJ	1.9 U	2.0 U	1.9 U	0.050 U	1.8 U	1.9 UJ
Heptachlor epoxide		2.0 UJ	1.9 U	2.0 U	1.9 U	0.050 U	1.8 U	1.9 UJ
Methoxychlor		20 UJ	19 U	20 U	19 U	0.50 U	18 U	19 UJ
Toxaphene		200 UJ	190 U	200 U	190 U	5.0 U	180 U	190 UJ
alpha-BHC		0.58 UJ	0.57 UJ	0.59 UJ	0.55 UJ	0.039 U	0.52 UJ	0.57 UJ
beta-BHC		0.58 UJ	0.57 U	0.59 U	0.55 U	0.014 U	0.52 U	0.57 UJ
delta-BHC		0.58 UJ	0.57 U	0.59 U	0.55 U	0.0091 J	0.52 U	0.57 UJ
gamma-BHC (Lindane)		2.0 UJ	1.9 U	2.0 U	1.9 U	0.019 U	1.8 U	1.9 UJ
Total Pesticides		ND	ND	ND	ND	0.0091	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.3 U	3.4 U	4.2 U	0.10 U	3.7 U	3.9 UJ	3.5 U
4,4'-DDE		4.3 U	0.14 J	4.2 U	0.10 U	3.7 U	3.9 UJ	1.5 J
4,4'-DDT		4.3 U	0.40 J	4.2 U	0.10 U	3.7 U	3.9 UJ	3.0 J
Aldrin		2.2 U	1.8 U	2.2 U	0.050 U	1.9 U	2.0 UJ	1.8 U
Alpha Chlordane		2.2 U	1.8 U	2.2 U	0.050 U	1.9 U	2.0 UJ	3.1
Dieldrin		4.3 U	3.4 U	4.2 U	0.10 U	3.7 U	3.9 UJ	10
Endosulfan I		2.2 U	1.8 U	2.2 U	0.050 U	1.9 U	2.0 UJ	1.8 U
Endosulfan II		4.3 U	3.4 U	4.2 U	0.10 U	3.7 U	3.9 UJ	3.5 U
Endosulfan sulfate		4.3 U	3.4 U	4.2 U	0.10 U	3.7 U	3.9 UJ	3.5 U
Endrin		4.3 U	3.4 U	4.2 U	0.10 U	3.7 U	3.9 UJ	3.5 U
Endrin aldehyde		4.3 U	3.4 U	4.2 U	0.10 U	3.7 U	3.9 UJ	3.5 U
Endrin ketone		4.3 U	0.75 J	4.2 U	0.10 U	3.7 U	3.9 UJ	4.0 J
Gamma Chlordane		2.2 U	1.8 U	2.2 U	0.050 U	1.9 U	2.0 UJ	6.6
Heptachlor		2.2 U	1.8 U	2.2 U	0.050 U	1.9 U	2.0 UJ	0.34 J
Heptachlor epoxide		2.2 U	1.8 U	2.2 U	0.050 U	1.9 U	2.0 UJ	2.3 J
Methoxychlor		22 U	2.6 J	22 U	0.50 U	19 U	20 UJ	6.9 J
Toxaphene		220 U	180 U	220 U	5.0 U	190 U	200 UJ	180 U
alpha-BHC		0.65 UJ	0.52 U	0.64 U	0.039 U	0.56 U	0.60 UJ	0.52 U
beta-BHC		0.65 U	0.75 J	0.64 U	0.014 U	0.56 U	0.60 UJ	1.3 J
delta-BHC		0.65 U	0.52 U	0.64 UJ	0.012 U	0.56 U	0.60 UJ	0.52 U
gamma-BHC (Lindane)		2.2 U	1.8 U	2.2 U	0.019 U	1.9 U	2.0 UJ	1.8 U
Total Pesticides		ND	4.64	ND	ND	ND	ND	39.04

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
4,4'-DDE		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
4,4'-DDT		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
Aldrin		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Alpha Chlordane		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.0 J	1.8 U
Dieldrin		1.3 J	3.5 U	3.5 U	3.5 U	3.4 U	1.6 J	3.5 U
Endosulfan I		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Endosulfan II		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
Endosulfan sulfate		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
Endrin		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
Endrin aldehyde		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
Endrin ketone		3.6 U	3.5 U	3.5 U	3.5 U	3.4 U	3.4 U	3.5 U
Gamma Chlordane		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.96 J	1.8 U
Heptachlor		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Heptachlor epoxide		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Methoxychlor		18 U	7.4 J	12 J	18 U	18 U	0.93 J	18 U
Toxaphene		180 U	180 U	180 U	180 U	180 U	180 U	180 U
alpha-BHC		0.54 U	0.53 U	0.53 U	0.53 U	0.52 U	0.52 U	0.53 U
beta-BHC		0.54 U	0.30 J	0.53 U	0.14 J	0.52 U	0.10 J	0.53 U
delta-BHC		0.54 U	0.53 U	0.53 U	0.53 U	0.52 U	0.52 U	0.53 U
gamma-BHC (Lindane)		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Pesticides		1.3	7.7	12	0.14	ND	4.59	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T4-S5-0-0.5FT	UAS-T4-S5-3-6FT	UAS-T4-S6-0-0.5FT	UAS-T4-S6-3-6FT	UAS-T4-S7-0-0.5FT	UAS-T4-S7-3-6FT	UAS-T5-S1-0-0.5FT
	Sample Date	11/16/99	11/16/99	11/16/99	11/16/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.6 U	4.2 UJ	3.9 U	4.2 U	3.7 U	3.6 U	3.7 U
4,4'-DDE		3.6 U	4.2 UJ	1.2 J	4.2 U	0.90 J	3.6 U	3.7 U
4,4'-DDT		0.92 J	4.2 UJ	1.4 J	4.2 U	1.8 J	3.6 U	3.7 U
Aldrin		1.8 U	2.2 UJ	2.0 U	2.2 U	1.9 U	1.9 U	1.9 U
Alpha Chlordane		2.0	2.2 UJ	1.2 J	2.2 U	1.9 U	1.9 U	0.16 J
Dieldrin		3.6 J	4.2 UJ	2.1 J	4.2 U	2.3 J	3.6 U	3.7 U
Endosulfan I		1.8 U	2.2 UJ	2.0 U	2.2 U	1.9 U	1.9 U	1.9 U
Endosulfan II		3.6 U	4.2 UJ	3.9 U	4.2 U	3.7 U	3.6 U	3.7 U
Endosulfan sulfate		3.6 U	4.2 UJ	3.9 U	4.2 U	3.7 U	3.6 U	3.7 U
Endrin		3.6 U	4.2 UJ	3.9 U	4.2 U	3.7 U	3.6 U	3.7 U
Endrin aldehyde		3.6 U	4.2 UJ	3.9 U	4.2 U	3.7 U	3.6 U	0.24 J
Endrin ketone		2.3 J	4.2 UJ	3.9 U	4.2 U	1.3 J	3.6 U	3.7 U
Gamma Chlordane		3.6 J	2.2 UJ	1.2 J	2.2 U	1.9 U	1.9 U	1.9 U
Heptachlor		0.64 J	2.2 UJ	2.0 U	2.2 U	1.9 U	1.9 U	1.9 U
Heptachlor epoxide		0.74 J	2.2 UJ	0.19 J	2.2 U	1.9 U	1.9 U	1.9 U
Methoxychlor		5.4 J	22 UJ	20 U	22 U	19 U	7.6 J	19 U
Toxaphene		180 U	220 UJ	200 U	220 U	190 U	190 U	190 U
alpha-BHC		0.54 U	0.64 UJ	0.60 U	0.64 U	0.56 U	0.55 U	0.56 U
beta-BHC		0.95 J	0.64 UJ	0.60 U	0.64 U	0.56 U	0.55 U	0.56 U
delta-BHC		0.24 J	0.64 UJ	0.60 U	0.64 U	0.56 U	0.55 U	0.56 U
gamma-BHC (Lindane)		1.8 U	2.2 UJ	2.0 U	2.2 U	1.9 U	1.9 U	1.9 U
Total Pesticides		20.39	ND	7.29	ND	6.3	7.6	0.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T5-S1-3-6FT	UAS-T5-S2-0-0.5FT	UAS-T5-S2-3-6FT	UAS-T5-S3-0-0.5FT	UAS-T5-S3-3-6FT	UAS-T5-S4-0-0.5FT	UAS-T5-S4-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
4,4'-DDE		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 UJ	3.4 U
4,4'-DDT		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Aldrin		1.9 U	1.9 U	2.0 U	1.8 U	2.1 U	1.9 U	1.8 U
Alpha Chlordane		1.9 U	1.9 U	2.0 U	1.8 U	2.1 U	1.9 U	1.8 U
Dieldrin		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Endosulfan I		1.9 U	1.9 U	2.0 U	1.8 U	2.1 U	1.9 U	1.8 U
Endosulfan II		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Endosulfan sulfate		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Endrin		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Endrin aldehyde		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Endrin ketone		3.7 U	3.6 U	3.8 U	3.6 U	4.1 U	3.7 U	3.4 U
Gamma Chlordane		1.9 U	1.9 U	2.0 U	1.8 U	2.1 U	1.9 U	1.8 U
Heptachlor		1.9 U	1.9 U	2.0 U	1.8 U	2.1 U	1.9 U	1.8 U
Heptachlor epoxide		1.9 U	1.9 U	2.0 U	0.091 J	2.1 U	1.9 U	1.8 U
Methoxychlor		19 U	19 U	20 U	18 U	21 U	1.3 J	18 U
Toxaphene		190 U	190 U	200 U	180 U	210 U	190 U	180 U
alpha-BHC		0.56 U	0.55 U	0.58 U	0.54 U	0.62 U	0.56 U	0.52 U
beta-BHC		0.56 U	0.55 U	0.58 U	0.10 J	0.62 U	0.56 U	0.52 U
delta-BHC		0.56 U	0.55 U	0.58 U	0.54 U	0.62 U	0.56 U	0.52 U
gamma-BHC (Lindane)		1.9 U	1.9 U	2.0 U	1.8 U	2.1 U	1.9 U	1.8 U
Total Pesticides		ND	ND	ND	0.191	ND	1.3	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0.5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		3.4 U	0.10 U	3.4 U	0.10 U	19 U	20 U	3.6 U
4,4'-DDE		3.4 U	0.10 U	3.4 U	0.10 U	19 U	0.36 J	3.6 U
4,4'-DDT		3.4 U	0.10 U	3.4 U	0.10 U	19 U	0.35 J	3.6 U
Aldrin		1.8 U	0.050 U	1.8 U	0.050 U	9.9 U	10 U	1.8 U
Alpha Chlordane		1.8 U	0.050 U	1.8 U	0.050 U	9.9 U	10 U	1.8 U
Dieldrin		3.4 U	0.10 U	3.4 U	0.10 U	19 U	20 U	3.6 U
Endosulfan I		1.8 U	0.050 U	1.8 U	0.050 U	9.9 U	10 U	1.8 U
Endosulfan II		3.4 U	0.10 U	3.4 U	0.10 U	19 U	20 U	3.6 U
Endosulfan sulfate		3.4 U	0.10 U	3.4 U	0.10 U	19 U	20 U	3.6 U
Endrin		3.4 U	0.10 U	3.4 U	0.10 U	19 U	20 U	3.6 U
Endrin aldehyde		3.4 U	0.10 U	3.4 U	0.10 U	19 U	0.61 J	3.6 U
Endrin ketone		3.4 U	0.10 U	3.4 U	0.10 U	19 U	0.39 J	3.6 U
Gamma Chlordane		1.8 U	0.050 U	1.8 U	0.050 U	9.9 U	10 U	1.8 U
Heptachlor		1.8 U	0.050 U	1.8 U	0.050 U	9.9 U	10 U	1.8 U
Heptachlor epoxide		1.8 U	0.050 U	1.8 U	0.050 U	9.9 U	10 U	1.8 U
Methoxychlor		18 U	0.50 U	18 U	0.50 U	99 U	2.0 J	18 U
Toxaphene		180 U	5.0 U	180 U	5.0 U	990 U	1000 U	180 U
alpha-BHC		0.52 U	0.039 U	0.52 U	0.039 U	2.9 U	3.0 U	0.54 U
beta-BHC		0.52 U	0.014 U	0.52 U	0.014 U	2.9 U	3.0 U	0.54 U
delta-BHC		0.52 U	0.012 U	0.52 U	0.012 U	2.9 U	3.0 U	0.54 U
gamma-BHC (Lindane)		1.8 U	0.019 U	1.8 U	0.019 U	9.9 U	10 U	1.8 U
Total Pesticides		ND	ND	ND	ND	ND	3.71	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
4,4'-DDD		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
4,4'-DDE		3.6 U	3.9 U	3.9 U	15 J	7.7 U	7.2 U	0.10 U
4,4'-DDT		3.6 U	3.9 U	3.9 U	130 J	7.7 U	7.2 U	0.10 U
Aldrin		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.050 U
Alpha Chlordane		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.050 U
Dieldrin		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
Endosulfan I		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.050 U
Endosulfan II		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
Endosulfan sulfate		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
Endrin		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
Endrin aldehyde		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
Endrin ketone		3.6 U	3.9 U	3.9 U	19 U	7.7 U	7.2 U	0.10 U
Gamma Chlordane		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.050 U
Heptachlor		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.050 U
Heptachlor epoxide		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.050 U
Methoxychlor		19 U	20 U	20 U	97 U	40 U	37 U	0.50 U
Toxaphene		190 U	200 U	200 U	970 U	400 U	370 U	5.0 U
alpha-BHC		0.55 U	0.59 U	0.59 U	2.8 U	1.2 U	1.1 U	0.039 U
beta-BHC		0.55 U	0.59 U	0.59 U	2.8 U	1.2 U	1.1 U	0.014 U
delta-BHC		0.55 U	0.59 U	0.59 U	2.8 U	1.2 U	1.1 U	0.0051 J
gamma-BHC (Lindane)		1.9 U	2.0 U	2.0 U	9.7 U	4.0 U	3.7 U	0.019 U
Total Pesticides		ND	ND	ND	145	ND	ND	0.0051

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		38 U	0.10 U	6.4 J	19 U	19 U	84 U	4.1 U
4,4'-DDE		38 U	0.10 U	18 J	19 U	0.78 J	84 U	1.2 J
4,4'-DDT		38 U	0.10 U	140	19 U	1.6 J	84 U	1.7 J
Aldrin		20 U	0.050 U	18 U	9.7 U	9.6 U	43 U	2.1 U
Alpha Chlordane		20 U	0.050 U	18 U	9.7 U	0.50 J	43 U	2.1 U
Dieldrin		38 U	0.10 U	36 U	19 U	1.8 J	84 U	4.1 U
Endosulfan I		20 U	0.050 U	18 U	9.7 U	9.6 U	43 U	2.1 U
Endosulfan II		38 U	0.10 U	36 U	19 U	19 U	84 U	1.0 J
Endosulfan sulfate		38 U	0.10 U	36 U	19 U	19 U	84 U	4.1 U
Endrin		38 U	0.10 U	36 U	19 U	19 U	84 U	4.1 U
Endrin aldehyde		38 U	0.10 U	36 U	19 U	19 U	84 U	4.1 U
Endrin ketone		38 U	0.10 U	36 U	19 U	19 U	84 U	1.9 J
Gamma Chlordane		20 U	0.050 U	18 U	9.7 U	0.94 J	43 U	0.80 J
Heptachlor		20 U	0.050 U	18 U	9.7 U	9.6 U	43 U	2.1 U
Heptachlor epoxide		20 U	0.050 U	18 U	9.7 U	9.6 U	43 U	0.26 J
Methoxychlor		200 U	0.50 U	180 U	97 U	96 U	430 U	4.2 J
Toxaphene		2000 U	5.0 U	1800 U	970 U	960 U	4300 U	210 U
alpha-BHC		5.8 U	0.039 U	5.4 U	2.9 U	2.8 U	13 U	0.62 U
beta-BHC		5.8 U	0.014 U	5.4 U	2.9 U	2.8 U	13 U	0.62 U
delta-BHC		5.8 U	0.0039 J	5.4 U	2.9 U	2.8 U	13 U	0.62 U
gamma-BHC (Lindane)		20 U	0.019 U	18 U	9.7 U	9.6 U	43 U	2.1 U
Total Pesticides		ND	0.0039	164.4	ND	5.62	ND	11.06

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.6 U	3.6 U	4.0 U	3.7 U	3.8 U	3.7 U	3.6 U
4,4'-DDE		4.6 U	1.8 J	4.0 U	1.4 J	1.9 J	3.7 U	3.6 U
4,4'-DDT		4.6 U	1.2 J	4.0 U	1.0 J	1.2 J	3.7 U	3.6 U
Aldrin		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Alpha Chlordane		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Dieldrin		4.6 U	0.27 J	4.0 U	3.7 U	3.8 U	3.7 U	3.6 U
Endosulfan I		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Endosulfan II		4.6 U	3.6 U	4.0 U	3.7 U	3.8 U	3.7 U	3.6 U
Endosulfan sulfate		4.6 U	3.6 U	4.0 U	3.7 U	3.8 U	3.7 U	3.6 U
Endrin		4.6 U	3.6 U	4.0 U	3.7 U	3.8 U	3.7 U	3.6 U
Endrin aldehyde		4.6 U	3.6 U	4.0 U	3.7 U	3.8 U	3.7 U	3.6 U
Endrin ketone		4.6 U	0.25 J	4.0 U	0.14 J	0.20 J	3.7 U	3.6 U
Gamma Chlordane		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Heptachlor epoxide		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Methoxychlor		23 U	0.99 J	20 U	2.1 J	19 U	19 U	19 U
Toxaphene		230 U	180 U	200 U	190 U	190 U	190 U	190 U
alpha-BHC		0.69 U	0.54 U	0.60 U	0.57 U	0.57 U	0.56 U	0.55 U
beta-BHC		0.69 U	0.54 U	0.60 U	0.57 U	0.57 U	0.56 U	0.55 U
delta-BHC		0.69 U	0.54 U	0.60 U	0.57 U	0.57 U	0.56 U	0.55 U
gamma-BHC (Lindane)		2.3 U	1.8 U	2.0 U	1.9 U	1.9 U	1.9 U	1.9 U
Total Pesticides		ND	4.51	ND	4.64	3.3	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound								
4,4'-DDD		3.5 U	3.6 U	3.5 U	3.8 U	3.5 U	0.10 U	3.7 U
4,4'-DDE		0.30 J	3.6 U	3.5 U	3.8 UJ	24	0.10 U	0.34 J
4,4'-DDT		3.5 U	3.6 U	3.5 U	3.8 UJ	16	0.10 U	3.7 U
Aldrin		1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.050 U	1.9 U
Alpha Chlordane		1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.050 U	1.9 U
Dieldrin		3.5 U	3.6 U	3.5 U	3.8 U	3.5 U	0.10 U	3.7 U
Endosulfan I		1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.050 U	1.9 U
Endosulfan II		3.5 U	3.6 U	3.5 U	3.8 U	3.5 U	0.10 U	3.7 U
Endosulfan sulfate		3.5 U	3.6 U	3.5 U	3.8 UJ	3.5 U	0.10 U	3.7 U
Endrin		3.5 U	3.6 U	3.5 UJ	3.8 UJ	3.5 U	0.10 U	3.7 U
Endrin aldehyde		3.5 U	3.6 U	3.5 U	3.8 U	3.5 U	0.10 U	3.7 U
Endrin ketone		3.5 U	3.6 U	3.5 U	3.8 U	3.5 U	0.10 U	3.7 U
Gamma Chlordane		0.10 J	1.9 U	1.8 U	1.9 U	1.8 U	0.050 U	1.9 U
Heptachlor		1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.050 U	1.9 U
Heptachlor epoxide		1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.050 U	1.9 U
Methoxychlor		18 U	19 U	18 U	19 U	18 U	0.50 U	19 U
Toxaphene		180 U	190 U	180 U	190 U	180 U	5.0 U	190 U
alpha-BHC		0.53 U	0.55 U	0.54 U	0.57 U	0.53 U	0.039 U	0.56 U
beta-BHC		0.53 U	0.55 U	0.54 U	0.57 U	0.53 U	0.014 U	0.56 U
delta-BHC		0.53 U	0.55 U	0.54 U	0.57 U	0.53 U	0.012 U	0.56 U
gamma-BHC (Lindane)		1.8 U	1.9 U	1.8 U	1.9 U	1.8 U	0.0029 J	1.9 U
Total Pesticides		0.4	ND	ND	ND	40	0.0029	0.34

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3c
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8081A Pesticide Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg dw	ug/kg dw
Compound				
4,4'-DDD		0.10 U	18 U	3.6 U
4,4'-DDE		0.10 U	54	1.7 J
4,4'-DDT		0.10 U	29	3.6 U
Aldrin		0.050 U	9.4 U	1.9 U
Alpha Chlordane		0.050 U	9.4 U	1.9 U
Dieldrin		0.10 U	3.0 J	3.6 U
Endosulfan I		0.050 U	9.4 U	1.9 U
Endosulfan II		0.10 U	18 U	3.6 U
Endosulfan sulfate		0.10 U	18 U	3.6 U
Endrin		0.10 U	18 U	3.6 U
Endrin aldehyde		0.10 U	18 U	3.6 U
Endrin ketone		0.10 U	1.7 J	3.6 U
Gamma Chlordane		0.050 U	2.2 J	1.9 U
Heptachlor		0.050 U	9.4 U	1.9 U
Heptachlor epoxide		0.050 U	9.4 U	1.9 U
Methoxychlor		0.50 U	3.4 J	19 U
Toxaphene		5.0 U	940 U	190 U
alpha-BHC		0.039 U	2.8 U	0.55 U
beta-BHC		0.014 U	2.8 U	0.55 U
delta-BHC		0.012 U	2.8 U	0.55 U
gamma-BHC (Lindane)		0.0017 J	9.4 U	1.9 U
Total Pesticides		0.0017	93.3	1.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-3d

Soil – Herbicide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	BS-EE-04-0-0.5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0.5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0.5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
2,4,5-T		11 U	11 U	11 U	10 U	9.8 U	9.9 U	0.50 U
2,4,5-TP (Silvex)		11 U	13 J	11 U	11 J	9.8 U	5.8 J	0.50 U
2,4-D		11 U	11 U	11 U	10 U	9.8 U	9.9 U	0.50 U
2,4-DB		11 U	11 U	11 U	10 U	9.8 U	9.9 U	0.50 U
Dalapon		86 U	86 U	84 U	81 U	77 U	77 U	120 U
Dicamba		26 U	26 U	26 U	25 U	24 U	24 U	1.2 U
Dichloroprop		130 U	130 U	130 U	120 U	120 U	120 U	6.0 U
Dinoseb		130 U	130 U	130 U	120 U	120 U	120 U	6.0 U
MCPA		3100 J	5800	2600 U	13000 J	2400 U	4300	120 U
MCPP		5600	7500	3000	5900	2400 U	2500 J	120 U
Pentachlorophenol		18 J	24 J	22 U	45 J	20 U	20 U	1.0 U
Total Herbicides		8718	13337	3000	18956	ND	6805.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT	DAS-T2-S1-3-6FT	DAS-T2-S2-0-0.5FT	DAS-T2-S2-3-6FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		10 U	9.8 U	9.3 U	9.4 U	8.8 U	11 U	9.1 U
2,4,5-TP (Silvex)		10 U	9.8 U	9.3 U	9.4 U	8.8 U	11 U	9.1 U
2,4-D		10 U	9.8 U	9.3 U	9.4 U	8.8 U	11 U	9.1 U
2,4-DB		10 U	9.8 U	9.3 U	9.4 U	8.8 U	11 U	9.1 U
Dalapon		83 U	77 U	73 U	74 U	69 U	85 U	71 U
Dicamba		1.3 J	24 U	22 U	1.3 J	21 U	26 U	22 U
Dichloroprop		130 U	120 U	110 U	110 U	110 U	130 U	110 U
Dinoseb		130 U	120 U	110 U	110 U	110 U	130 U	110 U
MCPA		1700 J	2400 U	2200 U	2300 U	2100 U	2000 J	2200 U
MCPP		2500 U	2400 U	2200 U	2300 U	2100 U	2600 U	2200 U
Pentachlorophenol		22 U	1.4 J	19 U	2.6 J	18 U	22 U	18 U
Total Herbicides		1701.3	1.4	ND	3.9	ND	2000	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S1-3-6FT	DAS-T3-S2-0-0.5FT	DAS-T3-S2-3-6FT	DAS-T3-S3-0-0.5FT	DAS-T3-S3-0-0.5FTEB
	Sample Date	04/18/00	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
2,4,5-T		9.2 U	10 U	11 U	9.8 U	9.2 U	9.5 U	0.50 U
2,4,5-TP (Silvex)		9.2 U	10 U	11 U	9.8 U	9.2 U	9.5 U	0.50 U
2,4-D		9.2 U	10 U	11 U	9.8 U	9.2 U	9.5 U	0.50 U
2,4-DB		9.2 U	10 U	11 U	9.8 U	9.2 U	9.5 U	0.50 U
Dalapon		72 U	81 U	83 U	78 U	72 U	2300 U	120 U
Dicamba		22 U	1.6 J	26 U	24 U	22 U	1.8 J	1.2 U
Dichloroprop		110 U	120 U	130 U	120 U	110 U	115 U	6.0 U
Dinoseb		110 U	120 UJ	130 UJ	120 UJ	110 UJ	115 UJ	6.0 U
MCPA		2200 U	2400 U	2600 U	2400 U	2200 U	2300 U	120 U
MCPP		2200 U	2400 U	2600 U	2400 U	2200 U	2300 U	120 U
Pentachlorophenol		19 U	1.5 J	2.3 J	20 U	1.7 J	19 U	1.0 U
Total Herbicides		ND	3.1	2.3	ND	1.7	1.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		10 U	10 U	10 U	11 U	11 U	10 UJ	9.9 UJ
2,4,5-TP (Silvex)		10 U	10 U	10 U	11 U	11 U	10 UJ	9.9 UJ
2,4-D		10 U	10 U	10 U	11 U	11 U	10 UJ	9.9 UJ
2,4-DB		10 U	65 J	10 U	11 U	11 U	10 UJ	9.9 UJ
Dalapon		81 U	80 U	79 U	85 U	84 U	81 UJ	77 UJ
Dicamba		24 U	1.9 J	1.6 J	26 U	26 U	1.5 J	24 UJ
Dichloroprop		120 U	120 U	120 U	130 U	130 U	120 UJ	120 UJ
Dinoseb		120 UJ	120 UJ	120 UJ	130 UJ	130 UJ	120 UJ	120 UJ
MCPA		2400 U	2100 J	2200 J	2600 U	2600 U	2200 J	2400 UJ
MCPP		2400 U	2400 U	2400 U	2600 U	2600 U	2500 UJ	2400 UJ
Pentachlorophenol		21 U	20 U	2.2 J	22 U	1.7 J	2.0 J	20 UJ
Total Herbicides		ND	2166.9	2203.8	ND	1.7	2203.5	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		10 UJ	11 UJ	9.8 U	0.50 U	9.8 U	9.7 U	9.1 U
2,4,5-TP (Silvex)		10 UJ	11 UJ	9.8 U	0.50 U	9.8 U	9.7 U	9.1 U
2,4-D		10 UJ	11 UJ	9.8 U	0.50 U	9.8 U	9.7 U	9.1 U
2,4-DB		10 UJ	11 UJ	23 J	0.50 U	9.8 U	9.7 U	9.1 U
Dalapon		80 UJ	86 UJ	78 U	120 U	78 U	77 U	71 U
Dicamba		25 UJ	26 UJ	24 U	1.2 U	24 U	23 U	22 U
Dichloroprop		120 UJ	130 UJ	120 U	6.0 U	120 U	120 U	110 U
Dinoseb		120 UJ	130 UJ	120 UJ	6.0 U	120 UJ	120 UJ	110 UJ
MCPA		3700 J	2600 UJ	2400 U	120 U	2400 U	2300 U	2200 U
MCPP		2500 UJ	2600 UJ	2400 U	120 U	2400 U	2300 U	2200 U
Pentachlorophenol		2.5 J	22 UJ	20 U	1.0 U	20 U	20 U	19 U
Total Herbicides		3702.5	ND	23	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

Compound	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
2,4,5-T		9.1 U	9.2 U	9.8 UJ	9.4 UJ	9.4 UJ	9.6 UJ	9.0 UJ
2,4,5-TP (Silvex)		9.1 U	9.2 U	9.8 UJ	9.4 UJ	9.4 UJ	9.6 UJ	9.0 UJ
2,4-D		9.1 U	9.2 U	9.8 UJ	9.4 UJ	9.4 UJ	9.6 UJ	9.0 UJ
2,4-DB		18 J	7.7 J	9.8 UJ	9.4 UJ	9.4 UJ	9.6 UJ	9.0 UJ
Dalapon		72 U	73 U	76 UJ	74 UJ	74 UJ	76 UJ	71 UJ
Dicamba		1.3 J	22 U	3.0 J	23 UJ	1.7 J	23 UJ	22 UJ
Dichloroprop		110 U	110 U	120 UJ	110 UJ	110 UJ	120 UJ	110 UJ
Dinoseb		110 UJ	110 UJ	120 UJ	110 UJ	110 UJ	120 UJ	110 UJ
MCPA		2200 U	2200 U	2400 UJ	2300 UJ	2300 UJ	1400 J	2200 UJ
MCPP		2200 U	2200 U	2400 UJ	2300 UJ	2300 UJ	2300 UJ	2200 UJ
Pentachlorophenol		4.3 J	19 U	2.0 J	19 UJ	1.6 J	20 UJ	18 UJ
Total Herbicides		23.6	7.7	5	ND	3.3	1400	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
	Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.3 UJ	9.6 UJ	11 UJ	10 UJ	11 UJ	10 U	9.9 U
2,4,5-TP (Silvex)		9.3 UJ	9.6 UJ	11 UJ	10 UJ	11 UJ	10 U	9.9 U
2,4-D		9.3 UJ	9.6 UJ	11 UJ	10 UJ	11 UJ	10 U	9.9 U
2,4-DB		9.3 UJ	9.6 UJ	11 UJ	10 UJ	11 UJ	10 U	9.9 U
Dalapon		73 UJ	75 UJ	83 UJ	78 UJ	86 UJ	81 U	78 U
Dicamba		22 UJ	23 UJ	26 UJ	24 UJ	26 UJ	25 U	24 U
Dichloroprop		110 UJ	120 UJ	130 UJ	120 UJ	130 UJ	120 U	120 U
Dinoseb		110 UJ	120 UJ	130 UJ	120 UJ	130 UJ	120 UJ	120 UJ
MCPA		2200 UJ	2300 UJ	2600 UJ	2400 UJ	2600 UJ	2500 U	2400 U
MCPP		2200 UJ	2300 UJ	2600 UJ	2400 UJ	2600 UJ	2500 U	2400 U
Pentachlorophenol		19 UJ	20 UJ	22 UJ	2.5 J	2.6 J	2.3 J	20 U
Total Herbicides		ND	ND	ND	2.5	2.6	2.3	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

Compound	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
2,4,5-T		10 U	10 U	10 U	11 U	20 U	9.0 U	9.5 U
2,4,5-TP (Silvex)		10 U	10 U	10 U	11 U	20 U	9.0 U	9.5 U
2,4-D		10 U	10 U	10 U	11 U	20 U	9.0 U	9.5 U
2,4-DB		10 U	10 U	10 U	11 U	20 U	9.0 U	9.5 U
Dalapon		81 U	82 U	83 U	87 U	150 U	71 U	74 U
Dicamba		1.8 J	25 U	25 U	27 U	47 U	22 U	2.4 J
Dichloroprop		120 U	120 U	130 U	130 U	230 U	110 U	110 U
Dinoseb		120 UJ	120 UJ	130 UJ	130 UJ	230 UJ	110 UJ	110 UJ
MCPA		2700	2500 U	3300	2700 U	6800	2200 U	7400 J
MCPP		2500 U	2500 U	2500 U	2700 U	4700 U	2200 U	2300 U
Pentachlorophenol		1.9 J	21 U	3.9 J	23 U	6.6 J	18 U	4.1 J
Total Herbicides		2703.7	ND	3303.9	ND	6806.6	ND	7406.5

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.0 U	9.0 U	10 U	9.2 U	0.50 U	9.2 U	9.6 U
2,4,5-TP (Silvex)		9.0 U	9.0 U	10 U	9.2 U	0.50 U	9.2 U	9.6 U
2,4-D		9.0 U	9.0 U	10 U	9.2 U	0.50 U	9.2 U	9.6 U
2,4-DB		9.0 U	9.0 U	10 U	9.2 U	0.50 U	9.2 U	9.6 U
Dalapon		71 U	70 U	79 U	72 U	120 U	72 U	75 U
Dicamba		22 U	22 U	24 U	22 U	1.2 U	22 U	23 U
Dichloroprop		110 U	110 U	120 U	110 U	6.0 U	110 U	120 U
Dinoseb		110 UJ	110 UJ	120 UJ	110 UJ	6.0 U	110 UJ	120 UJ
MCPA		2200 U	2200 U	2400 U	2200 U	120 U	2200 U	2300 U
MCPP		2200 U	2200 U	2400 U	2200 U	120 U	2200 U	2300 U
Pentachlorophenol		18 U	2.9 J	21 U	1.2 J	1.0 U	1.4 J	20 U
Total Herbicides		ND	2.9	ND	1.2	ND	1.4	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
	Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		0.50 U	9.8 U	9.1 U	8.9 U	9.9 U	9.3 U	10 U
2,4,5-TP (Silvex)		0.50 U	9.8 U	9.1 U	8.9 U	9.9 U	9.3 U	10 U
2,4-D		0.50 U	9.8 U	9.1 U	8.9 U	9.9 U	9.3 U	10 U
2,4-DB		0.50 U	9.8 U	9.1 U	8.9 U	9.9 U	9.3 U	10 U
Dalapon		120 U	76 U	72 U	70 U	77 U	72 U	80 U
Dicamba		1.2 U	24 U	22 U	22 U	24 U	22 U	25 U
Dichloroprop		6.0 U	120 U	110 U	110 U	120 U	110 U	120 U
Dinoseb		6.0 U	120 UJ	110 UJ	110 UJ	120 UJ	110 UJ	120 UJ
MCPA		120 U	2400 U	2200 U	2200 U	2400 U	2200 U	5500 J
MCPP		120 U	2400 U	2200 U	2200 U	2400 U	2200 U	7600
Pentachlorophenol		1.0 U	20 U	1.6 J	18 U	20 U	19 UJ	20 UJ
Total Herbicides		ND	ND	1.6	ND	ND	ND	13100

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.6 U	10 U	11 U	9.8 U	10 U	9.9 U	9.8 U
2,4,5-TP (Silvex)		9.6 U	10 U	11 U	9.8 U	10 U	9.9 U	9.8 U
2,4-D		9.6 U	10 U	11 UJ	9.8 U	10 U	9.9 U	9.8 U
2,4-DB		9.6 U	10 UJ	11 U	9.8 U	10 U	9.9 U	9.8 U
Dalapon		76 U	78 UJ	87 UJ	77 U	81 U	78 U	77 U
Dicamba		23 U	3.1 J	27 U	24 U	25 U	24 U	24 U
Dichloroprop		120 U	120 U	130 UJ	120 U	120 U	120 U	120 U
Dinoseb		120 UJ	120 UJ	130 UJ	120 UJ	120 UJ	120 UJ	120 UJ
MCPA		2300 U	2400 U	2700 UJ	2400 U	2500 U	2400 U	2400 U
MCPP		2300 U	2400 U	2700 UJ	2400 U	2500 U	2400 U	2400 U
Pentachlorophenol		20 UJ	1.4 J	23 UJ	20 UJ	21 UJ	20 UJ	20 UJ
Total Herbicides		ND	4.5	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		10 U	10 U	9.9 U	10 U	R	9.6 UJ	9.6 U
2,4,5-TP (Silvex)		10 U	10 U	9.9 U	10 U	R	9.6 UJ	9.6 U
2,4-D		10 U	10 U	9.9 U	10 U	R	9.6 UJ	9.6 U
2,4-DB		10 U	10 U	9.9 U	10 U	R	9.6 UJ	9.6 U
Dalapon		78 U	82 U	77 U	81 U	R	75 UJ	75 U
Dicamba		24 U	25 U	24 U	25 U	R	23 UJ	23 U
Dichloroprop		120 U	130 U	120 U	120 U	R	120 UJ	120 U
Dinoseb		120 UJ	130 UJ	120 UJ	120 UJ	R	120 UJ	120 UJ
MCPA		1800 J	2500 U	2400 U	2500 U	R	2300 UJ	2300 U
MCPP		2400 U	2500 U	7700 JD	2500 U	R	2300 UJ	2300 U
Pentachlorophenol		20 U	22 UJ	20 UJ	21 U	R	20 UJ	20 UJ
Total Herbicides		1800	ND	7700	ND	---	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.6 U	9.5 U	9.9 U	9.2 U	0.50 U	8.6 U	9.5 U
2,4,5-TP (Silvex)		9.6 U	9.5 U	9.9 U	9.2 U	0.50 U	8.6 U	9.5 U
2,4-D		9.6 U	9.5 U	9.9 U	9.2 U	0.50 U	8.6 U	9.5 U
2,4-DB		9.6 U	41 J	9.9 U	9.2 U	0.50 U	8.6 U	9.5 U
Dalapon		75 U	74 U	78 U	72 U	120 U	68 U	75 U
Dicamba		23 U	23 U	24 U	22 U	1.2 U	21 U	23 U
Dichloroprop		120 U	110 U	120 U	110 U	6.0 U	100 U	110 U
Dinoseb		120 UJ	110 UJ	120 UJ	110 UJ	6.0 U	100 UJ	110 UJ
MCPA		2300 U	4000 J	2400 U	2200 U	120 U	2100 U	2300 U
MCPP		2300 U	4400	2400 U	2200 U	120 U	2100 U	2300 U
Pentachlorophenol		20 UJ	19 UJ	20 UJ	19 UJ	1.0 U	18 UJ	20 UJ
Total Herbicides		ND	8441	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		11 U	8.7 U	11 U	0.50 U	9.4 U	9.9 U	8.8 U
2,4,5-TP (Silvex)		11 U	8.7 U	11 U	0.50 U	9.4 U	1.5 J	8.8 U
2,4-D		11 U	8.7 U	11 U	0.50 U	9.4 U	9.9 U	8.8 U
2,4-DB		11 U	8.7 U	11 U	0.50 U	9.4 U	9.9 U	8.8 U
Dalapon		85 U	68 U	83 U	120 U	74 U	77 U	69 U
Dicamba		26 U	21 U	26 U	1.2 U	23 U	24 U	21 U
Dichloroprop		130 U	100 U	130 U	6.0 U	110 U	120 U	100 U
Dinoseb		130 UJ	100 UJ	130 UJ	6.0 U	110 U	120 U	100 U
MCPA		2600 U	2100 U	2600 U	120 U	2300 U	2400 U	2100 U
MCPP		2600 U	2100 U	2600 U	120 U	2300 U	2400 U	2100 U
Pentachlorophenol		22 UJ	1.3 J	22 UJ	1.0 U	2.8 J	20 U	40
Total Herbicides		ND	1.3	ND	ND	2.8	1.5	40

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.0 U	8.8 U	8.9 U	8.6 U	8.7 U	8.5 U	8.6 U
2,4,5-TP (Silvex)		9.0 U	8.8 U	8.9 U	8.6 U	8.7 U	8.5 U	8.6 U
2,4-D		9.0 U	8.8 U	8.9 U	8.6 U	8.7 U	8.5 U	8.6 U
2,4-DB		9.0 U	8.8 U	8.9 U	8.6 U	8.7 U	8.5 U	8.6 U
Dalapon		71 U	69 U	69 U	68 U	68 U	66 U	68 U
Dicamba		22 U	21 U	21 U	21 U	21 U	20 U	21 U
Dichloroprop		110 U	110 U	110 U	100 U	100 U	100 U	100 U
Dinoseb		110 U	110 U	110 U	100 U	100 U	100 U	100 U
MCPA		2200 U	2100 U	2100 U	2100 U	2100 U	2000 U	2100 U
MCPP		2200 U	2100 U	2100 U	2100 U	2100 U	2000 U	2100 U
Pentachlorophenol		18 U	1.4 J	2.7 J	18 U	5.9 J	2.2 J	1.8 J
Total Herbicides		ND	1.4	2.7	ND	5.9	2.2	1.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T4-S5-0-0.5FT	UAS-T4-S5-3-6FT	UAS-T4-S6-0-0.5FT	UAS-T4-S6-3-6FT	UAS-T4-S7-0-0.5FT	UAS-T4-S7-3-6FT	UAS-T5-S1-0-0.5FT
	Sample Date	11/16/99	11/16/99	11/16/99	11/16/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		8.9 U	11 U	9.8 U	10 U	9.3 U	9.2 U	9.4 U
2,4,5-TP (Silvex)		8.9 U	11 U	9.8 U	10 U	9.3 U	9.2 U	9.4 U
2,4-D		8.9 U	11 U	9.8 U	10 U	9.3 U	9.2 U	9.4 U
2,4-DB		8.9 U	11 U	9.8 U	10 U	9.3 U	9.2 U	9.4 U
Dalapon		69 U	83 U	77 U	83 U	73 U	72 U	74 U
Dicamba		21 U	26 U	24 U	25 U	22 U	22 U	23 U
Dichloroprop		110 U	130 U	120 U	130 U	110 U	110 U	110 U
Dinoseb		110 U	130 U	120 U	130 U	110 U	110 U	110 U
MCPA		2100 U	2600 U	2400 U	2500 U	2200 U	2200 U	2300 U
MCPP		2100 U	2600 U	2400 U	2500 U	2200 U	2200 U	4100
Pentachlorophenol		6.8 J	3.1 J	6.7 J	22 U	3.5 J	3.6 J	2.4 J
Total Herbicides		6.8	3.1	6.7	ND	3.5	3.6	4102.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T5-S1-3-6FT	UAS-T5-S2-0-0.5FT	UAS-T5-S2-3-6FT	UAS-T5-S3-0-0.5FT	UAS-T5-S3-3-6FT	UAS-T5-S4-0-0.5FT	UAS-T5-S4-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.3 U	9.2 U	9.5 U	8.9 U	10 U	9.2 U	8.5 U
2,4,5-TP (Silvex)		9.3 U	9.2 U	9.5 U	8.9 U	10 U	9.2 U	8.5 U
2,4-D		9.3 U	9.2 U	9.5 U	8.9 U	10 U	9.2 U	8.5 U
2,4-DB		9.3 U	9.2 U	9.5 U	8.9 U	10 U	9.2 UJ	8.5 U
Dalapon		73 U	72 U	74 U	70 U	80 U	72 UJ	67 U
Dicamba		22 U	22 U	23 U	2.9 J	25 U	22 U	20 U
Dichloroprop		110 U	110 U	110 U	110 U	120 U	110 U	100 U
Dinoseb		110 UJ	110 U	110 UJ	110 U	120 UJ	110 UJ	100 U
MCPA		2300	2200 U	2300 U	2100 U	2500 U	4400 J	2000 U
MCPP		2900	2500	2300 U	2200	2900	6800 J	2000 U
Pentachlorophenol		19 U	1.6 J	20 U	18 U	21 U	19 U	17 U
Total Herbicides		5200	2501.6	ND	2202.9	2900	11200	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0.5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		8.6 U	0.50 U	8.5 U	0.50 U	9.7 U	9.8 U	9.1 U
2,4,5-TP (Silvex)		8.6 U	0.50 U	8.5 U	0.50 U	9.7 U	9.8 U	9.1 U
2,4-D		8.6 U	0.50 U	8.5 U	0.50 U	9.7 U	9.8 U	9.1 U
2,4-DB		8.6 U	0.50 U	8.5 U	0.50 U	9.7 U	9.8 U	9.1 U
Dalapon		67 U	120 U	67 U	120 U	76 U	77 U	71 U
Dicamba		21 U	1.2 U	20 U	1.2 U	23 U	24 U	22 U
Dichloroprop		100 U	6.0 U	100 U	6.0 U	120 U	120 U	110 U
Dinoseb		100 UJ	6.0 U	100 UJ	6.0 U	120 UJ	120 UJ	110 UJ
MCPA		2100 U	120 U	2000 U	120 U	2300 U	2900	2200 U
MCPP		5100	120 U	2000 U	120 U	2300 U	3600	2200 U
Pentachlorophenol		18 U	1.0 U	17 U	1.0 U	20 U	20 U	19 U
Total Herbicides		5100	ND	ND	ND	ND	6500	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
2,4,5-T		9.2 U	9.8 U	9.9 U	9.4 U	9.7 U	9.1 U	0.50 U
2,4,5-TP (Silvex)		9.2 U	9.8 U	9.9 U	9.4 U	9.7 U	9.1 U	0.50 U
2,4-D		9.2 U	9.8 U	9.9 U	9.4 U	9.7 U	9.1 U	0.50 U
2,4-DB		9.2 U	9.8 U	9.9 U	9.4 U	9.7 U	9.1 U	0.50 U
Dalapon		72 U	76 U	77 U	73 U	76 U	71 U	120 U
Dicamba		22 U	24 U	24 U	23 U	23 U	22 U	1.2 U
Dichloroprop		110 U	120 U	120 U	110 U	120 U	110 U	6.0 U
Dinoseb		110 UJ	120 UJ	120 UJ	110 UJ	120 UJ	110 UJ	6.0 U
MCPA		2200 U	2400 U	2400 U	2300 U	2300 U	2200 U	120 U
MCPP		2200 U	4500 J	3000	2300 U	2300 U	2200 U	120 U
Pentachlorophenol		19 U	20 U	20 U	9.9 J	20 U	4.6 J	1.0 U
Total Herbicides		ND	4500	3000	9.9	ND	4.6	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		9.7 U	0.50 U	8.9 U	9.5 U	9.4 U	10 U	10 U
2,4,5-TP (Silvex)		9.7 U	0.50 U	8.9 U	9.5 U	9.4 U	10 U	10 U
2,4-D		9.7 U	0.50 U	8.9 U	9.5 U	9.4 U	10 U	10 U
2,4-DB		9.7 U	0.50 U	8.9 U	9.5 U	9.4 U	10 U	10 U
Dalapon		76 U	120 U	70 U	75 U	74 U	82 U	80 U
Dicamba		23 U	1.2 U	21 U	23 U	23 U	25 U	24 U
Dichloroprop		120 U	6.0 U	110 U	110 U	110 U	130 U	120 U
Dinoseb		120 UJ	6.0 U	110 UJ	110 UJ	110 UJ	130 UJ	120 UJ
MCPA		2300 U	120 U	2100 U	2300 U	2300 U	2500 U	2400 U
MCPP		2300 U	120 U	2100 U	2300 U	2300 U	2500 U	2400 U
Pentachlorophenol		1.4 J	1.0 U	2.9 J	4.5 J	19 U	21 U	2.8 J
Total Herbicides		1.4	ND	2.9	4.5	ND	ND	2.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		11 U	9.0 U	9.9 U	9.4 U	9.5 U	9.3 U	9.1 U
2,4,5-TP (Silvex)		11 U	9.0 U	9.9 U	9.4 U	9.5 U	9.3 U	9.1 U
2,4-D		11 U	9.0 U	9.9 U	9.4 U	9.5 U	9.3 U	9.1 U
2,4-DB		11 U	9.0 U	9.9 U	9.4 U	9.5 U	9.3 U	9.1 U
Dalapon		90 U	70 U	77 U	74 U	74 U	73 U	71 U
Dicamba		28 U	22 U	24 U	3.2 J	2.1 J	22 U	22 U
Dichloroprop		140 U	110 U	120 U	110 U	110 U	110 U	110 U
Dinoseb		140 UJ	110 UJ	120 UJ	110 UJ	110 UJ	110 UJ	110 UJ
MCPA		2800 U	2200 U	2400 U	2300 U	2300 U	2200 U	2200 U
MCPP		2800 U	2200 U	2400 U	2300 U	2300 U	2200 U	2200 U
Pentachlorophenol		1.8 J	2.0 J	20 U	19 U	19 U	19 U	19 U
Total Herbicides		1.8	2	ND	3.2	2.1	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound								
2,4,5-T		8.8 U	9.2 U	8.9 U	9.4 U	8.8 UJ	0.50 U	9.3 U
2,4,5-TP (Silvex)		8.8 U	9.2 U	8.9 U	9.4 U	8.8 UJ	0.50 U	9.3 U
2,4-D		8.8 U	9.2 U	8.9 U	9.4 U	8.8 UJ	0.50 U	9.3 U
2,4-DB		8.8 U	9.2 U	8.9 U	9.4 U	8.8 UJ	0.50 U	9.3 U
Dalapon		69 U	72 U	2200 U	74 U	69 UJ	120 U	73 U
Dicamba		21 U	22 U	22 U	23 U	21 UJ	1.2 U	22 U
Dichloroprop		110 U	110 U	110 U	110 U	110 UJ	6.0 U	110 U
Dinoseb		110 UJ	110 UJ	110 UJ	110 U	110 UJ	6.0 U	110 U
MCPA		2100 U	2200 U	2200 U	2300 U	2100 UJ	120 U	2200 U
MCPP		2100 U	2200 U	2200 U	2300 U	2100 UJ	120 U	2200 U
Pentachlorophenol		18 U	1.9 J	18 U	19 U	18 UJ	0.13 J	19 U
Total Herbicides		ND	1.9	ND	ND	ND	0.13	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3d
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8151A Herbicide Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg dw	ug/kg dw
Compound				
2,4,5-T		0.50 U	9.2 U	9.2 U
2,4,5-TP (Silvex)		0.50 U	9.2 U	9.2 U
2,4-D		0.50 U	9.2 U	9.2 U
2,4-DB		0.50 U	9.2 U	9.2 U
Dalapon		120 U	72 U	72 U
Dicamba		1.2 U	22 U	22 U
Dichloroprop		6.0 U	110 U	110 U
Dinoseb		6.0 U	110 U	110 U
MCPA		120 U	2200 U	2200 U
MCPP		120 U	2200 U	2200 U
Pentachlorophenol		1.0 U	19 U	19 U
Total Herbicides		ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Soil – Polychlorinated Biphenyl Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	BS-EE-04-0-0.5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0.5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0.5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Decachlorobiphenyl		53	43	22 UJ	740	20 U	20 UJ	0.50 U
Dichlorobiphenyl		4.3 U	4.4 U	4.3 UJ	4.1 U	3.9 U	4 UJ	0.10 U
Heptachlorobiphenyl		13 U	13 U	13 UJ	94	12 U	12 UJ	0.30 U
Hexachlorobiphenyl		8.8 U	8.9 U	8.7 UJ	170	8 U	8.1 UJ	0.20 U
Monochlorobiphenyl		4.3 U	4.4 U	4.3 UJ	4.1 U	3.9 U	4 UJ	0.10 U
Nonachlorobiphenyl		42	29	22 UJ	450	20 U	20 UJ	0.50 U
Octachlorobiphenyl		13 U	13 U	13 UJ	71	12 U	12 UJ	0.30 U
Pentachlorobiphenyl		8.8 U	8.9 U	8.7 UJ	130	8 U	8.1 UJ	0.20 U
Tetrachlorobiphenyl		8.8 U	8.9 U	8.7 UJ	47	8 U	8.1 UJ	0.20 U
Trichlorobiphenyl		4.3 U	4.4 U	4.3 UJ	3.8 J	3.9 U	4 UJ	0.10 U
Total PCBs		95	72	ND	1705.8	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S1-3-6FT	DAS-T1-S2-0-0.5FT	DAS-T1-S2-3-6FT	DAS-T1-S3-0-0.5FT
	Sample Date	01/27/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		R	69	75	19 U	35	19 U	28
Dichlorobiphenyl		R	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Heptachlorobiphenyl		R	11 U	11 U	12 U	11 U	11 U	12 U
Hexachlorobiphenyl		R	7.6 U	7.6 U	7.8 U	7.6 U	7.7 U	8.0 U
Monochlorobiphenyl		R	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Nonachlorobiphenyl		R	19 U	19 U	19 U	19 U	19 U	20 U
Octachlorobiphenyl		R	11 U	11 U	12 U	11 U	11 U	12 U
Pentachlorobiphenyl		R	7.6 U	7.6 U	7.8 U	7.6 U	7.7 U	8.0 U
Tetrachlorobiphenyl		R	7.6 U	7.6 U	7.8 U	7.6 U	7.7 U	8.0 U
Trichlorobiphenyl		R	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.9 U
Total PCBs		---	69	75	ND	35	ND	28

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT	DAS-T2-S1-3-6FT	DAS-T2-S2-0-0.5FT	DAS-T2-S2-3-6FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		21 U	41	19 U	19 U	18 U	12 J	18 U
Dichlorobiphenyl		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 U
Heptachlorobiphenyl		13 U	12 U	11 U	11 U	11 U	13 U	11 U
Hexachlorobiphenyl		8.6 U	8.0 U	7.5 U	7.7 U	7.1 U	8.8 U	7.4 U
Monochlorobiphenyl		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 U
Nonachlorobiphenyl		21 U	20 U	19 U	19 U	18 U	22 U	18 U
Octachlorobiphenyl		13 U	12 U	11 U	11 U	11 U	13 U	11 U
Pentachlorobiphenyl		8.6 U	8.0 U	7.5 U	7.7 U	7.1 U	8.8 U	7.4 U
Tetrachlorobiphenyl		8.6 UJ	8.0 U	7.5 U	7.7 U	7.1 U	8.8 U	7.4 U
Trichlorobiphenyl		4.2 U	3.9 U	3.7 U	3.8 U	3.5 U	4.3 U	3.6 U
Total PCBs		ND	41	ND	ND	ND	12	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S1-3-6FT	DAS-T3-S2-0-0.5FT	DAS-T3-S2-3-6FT	DAS-T3-S3-0-0.5FT	DAS-T3-S3-0-0.5FTEB
	Sample Date	04/18/00	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Decachlorobiphenyl		18 U	13 J	22 U	13 J	18 U	30	0.50 U
Dichlorobiphenyl		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Heptachlorobiphenyl		11 U	12 U	13 U	12 U	11 U	11 U	0.30 U
Hexachlorobiphenyl		7.4 U	8.3 U	8.7 U	8.0 U	7.4 U	7.7 U	0.20 U
Monochlorobiphenyl		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Nonachlorobiphenyl		18 U	21 U	22 U	20 U	18 U	19 U	0.50 U
Octachlorobiphenyl		11 U	12 U	13 U	12 U	11 U	11 U	0.30 U
Pentachlorobiphenyl		7.4 U	8.3 U	8.7 U	8.0 U	7.4 U	7.7 U	0.20 U
Tetrachlorobiphenyl		7.4 U	8.3 U	8.7 U	8.0 U	7.4 U	7.7 U	0.20 U
Trichlorobiphenyl		3.7 U	4.1 U	4.3 U	3.9 U	3.7 U	3.8 U	0.10 U
Total PCBs		ND	13	ND	13	ND	30	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		21 U	48	47	22 U	22 U	33	20 U
Dichlorobiphenyl		4.1 U	4.0 U	4.0 U	4.3 U	4.3 U	4.1 U	3.9 U
Heptachlorobiphenyl		12 U	12 U	12 U	13 U	13 U	12 U	12 U
Hexachlorobiphenyl		8.3 U	8.2 U	8.1 U	8.8 U	8.7 U	8.4 U	8.0 U
Monochlorobiphenyl		4.1 U	4.0 U	4.0 U	4.3 U	4.3 U	4.1 U	3.9 U
Nonachlorobiphenyl		21 U	20 U	20 U	22 U	10 J	9.2 J	20 U
Octachlorobiphenyl		12 U	12 U	12 U	13 U	13 U	12 U	12 U
Pentachlorobiphenyl		8.3 U	8.2 U	8.1 U	8.8 U	8.7 U	8.4 U	8.0 U
Tetrachlorobiphenyl		8.3 U	8.2 U	8.1 U	8.8 U	8.7 U	8.4 U	8.0 U
Trichlorobiphenyl		4.1 U	4.0 U	4.0 U	4.3 U	4.3 U	4.1 U	3.9 U
Total PCBs		ND	48	47	ND	10	42.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		21 U	22 U	20 U	0.50 U	20 U	20 U	18 U
Dichlorobiphenyl		4.1 U	4.3 U	3.9 U	0.10 U	3.9 U	3.9 U	3.6 U
Heptachlorobiphenyl		12 UJ	13 U	12 U	0.30 U	12 U	12 U	11 U
Hexachlorobiphenyl		8.3 UJ	8.8 U	8.0 U	0.20 U	8.0 U	7.9 U	7.4 U
Monochlorobiphenyl		4.1 UJ	4.3 U	3.9 U	0.10 U	3.9 U	3.9 U	3.6 U
Nonachlorobiphenyl		21 U	22 U	20 U	0.50 U	20 U	20 U	18 U
Octachlorobiphenyl		12 U	13 U	12 U	0.30 U	12 U	12 U	11 U
Pentachlorobiphenyl		8.3 UJ	8.8 U	8.0 U	0.20 U	8.0 U	7.9 U	7.4 U
Tetrachlorobiphenyl		8.3 UJ	8.8 U	8.0 U	0.20 U	8.0 U	7.9 U	7.4 U
Trichlorobiphenyl		4.1 U	4.3 U	3.9 U	0.10 U	3.9 U	3.9 U	3.6 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		25 J	18 U	130	19 U	11 J	19 U	18 U
Dichlorobiphenyl		3.6 UJ	3.7 U	3.9 U	3.8 U	3.8 UJ	3.8 U	3.6 U
Heptachlorobiphenyl		11 UJ	11 UJ	12 U	11 U	11 UJ	12 U	11 U
Hexachlorobiphenyl		7.4 UJ	7.4 UJ	7.9 U	7.6 U	7.6 UJ	7.8 U	7.3 U
Monochlorobiphenyl		3.6 UJ	3.7 U	3.9 U	3.8 U	3.8 UJ	3.8 U	3.6 U
Nonachlorobiphenyl		10 J	18 U	49	19 U	19 UJ	19 U	18 U
Octachlorobiphenyl		11 UJ	11 UJ	12 U	11 U	11 UJ	12 U	11 U
Pentachlorobiphenyl		7.4 UJ	7.4 UJ	7.9 U	7.6 U	7.6 UJ	7.8 U	7.3 U
Tetrachlorobiphenyl		7.4 UJ	7.4 UJ	7.9 U	7.6 U	7.6 UJ	7.8 U	7.3 U
Trichlorobiphenyl		3.6 UJ	3.7 U	3.9 U	3.8 U	3.8 UJ	3.8 U	3.6 U
Total PCBs		35	ND	179	ND	11	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
	Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		19 U	19 U	21 U	10 J	22 U	55	20 U
Dichlorobiphenyl		3.7 U	3.8 U	4.2 U	4.0 U	4.3 U	4.1 U	3.9 U
Heptachlorobiphenyl		11 U	12 U	13 U	12 U	13 U	12 U	12 U
Hexachlorobiphenyl		7.5 U	7.8 U	8.6 U	8.1 U	8.8 U	8.3 U	8.0 U
Monochlorobiphenyl		3.7 U	3.8 U	4.2 U	4.0 U	4.3 U	4.1 U	3.9 U
Nonachlorobiphenyl		19 U	19 U	21 U	20 U	22 U	29	20 U
Octachlorobiphenyl		11 U	12 U	13 U	12 U	13 U	12 U	12 U
Pentachlorobiphenyl		7.5 U	7.8 U	8.6 U	8.1 U	8.8 U	8.3 U	8.0 U
Tetrachlorobiphenyl		7.5 U	7.8 U	8.6 U	8.1 U	8.8 U	8.3 U	8.0 U
Trichlorobiphenyl		3.7 U	3.8 U	4.2 U	4.0 U	4.3 U	4.1 U	3.9 U
Total PCBs		ND	ND	ND	10	ND	84	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		81	21 U	140 J	22 U	85	18 U	73
Dichlorobiphenyl		4.0 U	4.1 U	4.2 UJ	4.4 U	3.9 U	3.5 U	3.8 U
Heptachlorobiphenyl		12 U	13 U	13 UJ	13 U	12 U	11 U	12 U
Hexachlorobiphenyl		8.2 U	8.4 U	8.6 UJ	8.8 U	7.9 U	7.2 U	7.7 U
Monochlorobiphenyl		4.0 U	4.1 U	4.2 UJ	4.4 U	3.9 U	3.5 U	3.8 U
Nonachlorobiphenyl		28	14 J	91 J	22 U	41	18 U	35
Octachlorobiphenyl		12 U	13 U	13 UJ	13 U	12 U	11 U	3.8 J
Pentachlorobiphenyl		8.2 U	5.0 J	8.6 UJ	8.8 U	7.9 U	7.2 U	7.7 U
Tetrachlorobiphenyl		8.2 U	8.4 U	8.6 UJ	8.8 U	7.9 U	7.2 U	7.7 U
Trichlorobiphenyl		4.0 U	4.1 U	4.2 UJ	4.4 U	3.9 U	3.5 U	3.8 U
Total PCBs		109	19	231	ND	126	ND	111.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		18 U	83 J	20 U	68	0.50 U	56	19 U
Dichlorobiphenyl		3.6 U	3.6 UJ	4.0 U	3.6 U	0.10 U	3.6 U	3.8 U
Heptachlorobiphenyl		11 U	11 UJ	12 U	11 U	0.30 U	11 U	12 U
Hexachlorobiphenyl		7.2 U	7.2 UJ	8.1 U	7.4 U	0.20 U	7.4 U	7.8 U
Monochlorobiphenyl		3.6 U	3.6 UJ	4.0 U	3.6 U	0.10 U	3.6 U	3.8 U
Nonachlorobiphenyl		18 U	40 J	12 J	32	0.50 U	29	19 U
Octachlorobiphenyl		11 U	11 UJ	12 U	11 U	0.30 U	11 U	12 U
Pentachlorobiphenyl		7.2 U	7.2 UJ	8.1 U	7.4 U	0.20 U	7.4 U	7.8 U
Tetrachlorobiphenyl		7.2 U	7.2 UJ	8.1 U	7.4 U	0.20 U	7.4 U	7.8 U
Trichlorobiphenyl		3.6 U	3.6 UJ	4.0 U	3.6 U	0.10 U	3.6 U	3.8 U
Total PCBs		ND	123	12	100	ND	85	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
	Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		0.50 U	19 UJ	96	18 UJ	80	19 UJ	34 J
Dichlorobiphenyl		0.10 U	3.8 UJ	3.6 U	3.5 UJ	4.0 U	3.7 UJ	4.1 UJ
Heptachlorobiphenyl		0.30 U	12 UJ	11 U	11 UJ	12 U	11 UJ	12 UJ
Hexachlorobiphenyl		0.20 U	7.8 UJ	7.4 U	7.2 UJ	8.0 U	7.5 UJ	8.3 UJ
Monochlorobiphenyl		0.10 U	3.8 UJ	3.6 U	3.5 UJ	4.0 U	3.7 UJ	4.1 UJ
Nonachlorobiphenyl		0.50 U	12 J	34	18 UJ	32	19 UJ	18 J
Octachlorobiphenyl		0.30 U	12 UJ	11 U	11 UJ	12 U	11 UJ	12 UJ
Pentachlorobiphenyl		0.20 U	7.8 UJ	7.4 U	7.2 UJ	8.0 U	7.5 UJ	8.3 UJ
Tetrachlorobiphenyl		0.20 U	7.8 UJ	7.4 U	7.2 UJ	8.0 U	7.5 UJ	8.3 UJ
Trichlorobiphenyl		0.10 U	3.8 UJ	3.6 U	3.5 UJ	4.0 U	3.7 UJ	4.1 UJ
Total PCBs		ND	12	130	ND	112	ND	52

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		19 UJ	20 UJ	22 U	110 J	21 UJ	48	20 U
Dichlorobiphenyl		3.8 UJ	3.9 UJ	4.4 U	3.9 UJ	4.2 UJ	4.0 U	3.9 U
Heptachlorobiphenyl		12 UJ	12 UJ	13 UJ	12 UJ	13 UJ	12 U	12 U
Hexachlorobiphenyl		7.8 UJ	8.0 UJ	9.0 UJ	8.0 UJ	8.5 UJ	8.1 U	8.0 U
Monochlorobiphenyl		3.8 UJ	3.9 UJ	4.4 U	3.9 UJ	4.2 UJ	4.0 U	3.9 U
Nonachlorobiphenyl		19 UJ	17 J	22 U	54 J	21 UJ	16 J	20 U
Octachlorobiphenyl		12 UJ	12 UJ	13 UJ	12 UJ	13 UJ	12 U	12 U
Pentachlorobiphenyl		7.8 UJ	8.0 UJ	9.0 UJ	8.0 UJ	8.5 UJ	8.1 U	8.0 U
Tetrachlorobiphenyl		7.8 UJ	8.0 UJ	9.0 UJ	8.0 UJ	8.5 UJ	8.1 U	8.0 U
Trichlorobiphenyl		3.8 UJ	3.9 UJ	4.4 U	3.9 UJ	4.2 UJ	4.0 U	3.9 U
Total PCBs		ND	17	ND	164	ND	64	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		62	21 UJ	72	21 U	47	39	19 UJ
Dichlorobiphenyl		4.0 U	4.2 UJ	3.9 U	4.2 U	3.8 U	3.8 U	3.8 UJ
Heptachlorobiphenyl		12 U	13 UJ	12 U	13 U	12 U	12 U	12 UJ
Hexachlorobiphenyl		8.2 U	8.5 UJ	8.0 U	8.5 U	7.8 U	7.8 U	7.8 UJ
Monochlorobiphenyl		4.0 U	4.2 UJ	3.9 U	4.2 U	3.8 U	3.8 U	3.8 UJ
Nonachlorobiphenyl		35	21 UJ	44	21 U	21	17 J	19 UJ
Octachlorobiphenyl		12 U	13 UJ	12 U	13 U	12 U	12 U	12 UJ
Pentachlorobiphenyl		8.2 U	8.5 UJ	8.0 U	8.5 U	7.8 U	7.8 U	7.8 UJ
Tetrachlorobiphenyl		8.2 U	8.5 UJ	8.0 U	8.5 U	7.8 U	7.8 U	7.8 UJ
Trichlorobiphenyl		4.0 U	4.2 UJ	3.9 U	4.2 U	3.8 U	3.8 U	3.8 UJ
Total PCBs		97	ND	116	ND	68	56	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		19 U	52	20 U	58	0.50 U	18 U	20
Dichlorobiphenyl		3.8 U	3.8 U	4.0 U	3.7 U	0.10 U	3.5 U	3.8 U
Heptachlorobiphenyl		12 U	11 U	12 U	11 U	0.30 U	10 U	11 U
Hexachlorobiphenyl		7.8 U	7.7 U	8.1 U	7.5 U	0.20 U	7.0 U	7.7 U
Monochlorobiphenyl		3.8 U	3.8 U	4.0 U	3.7 U	0.10 U	3.5 U	3.8 U
Nonachlorobiphenyl		9.5 J	38	20 U	30	0.50 U	18 U	10 J
Octachlorobiphenyl		12 U	11 U	12 U	11 U	0.30 U	10 U	11 U
Pentachlorobiphenyl		7.8 U	7.7 U	8.1 U	7.5 U	0.20 U	7.0 U	7.7 U
Tetrachlorobiphenyl		7.8 U	7.7 U	8.1 U	7.5 U	0.20 U	7.0 U	7.7 U
Trichlorobiphenyl		3.8 U	3.8 U	4.0 U	3.7 U	0.10 U	3.5 U	3.8 U
Total PCBs		9.5	90	ND	88	ND	ND	30

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		22 U	180 U	22 U	0.50 U	33 J	20 U	89 U
Dichlorobiphenyl		4.3 U	35 U	4.3 U	0.10 U	3.8 UJ	4.0 U	18 U
Heptachlorobiphenyl		13 U	100 U	13 U	0.30 U	11 UJ	12 U	53 U
Hexachlorobiphenyl		8.8 U	70 U	8.7 U	0.20 U	7.6 UJ	8.1 U	36 U
Monochlorobiphenyl		4.3 U	35 U	4.3 U	0.10 U	3.8 UJ	4.0 U	18 U
Nonachlorobiphenyl		22 U	180 U	22 U	0.50 U	13 J	20 U	89 U
Octachlorobiphenyl		13 U	100 U	13 U	0.30 U	11 UJ	12 U	53 U
Pentachlorobiphenyl		8.8 U	70 U	8.7 U	0.20 U	7.6 UJ	8.1 U	36 U
Tetrachlorobiphenyl		8.8 U	70 U	8.7 U	0.20 U	7.6 UJ	8.1 U	36 U
Trichlorobiphenyl		4.3 U	35 U	4.3 U	0.10 U	3.8 UJ	4.0 U	18 U
Total PCBs		ND	ND	ND	ND	46	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		18 U	18 U	18 U	18 U	10 J	7.6 J	11 J
Dichlorobiphenyl		3.6 U	3.5 U	3.5 U	3.5 U	3.5 U	3.4 U	3.5 U
Heptachlorobiphenyl		11 U	11 U	11 U	10 U	10 U	10 U	10 U
Hexachlorobiphenyl		7.3 U	7.1 U	7.2 U	7.0 U	7.0 U	6.9 U	7.0 U
Monochlorobiphenyl		3.6 U	3.5 U	3.5 U	3.5 U	3.5 U	3.4 U	3.5 U
Nonachlorobiphenyl		18 U	18 U	18 U	7.1 J	18 U	17 U	18 U
Octachlorobiphenyl		11 U	11 U	11 U	10 U	10 U	10 U	10 U
Pentachlorobiphenyl		7.3 U	7.1 U	7.2 U	7.0 U	7.0 U	6.9 U	7.0 U
Tetrachlorobiphenyl		7.3 U	7.1 U	7.2 U	7.0 U	7.0 U	6.9 U	7.0 U
Trichlorobiphenyl		3.6 U	3.5 U	3.5 U	3.5 U	3.5 U	3.4 U	3.5 U
Total PCBs		ND	ND	ND	7.1	10	7.6	11

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	UAS-T4-S5-0-0.5FT	UAS-T4-S5-3-6FT	UAS-T4-S6-0-0.5FT	UAS-T4-S6-3-6FT	UAS-T4-S7-0-0.5FT	UAS-T4-S7-3-6FT	UAS-T5-S1-0-0.5FT
	Sample Date	11/16/99	11/16/99	11/16/99	11/16/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		91 U	21 U	20 U	36	42	45 J	120
Dichlorobiphenyl		18 U	4.2 U	3.9 U	4.2 U	3.7 U	18 U	3.8 U
Heptachlorobiphenyl		54 U	13 U	12 U	13 U	11 U	56 U	11 U
Hexachlorobiphenyl		36 U	8.6 U	8.0 U	8.6 U	7.5 U	38 U	7.6 U
Monochlorobiphenyl		18 U	4.2 U	3.9 U	4.2 U	3.7 U	18 U	3.8 U
Nonachlorobiphenyl		91 U	21 U	20 U	13 J	16 J	8.9 J	45
Octachlorobiphenyl		54 U	13 U	12 U	13 U	11 U	56 U	11 U
Pentachlorobiphenyl		36 U	8.6 U	8.0 U	8.6 U	7.5 U	38 U	7.6 U
Tetrachlorobiphenyl		36 U	8.6 U	8.0 U	8.6 U	7.5 U	38 U	7.6 U
Trichlorobiphenyl		18 U	4.2 U	3.9 U	4.2 U	3.7 U	18 U	3.8 U
Total PCBs		ND	ND	ND	49	58	53.9	165

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T5-S1-3-6FT	UAS-T5-S2-0-0.5FT	UAS-T5-S2-3-6FT	UAS-T5-S3-0-0.5FT	UAS-T5-S3-3-6FT	UAS-T5-S4-0-0.5FT	UAS-T5-S4-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		19 U	75	19 U	110 J	21 UJ	43	17 U
Dichlorobiphenyl		3.7 U	3.7 U	3.8 U	3.6 UJ	4.1 UJ	3.7 U	3.4 U
Heptachlorobiphenyl		11 U	11 U	12 U	11 UJ	12 UJ	11 U	10 U
Hexachlorobiphenyl		7.5 U	7.4 U	7.8 U	7.3 UJ	8.4 UJ	7.5 U	7.0 U
Monochlorobiphenyl		3.7 U	3.7 U	3.8 U	3.6 UJ	4.1 UJ	3.7 U	3.4 U
Nonachlorobiphenyl		19 U	20	19 U	27 J	21 UJ	16 J	17 U
Octachlorobiphenyl		11 U	11 U	12 U	11 UJ	12 UJ	11 U	10 U
Pentachlorobiphenyl		7.5 U	7.4 U	7.8 U	7.3 UJ	8.4 UJ	7.5 U	7.0 U
Tetrachlorobiphenyl		7.5 U	7.4 U	7.8 U	7.3 UJ	8.4 UJ	7.5 U	7.0 U
Trichlorobiphenyl		3.7 U	3.7 U	3.8 U	3.6 UJ	4.1 UJ	3.7 U	3.4 U
Total PCBs		ND	95	ND	137	ND	59	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0.5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		12 J	0.50 U	17 U	0.50 U	36 J	54 J	18 U
Dichlorobiphenyl		3.4 UJ	0.10 U	3.4 U	0.10 U	3.9 UJ	3.9 UJ	3.6 U
Heptachlorobiphenyl		10 UJ	0.30 U	10 U	0.30 U	12 UJ	12 UJ	11 U
Hexachlorobiphenyl		7.0 UJ	0.20 U	7.0 U	0.20 U	7.9 UJ	8.0 UJ	7.4 U
Monochlorobiphenyl		3.4 UJ	0.10 U	3.4 U	0.10 U	3.9 UJ	3.9 UJ	3.6 U
Nonachlorobiphenyl		7.9 J	0.50 U	17 U	0.50 U	15 J	30 J	18 U
Octachlorobiphenyl		10 UJ	0.30 U	10 U	0.30 U	12 UJ	12 UJ	11 U
Pentachlorobiphenyl		7.0 UJ	0.20 U	7.0 U	0.20 U	7.9 UJ	3.4 J	7.4 U
Tetrachlorobiphenyl		7.0 UJ	0.20 U	7.0 U	0.20 U	7.9 UJ	8.0 UJ	7.4 U
Trichlorobiphenyl		3.4 UJ	0.10 U	3.4 U	0.10 U	3.9 UJ	3.9 UJ	3.6 U
Total PCBs		19.9	ND	ND	ND	51	87.4	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Decachlorobiphenyl		18 UJ	15 J	20 UJ	53	20 UJ	12 J	0.50 U
Dichlorobiphenyl		3.7 UJ	3.9 UJ	3.9 UJ	3.8 U	3.9 UJ	3.6 U	0.10 U
Heptachlorobiphenyl		11 UJ	12 UJ	12 UJ	92	12 UJ	11 U	0.30 U
Hexachlorobiphenyl		7.4 UJ	7.9 UJ	8.0 UJ	7.7 U	7.9 UJ	7.4 U	0.20 U
Monochlorobiphenyl		3.7 UJ	3.9 UJ	3.9 UJ	3.8 U	3.9 UJ	3.6 U	0.10 U
Nonachlorobiphenyl		18 UJ	20 UJ	20 UJ	32	20 UJ	18 U	0.50 U
Octachlorobiphenyl		11 UJ	12 UJ	12 UJ	48	12 UJ	11 U	0.30 U
Pentachlorobiphenyl		7.4 UJ	7.9 UJ	8.0 UJ	160	7.9 UJ	7.1 J	0.20 U
Tetrachlorobiphenyl		7.4 UJ	7.9 UJ	8.0 UJ	7.7 U	7.9 UJ	7.4 U	0.20 U
Trichlorobiphenyl		3.7 UJ	3.9 UJ	3.9 UJ	3.8 U	3.9 UJ	3.6 U	0.10 U
Total PCBs		ND	15	ND	385	ND	19.1	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		98 U	0.50 U	17 J	19 UJ	19 UJ	21 U	40
Dichlorobiphenyl		19 U	0.10 U	3.6 UJ	3.8 UJ	3.8 UJ	4.2 U	4.1 U
Heptachlorobiphenyl		59 U	0.30 U	11 UJ	11 UJ	11 UJ	13 U	12 U
Hexachlorobiphenyl		39 U	0.20 U	7.3 UJ	7.7 UJ	7.6 UJ	8.6 U	11
Monochlorobiphenyl		19 U	0.10 U	3.6 UJ	3.8 UJ	3.8 UJ	4.2 U	4.1 U
Nonachlorobiphenyl		98 U	0.50 U	8.2 J	19 UJ	19 UJ	21 U	17 J
Octachlorobiphenyl		59 U	0.30 U	11 UJ	11 UJ	11 UJ	13 U	12 U
Pentachlorobiphenyl		39 U	0.20 U	12 J	7.7 UJ	7.6 UJ	4.3 J	22
Tetrachlorobiphenyl		39 U	0.20 U	7.3 UJ	7.7 UJ	7.6 UJ	8.6 U	8.3 U
Trichlorobiphenyl		19 U	0.10 U	3.6 UJ	3.8 UJ	3.8 UJ	4.2 U	4.1 U
Total PCBs		ND	ND	37.2	ND	ND	4.3	90

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		23 U	15 J	20 U	35	51	19 U	18 U
Dichlorobiphenyl		4.6 U	3.6 U	4.0 U	3.8 U	3.8 U	3.8 U	3.7 U
Heptachlorobiphenyl		14 U	11 U	12 U	11 U	11 U	11 U	11 U
Hexachlorobiphenyl		9.3 U	7.3 U	8.1 U	7.7 U	7.7 U	7.6 U	7.4 U
Monochlorobiphenyl		4.6 U	3.6 U	4.0 U	3.8 U	3.8 U	3.8 U	3.7 U
Nonachlorobiphenyl		23 U	18 U	20 U	13 J	25	19 U	18 U
Octachlorobiphenyl		14 U	11 U	12 U	11 U	11 U	11 U	11 U
Pentachlorobiphenyl		9.3 U	7.3 U	8.1 U	7.7 U	7.7 U	7.6 U	7.4 U
Tetrachlorobiphenyl		9.3 U	7.3 U	8.1 U	7.7 U	7.7 U	7.6 U	7.4 U
Trichlorobiphenyl		4.6 U	3.6 U	4.0 U	3.8 U	3.8 U	3.8 U	3.7 U
Total PCBs		ND	15	ND	48	76	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l	ug/kg dw
Compound								
Decachlorobiphenyl		23	18 U	7.5 J	19 UJ	28	0.50 U	8.4 J
Dichlorobiphenyl		3.5 U	3.7 U	3.6 U	3.8 UJ	3.5 U	0.10 U	3.7 U
Heptachlorobiphenyl		11 U	11 U	11 U	11 UJ	11 U	0.30 U	11 U
Hexachlorobiphenyl		7.2 U	7.4 U	7.3 U	7.6 UJ	7.1 U	0.20 U	7.5 U
Monochlorobiphenyl		3.5 U	3.7 U	3.6 U	3.8 UJ	3.5 U	0.10 U	3.7 U
Nonachlorobiphenyl		11 J	18 U	18 U	19 UJ	10 J	0.50 U	19 U
Octachlorobiphenyl		11 U	11 U	11 U	11 UJ	11 U	0.30 U	11 U
Pentachlorobiphenyl		7.2 U	7.4 U	7.3 U	7.6 UJ	7.1 U	0.12 J	7.5 U
Tetrachlorobiphenyl		7.2 U	7.4 U	7.3 U	7.6 UJ	7.1 U	0.20 U	7.5 U
Trichlorobiphenyl		3.5 U	3.7 U	3.6 U	3.8 UJ	3.5 U	0.10 U	3.7 U
Total PCBs		34	ND	7.5	ND	38	0.12	8.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3e
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 680 Polychlorinated Biphenyl Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg dw	ug/kg dw
Compound				
Decachlorobiphenyl		0.50 U	39	18 U
Dichlorobiphenyl		0.10 U	3.7 U	3.7 U
Heptachlorobiphenyl		0.30 U	11 U	11 U
Hexachlorobiphenyl		0.20 U	7.4 U	7.4 U
Monochlorobiphenyl		0.10 U	3.7 U	3.7 U
Nonachlorobiphenyl		0.50 U	12 J	18 U
Octachlorobiphenyl		0.30 U	11 U	11 U
Pentachlorobiphenyl		0.20 U	7.4 U	7.4 U
Tetrachlorobiphenyl		0.20 U	7.4 U	7.4 U
Trichlorobiphenyl		0.10 U	3.7 U	3.7 U
Total PCBs		ND	51	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-3f

Soil – Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	BS-EE-04-0-0 5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0 5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0 5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l
Compound								
Aluminum		19000	19000	8400	11000	10000	8100	0.20 U
Antimony		1.9 J	R	R	R	1.2 J	R	0.020 U
Arsenic		8.8	9.4	7.3	13	12	6.6	0.010 U
Barium		210 J	260 J	170 J	200 J	190 J	110 J	0.010 U
Beryllium		1.1	1.1	0.5	0.71	0.68	0.45 J	0.0040 U
Cadmium		2.9	3.2	0.11 J	9.4	8.9	0.52 J	0.0050 U
Calcium		6200 J	6400 J	8400 J	4000 J	3800 J	40000 J	0.21 J
Chromium		25	25	13	17	18	17	0.010 U
Cobalt		9.8	11	6.4	7.4	6.8	5.5	0.010 U
Copper		96	81	11	190	180	35	0.020 U
Cyanide, Total		0.66 U	0.67 U	0.65 U	0.62 U	0.6 U	0.6 U	0.010 U
Iron		24000 J	26000 J	14000 J	17000 J	18000 J	15000 J	0.043 J
Lead		78	69	8.5	180	160	24	0.0050 U
Magnesium		5500	5800	5700	3200	3100	17000	0.50 U
Manganese		470 J	600 J	420 J	400 J	370 J	390 J	0.010 U
Mercury		0.083 J	0.081 J	0.02 J	0.14 J	0.0041 J	0.044 J	0.00020 U
Molybdenum		0.85 J	0.98 J	0.5 J	1.4	1.5	0.72 J	0.010 U
Nickel		26	30	16	21	20	15	0.040 U
Potassium		3400	3600	1800	2300	2200	1300	1.0 U
Selenium		1.2 U	1.3 U	1.1 U	1.1 U	1.1 U	1.2 U	0.010 U
Silver		0.38 J	0.27 J	1.1 U	1.1 J	0.98 J	1.2 U	0.010 U
Sodium		100 U	100 U	120 U	130 U	120 U	750 J	0.58
Thallium		1.2 U	1.3 U	1.1 U	0.76 UJ	0.84 UJ	1.2 U	0.010 U
Vanadium		44	45	25	31	31	28	0.010 U
Zinc		320 J	300 J	42 J	820 J	770 J	82 J	0.014 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S1-3-6FT	DAS-T1-S2-0-0.5FT	DAS-T1-S2-3-6FT	DAS-T1-S3-0-0.5FT
	Sample Date	01/27/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		12000	5800	5800	3500	7800	5600	6000
Antimony		R	R	2.3 UJ	2.1 UJ	2.3 UJ	1.9 UJ	2.2 UJ
Arsenic		6.8	7.6	8.0	3.8	7.5	5.1	8.7
Barium		200 J	160	160	120 J	120	190 J	130
Beryllium		0.72	0.47	0.45 J	0.24 J	0.50	0.39	0.47
Cadmium		1.3	3.5 J	2.5 J	0.16 J	1.9 J	0.27 J	1.7 J
Calcium		12000 J	7800 J	7800 J	8700	6800 J	16000	5100 J
Chromium		18	11	11	6.5	14	9.7	12
Cobalt		7.7	5.9	5.7	4.1	7.8	5.3	5.9
Copper		41	110 J	85 J	5.4	85 J	11	73 J
Cyanide, Total		0.62 U	0.57 U	0.57 U	0.58 U	0.57 U	0.57 U	0.60 U
Iron		18000 J	13000 J	13000 J	8300	15000 J	11000	12000 J
Lead		45	110 J	81 J	5.5	50 J	7.6	50 J
Magnesium		5200	5000	5100	4100 J	4400	6100 J	3200
Manganese		410 J	320	290	240	470	270	320
Mercury		0.06 J	0.093 J	0.071 J	0.0088 UJ	0.060 J	0.02 UJ	0.054 J
Molybdenum		0.62 J	0.45 J	0.38 J	0.27 J	0.50 J	0.47 J	0.50 J
Nickel		20	18	17	11	19	14	16
Potassium		2300	1600	1600	750	1400	1300	1300
Selenium		1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.96 U	1.1 U
Silver		1.1 U	0.62 J	0.37 J	1.1 U	0.34 J	0.96 U	0.28 J
Sodium		410 J	130 U	140 U	110 U	100 U	130 U	130 U
Thallium		1.1 U	0.79 J	1.1 U	1.1 U	0.98 J	0.96 U	0.84 J
Vanadium		31	19	19	12 J	25	17 J	18
Zinc		150 J	350 J	240 J	25	230 J	37	250 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT	DAS-T2-S1-3-6FT	DAS-T2-S2-0-0.5FT	DAS-T2-S2-3-6FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		5800	7200	4900	13000	2800	11000	3100
Antimony		2.3 UJ	2.2 UJ	2.0 UJ	2.1 UJ	2.1 UJ	2.2 UJ	2.2 UJ
Arsenic		5.9	7.6	5.0	6.0	3.4	9.0	3.8
Barium		140 J	160	170 J	190	110 J	190	110 J
Beryllium		0.40 J	0.55	0.36 J	0.72	0.19 J	0.76	0.22 J
Cadmium		0.31 J	2.6 J	0.27 J	1.1 J	0.14 J	2.4 J	0.11 J
Calcium		6200	16000 J	15000	11000 J	5900	16000 J	5300
Chromium		9.9	13	8.9	48	6.5	19	6.6
Cobalt		5.7	6.4	5.3	6.9	4.0	8.3	4.3
Copper		13	110 J	10	53 J	3.7	94 J	4.8
Cyanide, Total		0.64 U	0.60 U	0.56 U	0.57 U	0.53 U	0.66 U	0.55 U
Iron		12000	16000 J	11000	25000 J	7900	19000 J	8400
Lead		11	88 J	8.1	24 J	5.5	76 J	5.6
Magnesium		4400 J	9500	5800 J	4800	3500 J	5800	3600 J
Manganese		350	430	250	1200	140	560	160
Mercury		0.024 UJ	0.076 J	0.017 UJ	0.094 J	0.021 U	0.086 J	0.02 U
Molybdenum		0.41 J	0.82 J	0.42 J	0.55 J	0.16 J	0.94 J	0.25 J
Nickel		15	24	14	18	10	24	11
Potassium		1100	1900	1100	2400	580	2500	670
Selenium		1.2 U	1.1 U	1.0 U	1.0 U	1.1 U	0.55 J	1.1 U
Silver		1.2 U	0.48 J	1.0 U	1.0 U	1.1 U	0.43 J	1.1 U
Sodium		140 U	130 U	140 U	97 U	140 U	130 U	110 U
Thallium		1.2 U	1.1 U	1.0 U	1.3	1.1 U	0.71 J	0.63 J
Vanadium		18 J	24	16 J	120	12 J	34	13 J
Zinc		50	290 J	36	140 J	25	260 J	25

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File: D TEMPDATA.DBF
FXP File: D TABLEPRS.FXP

e Number 10040 25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S1-3-6FT	DAS-T3-S2-0-0.5FT	DAS-T3-S2-3-6FT	DAS-T3-S3-0-0.5FT	DAS-T3-S3-0-0.5FTEB
	Sample Date	04/18/00	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l
Aluminum		2600	5500	5700	8500	3300	5900	0.20 U
Antimony		2.0 UJ	2.5 UJ	2.6 UJ	2.4 UJ	2.2 UJ	2.1 UJ	0.020 U
Arsenic		3.1	6.4	5.7	9.7	3.6	6.2	0.010 U
Barium		89 J	140	200	200	170	150	0.010 U
Beryllium		0.18 J	0.41 J	0.42 J	0.59	0.23 J	0.41 J	0.0040 U
Cadmium		0.51 U	2.0	0.24 J	2.2	0.15 J	2.5	0.0050 U
Calcium		4500	15000 J	19000 J	12000 J	13000 J	17000 J	0.099 J
Chromium		5.5	20	10	15	6.8	12	0.010 U
Cobalt		3.8	5.4	5.7	7.1	4.1	5.6	0.010 U
Copper		3.7	70	12	72	4.4	63	0.020 U
Cyanide, Total		0.56 U	0.62 U	0.65 U	0.60 U	0.56 U	0.57 U	0.010 U
Iron		7100	12000 J	12000	16000 J	8500	12000 J	0.050 U
Lead		4.9	53 J	8.9	90 J	5.5	53 J	0.0016 J
Magnesium		2900 J	5300	7200	5600	5000	7300	0.50 U
Manganese		160	400	270	420	180	360	0.010 U
Mercury		0.02 U	0.050 J	0.023	0.055 J	0.0080 J	0.068 J	0.00011 J
Molybdenum		0.24 J	0.37 J	0.42 J	0.61 J	0.30 J	0.71 J	0.010 U
Nickel		9.3	16	16	23	10	16	0.040 U
Potassium		560	1300	1300	2100	720	1700	1.0 U
Selenium		1.0 U	1.2 U	1.3 U	1.2 U	1.1 U	1.0 U	0.010 U
Silver		1.0 U	0.35 J	1.3 U	0.26 J	1.1 U	0.20 J	0.010 U
Sodium		100 U	120 U	160	150 U	120	120 U	0.50 U
Thallium		1.0 U	0.90 J	1.3 U	1.4	1.1 U	0.78 J	0.010 U
Vanadium		10 J	23	18	25	13	20	0.010 U
Zinc		22	220 J	41 J	240 J	26 J	260 J	0.020 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File: D:\25501\TEMPDATA.DBF
FXP File: D:\25501\TABLEPRS.FXP

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	DAS-T3-S3-3-6FT	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S1-3-6FT	DAS-T4-S1-3-6FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		6100	7300	7200	6500	6600	13000	4100
Antimony		2.5 UJ	2.2 UJ	2.4 UJ	2.6 UJ	2.6 UJ	0.65 J	2.2 UJ
Arsenic		5.1	8.9	8.1	5.6	5.9	10	4.5
Barium		200	180	170	190	190	200	140
Beryllium		0.42 J	0.57	0.55	0.46 J	0.45 J	0.86	0.29 J
Cadmium		0.28 J	2.7	2.5	0.29 J	0.25 J	3.2	0.18 J
Calcium		17000 J	7100 J	6100 J	15000 J	15000 J	7100 J	11000
Chromium		10	13	13	11	11	20	8.1
Cobalt		5.6	6.6	6.4	6.3	5.9	8.8	4.7
Copper		11	55	53	13	12	79	6.2
Cyanide, Total		0.62 U	0.61 U	0.60 U	0.66 U	0.65 U	0.62 U	0.60 U
Iron		12000	15000 J	14000 J	13000	13000	21000 J	9900
Lead		8.3	76 J	74 J	9.9	9.6	96 J	6.4
Magnesium		5900	3900	3500	6900	6700	4200	5100
Manganese		350	400	390	360	350	510	190
Mercury		0.019 J	0.065 J	0.055 J	0.018 J	0.020 J	0.11 J	0.015 UJ
Molybdenum		0.52 J	0.63 J	0.53 J	0.42 J	0.41 J	1.0 J	0.39 J
Nickel		14	19	18	16	16	24	12
Potassium		1400	2000	2000	1300	1300	2600 J	880 J
Selenium		1.2 U	1.1 U	1.2 U	1.3 U	1.3 U	0.88 J	1.1 U
Silver		1.2 U	0.29 J	1.2 U	1.3 U	1.3 U	0.29 J	1.1 U
Sodium		160	94 U	110 U	140	140	74 U	100
Thallium		1.2 U	1.1 U	0.86 J	1.3 U	1.3 U	1.1 J	1.1 U
Vanadium		19	21	21	20	20	35	15
Zinc		38 J	240 J	230 J	47 J	44 J	310	30

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	DAS-T4-S3-0-0.5FT	DAS-T4-S3-3-6FT	DAS-T5-S1-0-0.5FT	DAS-T5-S1-0-0.5FTEB	DAS-T5-S1-3-6FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/20/00	04/20/00	04/19/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		14000	5500	6200	0.20 U	5300	6100	4000
Antimony		2.5 UJ	2.4 UJ	2.2 UJ	0.020 U	2.4 UJ	2.1 UJ	2.2 UJ
Arsenic		9.1	4.4	5.4	0.010 U	5.4	5.5	4.3
Barium		180	130	170	0.010 U	200	150	180
Beryllium		0.79	0.36 J	0.46	0.0040 U	0.40 J	0.45	0.29 J
Cadmium		1.7	0.20 J	3.1	0.0050 U	0.33 J	1.4	0.19 J
Calcium		11000 J	6800	13000 J	0.13 J	19000 J	11000 J	15000 J
Chromium		20	10	13	0.010 U	9.7	11	7.7
Cobalt		10	5.1	6.1	0.010 U	5.8	6.0	4.6
Copper		64	8.7	75	0.020 U	12	40	6.3
Cyanide, Total		0.62 U	0.66 U	0.60 U	0.010 U	0.60 U	0.59 U	0.55 U
Iron		21000 J	11000	13000 J	0.028 J	12000	13000 J	9800
Lead		50 J	7.7	130 J	0.0050 U	8.9	35 J	6.7
Magnesium		4000	4700	4800	0.50 U	6400	4500	5700
Manganese		610	280	360	0.010 U	290	400	230
Mercury		0.073 J	0.021 UJ	0.097 J	0.000088 J	0.020 J	0.044 J	0.011 J
Molybdenum		0.85 J	0.46 J	0.78 J	0.010 U	0.45 J	0.40 J	0.35 J
Nickel		23	14	19	0.040 U	15	16	12
Potassium		2100 J	1100 J	1600	1.0 U	1100	1600	930
Selenium		1.2 U	1.2 U	1.1 U	0.010 U	1.2 U	1.1 U	1.1 U
Silver		1.2 U	1.2 U	0.21 J	0.010 U	1.2 U	1.1 U	1.1 U
Sodium		87 U	99	130 U	0.33 J	160	110 U	120
Thallium		1.1 J	1.2 U	1.1 U	0.010 U	1.2 U	1.1 U	1.1 U
Vanadium		34 J	17	19	0.010 U	17	19	14
Zinc		180	36	330 J	0.020 U	40 J	140 J	31 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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DBF File: D:\25501\TEMPDATA.DBF
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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T5-S3-3-6FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S2-3-6FT	DAS-T6-S3-0-0.5FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		5300	3600	7100	5500	7500	6700	5200
Antimony		2.2 UJ	2.0 UJ	0.59 J	2.3 UJ	2.3 UJ	2.3 UJ	2.2 UJ
Arsenic		5.7	4.5	8.0	6.0	5.8	6.1	4.3
Barium		170	160	200	200	160	200	110
Beryllium		0.40 J	0.28 J	0.55	0.38 J	0.49	0.45 J	0.32 J
Cadmium		5.7	0.34 J	4.0	0.59	1.1	0.32 J	1.8
Calcium		18000 J	13000 J	9500 J	18000	9600 J	17000	150000 J
Chromium		12	7.3	14	10	13	11	13
Cobalt		5.2	4.6	6.5	5.3	6.1	5.8	3.9
Copper		70	8.2	56	12	24	12	36
Cyanide, Total		0.55 U	0.56 U	0.59 U	0.57 U	0.57 U	0.58 U	0.54 U
Iron		12000 J	9200	15000 J	12000	14000 J	13000	9000 J
Lead		130 J	9.0	110 J	16	29 J	8.8	87 J
Magnesium		4600	4900	4900	6800	5900	6600	11000
Manganese		280	200	350	240	340	290	280
Mercury		0.089 J	0.014 J	0.071 J	0.022 UJ	0.049 J	0.026 UJ	0.049 J
Molybdenum		0.58 J	0.35 J	0.83 J	0.39 J	0.37 J	0.42 J	0.59 J
Nickel		14	12	20	15	17	16	15
Potassium		1500	1100	1700 J	1200 J	1900 J	1500 J	1600 J
Selenium		1.1 U	1.0 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
Silver		0.60 J	1.0 U	0.29 J	1.1 U	1.1 U	1.2 U	1.1 U
Sodium		160 U	110	140 U	140	120 U	120	180 U
Thallium		1.1 U	1.0 U	0.73 J	1.1 U	0.97 J	1.2 U	1.1 U
Vanadium		17	13	22 J	18	22 J	20	17 J
Zinc		750 J	41 J	350	60	110	42	240

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File: D:\ EMPDATA.DBF
FXP File: D:\ ABLEPRS.FXP

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	DAS-T6-S3-3-6FT	DAS-T7-S1-0-0.5FT	DAS-T7-S1-3-6FT	DAS-T7-S2-0-0.5FT	DAS-T7-S2-3-6FT	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT
	Sample Date	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	11/10/99	11/10/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		5600	9000	7900	7200	9700	12000 J	12000 J
Antimony		2.2 UJ	2.3 UJ	2.3 UJ	2.4 UJ	0.60 J	2.3 J	0.72 J
Arsenic		5.7	7.6	6.6	6.8	5.5	10	8.7
Barium		190	180	220	160	280	240	260
Beryllium		0.38 J	0.59	0.50	0.47 J	0.49	0.71	0.73
Cadmium		0.29 J	3.6	0.37 J	2.2	7.9	4.8	0.53 J
Calcium		14000	8100 J	17000	38000 J	4700	5000 J	15000 J
Chromium		9.8	20	13	16	130	49	19
Cobalt		5.4	7.5	6.8	6.1	5.7	7.1	8.4
Copper		9.4	29	14	33	62	150	21
Cyanide, Total		0.56 U	0.58 U	0.64 U	0.60 U	0.66 U	0.62 U	0.60 U
Iron		12000	15000 J	15000	14000 J	11000	16000	19000
Lead		8.0	39 J	10	67 J	77	93	14
Magnesium		6400	5200	7000	7900	3200	4100	8300
Manganese		270	390	400	380	150	190	550
Mercury		0.078 J	0.066 J	0.027 UJ	0.089 J	0.12 J	0.099	0.031
Molybdenum		0.46 J	0.51 J	0.52 J	0.69 J	0.33 J	0.42 J	0.57 J
Nickel		14	21	17	18	19	21	23
Potassium		1200 J	2000 J	1700 J	1500 J	2100 J	2400	2400
Selenium		1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	0.81 J	1.2 U
Silver		1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	0.27 J	1.2 U
Sodium		130	130 U	160	150 U	260	180 U	230 U
Thallium		1.1 U	1.2 U	1.2 U	0.85 J	0.72 J	1.1 U	1.2 U
Vanadium		18	25	23 J	22	23 J	32	35
Zinc		37	870	74	260	1200	1400 J	250 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File: D:\25501\TEMPDATA.DBF
FXP File: D:\25501\TABLEPRS.FXP

File Number 10040.25501

O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	UAS-T1-S2-0-0.5FT	UAS-T1-S2-3-6FT	UAS-T1-S3-0-0.5FT	UAS-T1-S3-3-6FT	UAS-T1-S4-0-0.5FT	UAS-T1-S4-3-6FT	UAS-T1-S5-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		13000 J	7400 J	15000 J	17000 J	13000 J	4300 J	13000 J
Antimony		2.6	0.68 J	2.6	0.84 J	1.8 J	0.60 J	2.1
Arsenic		8.3	6.5	9.0	8.7	8.8	4.2	8.9
Barium		210	210	210	260	210	160	200
Beryllium		0.75	0.48 J	0.94	0.93	0.76	0.27 J	0.83
Cadmium		3.5	0.13 J	3.7	0.45 J	2.4	0.10 J	2.5
Calcium		5100 J	17000 J	5200 J	16000 J	4200 J	11000 J	4400 J
Chromium		19	13	22	25	19	11	19
Cobalt		7.8	5.5	9.2	11	7.5	4.4	8.6
Copper		230	13	230	24	160	6.8	130
Cyanide, Total		0.62 U	0.63 U	0.64 U	0.66 U	0.60 U	0.54 U	0.58 U
Iron		18000	13000	22000	22000	19000	9300	20000
Lead		92	8.9	120	15	73	7.3	69
Magnesium		4500	6900	4600	7800	4300	4700	4100
Manganese		450	240	460	980	430	170	550
Mercury		0.069	0.021 J	0.088	0.035	0.050	0.0078 J	0.053
Molybdenum		0.43 J	0.32 J	0.86 J	0.76 J	0.36 J	0.21 J	0.74 J
Nickel		23	15	25	33	21	12	23
Potassium		2800	1500	2800	2700	2500	880	2300
Selenium		1.3 U	1.3 U	1.3 U	1.2 U	1.2 U	0.99 U	0.72 J
Silver		0.48 J	1.3 U	0.59 J	1.2 U	0.27 J	0.99 U	0.28 J
Sodium		120 U	180 U	130 U	140 U	130 U	120 U	110 U
Thallium		1.3 U	1.3 U	1.3 U	1.2 U	0.80 J	0.99 U	1.2 U
Vanadium		35	23	41	45	36	16	35
Zinc		340 J	43 J	390 J	80 J	280 J	34 J	270 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File: D:\2 [illegible]MPDATA.DBF
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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T1-S5-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0 5FT	UAS-T1-S7-0-0 5FTEB	UAS-T1-S7-0-0.5FTFD	UAS-T1-S7-3-6FT
	Sample Date	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99	11/11/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw	mg/kg dw
Compound								
Aluminum		3800 J	7000 J	6700 J	6600 J	0.065 J	5900 J	7000 J
Antimony		0.59 J	1.5 J	2.2 U	1.2 J	0.020 U	0.60 J	2.1 U
Arsenic		4.0	6.2	5.5	5.9	0.010 U	5.6	5.5
Barium		140	180	200	170	0.010 U	160	170
Beryllium		0.25 J	0.46	0.43 J	0.43 J	0.0040 U	0.40 J	0.44
Cadmium		0.54 U	1.7	0.23 J	2.1	0.0050 U	2.2	0.30 J
Calcium		11000 J	8700 J	18000 J	6900 J	0.27 J	6700 J	11000 J
Chromium		7.8	12	11	12	0.010 U	11	11
Cobalt		4.3	5.4	5.4	5.1	0.010 U	4.8	5.5
Copper		4.0	86	14	72	0.020 U	81	16
Cyanide, Total		0.54 U	0.54 U	0.61 U	0.56 U	0.010 U	0.56 U	0.59 U
Iron		8700	13000	12000	12000	0.050 U	11000	12000
Lead		5.4	40	9.1	46	0.0050 U	46	11
Magnesium		4400	5300	6800	4600	0.50 U	4300	5600
Manganese		170	250	280	230	0.010 U	220	310
Mercury		0.0059 J	0.031	0.070	0.037	0.00020 U	0.040	0.020 J
Molybdenum		0.20 J	0.35 J	0.39 J	0.46 J	0.010 U	0.45 J	0.37 J
Nickel		11	15	14	14	0.040 U	14	14
Potassium		760	1500	1400	1400	1.0 U	1400	1300
Selenium		1.1 U	1.1 U	1.1 U	1.1 U	0.010 U	1.1 U	1.1 U
Silver		1.1 U	1.1 U	1.1 U	1.1 U	0.010 U	0.21 J	1.1 U
Sodium		130 U	140 U	180 U	140 U	0.60	130 U	160 U
Thallium		1.1 U	1.1 U	1.1 U	1.1 U	0.010 U	1.1 U	1.1 U
Vanadium		14	22	21	21	0.010 U	20	21
Zinc		28 J	180 J	45 J	240 J	0.020 U	250 J	56 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T1-S7-3-6FTEB	UAS-T1-S7-3-6FTFD	UAS-T2-S1-0-0.5FT	UAS-T2-S1-3-6FT	UAS-T2-S2-0-0.5FT	UAS-T2-S2-3-6FT	UAS-T2-S3-0-0.5FT
	Sample Date	11/11/99	11/11/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		0.064 J	8000 J	11000 J	6100 J	9800 J	5200 J	18000 J
Antimony		0.020 U	2.4 U	1.4 J	2.2 U	1.5 J	2.2 U	1.3 J
Arsenic		0.010 U	6.0	9.0	5.2	7.0	4.3	10
Barium		0.010 U	170	200	190	160	160 J	230 J
Beryllium		0.0040 U	0.49	0.66	0.37 J	0.62	0.40 U	1.1 J
Cadmium		0.0050 U	0.36 J	2.8	0.16 J	1.9	0.19 J	2.1
Calcium		0.31 J	9800 J	4600 J	14000 J	3500 J	11000 J	4600 J
Chromium		0.010 U	13	17	11	15	9.6	24
Cobalt		0.010 U	5.9	7.1	4.9	6.5	4.9	11
Copper		0.020 U	17	140	8.0	77	7.6	87
Cyanide, Total		0.010 U	0.59 U	0.56 U	0.54 U	0.60 U	0.56 U	0.62 U
Iron		0.050 U	13000	17000	11000	15000	9700	24000
Lead		0.0050 U	12	79	7.3	50	7.0	66
Magnesium		0.50 U	5400	3700	6000	3400	5000	5200
Manganese		0.010 U	320	410	220	390	190	690
Mercury		0.00020 U	0.022	0.065	0.014 J	0.047	0.0058 J	0.069
Molybdenum		0.010 U	0.38 J	0.47 J	0.19 J	0.46 J	0.77 J	1.3 J
Nickel		0.040 U	15	23	13	18	11	27
Potassium		1.0 U	1500	2200	1200	1700	1100 J	3300 J
Selenium		0.010 U	1.2 U	1.1 U	1.1 U	1.1 U	0.51 J	1.2 U
Silver		0.010 U	1.2 U	0.41 J	1.1 U	0.24 J	1.0 U	0.30 J
Sodium		0.84	140 U	120 U	150 U	120 U	110 U	89 U
Thallium		0.010 U	1.2 U	1.1 U	1.1 U	1.1 U	1.0 U	0.73 J
Vanadium		0.010 U	24	30	20	28	17 J	40 J
Zinc		0.020 U	63 J	310 J	37 J	190 J	34 J	250 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T2-S3-3-6FT	UAS-T2-S4-0-0.5FT	UAS-T2-S4-3-6FT	UAS-T2-S5-0-0.5FT	UAS-T2-S5-3-6FT	UAS-T2-S6-0-0.5FT	UAS-T2-S6-3-6FT
	Sample Date	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99	11/12/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		4500 J	18000 J	11000 J	11000 J	5400 J	9900 J	7700 J
Antimony		2.1 U	1.7 J	2.7 U	1.1 J	0.67 J	0.67 J	2.4 U
Arsenic		4.0	9.4	7.0	6.9	4.3	6.6	5.4
Barium		140 J	230	220 J	180 J	160 J	190 J	220 J
Beryllium		0.37 U	1.0	0.71 U	0.73 U	0.44 U	0.72 U	0.57 U
Cadmium		0.11 J	2.7	0.29 J	2.1	0.15 J	2.8	0.32 J
Calcium		9200 J	4800 J	15000 J	4300 J	14000 J	8800 J	15000 J
Chromium		8.6	25	15	16	8.8	15	12
Cobalt		4.7	9.9	8.3	6.9	4.6	6.8	6.1
Copper		5.9	95	16	69	9.3	87	13
Cyanide, Total		0.58 U	0.60 U	0.68 U	0.60 U	0.63 U	0.60 U	0.60 U
Iron		9100	24000	16000	16000	9800	15000	12000
Lead		6.4	72	12	48	7.8	79	11
Magnesium		4300	5000	6800	3900	5900	5100	6200
Manganese		170	630	480	340	210	350	310
Mercury		0.0088 J	0.077	0.029	0.045	0.010 J	0.063	0.015 J
Molybdenum		0.52 J	0.87 J	0.70 J	0.79 J	0.45 J	0.70 J	0.68 J
Nickel		11	26	20	18	11	18	15
Potassium		870 J	3800	2000 J	2500 J	1200 J	2500 J	1800 J
Selenium		1.1 U	0.61 J	1.2 U	0.99 U	1.1 U	1.0 J	1.2 U
Silver		1.1 U	0.28 J	1.2 U	0.23 J	1.1 U	0.38 J	1.2 U
Sodium		93 U	96 U	160 U	100 U	120 U	130 U	130 U
Thallium		1.1 U	1.0 J	1.2 U	0.99 U	1.1 U	1.2 U	1.2 U
Vanadium		15 J	46	28 J	30 J	17 J	28 J	23 J
Zinc		30 J	270 J	57 J	210 J	39 J	290 J	51

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T3-S1-0-0.5FT	UAS-T3-S1-3-6FT	UAS-T3-S2-0-0.5FT	UAS-T3-S2-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99	11/15/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		11000 J	9400 J	16000 J	14000 J	5500 J	14000 J	6000 J
Antimony		2.2 UJ	0.79 J	1.9 J	2.5 UJ	0.90 J	2.3 UJ	0.78 J
Arsenic		7.5	7.0	9.4	8.5	3.2 J	7.9 J	4.7
Barium		200	200 J	220 J	250	87 J	210 J	200 J
Beryllium		0.63	0.66 U	0.99 J	0.73	0.43 U	0.77	0.49 U
Cadmium		1.5	0.57 J	2.7	0.23 J	0.96 J	2.2 J	0.18 J
Calcium		7600 J	11000 J	4400 J	13000 J	2100 J	5100 J	15000 J
Chromium		16	14	22	20	7.7 J	19 J	9.8
Cobalt		6.7	7.2	10	8.1	3.6 J	8.2 J	5.3
Copper		55	15	65	19	28 J	75 J	8.8
Cyanide, Total		0.61 U	0.63 U	0.60 U	0.63 U	0.58 U	0.58 U	0.58 U
Iron		16000	15000	21000	19000	7900 J	19000 J	11000
Lead		40 J	12	63	13 J	21 J	50 J	7.7
Magnesium		5600	6900	4500	7700	1800 J	4200 J	6400
Manganese		380	380	610	550	220 J	530 J	240
Mercury		0.042	0.024 J	0.055	0.033	0.073 J	0.055 J	0.014 J
Molybdenum		0.38 J	0.91 J	0.94 J	0.30 J	0.30 J	0.57 J	0.54 J
Nickel		20	18	26	22	9.1 J	21 J	13
Potassium		2300 J	1900 J	3000 J	2700 J	1500 J	3400 J	1400 J
Selenium		1.1 U	1.2 U	1.1 U	1.3 U	1.2 U	1.2 U	1.1 U
Silver		1.1 U	1.2 U	1.1 U	1.3 U	1.2 U	1.2 U	1.1 U
Sodium		120 U	150 U	100 U	150 U	58 U	110 U	120 U
Thallium		1.1 U	1.2 U	1.1 U	1.3 U	1.2 U	1.2 U	1.1 U
Vanadium		30	26 J	39 J	38	15 J	36 J	18 J
Zinc		160	260	240	65	98 J	220 J	37

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T3-S3-3-6FTFD	UAS-T3-S4-0-0.5FT	UAS-T3-S4-3-6FT	UAS-T3-S5-0-0.5FT	UAS-T3-S5-0-0.5FTEB	UAS-T3-S5-3-6FT	UAS-T3-S6-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/15/99	11/15/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw	mg/kg dw
Compound								
Aluminum		7100 J	17000 J	6700 J	9900 J	0.047 J	2100 J	7700 J
Antimony		2.1 U	1.1 J	2.4 U	1.2 J	0.020 U	1.9 U	2.3 U
Arsenic		4.9	8.0	5.3	5.2	0.010 U	1.9	5.8
Barium		220 J	210 J	160 J	150 J	0.010 U	45 J	190 J
Beryllium		0.54 U	1.1 J	0.58 U	0.76 J	0.0040 U	0.24 U	0.61 U
Cadmium		0.17 J	2.7	0.30 J	2.2	0.0050 U	0.48 U	2.2
Calcium		16000 J	4600 J	10000 J	3500 J	0.30 J	2400 J	9500 J
Chromium		12	23	11	15	0.010 U	5.6	12
Cobalt		5.6	9.5	6.0	6.4	0.010 U	2.8	6.1
Copper		9.1	77	14	79	0.020 U	2.8	48
Cyanide, Total		0.58 U	0.57 U	0.60 U	0.56 U	0.010 U	0.53 U	0.57 U
Iron		12000	22000	13000	15000	0.050 U	5000	13000
Lead		8.2	64	11	56	0.0050 U	4.5	39
Magnesium		6900	4700	5600	3100	0.50 U	1700	5400
Manganese		260	510	250	250	0.010 U	92	360
Mercury		0.014 J	0.072	0.019 J	0.079	0.00020 U	0.0029 J	0.049
Molybdenum		0.89 J	1.2 J	0.38 J	0.56 J	0.010 U	0.25 J	0.77 J
Nickel		14	24	15	17	0.040 U	7.4	15
Potassium		1500 J	3700 J	1500 J	2100 J	1.0 U	490 J	1900 J
Selenium		1.2 U	1.1 U	1.2 U	0.60 J	0.010 U	0.96 U	1.1 U
Silver		1.2 U	1.1 U	1.2 U	1.0 U	0.010 U	0.96 U	1.1 U
Sodium		140 U	94 U	110 U	70 U	0.62	48 U	120 U
Thallium		1.2 U	1.1 U	1.2 U	1.0 U	0.010 U	0.96 U	1.1 U
Vanadium		22 J	42 J	21 J	27 J	0.010 U	7.7 J	23 J
Zinc		40	300	53	410	0.020 U	24	250

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File: D:\25501\TEMPDATA.DBF
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Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	UAS-T3-S6-3-6FT	UAS-T3-S7-0-0.5FT	UAS-T3-S7-3-6FT	UAS-T3-S7-3-6FTEB	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S2-0-0.5FT
	Sample Date	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99	11/17/99	11/16/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		13000 J	3300 J	6600 J	0.064 J	8100 J	9000 J	7900 J
Antimony		0.67 J	2.1 UJ	0.79 J	0.020 U	2.3 UJ	2.4 UJ	2.1 UJ
Arsenic		5.8	2.6	5.8	0.010 U	6.6	5.8	5.7
Barium		190 J	40	210 J	0.010 U	190	210	1200
Beryllium		0.89 J	0.18 J	0.56 U	0.0040 U	0.54	0.50	0.54
Cadmium		0.57	3.8	0.17 J	0.0050 U	2.3	0.13 J	1.5
Calcium		6900 J	250000 J	18000 J	0.44 J	6000 J	15000 J	82000 J
Chromium		21	11	11	0.010 U	13	14	29
Cobalt		7.4	2.3	5.8	0.010 U	6.2	5.9	5.9
Copper		19	75	10	0.020 U	69	12	180
Cyanide, Total		0.66 U	0.53 U	0.65 U	0.010 U	0.57 U	0.60 U	0.53 U
Iron		19000	4100	12000	0.050 U	14000	14000	14000
Lead		17	51 J	8.8	0.0050 U	62	8.5	190
Magnesium		4900	18000	6600	0.50 U	3900	6800	8100
Manganese		300	120	270	0.010 U	340 J	320 J	430 J
Mercury		0.078	0.093	0.020 J	0.00020 U	0.066	0.017 J	0.084
Molybdenum		0.54 J	1.4	0.95 J	0.010 U	0.32 J	0.24 J	1.2
Nickel		20	14	14	0.040 U	17	16	18
Potassium		2700 J	1200 J	1500 J	1.0 U	1900 J	1700 J	1400 J
Selenium		1.1 U	3.2	1.3 U	0.010 U	1.1 U	1.2 U	1.1 U
Silver		1.1 U	0.38 J	1.3 U	0.010 U	0.24 J	1.2 U	1.1 U
Sodium		110 U	260 U	170 U	0.68	170 U	180 U	190 U
Thallium		1.1 U	1.1 U	1.3 U	0.010 U	1.1 U	1.2 U	1.1 U
Vanadium		33 J	13	20 J	0.010 U	23	26	22
Zinc		82	460	45	0.020 U	240	44	290

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	UAS-T4-S2-3-6FT	UAS-T4-S3-0-0.5FT	UAS-T4-S3-0-0.5FTFD	UAS-T4-S3-3-6FT	UAS-T4-S3-3-6FTFD	UAS-T4-S4-0-0.5FT	UAS-T4-S4-3-6FT
	Sample Date	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/16/99	11/17/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Aluminum		6700 J	10000 J	9800 J	2900 J	3700 J	5100 J	3800 J
Antimony		2.0 UJ	1.9 UJ	2.0 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.1 UJ
Arsenic		4.5	6.0	5.9	3.2	3.4	3.4	3.7
Barium		200	130	140	85	90	77	90
Beryllium		0.36 J	0.50	0.50	0.18 J	0.21 J	0.27 J	0.25 J
Cadmium		0.45 J	0.47 J	0.45 J	0.53 U	0.53 U	0.83	0.22 J
Calcium		130000 J	50000 J	49000 J	6100 J	6800 J	96000 J	7800 J
Chromium		17	14	14	8.1 J	18 J	11	10
Cobalt		4.2	6.1	6.4	4.2	4.3	3.4	4.3
Copper		19	24	27	3.0 J	4.4 J	32	7.6
Cyanide, Total		0.54 U	0.53 U	0.54 U	0.53 U	0.53 U	0.52 U	0.53 U
Iron		9200	14000	14000	7600	8100	7700	8300
Lead		42	29	27	5.8	7.1	29	10
Magnesium		11000	5800	6600	2800	3000	13000	3200
Manganese		330 J	400 J	470 J	130 J	140 J	180 J	150 J
Mercury		0.028	0.046	0.045	0.0042 J	0.0064 J	0.027	0.0062 J
Molybdenum		0.64 J	1.4	1.3	1.1 U	0.26 J	0.51 J	0.22 J
Nickel		14	16	16	11 J	16 J	12	12
Potassium		1500 J	1500 J	1500 J	570 J	700 J	1200 J	770 J
Selenium		0.99 U	0.97 U	0.98 U	1.1 U	1.1 U	1.0 U	1.1 U
Silver		0.99 U	0.97 U	0.98 U	1.1 U	1.1 U	1.0 U	1.1 U
Sodium		380 J	120 U	120 U	100 U	100 U	160 U	110 U
Thallium		0.99 U	0.97 U	0.98 U	1.1 U	1.1 U	1.0 U	1.1 U
Vanadium		20	27	27	11	13	15	13
Zinc		95	75	77	24	29	82	40

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T4-S5-0-0.5FT	UAS-T4-S5-3-6FT	UAS-T4-S6-0-0.5FT	UAS-T4-S6-3-6FT	UAS-T4-S7-0-0.5FT	UAS-T4-S7-3-6FT	UAS-T5-S1-0-0.5FT
	Sample Date	11/16/99	11/16/99	11/16/99	11/16/99	11/17/99	11/17/99	11/17/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		8800 J	6200 J	10000 J	8300 J	9900 J	8200 J	11000 J
Antimony		2.0 UJ	2.6 UJ	2.4 UJ	2.3 UJ	2.2 UJ	2.2 UJ	2.3 UJ
Arsenic		5.7	4.3	8.0	5.9	4.6	6.0	7.6
Barium		200	160	180	190	110	150	190
Beryllium		0.49	0.36 J	0.65	0.46 J	0.63	0.49	0.66
Cadmium		0.94	0.64 U	0.98	0.58 U	1.7	1.0	2.6
Calcium		150000 J	10000 J	25000 J	16000 J	80000 J	25000 J	4800 J
Chromium		22	11	16	13	18	15	16
Cobalt		4.8	4.9	6.8	5.3	5.3	5.8	6.9
Copper		48	6.3	39	9.5	60	30	53
Cyanide, Total		0.54 U	0.64 U	0.60 U	0.64 U	0.56 U	0.56 U	0.57 U
Iron		12000	11000	19000	13000	17000	16000	16000
Lead		83	6.8	130	7.9	260	130	59
Magnesium		21000	5600	6800	6400	5400	9000	3800
Manganese		400 J	240 J	400 J	240 J	440 J	350 J	390 J
Mercury		0.096	0.0080 J	0.57	0.013 J	0.087	0.039	0.060
Molybdenum		2.3	0.37 J	1.0 J	0.17 J	1.1 J	0.76 J	0.42 J
Nickel		17	13	19	14	17	18	19
Potassium		1800 J	1300 J	2100 J	1600 J	1800 J	1600 J	2000 J
Selenium		0.99 U	1.3 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Silver		0.99 U	1.3 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Sodium		220 U	150 U	160 U	170 U	200 U	190 U	130 U
Thallium		0.99 U	1.3 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Vanadium		26	20	29	25	26	25	29
Zinc		120	35	140	39	550	190	230

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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FXP File: D:\ ABLEPRS.FXP

Number 10040 25501

O'BRIEN & GERE
ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T5-S1-3-6FT	UAS-T5-S2-0-0 5FT	UAS-T5-S2-3-6FT	UAS-T5-S3-0-0 5FT	UAS-T5-S3-3-6FT	UAS-T5-S4-0-0 5FT	UAS-T5-S4-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		8700 J	11000 J	6500 J	8700 J	9600 J	9600 J	5300 J
Antimony		2.0 U	2.0 UJ	2.3 U	2.2 UJ	2.5 U	0.63 J	1.9 UJ
Arsenic		6.1	6.8	4.9	6.0	6.4	6.5	3.5
Barium		190	190	200	170	210	170	93
Beryllium		0.52	0.61	0.38 J	0.52	0.56	0.58	0.29 J
Cadmium		0.33 J	2.4	0.16 J	2.5	0.26 J	2.4	0.084 J
Calcium		15000 J	4200 J	19000 J	3800 J	17000 J	4100 J	3500 J
Chromium		15	16	11	14	15	15	12
Cobalt		6.0	6.3	4.8	5.4	6.1	6.2	3.9
Copper		15	42	6.7	44	16	38	5.8
Cyanide, Total		0.56 U	0.56 U	0.58 U	0.54 U	0.62 U	0.56 U	0.52 U
Iron		14000	15000	11000	13000	15000	15000	8500
Lead		11	50	6.6	54	11	50	6.3
Magnesium		6500	3600	6200	3000	7400	3400	2600
Manganese		320	370 J	260	280 J	310	350	140 J
Mercury		0.024	0.054	0.011 J	0.049	0.030	0.056	0.086
Molybdenum		0.25 J	0.27 J	1.1 U	0.46 J	0.23 J	0.22 J	0.22 J
Nickel		16	17	12	15	16	17	12
Potassium		1600 J	2400 J	1400 J	1700 J	1800 J	1800 J	950 J
Selenium		1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	0.48 J	0.95 U
Silver		1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.95 U
Sodium		130 U	100 U	130 U	120 U	140 U	78 U	88 U
Thallium		1.1 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.95 U
Vanadium		26	29	20	25	26	26	16
Zinc		56	230	35	240	55	230	31

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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DBF File D:\25501\TEMPDATA.DBF
FXP File D:\25501\TABLEPRS.FXP
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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T5-S5-0-0.5FT	UAS-T5-S5-0-0 5FTEB	UAS-T5-S5-3-6FT	UAS-T5-S5-3-6FTEB	UAS-T5-S6-0-0.5FT	UAS-T5-S6-0-0.5FTFD	UAS-T5-S6-3-6FT
	Sample Date	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99	11/17/99
	Units	mg/kg dw	mg/l	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		9800 J	0.053 J	4800 J	0.029 J	7500 J	7800 J	5500 J
Antimony		0.62 J	0.020 U	1.9 U	0.020 U	0.61 J	1.2 J	2.2 U
Arsenic		6.4	0.010 U	4.1	0.010 U	6.9	7.2	4.9
Barium		180	0.010 U	130	0.010 U	170	180	160
Beryllium		0.54	0.0040 U	0.28 J	0.0040 U	0.53	0.56	0.34 J
Cadmium		2.3	0.0050 U	0.13 J	0.0050 U	8.3	8.5	0.18 J
Calcium		10000 J	0.28 J	10000 J	0.12 J	20000 J	21000 J	12000 J
Chromium		16	0.010 U	20	0.010 U	18	19	10
Cobalt		6.2	0.010 U	4.4	0.010 U	5.5	5.8	5.0
Copper		41	0.020 U	5.7	0.020 U	82	87	6.9
Cyanide, Total		0.52 U	0.010 U	0.52 U	0.010 U	0.59 U	0.60 U	0.55 U
Iron		15000	0.050 U	9000	0.050 U	13000	14000	10000
Lead		45	0.0050 U	6.2	0.0050 U	170	170	7.1
Magnesium		5000	0.50 U	4100	0.50 U	4300	4600	5300
Manganese		370	0.010 U	180	0.010 U	330	330	220
Mercury		0.063	0.00020 U	0.010 J	0.00020 U	0.11	0.12	0.014 J
Molybdenum		0.37 J	0.010 U	0.17 J	0.010 U	0.56 J	0.80 J	1.1 U
Nickel		18	0.040 U	17	0.040 U	16	17	13
Potassium		1700 J	1.0 U	950 J	1.0 U	1500 J	1500 J	1100 J
Selenium		1.0 U	0.010 U	1.0 U	0.010 U	1.2 U	1.2 U	1.1 U
Silver		1.0 U	0.010 U	1.0 U	0.010 U	0.54 J	0.55 J	1.1 U
Sodium		120 U	0.62	89 U	0.40 J	160 U	170 U	130 U
Thallium		1.0 U	0.010 U	1.0 U	0.010 U	1.2 U	1.2 U	1.1 U
Vanadium		28	0.010 U	16	0.010 U	26	27	18
Zinc		240	0.020 U	32	0.020 U	980	980	37

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T5-S6-3-6FTFD	UAS-T6-S1-0-0.5FT	UAS-T6-S1-3-6FT	UAS-T6-S2-0-0.5FT	UAS-T6-S2-3-6FT	UAS-T6-S3-0-0.5FT	UAS-T6-S3-0-0.5FTEB
	Sample Date	11/17/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l
Compound								
Aluminum		6100 J	8700	9000 J	7500	6600	9700	0.20 U
Antimony		2.2 U	0.74 J	2.4 U	2.1 U	2.1 U	0.77 J	0.020 U
Arsenic		5.0	6.1	6.1	4.0	5.5	5.4	0.010 U
Barium		180	190	220	89	180	130	0.010 U
Beryllium		0.37 J	0.55 J	0.50 J	0.34 UJ	0.43 J	0.49 J	0.00070 J
Cadmium		0.20 J	1.6	0.23 J	0.81	0.73	0.85	0.0050 U
Calcium		13000 J	10000 J	18000 J	140000 J	17000 J	48000 J	0.29 J
Chromium		11	14	15	13	12	15	0.010 U
Cobalt		5.1	6.3	5.8	4.0	5.1	5.8	0.010 U
Copper		7.3	31	12	19	14	18	0.020 U
Cyanide, Total		0.56 U	0.59 U	0.59 U	0.57 U	0.59 U	0.55 U	0.010 U
Iron		11000	14000	14000	10000	12000	14000	0.050 U
Lead		7.4	39 J	8.3 J	35 J	25 J	29 J	0.0021 J
Magnesium		5500	5100	6900	18000	6000	10000	0.50 U
Manganese		230	360	350	310	270	400	0.010 U
Mercury		0.012 J	0.086	0.025	0.043	0.045	0.039	0.00020 U
Molybdenum		0.16 J	0.43 J	0.48 J	0.40 J	0.27 J	0.28 J	0.010 U
Nickel		13	17	16	13	14	16	0.040 U
Potassium		1300 J	2400 J	2000 J	1600 J	1200 J	2000 J	1.0 U
Selenium		1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.0 U	0.010 U
Silver		1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.0 U	0.010 U
Sodium		120 U	100 U	130 U	210 U	130 U	120 U	0.44 J
Thallium		1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1.0 U	0.010 U
Vanadium		20	25	26	24	21	30	0.010 U
Zinc		38	160 J	45 J	82 J	89 J	90 J	0.0067 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T6-S4-0-0.5FT	UAS-T6-S4-3-6FT	UAS-T6-S5-0-0.5FT	UAS-T6-S5-3-6FT	UAS-T7-S1-0-0.5FT
	Sample Date	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/18/99	11/19/99
	Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		8200	0.20 U	9100	9600	9000	12000	10000
Antimony		2.4 U	0.020 U	2.0 U	1.1 J	0.65 J	2.6	2.2 UJ
Arsenic		7.8	0.010 U	5.3	5.9	9.2	6.5	34
Barium		200	0.010 U	130	190	190	180	200
Beryllium		0.52 J	0.00069 J	0.49 J	0.63 J	0.86 J	0.58 J	0.70 U
Cadmium		0.96	0.0050 U	0.94	0.65	0.92	0.66	5.4
Calcium		34000 J	0.17 J	79000 J	26000 J	55000 J	64000 J	26000 J
Chromium		17	0.010 U	15	21	18	19	17
Cobalt		7.9	0.010 U	5.9	8.6	9.2	6.6	6.8
Copper		35	0.020 U	21	22	29	34	130
Cyanide, Total		0.59 U	0.010 U	0.54 U	0.57 U	0.57 U	0.64 U	0.62 U
Iron		15000	0.050 U	14000	18000	19000	16000	15000 J
Lead		240 J	0.0050 U	36 J	160 J	78 J	130 J	71 J
Magnesium		5700	0.50 U	9900	4800	4900	5600	5400
Manganese		400	0.010 U	380	360	660	390	330
Mercury		0.19	0.00020 U	0.044	0.056	0.077	0.051	0.14
Molybdenum		1.0 J	0.010 U	0.62 J	1.1	3.2	0.73 J	0.69 J
Nickel		19	0.040 U	17	24	23	19	55
Potassium		1400 J	1.0 U	1700 J	1300 J	1300 J	1600 J	2300 J
Selenium		1.1 U	0.010 U	1.1 U	1.0 U	0.68 J	1.2 U	1.1
Silver		1.1 U	0.010 U	1.1 U	1.0 U	1.1 U	1.2 U	0.37 J
Sodium		230 U	0.43 J	160 U	190 U	150 U	230 U	130 U
Thallium		1.1 U	0.010 U	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U
Vanadium		25	0.010 U	33	29	30	33	27
Zinc		160 J	0.020 U	99 J	130 J	120 J	98 J	610

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T7-S1-3-6FT	UAS-T7-S2-0-0.5FT	UAS-T7-S2-3-6FT	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		22000	8200	8500	11000	13000	7500 J	5500 J
Antimony		5.6 UJ	0.63 UJ	2.0 UJ	2.1 UJ	2.3 UJ	2.1 UJ	2.0 UJ
Arsenic		11	6.7	5.7	7.6	8.1	5.4 J	4.1 J
Barium		290	180	200	190	200	200 J	160 J
Beryllium		1.2 J	0.66 U	0.63 U	0.81 J	0.84 J	0.56 U	0.45 U
Cadmium		5.4	1.8	0.33 J	2.6	2.8	0.33 J	0.20 J
Calcium		9600 J	11000 J	17000 J	5900 J	6000 J	15000 J	13000 J
Chromium		50	13	14	17	18	80 J	9.8 J
Cobalt		11	6.5	6.1	7.7	7.9	6.4 J	5.0 J
Copper		33	26	14	33	36	12 J	7.1 J
Cyanide, Total		0.69 U	0.54 U	0.60 U	0.57 U	0.57 U	0.57 U	0.56 U
Iron		26000 J	14000 J	13000 J	17000 J	18000 J	13000 J	10000 J
Lead		37 J	41 J	9.2 J	60 J	67 J	11 J	7.2 J
Magnesium		7100	6100	6800	4200	4400	6600	5400
Manganese		260	320	260	430	440	290 J	200 J
Mercury		0.29	0.052	0.022	0.077	0.084	0.021 J	0.016 J
Molybdenum		0.74 J	0.84 J	0.47 J	0.94 J	1.0 J	0.79 J	0.78 J
Nickel		42	17	16	20	21	55 J	12 J
Potassium		4000 J	2400 J	1700 J	2600 J	3100 J	1600 J	1100 J
Selenium		2.8 U	0.49 J	1.0 U	0.89 J	1.1 U	1.0 U	1.0 U
Silver		1.4 U	1.1 U	1.0 U	0.21 J	1.1 U	1.0 U	1.0 U
Sodium		200 U	120 U	170 U	100 U	110 U	170 U	150 U
Thallium		1.4 U	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U
Vanadium		50	25	24	31	34	23 J	17 J
Zinc		1800	190	46	250	280	51 J	36 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T7-S4-0-0.5FT	UAS-T7-S4-3-6FT	UAS-T7-S5-0-0.5FT	UAS-T7-S5-3-6FT	UAS-T7-S6-0-0.5FT	UAS-T7-S6-0-0.5FTEB	UAS-T7-S6-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l	mg/kg dw
Compound								
Aluminum		7200	6100	7500	7200	7000	0.20 U	9400
Antimony		2.0 UJ	2.0 UJ	2.2 UJ	2.3 UJ	1.9 UJ	0.020 U	0.56 J
Arsenic		6.2	4.5	6.6	5.1	6.5	0.010 U	6.1
Barium		150	180	130	190	160	0.013	170
Beryllium		0.57 U	0.48 U	0.57 U	0.56 U	0.59 U	0.00086 J	0.71 U
Cadmium		1.5	0.38 J	1.5	0.28 J	3.3	0.0050 U	0.72
Calcium		6700 J	14000 J	19000 J	14000	7300 J	24	6000 J
Chromium		12	11	14	13	13	0.010 U	15
Cobalt		6.0	5.1	6.6	5.8	6.2	0.010 U	7.0
Copper		21	8.1	24	9.8	32	0.0027 J	16
Cyanide, Total		0.54 U	0.56 U	0.54 U	0.57 U	0.53 U	0.010 U	0.56 U
Iron		13000 J	11000	14000	12000 J	13000 J	0.050 U	15000 J
Lead		36 J	10 J	42 J	9.0 J	72 J	0.0050 U	25 J
Magnesium		4200	6400	11000	6500	4000	8.1	4300
Manganese		270	220	420	270	280	0.010 U	300
Mercury		0.045	0.015 J	0.044	0.017 J	0.089	0.00020 U	0.039
Molybdenum		0.65 J	0.45 J	0.65 J	0.66 UJ	0.68 UJ	0.010 U	0.84 UJ
Nickel		15	13	16	15	16	0.040 U	18
Potassium		1800 J	1300 J	1600 J	1600	1700	2.5	1800
Selenium		0.55 J	1.0 U	1.1 U	1.1 U	1.1	0.010 U	1.1 U
Silver		0.98 U	1.0 U	1.1 U	1.1 U	0.27 J	0.010 U	1.1 U
Sodium		110 U	160 U	120 U	150	110 U	13	120 U
Thallium		0.98 U	1.0 U	1.1 U	1.1 U	0.97 U	0.010 U	1.1 U
Vanadium		22	19	26	22	22	0.010 U	27
Zinc		150	49	160	43	310	0.0059 J	93

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-3f
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	UAS-T7-S6-3-6FTEB	UAS-T7-S7-0-0.5FT	UAS-T7-S7-3-6FT
	Sample Date	11/19/99	11/19/99	11/19/99
	Units	mg/l	mg/kg dw	mg/kg dw
Compound				
Aluminum		0.20 U	6900	6000
Antimony		0.020 U	0.73 J	2.2 UJ
Arsenic		0.010 U	7.7	4.7
Barium		0.010 U	150	180
Beryllium		0.00090 J	0.75 U	0.53 U
Cadmium		0.0050 U	6.1	0.40 J
Calcium		0.18 J	8900 J	12000 J
Chromium		0.010 U	15	11
Cobalt		0.010 U	6.2	5.3
Copper		0.020 U	57	9.8
Cyanide, Total		0.010 U	0.56 U	0.56 U
Iron		0.050 U	17000 J	11000 J
Lead		0.0050 U	150 J	15 J
Magnesium		0.50 U	2800	5500
Manganese		0.010 U	280	230
Mercury		0.00020 U	0.16	0.023
Molybdenum		0.010 U	1.8 J	0.78 UJ
Nickel		0.040 U	17	13
Potassium		1.0 U	2000	1400
Selenium		0.010 U	0.53 J	1.1 U
Silver		0.010 U	0.44 J	1.1 U
Sodium		0.38 J	110 U	170 U
Thallium		0.010 U	1.1 U	1.1 U
Vanadium		0.010 U	21	19
Zinc		0.020 U	640	60

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-3g

Soil – PCDD/PCDF Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	BS-EE-04-0-0.5FT	BS-EE-04-0-0.5FTFD	BS-EE-04-3-6FT	BS-EE-20-0-0.5FT	BS-EE-20-3-6FT	BS-EEG-108-0-0.5FT	BS-EEG-108-0-0.5FTEB
	Sample Date	01/26/00	01/26/00	01/26/00	01/24/00	01/24/00	01/27/00	01/27/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		3.6 J	1.7 J	0.06 UJ	102	0.08 J	1.1	0.0003 U
1,2,3,4,6,7,8,9-OCDF		0.58 J	0.33 J	0.05 UJ	22.4	0.03 UJ	0.11	0.0003 U
1,2,3,4,6,7,8-HpCDD		0.19 J	0.12 J	0.04 UJ	6.4	0.02 UJ	0.07	0.0002 U
1,2,3,4,6,7,8-HpCDF		0.11 J	0.1 J	0.03 UJ	3.2	0.01 UJ	0.04	0.0002 U
1,2,3,4,7,8,9-HpCDF		0.02 UJ	0.02 UJ	0.03 UJ	0.02 U	0.01 UJ	0.01 U	0.0002 U
1,2,3,4,7,8-HxCDD		0.02 UJ	0.02 UJ	0.03 UJ	0.04	0.01 UJ	0.01 U	0.0001 U
1,2,3,4,7,8-HxCDF		0.01 UJ	0.01 UJ	0.02 UJ	0.14	0.01 UJ	0.01 U	0.0001 U
1,2,3,6,7,8-HxCDD		0.03 UJ	0.03 UJ	0.04 UJ	0.23	0.02 UJ	0.02 U	0.0002 U
1,2,3,6,7,8-HxCDF		0.02 UJ	0.02 UJ	0.02 UJ	0.06 M	0.01 UJ	0.01 U	0.0001 U
1,2,3,7,8,9-HxCDD		0.04 UJ	0.03 UJ	0.05 UJ	0.15	0.02 UJ	0.02 U	0.0003 U
1,2,3,7,8,9-HxCDF		0.02 UJ	0.02 UJ	0.02 UJ	0.02 U	0.01 UJ	0.01 U	0.0002 U
1,2,3,7,8-PeCDD		0.04 UJ	0.04 UJ	0.05 UJ	0.03 U	0.03 UJ	0.03 U	0.0003 U
1,2,3,7,8-PeCDF		0.02 UJ	0.02 UJ	0.03 UJ	0.02 U	0.01 UJ	0.01 U	0.0002 U
2,3,4,6,7,8-HxCDF		0.02 UJ	0.02 UJ	0.02 UJ	0.08	0.01 UJ	0.01 U	0.0001 U
2,3,4,7,8-PeCDF		0.03 UJ	0.02 UJ	0.03 UJ	0.02 U	0.02 UJ	0.02 U	0.0002 U
2,3,7,8-TCDD		0.02 UJ	0.02 UJ	0.03 UJ	0.02 U	0.01 UJ	0.01 U	0.0002 U
2,3,7,8-TCDF		0.02 UJ	0.02 UJ	0.02 UJ	0.01 U	0.01 UJ	0.01 U	0.0001 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	BS-EEG-108-3-6FT	DAS-T1-S1-0-0.5FT	DAS-T1-S1-0-0.5FTFD	DAS-T1-S2-0-0.5FT	DAS-T1-S3-0-0.5FT	DAS-T1-S3-3-6FT	DAS-T2-S1-0-0.5FT
	Sample Date	01/27/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		1.3	14.7 J	7.8 J	5.6 J	5.2 J	0.44 JM	9 J
1,2,3,4,6,7,8,9-OCDF		0.21	1.4 J	0.81 J	0.39 J	0.31 J	0.1 J	1.4 J
1,2,3,4,6,7,8-HpCDD		0.1	1.2	0.61	0.36	0.35	0.05 UJ	0.63
1,2,3,4,6,7,8-HpCDF		0.04	0.35	0.21	0.12	0.1	0.04 UJ	0.26
1,2,3,4,7,8,9-HpCDF		0.02 U	0.04 U	0.03 U	0.03 U	0.03 U	0.04 UJ	0.04 U
1,2,3,4,7,8-HxCDD		0.02 U	0.04 U	0.03 U	0.04 U	0.03 U	0.03 UJ	0.04 U
1,2,3,4,7,8-HxCDF		0.02 U	0.03 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.03 UJ	0.02 UJ
1,2,3,6,7,8-HxCDD		0.02 U	0.06 U	0.05 U	0.06 U	0.05 U	0.06 UJ	0.06 U
1,2,3,6,7,8-HxCDF		0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 UJ	0.03 U
1,2,3,7,8,9-HxCDD		0.03 U	0.08 U	0.06 U	0.07 U	0.06 U	0.07 UJ	0.08 U
1,2,3,7,8,9-HxCDF		0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 UJ	0.03 U
1,2,3,7,8-PeCDD		0.04 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2,3,7,8-PeCDF		0.02 U	0.05 U	0.04 U	0.04 U	0.04 U	0.05 U	0.05 U
2,3,4,6,7,8-HxCDF		0.02 U	0.03 U	0.02 U	0.03 U	0.02 U	0.03 UJ	0.03 U
2,3,4,7,8-PeCDF		0.02 U	0.06 U	0.05 U	0.05 U	0.04 U	0.06 U	0.06 U
2,3,7,8-TCDD		0.02 U	0.07 U	0.05 U	0.06 U	0.05 U	0.05 U	0.07 U
2,3,7,8-TCDF		0.02 U	0.04 U	0.04 U	0.04 U	0.03 U	0.04 U	0.04 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	DAS-T2-S2-0-0.5FT	DAS-T2-S3-0-0.5FT	DAS-T2-S3-3-6FT	DAS-T2-S3-3-6FTFD	DAS-T3-S1-0-0.5FT	DAS-T3-S2-0-0.5FT	DAS-T3-S3-0-0.5FT
	Sample Date	04/18/00	04/18/00	04/18/00	04/18/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		2.7 JM	1.7 JM	0.25 JM	0.44 JM	2.4	3.7	3.4
1,2,3,4,6,7,8,9-OCDF		0.1 J	0.16 J	0.05 UJ	0.08 J	0.18	0.16	0.2
1,2,3,4,6,7,8-HpCDD		0.24	0.18 J	0.04 U	0.05 U	0.16	0.19	0.25
1,2,3,4,6,7,8-HpCDF		0.03 U	0.04 UJ	0.03 U	0.03 U	0.08	0.08	0.08
1,2,3,4,7,8,9-HpCDF		0.03 U	0.04 UJ	0.03 U	0.03 U	0.02 U	0.03 U	0.02 U
1,2,3,4,7,8-HxCDD		0.03 U	0.05 UJ	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U
1,2,3,4,7,8-HxCDF		0.02 UJ	0.03 UJ	0.02 UJ	0.02 UJ	0.02 U	0.02 U	0.01 U
1,2,3,6,7,8-HxCDD		0.05 U	0.08 UJ	0.04 U	0.05 U	0.02 U	0.02 U	0.02 U
1,2,3,6,7,8-HxCDF		0.03 U	0.04 UJ	0.02 U	0.03 U	0.02 U	0.03 U	0.02 U
1,2,3,7,8,9-HxCDD		0.06 U	0.1 UJ	0.06 U	0.06 U	0.02 U	0.02 U	0.02 U
1,2,3,7,8,9-HxCDF		0.03 U	0.04 UJ	0.02 U	0.03 U	0.02 U	0.02 U	0.01 U
1,2,3,7,8-PeCDD		0.1 U	0.1 U	0.09 U	0.08 U	0.04 U	0.03 U	0.04 U
1,2,3,7,8-PeCDF		0.04 U	0.06 U	0.04 U	0.04 U	0.02 U	0.02 U	0.02 U
2,3,4,6,7,8-HxCDF		0.03 U	0.04 UJ	0.02 U	0.03 U	0.02 U	0.03 U	0.01 U
2,3,4,7,8-PeCDF		0.05 U	0.07 U	0.05 U	0.05 U	0.02 U	0.02 U	0.02 U
2,3,7,8-TCDD		0.06 U	0.07 U	0.05 U	0.04 U	0.02 U	0.02 U	0.02 U
2,3,7,8-TCDF		0.04 U	0.05 U	0.03 U	0.03 U	0.02 U	0.02 U	0.01 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	DAS-T4-S1-0-0.5FT	DAS-T4-S1-0-0.5FTFD	DAS-T4-S2-0-0.5FT	DAS-T4-S3-0-0.5FT	DAS-T5-S1-0-0.5FT	DAS-T5-S2-0-0.5FT	DAS-T5-S2-3-6FT
	Sample Date	04/19/00	04/19/00	04/20/00	04/20/00	04/19/00	04/19/00	04/19/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		2.7 J	4.1 J	2.4	8.3	2.9	1.7	0.1 M
1,2,3,4,6,7,8,9-OCDF		0.29 J	0.31 J	0.18	0.16	0.16	0.13	0.04 U
1,2,3,4,6,7,8-HpCDD		0.24 J	0.38 J	0.17	0.28	0.17	0.09	0.03 U
1,2,3,4,6,7,8-HpCDF		0.05 UJ	0.16 J	0.08	0.07	0.05	0.04	0.02 U
1,2,3,4,7,8,9-HpCDF		0.06 UJ	0.07 UJ	0.01 U	0.01 U	0.01 U	0.02 U	0.03 U
1,2,3,4,7,8-HxCDD		0.04 UJ	0.06 UJ	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U
1,2,3,4,7,8-HxCDF		0.03 UJ	0.04 UJ	0.01 U	0.008 U	0.01 U	0.01 U	0.02 U
1,2,3,6,7,8-HxCDD		0.05 UJ	0.07 UJ	0.02 U	0.01 U	0.01 U	0.02 U	0.02 U
1,2,3,6,7,8-HxCDF		0.04 UJ	0.05 UJ	0.01 U	0.009 U	0.01 U	0.01 U	0.02 U
1,2,3,7,8,9-HxCDD		0.05 UJ	0.07 UJ	0.02 U	0.01 U	0.01 U	0.02 U	0.02 U
1,2,3,7,8,9-HxCDF		0.04 UJ	0.05 UJ	0.01 U	0.008 U	0.01 U	0.01 U	0.02 U
1,2,3,7,8-PeCDD		0.1 UJ	0.1 UJ	0.03 U	0.02 U	0.03 U	0.03 U	0.06 U
1,2,3,7,8-PeCDF		0.05 UJ	0.05 UJ	0.01 U	0.01 U	0.01 U	0.02 U	0.03 U
2,3,4,6,7,8-HxCDF		0.04 UJ	0.04 UJ	0.01 U	0.009 U	0.01 U	0.01 U	0.02 U
2,3,4,7,8-PeCDF		0.06 UJ	0.06 UJ	0.01 U	0.01 U	0.01 U	0.02 U	0.03 U
2,3,7,8-TCDD		0.05 UJ	0.05 UJ	0.01 U	0.01 U	0.02 U	0.02 U	0.03 U
2,3,7,8-TCDF		0.04 UJ	0.04 UJ	0.01 U	0.008 U	0.01 U	0.01 U	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	DAS-T5-S3-0-0.5FT	DAS-T6-S1-0-0.5FT	DAS-T6-S1-3-6FT	DAS-T6-S2-0-0.5FT	DAS-T6-S3-0-0.5FT	DAS-T7-S1-0-0.5FT	DAS-T7-S2-0-0.5FT
	Sample Date	04/19/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		10.9	5.5	0.19 M	3	4.9	0.82	5
1,2,3,4,6,7,8,9-OCDF		1.3	0.56	0.02 U	0.13	0.22	0.03 U	0.25
1,2,3,4,6,7,8-HpCDD		1.1	0.36	0.01 U	0.1	0.3	0.08	0.36
1,2,3,4,6,7,8-HpCDF		0.46	0.19	0.01 U	0.04	0.09	0.01 U	0.11
1,2,3,4,7,8,9-HpCDF		0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3,4,7,8-HxCDD		0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3,4,7,8-HxCDF		0.01 U	0.01 U	0.007 U	0.008 U	0.008 U	0.01 U	0.01 U
1,2,3,6,7,8-HxCDD		0.05	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
1,2,3,6,7,8-HxCDF		0.01 U	0.01 U	0.008 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3,7,8,9-HxCDD		0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
1,2,3,7,8,9-HxCDF		0.01 U	0.01 U	0.008 U	0.008 U	0.008 U	0.01 U	0.01 U
1,2,3,7,8-PeCDD		0.04 U	0.03 U	0.02 U	0.02 U	0.02 U	0.03 U	0.03 U
1,2,3,7,8-PeCDF		0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,3,4,6,7,8-HxCDF		0.01 U	0.01 U	0.008 U	0.009 U	0.009 U	0.01 U	0.01 U
2,3,4,7,8-PeCDF		0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,3,7,8-TCDD		0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
2,3,7,8-TCDF		0.01 U	0.009 U	0.01 U	0.01 U	0.008 U	0.01 U	0.01 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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FXP File: D:\ ABLEPRS.FXP

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	UAS-T1-S1-0-0.5FT	UAS-T1-S1-3-6FT	UAS-T1-S6-0-0.5FT	UAS-T1-S6-3-6FT	UAS-T1-S7-0-0.5FTEB	UAS-T1-S7-3-6FTEB	UAS-T2-S4-0-0.5FT
	Sample Date	11/10/99	11/10/99	11/11/99	11/11/99	11/11/99	11/11/99	11/12/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/l	ug/l	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		3.8	0.4 U	2.7 UJ	0.2 UJ	0.0037	0.0006 U	6.4
1,2,3,4,6,7,8,9-OCDF		1.8	0.4 U	0.21 J	0.2 UJ	0.00087 M	0.0005 U	1
1,2,3,4,6,7,8-HpCDD		0.28	0.1 U	0.18 J	0.1 UJ	0.0004 U	0.0004 U	0.49
1,2,3,4,6,7,8-HpCDF		0.17	0.08 U	0.05 UJ	0.09 UJ	0.0003 U	0.0005 U	0.31
1,2,3,4,7,8,9-HpCDF		0.06 U	0.08 U	0.06 UJ	0.1 UJ	0.0003 U	0.0005 U	0.06 U
1,2,3,4,7,8-HxCDD		0.06 U	0.08 U	0.04 UJ	0.07 UJ	0.0003 U	0.0003 U	0.04 U
1,2,3,4,7,8-HxCDF		0.04 U	0.06 U	0.04 UJ	0.08 UJ	0.0002 U	0.0004 U	0.04 U
1,2,3,6,7,8-HxCDD		0.06 U	0.08 U	0.05 UJ	0.1 UJ	0.0003 U	0.0003 U	0.05 U
1,2,3,6,7,8-HxCDF		0.04 U	0.06 U	0.05 UJ	0.09 UJ	0.0002 U	0.0004 U	0.04 U
1,2,3,7,8,9-HxCDD		0.06 U	0.07 U	0.08 UJ	0.1 UJ	0.0003 U	0.0003 U	0.04 U
1,2,3,7,8,9-HxCDF		0.04 U	0.06 U	0.05 UJ	0.1 UJ	0.0002 U	0.0004 U	0.05 U
1,2,3,7,8-PeCDD		0.05 U	0.07 U	0.07 UJ	0.2 UJ	0.0002 U	0.0002 U	0.04 U
1,2,3,7,8-PeCDF		0.03 U	0.06 U	0.04 UJ	0.09 UJ	0.0001 U	0.0002 U	0.03 U
2,3,4,6,7,8-HxCDF		0.05 U	0.06 U	0.05 UJ	0.09 UJ	0.0003 U	0.0004 U	0.05 U
2,3,4,7,8-PeCDF		0.03 U	0.06 U	0.05 UJ	0.1 UJ	0.0001 U	0.0002 U	0.03 U
2,3,7,8-TCDD		0.03 U	0.04 U	0.04 UJ	0.08 UJ	0.0001 U	0.0001 U	0.02 U
2,3,7,8-TCDF		0.02 U	0.04 U	0.04 UJ	0.07 UJ	0.0001 U	0.0001 U	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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FXP File: D:\25501\TABLEPRS.FXP

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	UAS-T2-S4-3-6FT	UAS-T3-S3-0-0.5FT	UAS-T3-S3-0-0.5FTFD	UAS-T3-S3-3-6FT	UAS-T3-S3-3-6FTFD	UAS-T3-S5-0-0.5FTEB	UAS-T3-S7-3-6FTEB
	Sample Date	11/12/99	11/15/99	11/15/99	11/15/99	11/15/99	11/16/99	11/16/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.29 J	2	1.8 J	0.06 M	0.08 M	0.000011	0.0000118 M
1,2,3,4,6,7,8,9-OCDF		0.09 UJ	0.14	0.18 J	0.01 U	0.008 U	0.0000036 U	0.0000035 U
1,2,3,4,6,7,8-HpCDD		0.06 UJ	0.17	0.2 J	0.01 U	0.01 U	0.0000026 U	0.0000024 U
1,2,3,4,6,7,8-HpCDF		0.05 UJ	0.08	0.08 J	0.01 U	0.006 U	0.0000015 U	0.0000015 U
1,2,3,4,7,8,9-HpCDF		0.05 UJ	0.01 U	0.006 UJ	0.01 U	0.007 U	0.0000022 U	0.0000021 U
1,2,3,4,7,8-HxCDD		0.05 UJ	0.01 U	0.006 UJ	0.01 U	0.007 U	0.0000017 U	0.0000016 U
1,2,3,4,7,8-HxCDF		0.04 UJ	0.007 U	0.004 UJ	0.008 U	0.005 U	0.000001 U	0.000001 U
1,2,3,6,7,8-HxCDD		0.05 UJ	0.01 U	0.008 UJ	0.01 U	0.01 U	0.0000016 U	0.0000015 U
1,2,3,6,7,8-HxCDF		0.04 UJ	0.008 U	0.005 UJ	0.01 U	0.006 U	0.000001 U	0.0000009 U
1,2,3,7,8,9-HxCDD		0.05 UJ	0.02 U	0.01 UJ	0.02 U	0.01 U	0.0000017 U	0.0000016 U
1,2,3,7,8,9-HxCDF		0.04 UJ	0.008 U	0.005 UJ	0.009 U	0.006 U	0.0000012 U	0.0000012 U
1,2,3,7,8-PeCDD		0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.0000017 U	0.0000016 U
1,2,3,7,8-PeCDF		0.02 U	0.01 U	0.007 U	0.01 U	0.008 U	0.0000013 U	0.0000012 U
2,3,4,6,7,8-HxCDF		0.04 UJ	0.008 U	0.005 UJ	0.009 U	0.006 U	0.0000011 U	0.000001 U
2,3,4,7,8-PeCDF		0.02 U	0.01 U	0.008 U	0.01 U	0.01 U	0.0000014 U	0.0000012 M
2,3,7,8-TCDD		0.02	0.01 U	0.008 U	0.01 U	0.008 U	0.0000019 U	0.0000017 U
2,3,7,8-TCDF		0.02 U	0.01 U	0.006 U	0.01 U	0.007 U	0.0000014 U	0.0000012 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	UAS-T4-S1-0-0.5FT	UAS-T4-S1-3-6FT	UAS-T4-S6-0-0.5FT	UAS-T4-S6-3-6FT	UAS-T5-S4-0-0.5FT	UAS-T5-S4-3-6FT	UAS-T6-S3-0-0.5FT
	Sample Date	11/16/99	11/17/99	11/16/99	11/16/99	11/17/99	11/17/99	11/18/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		6.1	0.2 U	7	0.06 M	3.3	0.3	10.1
1,2,3,4,6,7,8,9-OCDF		0.35	0.1 U	0.23	0.3 U	0.4	0.05	3.2
1,2,3,4,6,7,8-HpCDD		0.26	0.09 U	0.42	0.03 U	0.23	0.01 U	0.78
1,2,3,4,6,7,8-HpCDF		0.14	0.08 U	0.5 U	0.02 U	0.1	0.01 U	0.41
1,2,3,4,7,8,9-HpCDF		0.01 U	0.09 U	0.6 U	0.02 U	0.008 U	0.01 U	0.01 U
1,2,3,4,7,8-HxCDD		0.01 U	0.07 U	0.6 U	0.02 U	0.006 U	0.008 U	0.01 U
1,2,3,4,7,8-HxCDF		0.01 U	0.07 U	0.4 U	0.02 U	0.006 U	0.008 U	0.008 U
1,2,3,6,7,8-HxCDD		0.02 U	0.1 U	0.9 U	0.03 U	0.01 U	0.01 U	0.02 U
1,2,3,6,7,8-HxCDF		0.01 U	0.07 U	0.5 U	0.02 U	0.007 U	0.01 U	0.01 U
1,2,3,7,8,9-HxCDD		0.03 U	0.1 U	1.2 U	0.04 U	0.01 U	0.02 U	0.02 U
1,2,3,7,8,9-HxCDF		0.01 U	0.08 U	0.5 U	0.02 U	0.007 U	0.01 U	0.01 U
1,2,3,7,8-PeCDD		0.03 U	0.1 U	1.1 UJ	0.05 U	0.01 U	0.01 U	0.03 U
1,2,3,7,8-PeCDF		0.01 U	0.04 U	0.5 UJ	0.02 U	0.006 U	0.01 U	0.01 U
2,3,4,6,7,8-HxCDF		0.01 U	0.07 U	0.5 U	0.02 U	0.007 U	0.009 U	0.009 U
2,3,4,7,8-PeCDF		0.02 U	0.06 U	0.5 UJ	0.03 U	0.007 U	0.01 U	0.01 U
2,3,7,8-TCDD		0.01 U	0.06 U	0.6 UJ	0.02 U	0.006 U	0.008 U	0.02 U
2,3,7,8-TCDF		0.01 U	0.04 U	0.4 UJ	0.02 U	0.006 U	0.009 U	0.01 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-3g
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Background Soil
Method 8280A/8290 PCDD/PCDF Data

	Sample ID	UAS-T6-S3-0-0.5FTEB	UAS-T6-S3-3-6FT	UAS-T6-S3-3-6FTEB	UAS-T7-S3-0-0.5FT	UAS-T7-S3-0-0.5FTFD	UAS-T7-S3-3-6FT	UAS-T7-S3-3-6FTFD
	Sample Date	11/18/99	11/18/99	11/18/99	11/19/99	11/19/99	11/19/99	11/19/99
	Units	ug/l	ug/kg	ug/l	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0002 U	2	0.0012 U	2.2	2.8	0.28	0.1 UJ
1,2,3,4,6,7,8,9-OCDF		0.0002 U	0.06	0.001 U	0.1 M	0.22	0.09 U	0.09 UJ
1,2,3,4,6,7,8-HpCDD		0.0001 U	0.13	0.0007 U	0.11	0.18	0.03 U	0.07 UJ
1,2,3,4,6,7,8-HpCDF		0.0001 U	0.01 U	0.0005 U	0.07 M	0.07	0.01 U	0.06 UJ
1,2,3,4,7,8,9-HpCDF		0.0001 U	0.02 U	0.0006 U	0.02 U	0.02 U	0.01 U	0.07 UJ
1,2,3,4,7,8-HxCDD		0.00009 U	0.02 U	0.0005 U	0.02 U	0.02 U	0.02 U	0.04 UJ
1,2,3,4,7,8-HxCDF		0.00009 U	0.01 U	0.0004 U	0.02 U	0.02 U	0.01 U	0.05 UJ
1,2,3,6,7,8-HxCDD		0.0001 U	0.02 U	0.0008 U	0.03 U	0.03 U	0.03 U	0.06 UJ
1,2,3,6,7,8-HxCDF		0.0001 U	0.01 U	0.0005 U	0.02 U	0.02 U	0.01 U	0.05 UJ
1,2,3,7,8,9-HxCDD		0.0002 U	0.03 U	0.001 U	0.04 U	0.04 U	0.04 U	0.09 UJ
1,2,3,7,8,9-HxCDF		0.0001 U	0.01 U	0.0005 U	0.02 U	0.02 U	0.01 U	0.06 UJ
1,2,3,7,8-PeCDD		0.0002 U	0.03 U	0.0008 U	0.03 U	0.03 U	0.03 U	0.09 UJ
1,2,3,7,8-PeCDF		0.00008 U	0.02 U	0.0005 U	0.01 U	0.02 U	0.01 U	0.05 UJ
2,3,4,6,7,8-HxCDF		0.0001 U	0.01 U	0.0005 U	0.02 U	0.02 U	0.01 U	0.05 UJ
2,3,4,7,8-PeCDF		0.00009 U	0.02 U	0.0006 U	0.02 U	0.02 U	0.01 U	0.06 UJ
2,3,7,8-TCDD		0.00009 U	0.02 U	0.0004 U	0.01 U	0.02 U	0.02 U	0.05 UJ
2,3,7,8-TCDF		0.00007 U	0.01 U	0.0005 U	0.01 U	0.01 U	0.009 U	0.05 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-4

Summary Tables of Validated Analytical Data and Field/Equipment Blanks Full Scan Sediments

APPENDIX C-4a

Full Scan Sediments
Volatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-4a
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
1,1,1-Trichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1,2,2-Tetrachloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1,2-Trichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1-Dichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,1-Dichloroethene	24 UJ	19 UJ	23 UJ	27 UJ	10 U	7.9 U	5 U
1,2-Dichloroethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
1,2-Dichloropropane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
2-Butanone (MEK)	130 UJ	100 UJ	130 UJ	140 UJ	57 U	43 U	25 U
2-Hexanone	130 UJ	100 UJ	130 UJ	140 UJ	57 U	43 U	25 U
4-Methyl-2-pentanone (MIBK)	130 UJ	100 UJ	130 UJ	140 UJ	57 U	43 U	25 U
Acetone	260 UJ	210 UJ	250 UJ	290 UJ	41 J	86 U	50 U
Benzene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	1.2 U
Bromodichloromethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Bromoform	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Bromomethane	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	9.8 U
Carbon disulfide	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Carbon tetrachloride	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Chlorobenzene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Chloroethane	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	10 U
Chloroform	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Chloromethane	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	10 U
Cis/Trans-1,2-Dichloroethene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Dibromochloromethane	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Ethylbenzene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Methylene chloride (Dichloromethane)	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	1.6 J
Styrene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Tetrachloroethene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Toluene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
Trichloroethene	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	2.7 U
Vinyl chloride	51 UJ	42 UJ	51 UJ	58 UJ	23 U	17 U	10 U
Xylenes, Total	26 UJ	21 UJ	25 UJ	29 UJ	11 U	8.6 U	5 U
cis-1,3-Dichloropropene	20 UJ	17 UJ	20 UJ	23 UJ	9.2 U	6.8 U	1 U
trans-1,3-Dichloropropene	20 UJ	17 UJ	20 UJ	23 UJ	9.2 U	6.8 U	5 U
Total VOCs	ND	ND	ND	ND	41	ND	1.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4a
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0.2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1,2,2-Tetrachloroethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1,2-Trichloroethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1-Dichloroethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,1-Dichloroethene		8.9 U	5.0 U	24 UJ	18 UJ	18 UJ	35 UJ	25 UJ
1,2-Dichloroethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
1,2-Dichloropropane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
2-Butanone (MEK)		48 U	25 U	130 UJ	99 UJ	98 UJ	190 UJ	31 J
2-Hexanone		48 U	25 U	130 UJ	99 UJ	21 J	190 UJ	130 UJ
4-Methyl-2-pentanone (MIBK)		48 U	25 U	130 UJ	99 UJ	98 UJ	190 UJ	130 UJ
Acetone		47 J	50 U	260 UJ	200 UJ	250 UJ	380 UJ	96 J
Benzene		9.6 U	1.2 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Bromodichloromethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Bromoform		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Bromomethane		19 U	9.8 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Carbon disulfide		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Carbon tetrachloride		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Chlorobenzene		9.6 U	5.0 U	86 J	17 J	26 J	20 J	27 UJ
Chloroethane		19 U	10 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Chloroform		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Chloromethane		19 U	10 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Cis/Trans-1,2-Dichloroethene		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Dibromochloromethane		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Ethylbenzene		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Methylene chloride (Dichloromethane)		9.6 U	0.90 J	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Styrene		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Tetrachloroethene		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Toluene		6.4 J	5.0 U	26 UJ	20 UJ	20 J	38 UJ	27 UJ
Trichloroethene		9.6 U	2.7 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
Vinyl chloride		19 U	10 U	52 UJ	40 UJ	39 UJ	76 UJ	54 UJ
Xylenes, Total		9.6 U	5.0 U	26 UJ	20 UJ	20 UJ	38 UJ	27 UJ
cis-1,3-Dichloropropene		7.7 U	1.0 U	21 UJ	16 UJ	16 UJ	30 UJ	22 UJ
trans-1,3-Dichloropropene		7.7 U	5.0 U	21 UJ	16 UJ	16 UJ	30 UJ	22 UJ
Total VOCs		53.4	0.9	86	17	67	20	127

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-4a
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0 2FT	SED-CSD-S2-0 2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0 2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1,2,2-Tetrachloroethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1,2-Trichloroethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1-Dichloroethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,1-Dichloroethene		20 UJ	27 UJ	37 UJ	38 UJ	19 UJ	27 UJ	17 UJ
1,2-Dichloroethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
1,2-Dichloropropane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
2-Butanone (MEK)		37 J	28 J	65 J	56 J	30 J	150 UJ	94 UJ
2-Hexanone		110 UJ	140 UJ	200 UJ	200 UJ	100 UJ	150 UJ	94 UJ
4-Methyl-2-pentanone (MIBK)		110 UJ	140 UJ	200 UJ	200 UJ	100 UJ	150 UJ	94 UJ
Acetone		130 J	100 J	190 J	170 J	84 J	430 UJ	190 UJ
Benzene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Bromodichloromethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Bromoform		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Bromomethane		45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Carbon disulfide		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Carbon tetrachloride		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Chlorobenzene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Chloroethane		45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Chloroform		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Chloromethane		45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Cis/Trans-1,2-Dichloroethene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Dibromochloromethane		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Ethylbenzene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Methylene chloride (Dichloromethane)		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Styrene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Tetrachloroethene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Toluene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Trichloroethene		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
Vinyl chloride		45 UJ	58 UJ	80 UJ	82 UJ	41 UJ	60 UJ	38 UJ
Xylenes, Total		22 UJ	29 UJ	40 UJ	41 UJ	20 UJ	30 UJ	19 UJ
cis-1,3-Dichloropropene		18 UJ	23 UJ	32 UJ	33 UJ	16 UJ	24 UJ	15 UJ
trans-1,3-Dichloropropene		18 UJ	23 UJ	32 UJ	33 UJ	16 UJ	24 UJ	15 UJ
Total VOCs		167	128	255	226	114	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4a
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,1,1-Trichloroethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1,2,2-Tetrachloroethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1,2-Trichloroethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1-Dichloroethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,1-Dichloroethene		23 UJ	16 UJ	38 UJ	24 UJ	38 UJ	8.7 U	17 UJ
1,2-Dichloroethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
1,2-Dichloropropane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
2-Butanone (MEK)		520 J	85 UJ	200 UJ	130 UJ	270 UJ	47 U	40 J
2-Hexanone		130 UJ	85 UJ	200 UJ	130 UJ	210 UJ	47 U	94 UJ
4-Methyl-2-pentanone (MIBK)		130 UJ	85 UJ	200 UJ	130 UJ	210 UJ	47 U	94 UJ
Acetone		1200 J	200 UJ	410 UJ	260 UJ	920 UJ	95 U	160 J
Benzene		25 UJ	17 UJ	41 UJ	26 UJ	17 J	9.5 U	19 UJ
Bromodichloromethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Bromoform		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Bromomethane		50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Carbon disulfide		25 UJ	17 UJ	41 UJ	26 UJ	49 J	9.5 U	19 UJ
Carbon tetrachloride		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Chlorobenzene		25 UJ	17 UJ	41 UJ	26 UJ	100 J	9.5 U	19 UJ
Chloroethane		50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Chloroform		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Chloromethane		50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Cis/Trans-1,2-Dichloroethene		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Dibromochloromethane		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Ethylbenzene		25 UJ	17 UJ	41 UJ	11 J	42 UJ	9.5 U	19 UJ
Methylene chloride (Dichloromethane)		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Styrene		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Tetrachloroethene		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Toluene		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Trichloroethene		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
Vinyl chloride		50 UJ	34 UJ	82 UJ	51 UJ	83 UJ	19 U	38 UJ
Xylenes, Total		25 UJ	17 UJ	41 UJ	26 UJ	42 UJ	9.5 U	19 UJ
cis-1,3-Dichloropropene		20 UJ	14 UJ	33 UJ	20 UJ	33 UJ	7.6 U	15 UJ
trans-1,3-Dichloropropene		20 UJ	14 UJ	33 UJ	20 UJ	33 UJ	7.6 U	15 UJ
Total VOCs		1720	ND	ND	11	166	ND	200

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-4a
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8260B Volatile Organic Compound Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
1,1,1-Trichloroethane		13 UJ	5 U	13 UJ	11 UJ
1,1,2,2-Tetrachloroethane		13 UJ	5 U	13 UJ	11 UJ
1,1,2-Trichloroethane		13 UJ	5 U	13 UJ	11 UJ
1,1-Dichloroethane		13 UJ	5 U	13 UJ	11 UJ
1,1-Dichloroethene		12 UJ	5 U	12 UJ	10 UJ
1,2-Dichloroethane		13 UJ	5 U	13 UJ	11 UJ
1,2-Dichloropropane		13 UJ	5 U	13 UJ	11 UJ
2-Butanone (MEK)		11 J	25 U	67 UJ	14 J
2-Hexanone		65 UJ	25 U	67 UJ	56 UJ
4-Methyl-2-pentanone (MIBK)		65 UJ	25 U	67 UJ	56 UJ
Acetone		38 J	50 U	130 UJ	52 J
Benzene		13 UJ	1.2 U	13 UJ	11 UJ
Bromodichloromethane		13 UJ	5 U	13 UJ	11 UJ
Bromoform		13 UJ	5 U	13 UJ	11 UJ
Bromomethane		26 UJ	9.8 U	27 UJ	22 UJ
Carbon disulfide		13 UJ	5 U	13 UJ	11 UJ
Carbon tetrachloride		13 UJ	5 U	13 UJ	11 UJ
Chlorobenzene		13 UJ	5 U	13 UJ	11 UJ
Chloroethane		26 UJ	10 U	27 UJ	22 UJ
Chloroform		13 UJ	5 U	13 UJ	11 UJ
Chloromethane		26 UJ	10 U	27 UJ	22 UJ
Cis/Trans-1,2-Dichloroethene		13 UJ	5 U	13 UJ	11 UJ
Dibromochloromethane		13 UJ	5 U	13 UJ	11 UJ
Ethylbenzene		13 UJ	5 U	13 UJ	11 UJ
Methylene chloride (Dichloromethane)		13 UJ	4.7 U	13 UJ	11 UJ
Styrene		13 UJ	5 U	13 UJ	11 UJ
Tetrachloroethene		13 UJ	5 U	13 UJ	11 UJ
Toluene		13 UJ	5 U	13 UJ	11 UJ
Trichloroethene		13 UJ	2.7 U	13 UJ	11 UJ
Vinyl chloride		26 UJ	10 U	27 UJ	22 UJ
Xylenes, Total		13 UJ	5 U	13 UJ	11 UJ
cis-1,3-Dichloropropene		10 UJ	1 U	11 UJ	9.1 UJ
trans-1,3-Dichloropropene		10 UJ	5 U	11 UJ	9.1 UJ
Total VOCs		49	ND	ND	66

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-4b

Full Scan Sediments Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound							
1,2,4-Trichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
1,2-Dichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
1,3-Dichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
1,4-Dichlorobenzene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,2'-Oxybis(1-Chloropropane)	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,4,5-Trichlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,4,6-Trichlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	2.1 U
2,4-Dichlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2,4-Dinitrophenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	14 U
2,4-Dinitrotoluene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
2,6-Dinitrotoluene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Chloronaphthalene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Chlorophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Methylnaphthalene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Methylphenol (o-cresol)	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
2-Nitroaniline	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	50 U
2-Nitrophenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
3,3'-Dichlorobenzidine	910 UJ	910 UJ	960 UJ	910 UJ	480 U	450 U	20 U
3-Methylphenol/4-Methylphenol	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
3-Nitroaniline	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 UJ	1100 U	50 U
4,6-Dinitro-2-methylphenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	13 U
4-Bromophenylphenyl ether	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	1 U
4-Chloro-3-methylphenol	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
4-Chloroaniline	910 UJ	910 UJ	960 UJ	910 UJ	480 U	450 U	20 U
4-Chlorophenylphenyl ether	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
4-Nitroaniline	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	50 U
4-Nitrophenol	2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	50 U
Acenaphthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Acenaphthylene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Anthracene	470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Benzo(a)anthracene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Benzo(a)pyrene	250 UJ	250 UJ	260 UJ	250 UJ	130 U	120 U	10 U
Benzo(b)fluoranthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Benzo(g,h,i)perylene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	0.76 J
Benzo(k)fluoranthene	470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	BPL-ESED-S1-0 2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0 2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Butylbenzylphthalate		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Carbazole		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	3.4 U
Chrysene		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Di-n-butylphthalate		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Di-n-octylphthalate		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Dibenzo(a,h)anthracene		250 UJ	250 UJ	260 UJ	250 UJ	130 UJ	120 U	10 U
Dibenzofuran		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Diethylphthalate		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Dimethylphthalate		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Fluoranthene		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Fluorene		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	1 U
Hexachlorobenzene		190 UJ	190 UJ	200 UJ	190 UJ	100 U	95 U	10 U
Hexachlorobutadiene		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Hexachlorocyclopentadiene		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
Hexachloroethane		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	1.9 U
Indeno(1,2,3-cd)pyrene		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	0.61 J
Isophorone		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
N-Nitroso-di-n-propylamine		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
N-Nitrosodiphenylamine		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	5 U
Naphthalene		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Nitrobenzene		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	3.5 U
Pentachlorophenol		2300 UJ	2400 UJ	2500 UJ	2300 UJ	1200 U	1100 U	5 U
Phenanthrene		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Phenol		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	10 U
Pyrene		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
bis(2-Chloroethoxy)methane		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
bis(2-Chloroethyl)ether		470 UJ	470 UJ	500 UJ	470 UJ	250 U	230 U	10 U
bis(2-Ethylhexyl)phthalate		470 UJ	470 UJ	500 UJ	470 UJ	250 UJ	230 U	1.8 U
Total Semivolatiles		ND	ND	ND	ND	ND	ND	1.37

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0 2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		230 U	10 U	2600 UJ	2200 UJ	770 J	3300 UJ	3400 UJ
1,2-Dichlorobenzene		230 U	10 U	370 J	2200 UJ	2600 UJ	3300 UJ	3400 UJ
1,3-Dichlorobenzene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
1,4-Dichlorobenzene		230 U	10 U	1000 J	2200 UJ	520 J	3300 UJ	3400 UJ
2,2'-Oxybis(1-Chloropropane)		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4,5-Trichlorophenol		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4,6-Trichlorophenol		230 U	2.1 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4-Dichlorophenol		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,4-Dinitrophenol		1200 U	14 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
2,4-Dinitrotoluene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2,6-Dinitrotoluene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Chloronaphthalene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Chlorophenol		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Methylnaphthalene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Methylphenol (o-cresol)		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
2-Nitroaniline		1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
2-Nitrophenol		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
3,3'-Dichlorobenzidine		450 U	20 U	5000 UJ	4200 UJ	5000 UJ	6300 UJ	6600 UJ
3-Methylphenol/4-Methylphenol		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
3-Nitroaniline		1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
4,6-Dinitro-2-methylphenol		1200 U	13 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
4-Bromophenylphenyl ether		230 U	1.0 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
4-Chloro-3-methylphenol		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
4-Chloroaniline		450 U	20 U	5000 UJ	4200 UJ	830 J	6300 UJ	6600 UJ
4-Chlorophenylphenyl ether		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
4-Nitroaniline		1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
4-Nitrophenol		1200 U	50 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
Acenaphthene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Acenaphthylene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Anthracene		230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Benzo(a)anthracene		230 U	10 U	960 J	600 J	870 J	680 J	530 J
Benzo(a)pyrene		120 U	10 U	1500 J	770 J	1200 J	730 J	1800 UJ
Benzo(b)fluoranthene		230 U	10 U	1700 J	1100 J	2000 J	1100 J	680 J
Benzo(g,h,i)perylene		230 U	10 U	1600 J	710 J	1600 J	790 J	3400 UJ
Benzo(k)fluoranthene		230 U	10 U	1500 J	920 J	1600 J	920 J	3400 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0.2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound							
Butylbenzylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Carbazole	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Chrysene	230 U	10 U	1600 J	990 J	1800 J	1100 J	640 J
Di-n-butylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Di-n-octylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Dibenzo(a,h)anthracene	120 U	10 U	1400 UJ	1200 UJ	1400 UJ	1700 UJ	1800 UJ
Dibenzofuran	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Diethylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Dimethylphthalate	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Fluoranthene	230 U	10 U	2300 J	1700 J	1800 J	1900 J	780 J
Fluorene	230 U	1.0 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 U
Hexachlorobenzene	96 U	10 U	1000 UJ	900 UJ	1000 UJ	1300 UJ	1400 UJ
Hexachlorobutadiene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Hexachlorocyclopentadiene	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Hexachloroethane	230 U	1.9 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Indeno(1,2,3-cd)pyrene	230 U	10 U	1300 J	2200 UJ	1000 J	3300 UJ	3400 UJ
Isophorone	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
N-Nitroso-di-n-propylamine	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
N-Nitrosodiphenylamine	230 U	5.0 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Naphthalene	230 U	10 U	2600 UJ	2200 UJ	380 J	3300 UJ	3400 UJ
Nitrobenzene	230 U	3.5 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Pentachlorophenol	1200 U	5.0 U	13000 UJ	11000 UJ	13000 UJ	16000 UJ	17000 UJ
Phenanthrene	230 U	10 U	2600 UJ	810 J	930 J	910 J	530 J
Phenol	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Pyrene	230 U	10 U	3000 J	1800 J	2200 J	2000 J	940 J
bis(2-Chloroethoxy)methane	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
bis(2-Chloroethyl)ether	230 U	10 U	2600 UJ	2200 UJ	2600 UJ	3300 UJ	3400 UJ
bis(2-Ethylhexyl)phthalate	230 U	1.8 U	3000 J	2200 UJ	2600 UJ	3300 UJ	3400 UJ
Total Semivolatiles	ND	ND	19830	9400	17500	10130	4100

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
1,2-Dichlorobenzene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
1,3-Dichlorobenzene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
1,4-Dichlorobenzene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,2'-Oxybis(1-Chloropropane)		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4,5-Trichlorophenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4,6-Trichlorophenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4-Dichlorophenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,4-Dinitrophenol		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
2,4-Dinitrotoluene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2,6-Dinitrotoluene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Chloronaphthalene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Chlorophenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Methylnaphthalene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Methylphenol (o-cresol)		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
2-Nitroaniline		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
2-Nitrophenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
3,3'-Dichlorobenzidine		5500 UJ	7600 UJ	8400 UJ	9100 UJ	5700 UJ	1200 UJ	860 UJ
3-Methylphenol/4-Methylphenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
3-Nitroaniline		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
4,6-Dinitro-2-methylphenol		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
4-Bromophenylphenyl ether		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
4-Chloro-3-methylphenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
4-Chloroaniline		5500 UJ	7600 UJ	8400 UJ	9100 UJ	5700 UJ	1200 UJ	860 UJ
4-Chlorophenylphenyl ether		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
4-Nitroaniline		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
4-Nitrophenol		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
Acenaphthene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Acenaphthylene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Anthracene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Benzo(a)anthracene		2800 UJ	890 J	4300 UJ	4700 UJ	420 J	100 J	120 J
Benzo(a)pyrene		1500 UJ	1400 J	2300 UJ	2500 UJ	560 J	150 J	170 J
Benzo(b)fluoranthene		600 J	2000 J	970 J	780 J	910 J	170 J	260 J
Benzo(g,h,i)perylene		2800 UJ	1400 J	4300 UJ	4700 UJ	660 J	140 J	170 J
Benzo(k)fluoranthene		390 J	1200 J	660 J	520 J	610 J	600 UJ	170 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Carbazole		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Chrysene		500 J	1500 J	790 J	670 J	740 J	190 J	220 J
Di-n-butylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Di-n-octylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Dibenzo(a,h)anthracene		1500 UJ	2100 UJ	2300 UJ	2500 UJ	1600 UJ	320 UJ	240 UJ
Dibenzofuran		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Diethylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Dimethylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Fluoranthene		800 J	2200 J	1200 J	1000 J	1200 J	320 J	390 J
Fluorene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachlorobenzene		1200 UJ	1600 UJ	1800 UJ	1900 UJ	1200 UJ	250 UJ	180 UJ
Hexachlorobutadiene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachlorocyclopentadiene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachloroethane		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Indeno(1,2,3-cd)pyrene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	130 J	150 J
Isophorone		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
N-Nitroso-di-n-propylamine		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
N-Nitrosodiphenylamine		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Naphthalene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Nitrobenzene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Pentachlorophenol		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
Phenanthrene		320 J	840 J	4300 UJ	4700 UJ	410 J	130 J	120 J
Phenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Pyrene		660 J	2000 J	950 J	970 J	1100 J	250 J	310 J
bis(2-Chloroethoxy)methane		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
bis(2-Chloroethyl)ether		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
bis(2-Ethylhexyl)phthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	1200 J	600 UJ	260 J
Total Semivolatiles		3270	13430	4570	3940	7810	1580	2340

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-4c

Full Scan Sediments
Pesticide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-CSC-S2-0 2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0 2FT	SED-CSD-S2-0 2FT	SED-CSD-S3-0 2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0 2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Carbazole		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Chrysene		500 J	1500 J	790 J	670 J	740 J	190 J	220 J
Di-n-butylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Di-n-octylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Dibenzo(a,h)anthracene		1500 UJ	2100 UJ	2300 UJ	2500 UJ	1600 UJ	320 UJ	240 UJ
Dibenzofuran		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Diethylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Dimethylphthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Fluoranthene		800 J	2200 J	1200 J	1000 J	1200 J	320 J	390 J
Fluorene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachlorobenzene		1200 UJ	1600 UJ	1800 UJ	1900 UJ	1200 UJ	250 UJ	180 UJ
Hexachlorobutadiene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachlorocyclopentadiene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Hexachloroethane		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Indeno(1,2,3-cd)pyrene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	130 J	150 J
Isophorone		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
N-Nitroso-di-n-propylamine		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
N-Nitrosodiphenylamine		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Naphthalene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Nitrobenzene		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Pentachlorophenol		14000 UJ	20000 UJ	22000 UJ	23000 UJ	15000 UJ	3000 UJ	2200 UJ
Phenanthrene		320 J	840 J	4300 UJ	4700 UJ	410 J	130 J	120 J
Phenol		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
Pyrene		660 J	2000 J	950 J	970 J	1100 J	250 J	310 J
bis(2-Chloroethoxy)methane		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
bis(2-Chloroethyl)ether		2800 UJ	3900 UJ	4300 UJ	4700 UJ	2900 UJ	600 UJ	440 UJ
bis(2-Ethylhexyl)phthalate		2800 UJ	3900 UJ	4300 UJ	4700 UJ	1200 J	600 UJ	260 J
Total Semivolatiles		3270	13430	4570	3940	7810	1580	2340

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
1,2,4-Trichlorobenzene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
1,2-Dichlorobenzene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
1,3-Dichlorobenzene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
1,4-Dichlorobenzene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,2'-Oxybis(1-Chloropropane)		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4,5-Trichlorophenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4,6-Trichlorophenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4-Dichlorophenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,4-Dinitrophenol		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
2,4-Dinitrotoluene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2,6-Dinitrotoluene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Chloronaphthalene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Chlorophenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Methylnaphthalene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Methylphenol (o-cresol)		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
2-Nitroaniline		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
2-Nitrophenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
3,3'-Dichlorobenzidine		1100 UJ	770 UJ	1700 UJ	1200 UJ	9700 UJ	590 U	880 UJ
3-Methylphenol/4-Methylphenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
3-Nitroaniline		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
4,6-Dinitro-2-methylphenol		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
4-Bromophenylphenyl ether		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
4-Chloro-3-methylphenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
4-Chloroaniline		1100 UJ	770 UJ	1700 UJ	1200 UJ	2400 J	590 U	880 UJ
4-Chlorophenylphenyl ether		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
4-Nitroaniline		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
4-Nitrophenol		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
Acenaphthene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Acenaphthylene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Anthracene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Benzo(a)anthracene		340 J	400 UJ	890 UJ	620 UJ	1300 J	300 U	450 UJ
Benzo(a)pyrene		420 J	210 UJ	470 UJ	330 UJ	1500 J	160 U	240 UJ
Benzo(b)fluoranthene		520 J	400 UJ	890 UJ	620 UJ	1500 J	300 U	450 UJ
Benzo(g,h,i)perylene		350 J	400 UJ	890 UJ	620 UJ	1300 J	300 U	450 UJ
Benzo(k)fluoranthene		600 J	400 UJ	890 UJ	620 UJ	1800 J	300 U	450 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Butylbenzylphthalate		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Carbazole		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Chrysene		660 J	74 J	890 UJ	620 UJ	1600 J	300 U	450 UJ
Di-n-butylphthalate		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Di-n-octylphthalate		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Dibenzo(a,h)anthracene		300 UJ	210 UJ	470 UJ	330 UJ	2600 UJ	160 U	240 UJ
Dibenzofuran		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Diethylphthalate		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Dimethylphthalate		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Fluoranthene		1200 J	120 J	890 UJ	130 J	3000 J	300 U	450 UJ
Fluorene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Hexachlorobenzene		230 UJ	160 UJ	370 UJ	260 UJ	2000 UJ	120 U	190 UJ
Hexachlorobutadiene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Hexachlorocyclopentadiene		R	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Hexachloroethane		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Indeno(1,2,3-cd)pyrene		430 J	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Isophorone		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
N-Nitroso-di-n-propylamine		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
N-Nitrosodiphenylamine		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Naphthalene		560 UJ	400 UJ	890 UJ	620 UJ	1100 J	300 U	450 UJ
Nitrobenzene		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Pentachlorophenol		2800 UJ	2000 UJ	4500 UJ	3100 UJ	25000 UJ	1500 U	2300 UJ
Phenanthrene		510 J	400 UJ	890 UJ	620 UJ	1300 J	300 U	450 UJ
Phenol		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
Pyrene		1000 J	400 UJ	890 UJ	620 UJ	2200 J	300 U	450 UJ
bis(2-Chloroethoxy)methane		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
bis(2-Chloroethyl)ether		560 UJ	400 UJ	890 UJ	620 UJ	5000 UJ	300 U	450 UJ
bis(2-Ethylhexyl)phthalate		250 J	400 UJ	890 UJ	620 UJ	1400 J	300 U	450 UJ
Total Semivolatiles		6280	194	ND	130	20400	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
1,2,4-Trichlorobenzene		350 UJ	10 U	350 UJ	370 UJ
1,2-Dichlorobenzene		350 UJ	10 U	350 UJ	370 UJ
1,3-Dichlorobenzene		350 UJ	10 U	350 UJ	370 UJ
1,4-Dichlorobenzene		350 UJ	10 U	350 UJ	370 UJ
2,2'-Oxybis(1-Chloropropane)		350 UJ	10 U	350 UJ	370 UJ
2,4,5-Trichlorophenol		350 UJ	10 U	350 UJ	370 UJ
2,4,6-Trichlorophenol		350 UJ	2.1 U	350 UJ	370 UJ
2,4-Dichlorophenol		350 UJ	10 U	350 UJ	370 UJ
2,4-Dinitrophenol		1800 UJ	14 U	1800 UJ	1800 UJ
2,4-Dinitrotoluene		350 UJ	10 U	350 UJ	370 UJ
2,6-Dinitrotoluene		350 UJ	10 U	350 UJ	370 UJ
2-Chloronaphthalene		350 UJ	10 U	350 UJ	370 UJ
2-Chlorophenol		350 UJ	10 U	350 UJ	370 UJ
2-Methylnaphthalene		350 UJ	10 U	350 UJ	370 UJ
2-Methylphenol (o-cresol)		350 UJ	10 U	350 UJ	370 UJ
2-Nitroaniline		1800 UJ	50 U	1800 UJ	1800 UJ
2-Nitrophenol		350 UJ	10 U	350 UJ	370 UJ
3,3'-Dichlorobenzidine		680 UJ	20 U	690 UJ	710 UJ
3-Methylphenol/4-Methylphenol		350 UJ	10 U	350 UJ	370 UJ
3-Nitroaniline		1800 UJ	50 U	1800 UJ	1800 UJ
4,6-Dinitro-2-methylphenol		1800 UJ	13 U	1800 UJ	1800 UJ
4-Bromophenylphenyl ether		350 UJ	1 U	350 UJ	370 UJ
4-Chloro-3-methylphenol		350 UJ	10 U	350 UJ	370 UJ
4-Chloroaniline		680 UJ	1.2 J	690 UJ	710 UJ
4-Chlorophenylphenyl ether		350 UJ	10 U	350 UJ	370 UJ
4-Nitroaniline		1800 UJ	50 U	1800 UJ	1800 UJ
4-Nitrophenol		1800 UJ	50 U	1800 UJ	1800 UJ
Acenaphthene		350 UJ	10 U	350 UJ	370 UJ
Acenaphthylene		350 UJ	10 U	350 UJ	370 UJ
Anthracene		350 UJ	10 U	350 UJ	370 UJ
Benzo(a)anthracene		350 UJ	10 U	350 UJ	370 UJ
Benzo(a)pyrene		190 UJ	10 U	190 UJ	190 UJ
Benzo(b)fluoranthene		350 UJ	10 U	350 UJ	370 UJ
Benzo(g,h,i)perylene		350 UJ	10 U	350 UJ	370 UJ
Benzo(k)fluoranthene		350 UJ	10 U	350 UJ	370 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4b
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
Butylbenzylphthalate		350 UJ	10 U	350 UJ	370 UJ
Carbazole		350 UJ	10 U	350 UJ	370 UJ
Chrysene		350 UJ	10 U	350 UJ	370 UJ
Di-n-butylphthalate		350 UJ	10 U	350 UJ	370 UJ
Di-n-octylphthalate		350 UJ	10 U	350 UJ	370 UJ
Dibenzo(a,h)anthracene		190 UJ	10 U	190 UJ	190 UJ
Dibenzofuran		350 UJ	10 U	350 UJ	370 UJ
Diethylphthalate		350 UJ	10 U	350 UJ	370 UJ
Dimethylphthalate		350 UJ	10 U	350 UJ	370 UJ
Fluoranthene		350 UJ	10 U	350 UJ	370 UJ
Fluorene		350 UJ	1 U	350 UJ	370 UJ
Hexachlorobenzene		140 UJ	10 U	140 UJ	150 UJ
Hexachlorobutadiene		350 UJ	10 U	350 UJ	370 UJ
Hexachlorocyclopentadiene		350 UJ	10 U	350 UJ	370 UJ
Hexachloroethane		350 UJ	1.9 U	350 UJ	370 UJ
Indeno(1,2,3-cd)pyrene		350 UJ	10 U	350 UJ	370 UJ
Isophorone		350 UJ	10 U	350 UJ	370 UJ
N-Nitroso-di-n-propylamine		350 UJ	10 U	350 UJ	370 UJ
N-Nitrosodiphenylamine		350 UJ	5 U	350 UJ	370 UJ
Naphthalene		350 UJ	10 U	350 UJ	370 UJ
Nitrobenzene		350 UJ	3.5 U	350 UJ	370 UJ
Pentachlorophenol		1800 UJ	5 U	1800 UJ	1800 UJ
Phenanthrene		350 UJ	10 U	350 UJ	370 UJ
Phenol		350 UJ	10 U	350 UJ	370 UJ
Pyrene		350 UJ	10 U	350 UJ	370 UJ
bis(2-Chloroethoxy)methane		350 UJ	10 U	350 UJ	370 UJ
bis(2-Chloroethyl)ether		350 UJ	10 U	350 UJ	370 UJ
bis(2-Ethylhexyl)phthalate		350 UJ	1.8 U	350 UJ	370 UJ
Total Semivolatiles		ND	1.2	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-4c
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

	Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
4,4'-DDD		18 UJ	9.1 UJ	19 UJ	18 UJ	4.8 U	4.5 U	0.1 U
4,4'-DDE		1.4 J	0.81 J	3.2 J	1.6 J	4.8 U	4.5 U	0.1 U
4,4'-DDT		1.9 J	0.38 J	19 UJ	1.4 J	4.8 U	4.5 U	0.1 U
Aldrin		9.4 UJ	4.7 UJ	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.05 U
Alpha Chlordane		0.52 J	0.43 J	3.2 J	1.2 J	2.4 U	2.3 U	0.05 U
Dieldrin		0.3 J	0.21 J	0.5 J	18 UJ	4.8 UJ	4.5 U	0.1 U
Endosulfan I		9.4 UJ	0.38 J	2.8 J	1 J	2.4 U	2.3 U	0.05 U
Endosulfan II		18 UJ	9.1 UJ	19 UJ	18 UJ	4.8 U	4.5 U	0.1 U
Endosulfan sulfate		18 UJ	0.94 J	1.4 J	18 UJ	4.8 U	4.5 U	0.1 U
Endrin		18 UJ	9.1 UJ	19 UJ	18 UJ	4.8 UJ	4.5 U	0.1 U
Endrin aldehyde		1.6 J	1.1 J	2.2 J	1.2 J	4.8 U	4.5 U	0.1 U
Endrin ketone		1 J	0.43 J	19 UJ	18 UJ	4.8 U	4.5 U	0.1 U
Gamma Chlordane		0.89 J	0.58 J	3 J	9.4 UJ	2.4 U	2.3 U	0.05 U
Heptachlor		9.4 UJ	4.7 UJ	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.05 U
Heptachlor epoxide		9.4 UJ	0.2 J	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.05 U
Methoxychlor		94 UJ	47 UJ	99 UJ	94 UJ	24 U	23 U	0.5 U
Toxaphene		940 UJ	470 UJ	990 UJ	940 UJ	240 U	230 U	5 U
alpha-BHC		2.8 UJ	1.4 UJ	2.9 UJ	2.8 UJ	0.72 U	0.68 U	0.039 U
beta-BHC		2.8 UJ	1.4 UJ	2.9 UJ	2.8 UJ	0.72 UJ	0.68 U	0.014 U
delta-BHC		2.8 UJ	1.4 UJ	2.9 UJ	2.8 UJ	2.4 U	2.3 U	0.012 U
gamma-BHC (Lindane)		9.4 UJ	0.16 J	9.9 UJ	9.4 UJ	2.4 U	2.3 U	0.019 U
Total Pesticides		7.61	5.62	16.3	6.4	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-4c
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		4.5 U	0.10 U	170 J	130 J	970 UJ	650 UJ	28 J
4,4'-DDE		4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	51 J
4,4'-DDT		4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Aldrin		2.3 U	0.050 U	1200 J	1000 J	980 J	410 J	25 J
Alpha Chlordane		2.3 U	0.050 U	500 UJ	440 UJ	500 UJ	330 UJ	37 J
Dieldrin		4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Endosulfan I		2.3 U	0.050 U	500 UJ	440 UJ	500 UJ	330 UJ	70 UJ
Endosulfan II		4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Endosulfan sulfate		4.5 U	0.0014 J	970 UJ	84 J	130 J	98 J	9 J
Endrin		4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Endrin aldehyde		4.5 U	0.10 U	520 J	860 UJ	970 UJ	650 UJ	140 UJ
Endrin ketone		4.5 U	0.10 U	970 UJ	860 UJ	970 UJ	650 UJ	140 UJ
Gamma Chlordane		2.3 U	0.050 U	760 J	680 J	500 UJ	330 UJ	110 J
Heptachlor		2.3 U	0.050 U	500 UJ	440 UJ	500 J	330 UJ	70 UJ
Heptachlor epoxide		2.3 U	0.050 U	500 UJ	440 UJ	500 UJ	330 UJ	70 UJ
Methoxychlor		23 U	0.50 U	5000 UJ	4400 UJ	5000 UJ	3300 UJ	700 UJ
Toxaphene		230 U	5.0 U	50000 UJ	44000 UJ	50000 UJ	33000 UJ	7000 UJ
alpha-BHC		0.69 U	0.039 U	150 UJ	130 UJ	150 UJ	98 UJ	21 UJ
beta-BHC		0.69 U	0.014 U	150 UJ	130 UJ	150 UJ	98 UJ	21 UJ
delta-BHC		2.3 U	0.0096 J	150 UJ	130 UJ	150 UJ	98 UJ	21 UJ
gamma-BHC (Lindane)		2.3 U	0.019 U	500 UJ	440 UJ	500 UJ	330 UJ	70 UJ
Total Pesticides		ND	0.011	2650	1894	1610	508	260

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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ENGINEERS, INC.

Table C-4c
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

Compound	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
4,4'-DDD		270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	120 UJ	86 UJ
4,4'-DDE		270 UJ	380 UJ	20 J	14 J	4.4 J	15 J	3.4 J
4,4'-DDT		270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	9.3 J	86 UJ
Aldrin		42 J	64 J	9.6 J	11 J	2.7 J	60 UJ	44 UJ
Alpha Chlordane		54 J	120 J	26 J	14 J	30 UJ	6.9 J	2.5 J
Dieldrin		270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	9.4 J	1.7 J
Endosulfan I		140 UJ	200 UJ	44 UJ	48 UJ	30 UJ	60 UJ	44 UJ
Endosulfan II		270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	12 J	2.3 J
Endosulfan sulfate		16 J	380 UJ	86 UJ	94 UJ	58 UJ	10 J	86 UJ
Endrin		270 UJ	380 UJ	86 UJ	94 UJ	58 UJ	4.6 J	86 UJ
Endrin aldehyde		270 UJ	380 UJ	86 UJ	94 UJ	16 J	22 J	3.6 J
Endrin ketone		270 UJ	380 UJ	86 UJ	94 UJ	5.5 J	17 J	6.8 J
Gamma Chlordane		140 J	250 J	49 J	29 J	6.7 J	14 J	5.9 J
Heptachlor		9.1 J	9.7 J	44 UJ	48 UJ	30 UJ	60 UJ	44 UJ
Heptachlor epoxide		140 UJ	200 UJ	44 UJ	48 UJ	30 UJ	5.2 J	44 UJ
Methoxychlor		1400 UJ	2000 UJ	440 UJ	480 UJ	300 UJ	39 J	440 UJ
Toxaphene		14000 UJ	20000 UJ	4400 UJ	4800 UJ	3000 UJ	6000 UJ	4400 UJ
alpha-BHC		41 UJ	58 UJ	13 UJ	14 UJ	8.8 UJ	18 UJ	13 UJ
beta-BHC		41 UJ	58 UJ	13 UJ	14 UJ	8.8 UJ	18 UJ	13 UJ
delta-BHC		41 UJ	18 J	16 J	14 UJ	1.5 J	1.3 J	13 UJ
gamma-BHC (Lindane)		140 UJ	200 UJ	44 UJ	48 UJ	30 UJ	60 UJ	44 UJ
Total Pesticides		261.1	461.7	120.6	68	36.8	165.7	26.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4c
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
4,4'-DDD		22 UJ	3.8 J	35 UJ	24 UJ	770 UJ	5.8 U	8.8 UJ
4,4'-DDE		4.3 J	11 J	8.1 J	2.5 J	110 J	5.8 U	8.8 UJ
4,4'-DDT		22 UJ	4.5 J	35 UJ	24 UJ	44 J	5.8 U	8.8 UJ
Aldrin		11 UJ	4.1 J	18 UJ	12 UJ	120 J	3 U	4.6 UJ
Alpha Chlordane		3.9 J	4.6 J	5.3 J	0.84 J	400 UJ	3 U	4.6 UJ
Dieldrin		5.4 J	9.3 J	35 UJ	0.99 J	770 UJ	5.8 U	8.8 UJ
Endosulfan I		11 UJ	5.7 J	2 J	1.2 J	400 UJ	3 U	4.6 UJ
Endosulfan II		22 UJ	8.1 J	5.5 J	1.8 J	770 UJ	5.8 U	8.8 UJ
Endosulfan sulfate		22 UJ	2.8 J	35 UJ	24 UJ	50 J	5.8 U	8.8 UJ
Endrin		22 UJ	1.7 J	35 UJ	1.7 J	770 UJ	5.8 U	8.8 UJ
Endrin aldehyde		22 UJ	14 J	9 J	3.6 J	770 UJ	5.8 U	8.8 UJ
Endrin ketone		22 UJ	10 J	7.2 J	3.8 J	200 J	5.8 U	8.8 UJ
Gamma Chlordane		5.1 J	17 J	7.5 J	2.4 J	140 J	3 U	4.6 UJ
Heptachlor		0.53 J	7.8 UJ	18 UJ	0.93 J	59 J	3 U	4.6 UJ
Heptachlor epoxide		11 UJ	5.4 J	18 UJ	0.51 J	400 UJ	3 U	4.6 UJ
Methoxychlor		110 UJ	24 J	14 J	7.3 J	4000 UJ	30 U	46 UJ
Toxaphene		1100 UJ	780 UJ	1800 UJ	1200 UJ	40000 UJ	300 U	460 UJ
alpha-BHC		3.3 UJ	2.3 UJ	5.3 UJ	3.7 UJ	120 UJ	0.89 U	1.3 UJ
beta-BHC		3.3 UJ	2.3 UJ	5.3 UJ	3.7 UJ	120 UJ	0.89 U	1.3 UJ
delta-BHC		3.3 UJ	0.34 J	5.3 UJ	3.7 UJ	120 UJ	0.89 U	1.3 UJ
gamma-BHC (Lindane)		11 UJ	7.8 UJ	18 UJ	12 UJ	400 UJ	3 U	4.6 UJ
Total Pesticides		19.23	126.34	58.6	27.57	723	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-4c
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8081A Pesticide Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
4,4'-DDD		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
4,4'-DDE		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
4,4'-DDT		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Aldrin		3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Alpha Chlordane		3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Dieldrin		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endosulfan I		3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Endosulfan II		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endosulfan sulfate		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endrin		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endrin aldehyde		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Endrin ketone		6.8 UJ	0.1 U	6.8 UJ	7.2 UJ
Gamma Chlordane		3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Heptachlor		3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Heptachlor epoxide		3.5 UJ	0.05 U	3.5 UJ	3.7 UJ
Methoxychlor		35 UJ	0.5 U	35 UJ	37 UJ
Toxaphene		350 UJ	5 U	350 UJ	370 UJ
alpha-BHC		1 UJ	0.039 U	1 UJ	1.1 UJ
beta-BHC		1 UJ	0.014 U	1 UJ	1.1 UJ
delta-BHC		1 UJ	0.0089 J	1 UJ	1.1 UJ
gamma-BHC (Lindane)		3.5 UJ	0.019 U	3.5 UJ	3.7 UJ
Total Pesticides		ND	0.0089	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Full Scan Sediments
Herbicide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-4d
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

	Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
2,4,5-T		23 UJ	23 UJ	24 UJ	23 UJ	12 U	11 U	0.5 U
2,4,5-TP (Silvex)		23 UJ	23 UJ	24 UJ	23 UJ	12 U	11 U	0.5 U
2,4-D		23 UJ	6.1 J	24 UJ	11 J	12 U	11 U	0.5 U
2,4-DB		23 UJ	23 UJ	24 UJ	23 UJ	12 U	11 U	0.5 U
Dalapon		180 UJ	180 UJ	190 UJ	180 UJ	97 U	90 U	120 U
Dicamba		55 UJ	55 UJ	58 UJ	56 UJ	30 U	27 U	1.2 U
Dichloroprop		280 UJ	270 UJ	290 UJ	280 UJ	140 U	140 U	6 U
Dinoseb		280 UJ	270 UJ	290 UJ	280 UJ	140 U	140 U	6 U
MCPA		5500 UJ	5500 UJ	5800 UJ	5600 UJ	2900 U	2700 U	120 U
MCPP		5500 UJ	5500 UJ	5800 UJ	5600 UJ	2900 U	2700 U	120 U
Pentachlorophenol		47 UJ	47 UJ	50 UJ	47 UJ	29 U	27 U	1 U
Total Herbicides		ND	6.1	ND	11	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4d
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
2,4,5-TP (Silvex)		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
2,4-D		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
2,4-DB		11 U	0.50 U	110 UJ	110 UJ	21 UJ	140 UJ	28 UJ
Dalapon		91 U	120 U	840 UJ	850 UJ	160 UJ	1100 UJ	220 UJ
Dicamba		28 U	1.2 U	260 UJ	260 UJ	50 UJ	350 UJ	68 UJ
Dichloroprop		140 U	6.0 U	1300 UJ	1300 UJ	250 UJ	1800 UJ	340 UJ
Dinoseb		140 U	6.0 U	1300 UJ	1300 UJ	250 UJ	1800 UJ	340 UJ
MCPA		2800 U	120 U	26000 UJ	26000 UJ	5000 UJ	35000 UJ	6800 UJ
MCPP		2800 U	120 U	26000 UJ	26000 UJ	5000 UJ	35000 UJ	6800 UJ
Pentachlorophenol		23 U	1.0 U	57 J	36 J	220 J	56 J	7.4 J
Total Herbicides		ND	ND	57	36	220	56	7.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4d
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0 2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0 2FT	SED-CSE-S2-0 2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	170 U	130 UJ
2,4,5-TP (Silvex)		24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	170 UJ	130 UJ
2,4-D		24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	73 J	130 UJ
2,4-DB		24 UJ	180 UJ	190 UJ	220 UJ	24 UJ	150 J	130 UJ
Dalapon		180 UJ	1400 UJ	1500 UJ	1700 UJ	190 UJ	1300 UJ	990 UJ
Dicamba		57 UJ	440 UJ	460 UJ	13 J	59 UJ	410 UJ	300 UJ
Dichloroprop		280 UJ	2200 UJ	2300 UJ	2600 UJ	290 UJ	2100 UJ	1500 UJ
Dinoseb		280 UJ	2200 UJ	2300 UJ	2600 UJ	290 UJ	2100 UJ	1500 UJ
MCPA		5700 UJ	44000 UJ	46000 UJ	53000 UJ	5900 UJ	41000 UJ	30000 UJ
MCPP		5700 UJ	44000 UJ	46000 UJ	53000 UJ	5900 UJ	41000 UJ	30000 UJ
Pentachlorophenol		23 J	23 J	400 UJ	450 UJ	3.9 J	350 UJ	12 J
Total Herbicides		23	23	ND	13	3.9	223	12

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-4d
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
2,4,5-T		140 UJ	110 UJ	240 UJ	30 UJ	220 UJ	15 U	22 UJ
2,4,5-TP (Silvex)		140 UJ	110 UJ	240 UJ	30 UJ	220 UJ	15 U	22 UJ
2,4-D		140 UJ	110 UJ	240 UJ	23 J	220 UJ	12 J	22 UJ
2,4-DB		140 UJ	110 UJ	240 UJ	30 UJ	220 UJ	15 U	22 UJ
Dalapon		1100 UJ	860 UJ	2000 UJ	240 UJ	1700 UJ	120 U	180 UJ
Dicamba		340 UJ	260 UJ	570 UJ	74 UJ	540 UJ	35 U	54 UJ
Dichloroprop		1700 UJ	1300 UJ	2900 UJ	370 UJ	2700 UJ	180 U	270 UJ
Dinoseb		R	1300 UJ	2900 UJ	370 UJ	2700 UJ	180 U	270 UJ
MCPA		34000 UJ	26000 UJ	57000 UJ	7400 UJ	54000 UJ	3500 UJ	5400 UJ
MCPP		34000 UJ	26000 UJ	57000 UJ	7400 UJ	54000 UJ	3500 U	5400 UJ
Pentachlorophenol		3.8 J	72 UJ	490 UJ	62 UJ	52 J	1.9 J	46 UJ
Total Herbicides		3.8	ND	ND	23	52	13.9	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-4d
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8151A Herbicide Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
2,4,5-T		17 UJ	0.5 U	17 UJ	18 UJ
2,4,5-TP (Silvex)		17 UJ	0.5 U	17 UJ	18 UJ
2,4-D		17 UJ	0.5 U	17 UJ	18 UJ
2,4-DB		17 UJ	0.5 U	17 UJ	18 UJ
Dalapon		130 UJ	120 U	130 UJ	120 UJ
Dicamba		42 UJ	1.2 U	42 UJ	43 UJ
Dichloroprop		210 UJ	6 U	210 UJ	220 UJ
Dinoseb		210 UJ	6 U	210 UJ	220 UJ
MCPA		4200 UJ	120 U	4200 UJ	4300 UJ
MCPP		4200 UJ	120 U	4200 UJ	4300 UJ
Pentachlorophenol		35 UJ	1.0 U	35 UJ	36 UJ
Total Herbicides		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Full Scan Sediments
Polychlorinated Biphenyl Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-4e
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	BPL-ESED-S1-0 2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0 2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/l
Compound								
Decachlorobiphenyl		230 UJ	46 UJ	49 UJ	46 UJ	24 U	23 U	0.5 U
Dichlorobiphenyl		46 UJ	9.2 UJ	9.7 UJ	9.2 UJ	4.8 UJ	4.5 U	0.1 U
Heptachlorobiphenyl		140 UJ	28 UJ	29 UJ	28 UJ	15 UJ	14 U	0.3 U
Hexachlorobiphenyl		95 UJ	19 UJ	20 UJ	19 UJ	9.8 UJ	9.2 U	0.2 U
Monochlorobiphenyl		46 UJ	9.2 UJ	9.7 UJ	9.2 UJ	4.8 UJ	4.5 U	0.1 U
Nonachlorobiphenyl		230 UJ	46 UJ	49 UJ	46 UJ	24 UJ	23 U	0.5 U
Octachlorobiphenyl		140 UJ	28 UJ	29 UJ	28 UJ	15 UJ	14 U	0.3 U
Pentachlorobiphenyl		95 UJ	19 UJ	20 UJ	19 UJ	9.8 UJ	9.2 U	0.2 U
Tetrachlorobiphenyl		95 UJ	19 UJ	20 UJ	19 UJ	9.8 UJ	9.2 U	0.2 U
Trichlorobiphenyl		46 UJ	9.2 UJ	9.7 UJ	9.2 UJ	4.8 UJ	4.5 U	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-4e
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		23 U	0.50 U	2500 UJ	2300 UJ	3400 J	2300 J	290 UJ
Dichlorobiphenyl		4.6 U	0.10 U	500 UJ	450 UJ	640 J	500 J	57 UJ
Heptachlorobiphenyl		14 U	0.30 U	980 J	1400 UJ	5300 J	1300 J	170 UJ
Hexachlorobiphenyl		9.3 U	0.20 U	5200 J	2600 J	21000 J	7600 J	160 J
Monochlorobiphenyl		4.6 U	0.10 U	500 UJ	450 UJ	500 UJ	670 UJ	57 UJ
Nonachlorobiphenyl		23 U	0.50 U	2500 UJ	2300 UJ	2500 UJ	3400 UJ	290 UJ
Octachlorobiphenyl		14 U	0.30 U	1500 UJ	1400 UJ	1800 J	2000 UJ	170 UJ
Pentachlorobiphenyl		9.3 U	0.20 U	34000 J	7500 J	66000 J	19000 J	110 UJ
Tetrachlorobiphenyl		9.3 U	0.20 U	88000 J	15000 J	98000 J	26000 J	110 UJ
Trichlorobiphenyl		4.6 U	0.10 U	34000 J	4800 J	30000 J	11000 J	57 UJ
Total PCBs		ND	ND	162180	29900	226140	67700	160

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4e
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		2900 UJ	3900 UJ	170 J	230 J	300 UJ	140 J	440 UJ
Dichlorobiphenyl		570 UJ	770 UJ	87 UJ	96 UJ	59 UJ	12 UJ	87 UJ
Heptachlorobiphenyl		1700 UJ	2300 UJ	260 UJ	290 UJ	180 UJ	49 J	260 UJ
Hexachlorobiphenyl		720 J	2000 J	97 J	400 J	250 J	130 J	170 UJ
Monochlorobiphenyl		570 UJ	770 UJ	87 UJ	96 UJ	59 UJ	12 UJ	87 UJ
Nonachlorobiphenyl		2900 UJ	3900 UJ	440 UJ	480 UJ	300 UJ	60 UJ	440 UJ
Octachlorobiphenyl		1700 UJ	2300 UJ	260 UJ	290 UJ	180 UJ	36 UJ	260 UJ
Pentachlorobiphenyl		2200 J	2600 J	430 J	520 J	480 J	650 J	170 UJ
Tetrachlorobiphenyl		1200 UJ	1600 UJ	180 UJ	190 UJ	120 UJ	60 J	170 UJ
Trichlorobiphenyl		570 UJ	770 UJ	87 UJ	96 UJ	59 UJ	9.2 J	87 UJ
Total PCBs		2920	4600	697	1150	730	1038.2	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4e
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw
Compound					
Decachlorobiphenyl		35 UJ	0.5 U	35 UJ	36 UJ
Dichlorobiphenyl		6.9 UJ	0.1 U	6.9 UJ	7.1 UJ
Heptachlorobiphenyl		21 UJ	0.3 U	21 UJ	22 UJ
Hexachlorobiphenyl		14 UJ	0.2 U	14 UJ	14 UJ
Monochlorobiphenyl		6.9 UJ	0.1 U	6.9 UJ	7.1 UJ
Nonachlorobiphenyl		35 UJ	0.5 U	35 UJ	36 UJ
Octachlorobiphenyl		21 UJ	0.3 U	21 UJ	22 UJ
Pentachlorobiphenyl		14 UJ	0.2 U	14 UJ	14 UJ
Tetrachlorobiphenyl		14 UJ	0.2 U	14 UJ	14 UJ
Trichlorobiphenyl		6.9 UJ	0.1 U	6.9 UJ	7.1 UJ
Total PCBs		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-4e
Solutia
Sauget Area 1
Broad Scan Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		56 UJ	39 UJ	88 UJ	310 UJ	5100 UJ	30 U	45 UJ
Dichlorobiphenyl		11 UJ	7.7 UJ	17 UJ	60 UJ	1000 UJ	5.9 U	8.9 UJ
Heptachlorobiphenyl		33 UJ	23 UJ	53 UJ	180 UJ	3000 UJ	18 U	27 UJ
Hexachlorobiphenyl		22 UJ	22 J	17 J	120 UJ	3000 J	12 U	18 UJ
Monochlorobiphenyl		11 UJ	7.7 UJ	17 UJ	60 UJ	1000 UJ	5.9 U	8.9 UJ
Nonachlorobiphenyl		56 UJ	39 UJ	88 UJ	310 UJ	5100 UJ	30 U	45 UJ
Octachlorobiphenyl		33 UJ	23 UJ	53 UJ	180 UJ	3000 UJ	18 U	27 UJ
Pentachlorobiphenyl		22 UJ	61 J	66 J	120 UJ	4800 J	12 U	18 UJ
Tetrachlorobiphenyl		22 UJ	16 UJ	35 UJ	120 UJ	3100 J	12 U	18 UJ
Trichlorobiphenyl		11 UJ	7.7 UJ	17 UJ	60 UJ	1300 J	5.9 U	8.9 UJ
Total PCBs		ND	83	83	ND	12200	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C4f

Full Scan Sediments Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-4f
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7471A/7470A/9010B Metals Data

Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/l
Compound							
Aluminum	13000 J	15000 J	16000 J	11000 J	9800	11000	0.2 U
Antimony	1.9 J	5.1 UJ	5.9 UJ	1.5 J	2.7 UJ	2.5 UJ	0.02 U
Arsenic	16 J	17 J	17 J	13 J	7	6.6	0.01 U
Barium	360 J	410 J	420 J	240 J	140 J	130 J	0.01 U
Beryllium	0.72 J	0.76 J	0.82 J	0.58 J	0.48 J	0.54	0.004 U
Cadmium	1.9 J	2 J	2.7 J	1.6 J	0.67 U	0.62 U	0.005 U
Calcium	16000 J	17000 J	16000 J	11000 J	5300	3300	0.15 J
Chromium	20 J	22 J	26 J	18 J	15 J	16 J	0.01 U
Cobalt	9.3 J	10 J	10 J	7.1 J	6.7	7.4	0.01 U
Copper	43 J	48 J	64 J	36 J	14	14	0.02 U
Cyanide, Total	1.4 UJ	1.4 UJ	1.5 UJ	1.4 UJ	0.74 U	0.68 U	0.01 U
Iron	34000 J	37000 J	38000 J	28000 J	16000	16000	0.05 U
Lead	49 J	54 J	58 J	34 J	16	15	0.005 U
Magnesium	5500 J	5700 J	4800 J	3600 J	2900	2600	0.5 U
Manganese	1200 J	1300 J	1400 J	940 J	430 J	540 J	0.01 U
Mercury	0.091 J	0.11 J	0.16 J	0.11 J	0.025	0.023	0.0002 U
Molybdenum	0.52 J	0.47 J	0.92 J	0.37 J	0.45 J	0.58 J	0.01 U
Nickel	51 J	54 J	54 J	35 J	15	16	0.04 U
Potassium	2000 J	2300 J	2200 J	1500 J	1200 J	1200 J	1 U
Selenium	2.8 UJ	2.8 UJ	2.9 UJ	2.5 UJ	1.3 U	1.2 U	0.01 U
Silver	2.8 UJ	2.8 UJ	0.79 J	2.5 UJ	1.3 U	1.2 U	0.01 U
Sodium	200 UJ	180 UJ	230 UJ	140 UJ	92	80	0.58
Thallium	2.8 UJ	2.8 UJ	2.9 UJ	2.5 UJ	1.3 U	1.2 UJ	0.01 U
Vanadium	35 J	38 J	40 J	28 J	25	29	0.01 U
Zinc	290 J	320 J	370 J	250 J	58	59	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4f
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0 2FT	SED-CSB-S1-0 2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		13000	0.20 U	6900 J	6200 J	8300 J	12000 J	15000 J
Antimony		2.5 UJ	0.020 U	9.2 J	8.6 J	6.3 J	6.8 J	1.8 J
Arsenic		7.8	0.010 U	35 J	31 J	38 J	25 J	28 J
Barium		140 J	0.0030 J	950 J	550 J	3300 J	1700 J	470 J
Beryllium		0.58	0.0040 U	1 UJ	0.96 UJ	1 UJ	1.2 UJ	1.2 UJ
Cadmium		0.63 U	0.0050 U	17 J	13 J	25 J	25 J	20 J
Calcium		4000	0.41 J	180000 J	180000 J	87000 J	100000 J	28000 J
Chromium		18 J	0.010 U	49 J	34 J	76 J	78 J	50 J
Cobalt		7.7	0.010 U	7.2 J	6.7 J	9.9 J	12 J	17 J
Copper		15	0.0062 J	5100 J	4600 J	11000 J	6700 J	1400 J
Cyanide, Total		0.69 U	0.010 U	1.2 UJ	1.1 UJ	1.2 UJ	1.7 UJ	1.7 UJ
Iron		18000	0.042 J	14000 J	12000 J	29000 J	25000 J	27000 J
Lead		16	0.0019 J	630 J	490 J	1000 J	750 J	270 J
Magnesium		2800	0.50 U	20000 J	20000 J	10000 J	11000 J	5500 J
Manganese		670 J	0.010 U	250 J	240 J	210 J	230 J	290 J
Mercury		0.023	0.00020 U	0.96 J	0.56 J	1.5 J	1.4 J	0.66 J
Molybdenum		0.68 J	0.010 U	7.2 J	6.8 J	4.3 J	4.8 J	3.4 J
Nickel		17	0.040 U	88 J	67 J	500 J	380 J	370 J
Potassium		1500 J	1.0 U	1700 J	1600 J	1700 J	2400 J	3000 J
Selenium		1.3 U	0.010 U	4.1 J	1.7 J	5.1 J	3.5 J	2.8 UJ
Silver		1.3 U	0.010 U	6.7 J	6.7 J	15 J	8.9 J	1.2 J
Sodium		71	0.39 J	340 UJ	310 UJ	270 UJ	290 UJ	300 UJ
Thallium		1.3 U	0.010 U	2.5 UJ	2.2 UJ	2.3 UJ	2.1 J	3.1 UJ
Vanadium		33	0.010 U	29 J	26 J	37 J	41 J	48 J
Zinc		63	0.023	2000 J	1600 J	7900 J	4800 J	2900 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-4f
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	SED-CSC-S2-0 2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0 2FT	SED-CSD-S2-0 2FT	SED-CSD-S3-0 2FT	SED-CSE-S1-0 2FT	SED-CSE-S2-0 2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		12000 J	9700 J	13000 J	16000 J	13000 J	15000 J	13000 J
Antimony		1.3 J	2.2 J	8.7 UJ	8.7 UJ	5.9 UJ	2.7 J	2 J
Arsenic		17 J	16 J	16 J	17 J	10 J	16 J	12 J
Barium		680 J	800 J	380 J	400 J	310 J	340 J	290 J
Beryllium		0.93 UJ	1 UJ	1.2 UJ	1.3 UJ	1 UJ	0.84 J	0.75 J
Cadmium		19 J	16 J	15 J	13 J	10 J	14 J	11 J
Calcium		23000 J	47000 J	28000 J	30000 J	26000 J	43000 J	80000 J
Chromium		93 J	47 J	56 J	60 J	67 J	71 J	49 J
Cobalt		12 J	9.7 J	12 J	12 J	8.8 J	10 J	9.2 J
Copper		2200 J	2100 J	740 J	730 J	320 J	570 J	350 J
Cyanide, Total		1.4 UJ	1.9 UJ	2.2 UJ	2.4 UJ	1.5 UJ	1.8 UJ	1.3 UJ
Iron		21000 J	24000 J	22000 J	25000 J	19000 J	24000 J	20000 J
Lead		330 J	480 J	260 J	230 J	170 J	310 J	190 J
Magnesium		3600 J	6400 J	6700 J	7500 J	6600 J	9200 J	13000 J
Manganese		240 J	330 J	250 J	320 J	270 J	310 J	320 J
Mercury		0.64 J	0.58 J	0.5 J	0.42 J	0.35 J	0.51 J	0.3 J
Molybdenum		2.2 J	1.7 UJ	3 UJ	2.6 UJ	1.7 UJ	2.6 J	1.6 J
Nickel		580 J	550 J	260 J	260 J	150 J	190 J	130 J
Potassium		2400 J	2100 J	2900 J	3200 J	2700 J	3100 J	2600 J
Selenium		13 UJ	2.4 UJ	2 UJ	2.5 UJ	2.9 UJ	2.6 UJ	1.5 UJ
Silver		1.8 J	1.6 J	4.3 UJ	4.3 UJ	2.9 UJ	1.1 J	0.67 J
Sodium		320 UJ	340 UJ	240 UJ	250 UJ	190 UJ	250 UJ	300 UJ
Thallium		2.6 UJ	3.5 UJ	4.3 UJ	4.3 UJ	2.9 UJ	1.9 J	2.6 UJ
Vanadium		36 J	34 J	44 J	51 J	37 J	51 J	40 J
Zinc		4500 J	3300 J	2500 J	2700 J	1800 J	2300 J	1800 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4f
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7471A/7470A/9010B Metals Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw	mg/kg dw
Compound								
Aluminum		11000 J	7800 J	14000 J	17000 J	8900 J	15000 J	12000 J
Antimony		6.1 UJ	R	2.6 J	2.5 J	6.6 J	3.2 UJ	1.3 J
Arsenic		9.3 J	8 J	19 J	15 J	35 J	8	7 J
Barium		190 J	150 J	250 J	270 J	700 J	230 J	210 J
Beryllium		0.9 UJ	0.53 J	0.85 J	0.89 J	1.3 UJ	0.8	0.7 J
Cadmium		7.7 J	7.4 J	47 J	14 J	17 J	0.38 J	0.34 J
Calcium		26000 J	11000 J	13000 J	11000 J	100000 J	18000 J	12000 J
Chromium		31 J	19 J	38 J	30 J	48 J	21 J	17 J
Cobalt		7.4 J	5.5 J	13 J	11 J	15 J	9.8	7.1 J
Copper		150 J	160 J	410 J	240 J	4200 J	20 J	17 J
Cyanide, Total		1.7 UJ	1.2 UJ	2.6 UJ	1.9 UJ	2.5 UJ	0.89 U	1.4 UJ
Iron		17000 J	14000 J	22000 J	26000 J	34000 J	22000 J	19000 J
Lead		140 J	110 J	320 J	110 J	530 J	23 J	22 J
Magnesium		7400 J	4100 J	6800 J	5300 J	7400 J	6500	5000 J
Manganese		170 J	170 J	230 J	510 J	370 J	720 J	770 J
Mercury		0.3 J	0.3 J	1.1 J	0.45 J	1 J	0.042	0.063 J
Molybdenum		3.2 J	0.7 J	3.7 J	0.76 J	17 J	0.37 J	0.49 J
Nickel		51 J	90 J	390 J	180 J	190 J	23	19 J
Potassium		2400 J	1600 J	2900 J	2700 J	2000 J	2300	1900 J
Selenium		3 UJ	2.3 UJ	4.8 UJ	3.7 UJ	3.8 J	1.8 U	2.5 UJ
Silver		3 UJ	2.3 UJ	4.8 UJ	3.7 UJ	7.3 J	1.8 U	2.5 UJ
Sodium		180 UJ	210 UJ	350 UJ	230 UJ	290 UJ	150 U	180 UJ
Thallium		3 UJ	2.3 UJ	4.8 UJ	3.7 UJ	5 UJ	1.8 U	2.5 UJ
Vanadium		37 J	25 J	51 J	41 J	45 J	36	30 J
Zinc		980 J	950 J	3700 J	1600 J	2400 J	95 J	82 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4f
Solutia
Sauget Area 1
Broad Scan Sediments
Method 6010B/7471A/7470A/9010B Metals Data

Compound	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	mg/kg dw	mg/l	mg/kg dw	mg/kg dw
Aluminum		11000 J	0.2 U	13000 J	19000 J
Antimony		1 J	0.02 U	3.8 UJ	R
Arsenic		6.5 J	0.01 U	6.9 J	7 J
Barium		160 J	0.013	170 J	220 J
Beryllium		0.6 J	0.004 U	0.64 J	1 J
Cadmium		0.26 J	0.005 U	0.32 J	0.65 J
Calcium		11000 J	24	13000 J	12000 J
Chromium		16 J	0.01 U	18 J	25 J
Cobalt		7.3 J	0.01 U	7.7 J	10 J
Copper		16 J	0.0038 J	16 J	23 J
Cyanide, Total		1 UJ	0.01 U	1 UJ	1.1 UJ
Iron		17000 J	0.05 U	18000 J	24000 J
Lead		16 J	0.005 U	17 J	26 J
Magnesium		3100 J	8	3400 J	5800 J
Manganese		560 J	0.0026 J	580 J	770 J
Mercury		0.046 J	0.0002 U	0.048 J	0.04 J
Molybdenum		0.35 J	0.01 U	0.43 J	0.53 J
Nickel		17 J	0.04 U	18 J	26 J
Potassium		1500 J	2.3	1700 J	2600 J
Selenium		1.9 UJ	0.01 U	1.9 UJ	2 UJ
Silver		1.9 UJ	0.01 U	1.9 UJ	2 UJ
Sodium		140 UJ	13	130 UJ	210 UJ
Thallium		1.9 UJ	0.01 U	1.9 UJ	2 UJ
Vanadium		28 J	0.01 U	31 J	44 J
Zinc		57 J	0.0072 J	61 J	96 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-4g

Full Scan Sediments
TOC Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-4g
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	BPL-ESED-S1-0.2FT	BPL-ESED-S1-0.2FTFD	BPL-ESED-S2-0.2FT	BPL-ESED-S3-0.2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		84000 J	50000 J	45000 J	33000 J	3600	4100	1 U
pH		7.12	6.93	7.06	6.74	—	—	—

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-4g
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0.2FTEB	SED-CSB-S1-0.2FT	SED-CSB-S1-0.2FTFD	SED-CSB-S2-0.2FT	SED-CSB-S3-0.2FT	SED-CSC-S1-0.2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		5200	---	100000 J	60000 J	95000 J	67000 J	95000 J
pH		---	---	6.77	6.66	6.64	6.6	6.87

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4g
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		70000 J	40000 J	140000 J	61000 J	75000 J	12000	23000 J
pH		6.78	6.85	6.71	6.87	6.81	7.31	6.92

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4g
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	SED-CSC-S2-0.2FT	SED-CSC-S3-0.2FT	SED-CSD-S1-0.2FT	SED-CSD-S2-0.2FT	SED-CSD-S3-0.2FT	SED-CSE-S1-0.2FT	SED-CSE-S2-0.2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Compound								
Total Organic Carbon		84000 J	89000 J	73000 J	72000 J	32000 J	92000 J	82000 J
pH		6.92	6.78	6.84	6.82	6.75	6.7	6.83

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-4g
Solutia
Sauget Area 1
Broad Scan Sediments
Method 9060 and SW9045 Data

	Sample ID	SED-RA2-S1-0 2FT	SED-RA2-S1-0 2FTFD	SED-RA2-S2-0 2FT
	Sample Date	10/08/99	10/08/99	10/09/99
	Units	mg/L	mg/L	mg/L
Compound				
Total Organic Carbon		13000 J	13000 J	20000 J
pH		6.68	6.92	7.24

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Full Scan Sediments
PCDD/PCDF Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-4h
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

	Sample ID	BPL-ESED-S1-0 2FT	BPL-ESED-S1-0 2FTFD	BPL-ESED-S2-0 2FT	BPL-ESED-S3-0 2FT	BSSED-PDC-DS-S-0-30IN	BSSED-PDC-US-N-0-20IN	BSSED-PDC-US-N-0-20INEB
	Sample Date	10/06/99	10/06/99	10/07/99	10/06/99	02/07/00	02/07/00	02/04/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		8.39 J	8.86 J	17.25 J	15.5 J	9.35	12.24	0.0000276
1,2,3,4,6,7,8,9-OCDF		0.236 J	0.234 J	0.658 J	0.756 J	0.0082	0.0074	0.0000077 U
1,2,3,4,6,7,8-HpCDD		0.225 J	0.251 J	0.425 J	0.443 J	0.106	0.0778	0.0000057 U
1,2,3,4,6,7,8-HpCDF		0.052 J	0.0576 J	0.126 J	0.159 J	0.0044	0.0031	0.0000046 U
1,2,3,4,7,8,9-HpCDF		0.0134 JM	0.0053 J	0.0117 J	0.0109 J	0.0002 U	0.0002 U	0.0000066 U
1,2,3,4,7,8-HxCDD		0.0027 JM	0.0034 J	0.0049 J	0.0041 JM	0.0015	0.0011	0.0000044 U
1,2,3,4,7,8-HxCDF		0.0049 J	0.0052 J	0.0092 J	0.0072 J	0.00049	0.00048	0.0000025 U
1,2,3,6,7,8-HxCDD		0.0078 J	0.0081 J	0.0162 J	0.013 J	0.0019	0.0013	0.0000041 U
1,2,3,6,7,8-HxCDF		0.0028 J	0.0031 J	0.0059 J	0.0041 J	0.00006 U	0.00026 M	0.0000023 U
1,2,3,7,8,9-HxCDD		0.0099 J	0.0096 J	0.0173 J	0.013 J	0.0041	0.0026	0.0000044 U
1,2,3,7,8,9-HxCDF		0.006 J	0.00039 JM	0.0036 J	0.00074 J	0.00008 U	0.00008 U	0.000003 U
1,2,3,7,8-PeCDD		0.0022 J	0.002 J	0.0035 J	0.0023 J	0.00058	0.00047	0.0000018 U
1,2,3,7,8-PeCDF		0.0019 JM	0.002 J	0.0027 J	0.0018 JM	0.00006 U	0.00039 JM	0.0000016 U
2,3,4,6,7,8-HxCDF		0.0038 JM	0.0051 J	0.0073 J	0.0064 J	0.00006 U	0.00038	0.0000048
2,3,4,7,8-PeCDF		0.0036 J	0.0043 J	0.0042 J	0.0029 J	0.00031	0.00031	0.0000017 U
2,3,7,8-TCDD		0.0013 J	0.001 JM	0.0122 J	0.0026 J	0.00021	0.00008 U	0.0000027 U
2,3,7,8-TCDF		0.0099 J	0.0104 J	0.0094 J	0.0062 J	0.00057	0.00051	0.0000028 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4h
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

	Sample ID	BSSED-PDC-US-N-0-20INFD	SED-CSB-0 2FTEB	SED-CSB-S1-0 2FT	SED-CSB-S1-0 2FTFD	SED-CSB-S2-0 2FT	SED-CSB-S3-0 2FT	SED-CSC-S1-0 2FT
	Sample Date	02/07/00	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/04/99
	Units	ug/kg	ug/l	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		12.39	0.0000276	1298.83 J	1169.13 J	3415.6 J	2362.98 J	283.53 J
1,2,3,4,6,7,8,9-OCDF		0.0098 J	0.000014 U	161.98 J	151.21 J	1126.74 J	806.88 J	93.75 J
1,2,3,4,6,7,8-HpCDD		0.111	0.0000119 U	131.19 J	99.99 J	396.91 J	265.54 J	31.72 J
1,2,3,4,6,7,8-HpCDF		0.0042	0.0000082 U	39.76 J	27.7 J	187.96 J	130.97 J	17.73 J
1,2,3,4,7,8,9-HpCDF		0.0002 U	0.0000107 U	3.27 J	2.65 J	13.14 J	8.73 J	0.663 J
1,2,3,4,7,8-HxCDD		0.0013	0.0000071 U	1.26 J	0.825 J	2.31 J	1.57 J	0.0916 J
1,2,3,4,7,8-HxCDF		0.00071	0.0000068 U	2.31 J	1.93 J	6.41 J	4.22 J	0.353 J
1,2,3,6,7,8-HxCDD		0.0019	0.0000067 U	4.62 J	3.21 J	13.18 J	8.49 J	0.657 J
1,2,3,6,7,8-HxCDF		0.00036	0.0000063 U	1.13 J	0.837 J	2.54 J	1.7 J	0.195 J
1,2,3,7,8,9-HxCDD		0.0039	0.0000069 U	3.42 J	2.73 J	7.54 J	5.6 J	0.322 J
1,2,3,7,8,9-HxCDF		0.0001 U	0.0000076 U	0.0296 J	0.0206 J	0.119 J	0.0583 J	0.0083 J
1,2,3,7,8-PeCDD		0.00069 M	0.0000082 U	0.975 J	0.583 J	1.48 J	1.97 J	0.0781 J
1,2,3,7,8-PeCDF		0.00085	0.0000057 U	0.272 J	0.224 J	0.842 J	0.603 J	0.0643 J
2,3,4,6,7,8-HxCDF		0.00049	0.0000067 U	1.6 J	1.26 J	3.91 J	2.36 J	0.25 J
2,3,4,7,8-PeCDF		0.0005	0.000006 U	0.691 J	0.546 J	1.28 J	0.835 J	0.097 J
2,3,7,8-TCDD		0.00021	0.000008 U	0.306 J	0.221 J	0.441 JM	0.63 JM	0.0176 JM
2,3,7,8-TCDF		0.00063	0.0000077 U	0.335 J	0.257 J	0.788 J	0.811 J	0.109 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4h
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

	Sample ID	SED-CSC-S2-0 2FT	SED-CSC-S3-0 2FT	SED-CSD-S1-0 2FT	SED-CSD-S2-0 2FT	SED-CSD-S3-0 2FT	SED-CSE-S1-0 2FT	SED-CSE-S2-0 2FT
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	10/04/99	10/06/99	10/06/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		483.88 J	880.64 J	209.03 J	182.84 J	91.25 J	60.65 J	91.45 J
1,2,3,4,6,7,8,9-OCDF		178.41 J	398.07 J	63.97 J	51.28 J	26.62 J	24.02 J	28.71 J
1,2,3,4,6,7,8-HpCDD		55.25 J	101.1 J	21.45 J	20.14 J	10.81 J	6.77 J	9.45 J
1,2,3,4,6,7,8-HpCDF		33.37 J	62.04 J	12.1 J	10.92 J	6.14 J	5.13 J	5.94 J
1,2,3,4,7,8,9-HpCDF		1.81 J	4.27 J	0.538 J	0.414 J	0.305 J	0.673 J	0.276 J
1,2,3,4,7,8-HxCDD		0.143 J	0.314 J	0.0968 J	0.107 J	0.0962 J	0.13 J	0.0574 J
1,2,3,4,7,8-HxCDF		0.915 J	1.36 J	0.297 J	0.245 J	0.166 J	0.364 J	0.127 J
1,2,3,6,7,8-HxCDD		1.64 J	2.79 J	0.587 J	0.529 J	0.396 J	0.704 J	0.282 J
1,2,3,6,7,8-HxCDF		0.328 J	0.698 J	0.178 J	0.146 J	0.118 J	0.222 J	0.116 J
1,2,3,7,8,9-HxCDD		0.587 J	1.03 J	0.318 J	0.34 J	0.363 J	0.415 J	0.176 J
1,2,3,7,8,9-HxCDF		0.0153 J	0.0466 J	0.0076 J	0.009 J	0.0074 J	0.0175 J	0.0082 J
1,2,3,7,8-PeCDD		0.135 J	0.219 J	0.0741 J	0.0785 J	0.0811 J	0.0696 J	0.0244 J
1,2,3,7,8-PeCDF		0.134 JM	0.151 J	0.0575 J	0.0569 J	0.0377 J	0.051 J	0.0268 J
2,3,4,6,7,8-HxCDF		0.479 J	1.09 J	0.233 J	0.182 J	0.153 J	0.274 J	0.13 J
2,3,4,7,8-PeCDF		0.188 J	0.25 J	0.0792 J	0.0624 J	0.0461 J	0.0658 J	0.0283 J
2,3,7,8-TCDD		0.0297 JM	0.0489 JM	0.0129 JM	0.0138 JM	0.0134 J	0.0172 JM	0.0075 J
2,3,7,8-TCDF		0.174 J	0.28 J	0.0983 J	0.0911 J	0.064 J	0.0921 J	0.0457 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4h
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

	Sample ID	SED-CSE-S3-0.2FT	SED-CSF-S1-0.2FT	SED-CSF-S2-0.2FT	SED-CSF-S3-0.2FT	SED-M-S1-0.2FT	SED-RA1-S1-0.2FT	SED-RA1-S2-0.2FT
	Sample Date	10/06/99	10/07/99	10/07/99	10/07/99	10/05/99	10/08/99	10/08/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		30.57 J	38.7 J	88.43 J	47.36 J	1210.54 J	3.47	4.95 J
1,2,3,4,6,7,8,9-OCDF		9.75 J	15.01 J	32.61 J	19.26 J	297.31 J	0.128	0.136 J
1,2,3,4,6,7,8-HpCDD		3.26 J	4.03 J	9.44 J	4.44 J	121.89 J	0.155	0.162 J
1,2,3,4,6,7,8-HpCDF		1.64 J	2.38 J	5.08 J	2.9 J	49.36 J	0.0254	0.0307 J
1,2,3,4,7,8,9-HpCDF		0.0956 J	0.198 J	0.32 J	0.157 J	4.09 J	0.0017 M	0.003 J
1,2,3,4,7,8-HxCDD		0.0232 JM	0.0228 J	0.0688 J	0.0291 J	0.754 J	0.0011	0.0018 J
1,2,3,4,7,8-HxCDF		0.053 J	0.0842 J	0.162 J	0.0874 J	2.23 J	0.0019 M	0.0029 J
1,2,3,6,7,8-HxCDD		0.113 J	0.141 J	0.32 J	0.159 J	3.41 J	0.0046	0.0044 J
1,2,3,6,7,8-HxCDF		0.0344 J	0.0325 J	0.0719 J	0.0367 J	0.996 J	0.00075 M	0.0011 JM
1,2,3,7,8,9-HxCDD		0.0825 J	0.0667 J	0.221 J	0.0911 J	2.07 J	0.0034	0.0048 J
1,2,3,7,8,9-HxCDF		0.0045 J	0.0085 J	0.0109 J	0.0223 J	0.0184 J	0.0002 U	0.00002 U
1,2,3,7,8-PeCDD		0.0147 J	0.0145 J	0.0389 J	0.0232 J	0.564 J	0.00092 M	0.0017 JM
1,2,3,7,8-PeCDF		0.0141 J	0.0118 J	0.0333 JM	0.0124 J	0.257 J	0.0002 U	0.00082 JM
2,3,4,6,7,8-HxCDF		0.0447 J	0.0503 J	0.0899 J	0.0473 J	1.45 J	0.0011 M	0.0018 J
2,3,4,7,8-PeCDF		0.0105 J	0.0147 J	0.0333 J	0.0179 J	0.581 J	0.00094 M	0.0011 JM
2,3,7,8-TCDD		0.004 J	0.0083 J	0.016 J	0.0055 J	0.193 JM	0.0035	0.00064 J
2,3,7,8-TCDF		0.0106 J	0.016 J	0.0448 J	0.0304 J	0.4 J	0.0013 J	0.0014 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-4h
Solutia
Sauget Area 1
Broad Scan Sediments
Method 8290 PCDD/PCDF Data

	Sample ID	SED-RA2-S1-0.2FT	SED-RA2-S1-0.2FTEB	SED-RA2-S1-0.2FTFD	SED-RA2-S2-0.2FT
	Sample Date	10/08/99	10/08/99	10/08/99	10/09/99
	Units	ug/kg	ug/l	ug/kg	ug/kg
Compound					
1,2,3,4,6,7,8,9-OCDD		9.19 J	0.000131	7.94 J	3.98 J
1,2,3,4,6,7,8,9-OCDF		0.0164	0.0000468	0.0122	0.107 J
1,2,3,4,6,7,8-HpCDD		0.144	0.0000138 M	0.136	0.128 J
1,2,3,4,6,7,8-HpCDF		0.0063	0.0000095	0.0054	0.0283 J
1,2,3,4,7,8,9-HpCDF		0.00057 M	0.0000024 U	0.0007 U	0.0021 JM
1,2,3,4,7,8-HxCDD		0.0023 M	0.0000019 U	0.0021	0.0014 JM
1,2,3,4,7,8-HxCDF		0.0012 M	0.0000012 U	0.00093 M	0.003 J
1,2,3,6,7,8-HxCDD		0.0035	0.0000019 U	0.0031	0.004 J
1,2,3,6,7,8-HxCDF		0.00062 M	0.0000011 U	0.0004 U	0.0013 J
1,2,3,7,8,9-HxCDD		0.0051	0.000002 U	0.005	0.0043 J
1,2,3,7,8,9-HxCDF		0.0004 U	0.0000015 U	0.0005 U	0.0002 UJ
1,2,3,7,8-PeCDD		0.0014	0.0000021 U	0.0015	0.0013 J
1,2,3,7,8-PeCDF		0.0005 M	0.0000012 U	0.0004 U	0.0011 J
2,3,4,6,7,8-HxCDF		0.00072 M	0.0000012 U	0.0004 U	0.0016 J
2,3,4,7,8-PeCDF		0.00067 M	0.0000012 U	0.00062 M	0.0013 J
2,3,7,8-TCDD		0.0004 U	0.0000014 U	0.0006 U	0.0005 JM
2,3,7,8-TCDF		0.00077 J	0.0000013 U	0.00075 J	0.0014 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-5

Summary Tables of Validated Analytical Data and Field/Equipment Blanks Industry Specific Sediments

APPENDIX C-5a

Industry Specific Sediments
Polychlorinated Biphenyl Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-BPL-S1-0-10IN	FASED-BPL-S1-0-10INEB	FASED-BPL-S2-0-10IN	FASED-BPL-S3-0-8IN	FASED-BPL-S4-0-10IN	FASED-BPL-S5-0-9IN	FASED-BPL-S6-0-11IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00	02/03/00
	Units	ug/kg dw	ug/l	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		20 U	0.5 U	22 U	24 U	22 U	22 U	22 U
Dichlorobiphenyl		3.9 U	0.1 U	4.3 U	4.8 U	4.4 U	4.3 U	4.3 U
Heptachlorobiphenyl		12 U	0.3 U	13 U	15 U	13 U	13 U	13 U
Hexachlorobiphenyl		7.9 U	0.2 U	8.8 U	9.8 U	8.9 U	8.7 U	8.8 U
Monochlorobiphenyl		3.9 U	0.1 U	4.3 U	4.8 U	4.4 U	4.3 U	4.3 U
Nonachlorobiphenyl		20 U	0.5 U	22 U	24 U	22 U	22 U	22 U
Octachlorobiphenyl		12 U	0.3 U	13 U	15 U	13 U	13 U	13 U
Pentachlorobiphenyl		7.9 U	0.2 U	8.8 U	9.8 U	8.9 U	8.7 U	8.8 U
Tetrachlorobiphenyl		7.9 U	0.2 U	8.8 U	9.8 U	8.9 U	8.7 U	8.8 U
Trichlorobiphenyl		3.9 U	0.1 U	4.3 U	4.8 U	4.4 U	4.3 U	4.3 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-BPL-S6-0-11INFD	FASED-BPL-S7-0-9IN	FASED-BPL-S8-0-9IN	FASED-CSB-S10W-0-9IN	FASED-CSB-S10W-0-9INFD	FASED-CSB-S1W-0-25IN	FASED-CSB-S2-0-23IN
	Sample Date	02/03/00	02/03/00	02/03/00	02/02/00	02/02/00	02/01/00	02/01/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		24 U	22 U	24 U	100 U	70 J	730	2300 U
Dichlorobiphenyl		4.8 U	4.4 U	4.8 U	20 U	19 U	100 U	460 U
Heptachlorobiphenyl		14 U	13 U	14 U	700	860	2100	1400 U
Hexachlorobiphenyl		9.7 U	8.9 U	9.7 U	1200	1500	6600	3400
Monochlorobiphenyl		4.8 U	4.4 U	4.8 U	20 U	19 U	100 U	460 U
Nonachlorobiphenyl		24 U	22 U	24 U	100 U	72 J	510 U	2300 U
Octachlorobiphenyl		14 U	13 U	14 U	190	360	380	1400 U
Pentachlorobiphenyl		9.7 U	8.9 U	9.7 U	740	800	7300	3800
Tetrachlorobiphenyl		9.7 U	8.9 U	9.7 U	320	680	5400	5700
Trichlorobiphenyl		4.8 U	4.4 U	4.8 U	20	35	840	1400
Total PCBs		ND	ND	ND	3170	4377	23350	14300

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSB-S3-0-26IN	FASED-CSB-S4W-0-23IN	FASED-CSB-S5-0-22IN	FASED-CSB-S6-0-20IN	FASED-CSB-S7-0-18IN	FASED-CSB-S8E-0-22IN	FASED-CSB-S9W-0-9IN
	Sample Date	02/01/00	02/01/00	02/01/00	02/02/00	02/02/00	02/02/00	02/02/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		140 J	280 J	620	250 J	18 J	150	490 U
Dichlorobiphenyl		72	66 U	210	180	9.1	27 U	97 U
Heptachlorobiphenyl		96 U	170 J	500	160 J	15 U	57 J	490
Hexachlorobiphenyl		400	1300	2800	1100	22	360	1800
Monochlorobiphenyl		32 U	66 U	63 U	62 U	5	27 U	97 U
Nonachlorobiphenyl		160 U	330 U	320 U	310 U	25 U	140 U	490 U
Octachlorobiphenyl		96 U	200 U	190 U	190 U	15 U	82 U	100 J
Pentachlorobiphenyl		290	3300	4800	3500	60	700	1900
Tetrachlorobiphenyl		650	7500	3400	14000	240	750	16000
Trichlorobiphenyl		330	2300	1200	5100	68	55	2200
Total PCBs		1882	14850	13530	24290	422.1	2072	22490

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSC-S1-0-13IN	FASED-CSC-S10-0-28IN	FASED-CSC-S11-0-25IN	FASED-CSC-S11-0-25INFD	FASED-CSC-S12E-0-18IN	FASED-CSC-S2-0-28IN	FASED-CSC-S2-0-28INFD
	Sample Date	01/31/00	02/01/00	02/01/00	02/01/00	02/01/00	01/31/00	01/31/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		500 J	320 J	1800	4300 U	3600	540 J	1900
Dichlorobiphenyl		230 U	130 U	260	850 U	66 U	140 U	140 J
Heptachlorobiphenyl		690 U	250 J	1000	2600 U	4300	420 U	1600
Hexachlorobiphenyl		780	2400	6300	1600 J	14000	970	6500
Monochlorobiphenyl		230 U	130 U	260	850 U	66 U	140 U	150 U
Nonachlorobiphenyl		1200 U	680 J	1000 U	4300 U	900	700 U	350 J
Octachlorobiphenyl		690 U	410 U	600 U	2600 U	1000	420 U	320 J
Pentachlorobiphenyl		1100	3600	9300	2700	13000	1700	9000
Tetrachlorobiphenyl		460 U	2800	7300	1700 U	11000	730	6400
Trichlorobiphenyl		230 U	960	1000	850 U	450	190	1800
Total PCBs		2380	11010	27220	4300	48250	4130	28010

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSC-S3-0-20IN	FASED-CSC-S4-0-22IN	FASED-CSC-S5W-0-26IN	FASED-CSC-S6W-0-26IN	FASED-CSC-S7-0-29IN	FASED-CSC-S8-0-16IN	FASED-CSC-S9-0-27IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/31/00	01/31/00	02/01/00	02/01/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		1400 J	260	1200	1100	410 J	490 J	2000 J
Dichlorobiphenyl		330 U	38 U	130 U	50 U	140	180 U	850 J
Heptachlorobiphenyl		1000 U	120	630	700	360 U	540 U	2900 U
Hexachlorobiphenyl		2800	1000	4100	3500	480	2000	7800
Monochlorobiphenyl		330 U	38 U	130 U	50 U	120 U	180 U	940 U
Nonachlorobiphenyl		1700 U	190	680 U	140 J	600 U	900 U	4800 U
Octachlorobiphenyl		1000 U	110 U	410 U	190	360 U	540 U	2900 U
Pentachlorobiphenyl		3800	2100	3900	4600	240 U	2800	9100
Tetrachlorobiphenyl		1900	950	3500	2500	240 U	1500	4700
Trichlorobiphenyl		570	110	300	80	240	420	2300
Total PCBs		10470	4730	13630	12810	1270	7210	26750

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSC-S9-0-27INFD	FASED-CSD-S1W-0-24IN	FASED-CSD-S2-0-15IN	FASED-CSD-S3-0-21IN	FASED-CSD-S4-0-23IN	FASED-CSD-S5-0-10IN	FASED-CSD-S6E-0-13IN
	Sample Date	02/01/00	02/02/00	01/27/00	01/27/00	01/27/00	01/31/00	01/28/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		470	140 U	720	370	780	8.7 J	12 J
Dichlorobiphenyl		67	27 U	66	53 U	57 J	4.5 U	5.5 U
Heptachlorobiphenyl		340	82 U	210	270	480	14 U	17 U
Hexachlorobiphenyl		2600	96	720	2200	1800	18	39
Monochlorobiphenyl		60 U	27 U	49 U	53 U	61 U	4.5 U	5.5 U
Nonachlorobiphenyl		120 J	140 U	670	260 J	520	23 U	28 U
Octachlorobiphenyl		61 J	82 U	57 J	160 U	69 J	14 U	17 U
Pentachlorobiphenyl		4000	110	440	3000	4300	9.6	66
Tetrachlorobiphenyl		2800	55 U	610	1800	2200	9.2 U	11 U
Trichlorobiphenyl		380	27 U	470	190	410	4.5 U	5.5 U
Total PCBs		10838	206	3963	8090	10616	36.3	117

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSD-S7-0-33IN	FASED-CSD-S8-0-29IN	FASED-CSD-S9W-0-23IN	FASED-CSE-S1-0-12IN	FASED-CSE-S10W-0-27IN	FASED-CSE-S11W-0-22IN	FASED-CSE-S12-0-21IN
	Sample Date	01/31/00	01/31/00	01/31/00	01/19/00	01/24/00	01/24/00	01/24/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		1800	540 J	320	270 U	360 U	150 U	1400 U
Dichlorobiphenyl		280 U	120 U	52 U	54 U	72 U	30 U	280 U
Heptachlorobiphenyl		860 U	370 U	160 U	160 U	220 U	92 U	860 U
Hexachlorobiphenyl		1400	140 J	470	110 U	150 U	62 U	580 U
Monochlorobiphenyl		280 U	120 U	52 U	54 U	72 U	30 U	280 U
Nonachlorobiphenyl		720 J	620 U	110 J	270 U	360 U	150 U	1400 U
Octachlorobiphenyl		860 U	370 U	160 U	160 U	220 U	92 U	860 U
Pentachlorobiphenyl		490 J	250 U	450	110 U	150 U	62 U	580 U
Tetrachlorobiphenyl		580 U	250 U	70 J	110 U	150 U	62 U	580 U
Trichlorobiphenyl		1400	250	61	54 U	72 U	30 U	280 U
Total PCBs		5810	930	1481	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSE-S13E-0-21IN	FASED-CSE-S14W-0-31IN	FASED-CSE-S15-0-19IN	FASED-CSE-S16E-0-21IN	FASED-CSE-S17-0-28IN	FASED-CSE-S18-0-25IN	FASED-CSE-S19E-0-28IN
	Sample Date	01/24/00	01/24/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		120 U	2000 U	1700 U	660	270 U	1600 U	26 U
Dichlorobiphenyl		24 U	400 U	330 U	66 U	53 U	320 U	5.2 U
Heptachlorobiphenyl		100	1200 U	1000 U	160 J	160 U	980 U	16 U
Hexachlorobiphenyl		300	820 U	670 U	2000	110 U	660 U	10 U
Monochlorobiphenyl		24 U	400 U	330 U	66 U	53 U	320 U	5.2 U
Nonachlorobiphenyl		120 U	2000 U	1700 U	28 J	140 J	1600 U	26 U
Octachlorobiphenyl		71 U	1200 U	1000 U	200 U	160 U	980 U	16 U
Pentachlorobiphenyl		50 U	820 U	670 U	4300	48 J	660 U	10 U
Tetrachlorobiphenyl		50 U	820 U	670 U	1500	110 U	660 U	10 U
Trichlorobiphenyl		24 U	400 U	330 U	110	53 U	320 U	5.2 U
Total PCBs		400	ND	ND	8758	188	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

Compound	Sample ID	FASED-CSE-S19E-0-28INFD	FASED-CSE-S20E-0-33IN	FASED-CSE-S21-0-28IN	FASED-CSE-S22E-0-26IN	FASED-CSE-S23-0-23IN	FASED-CSE-S24W-0-27IN	FASED-CSE-S25W-0-29IN
	Sample Date	01/25/00	01/25/00	01/26/00	01/26/00	01/26/00	01/26/00	01/26/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Decachlorobiphenyl		14 J	24 U	57	20 J	3600 U	58	24 U
Dichlorobiphenyl		5.1 U	4.8 U	5.9 U	4.9 U	720 U	5.1 J	4.6 U
Heptachlorobiphenyl		15 U	15 U	28	15 U	2200 U	73	14 U
Hexachlorobiphenyl		17	9.8 U	220	58	1400 U	340	19
Monochlorobiphenyl		5.1 U	4.8 U	5.9 U	4.9 U	720 U	5.4 U	4.6 U
Nonachlorobiphenyl		14 J	24 U	33	25 U	3600 U	26 J	13 J
Octachlorobiphenyl		15 U	15 U	18 U	15 U	2200 U	20	14 U
Pentachlorobiphenyl		26	9.8 U	360	92	1400 U	730	20
Tetrachlorobiphenyl		10 U	9.8 U	96	15	1400 U	400	9.4 U
Trichlorobiphenyl		5.1 U	4.8 U	6.3	4.9 U	720 U	50	4.6 U
Total PCBs		71	ND	800.3	185	ND	1702.1	52

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSE-S26E-0-12IN	FASED-CSE-S2W-0-19IN	FASED-CSE-S3-0-13IN	FASED-CSE-S4E-0-17IN	FASED-CSE-S5E-0-24IN	FASED-CSE-S6W-0-35IN	FASED-CSE-S6W-0-35INFD
	Sample Date	01/27/00	01/19/00	01/20/00	01/20/00	01/20/00	01/20/00	01/20/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		22 U	500 U	120 U	110 U	1600 U	89 J	210
Dichlorobiphenyl		4.4 U	98 U	24 U	22 U	320 U	20 J	43
Heptachlorobiphenyl		13 U	300 U	74 U	68 U	960 U	71 U	43 J
Hexachlorobiphenyl		4.2 J	200 U	49 U	45 U	640 U	400	570
Monochlorobiphenyl		4.4 U	98 U	24 U	22 U	320 U	24	32
Nonachlorobiphenyl		22 U	500 U	56 J	110 U	1600 U	120 U	120 J
Octachlorobiphenyl		13 U	300 U	74 U	68 U	960 U	71 U	75 U
Pentachlorobiphenyl		3.8 J	200 U	49 U	45 U	640 U	680	930
Tetrachlorobiphenyl		8.9 U	200 U	49 U	45 U	640 U	250	380
Trichlorobiphenyl		4.4 U	98 U	24 U	22 U	320 U	24 U	76
Total PCBs		8	ND	56	ND	ND	1463	2404

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSE-S7W-0-13IN	FASED-CSE-S8-0-32IN	FASED-CSE-S9-0-31IN	FASED-CSF-S10-0-9IN	FASED-CSF-S11W-0-10IN	FASED-CSF-S12-0-15IN	FASED-CSF-S12-0-15INFD
	Sample Date	01/20/00	01/21/00	01/21/00	01/12/00	01/12/00	01/12/00	01/12/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		790 U	240 U	310 U	25 U	29 U	28 U	28 U
Dichlorobiphenyl		160 U	48 U	62 U	4.9 U	5.7 U	5.6 U	5.5 U
Heptachlorobiphenyl		480 U	90 J	190 U	15 U	17 U	17 U	17 U
Hexachlorobiphenyl		640	520	230	10 U	12 U	11 U	11 U
Monochlorobiphenyl		160 U	48 U	62 U	4.9 U	5.7 U	5.6 U	5.5 U
Nonachlorobiphenyl		490 J	240 U	310 U	25 U	29 U	28 U	28 U
Octachlorobiphenyl		480 U	140 U	190 U	15 U	17 U	17 U	17 U
Pentachlorobiphenyl		1200	710	500	10 U	12 U	11 U	11 U
Tetrachlorobiphenyl		320 U	140	130 U	10 U	12 U	11 U	11 U
Trichlorobiphenyl		160 U	48 U	62 U	4.9 U	5.7 U	5.6 U	5.5 U
Total PCBs		2330	1460	730	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S13W-0-15IN	FASED-CSF-S14W-0-15IN	FASED-CSF-S15W-0-28IN	FASED-CSF-S16-0-23IN	FASED-CSF-S17W-0-16IN	FASED-CSF-S18E-0-14IN	FASED-CSF-S19-0-13IN
	Sample Date	01/12/00	01/12/00	01/13/00	01/13/00	01/13/00	01/13/00	01/17/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		33 J	57 J	310 U	30 U	160	52	85 J
Dichlorobiphenyl		7 UJ	6.7 UJ	61 U	5.9 U	6.1 U	6.2 U	6.6 UJ
Heptachlorobiphenyl		21 UJ	13 J	180 U	18 U	15 J	19 U	51 J
Hexachlorobiphenyl		14 UJ	14 UJ	120 U	12 U	12 U	13 U	13 UJ
Monochlorobiphenyl		7 UJ	6.7 UJ	61 U	5.9 U	6.1 U	6.2 U	6.6 UJ
Nonachlorobiphenyl		35 UJ	24 J	310 U	30 U	24 J	21 J	32 J
Octachlorobiphenyl		21 UJ	20 UJ	180 U	18 U	12 J	19 U	6.6 J
Pentachlorobiphenyl		160 J	250 J	64 J	13	220	170	720 J
Tetrachlorobiphenyl		48 J	93 J	120 U	12 U	44	18	340 J
Trichlorobiphenyl		7 UJ	6.7 UJ	61 U	5.9 U	6.1 U	6.2 U	8.3 J
Total PCBs		241	437	64	13	475	261	1242.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S1E-0-8IN	FASED-CSF-S2-0-7IN	FASED-CSF-S20-0-12IN	FASED-CSF-S21-0-13IN	FASED-CSF-S21-0-13INFD	FASED-CSF-S22E-0-20IN	FASED-CSF-S23-0-15IN
	Sample Date	01/11/00	01/11/00	01/17/00	01/17/00	01/17/00	01/17/00	01/17/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		25 U	450 U	50	96	150 J	76	93 J
Dichlorobiphenyl		4.9 U	89 U	5.6 U	5.9 U	6.7 UJ	5.7 U	6.3 UJ
Heptachlorobiphenyl		15 U	270 U	13 J	15 J	31 J	49	62 J
Hexachlorobiphenyl		10 U	180 U	11 U	12 U	14 UJ	12 U	13 UJ
Monochlorobiphenyl		4.9 U	89 U	5.6 U	5.9 U	6.7 UJ	5.7 U	6.3 UJ
Nonachlorobiphenyl		25 U	250 J	28 U	37	50 J	28 J	35 J
Octachlorobiphenyl		15 U	270 U	17 U	18 U	14 J	5.8 J	21 J
Pentachlorobiphenyl		10 U	140 J	300	310	420 J	680	770 J
Tetrachlorobiphenyl		10 U	180 U	93	65	110 J	250	400 J
Trichlorobiphenyl		4.9 U	89 U	5.6 U	5.9 U	6.7 UJ	6.4	16 J
Total PCBs		ND	390	456	523	775	1095.2	1397

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S24W-0-13IN	FASED-CSF-S25E-0-10IN	FASED-CSF-S26W-0-13IN	FASED-CSF-S27E-0-16IN	FASED-CSF-S28-0-10IN	FASED-CSF-S29W-0-10IN	FASED-CSF-S30N-0-8IN
	Sample Date	01/17/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		32 J	190 J	75	98	460 J	24 UJ	15 J
Dichlorobiphenyl		6.5 U	7.2 UJ	5.4 U	6 U	61 UJ	4.8 UJ	5.2 UJ
Heptachlorobiphenyl		20 U	50 J	40	110	260 J	15 UJ	16 UJ
Hexachlorobiphenyl		13 U	19 J	11 U	12 U	120 UJ	9.8 UJ	10 UJ
Monochlorobiphenyl		6.5 U	7.2 UJ	5.4 U	6 U	61 UJ	4.8 UJ	5.2 UJ
Nonachlorobiphenyl		33 U	67 J	26 J	33	270 J	24 UJ	20 J
Octachlorobiphenyl		20 U	20 J	11 J	27	180 UJ	15 UJ	16 UJ
Pentachlorobiphenyl		160	550 J	330	1100	3700 J	9.8 UJ	10 UJ
Tetrachlorobiphenyl		13 U	150 J	91	420	1600 J	9.8 UJ	10 UJ
Trichlorobiphenyl		6.5 U	7.2 UJ	5.4 U	17	61 UJ	4.8 UJ	5.2 UJ
Total PCBs		192	1046	573	1805	6290	ND	35

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S31N-0-13IN	FASED-CSF-S32S-0-11IN	FASED-CSF-S32S-0-11INFD	FASED-CSF-S33-0-13IN	FASED-CSF-S34S-0-14IN	FASED-CSF-S35S-0-21IN	FASED-CSF-S36N-0-12IN
	Sample Date	01/18/00	01/18/00	01/18/00	01/18/00	01/18/00	02/02/00	01/18/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		560 UJ	130 U	250 U	24 J	120 U	120 U	25
Dichlorobiphenyl		110 UJ	26 U	50 U	6.1 U	24 U	23 U	4.9 U
Heptachlorobiphenyl		330 UJ	78 U	150 U	14 J	74 U	69 U	40
Hexachlorobiphenyl		220 UJ	52 U	100 U	6.4 J	49 U	46 U	10 U
Monochlorobiphenyl		110 UJ	26 U	50 U	6.1 U	24 U	23 U	4.9 U
Nonachlorobiphenyl		560 UJ	130 U	250 U	31 U	120 U	120 U	25 U
Octachlorobiphenyl		330 UJ	78 U	150 U	18 U	74 U	69 U	23
Pentachlorobiphenyl		220 UJ	87	100 U	78	49 U	46 U	170
Tetrachlorobiphenyl		220 UJ	52 U	100 U	9.3 J	49 U	46 U	39
Trichlorobiphenyl		110 UJ	26 U	50 U	6.1 U	24 U	23 U	4.9 U
Total PCBs		ND	87	ND	131.7	ND	ND	297

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S36N-0-12INFD	FASED-CSF-S37N-0-13IN	FASED-CSF-S38S-0-14IN	FASED-CSF-S39S-0-26IN	FASED-CSF-S3E-0-6IN	FASED-CSF-S4-0-7IN	FASED-CSF-S40-0-20IN
	Sample Date	01/18/00	01/18/00	01/19/00	01/19/00	01/11/00	01/11/00	01/19/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound								
Decachlorobiphenyl		250 U	50 U	15 J	60	22 U	22 U	46 UJ
Dichlorobiphenyl		48 U	9.8 U	4.6 U	6.1 U	4.4 U	4.4 U	9.2 UJ
Heptachlorobiphenyl		150 U	30 U	8.1 J	20	14 U	13 U	28 UJ
Hexachlorobiphenyl		98 U	13 J	9.3 U	12 U	9 U	8.9 U	19 UJ
Monochlorobiphenyl		48 U	9.8 U	4.6 U	6.1 UJ	4.4 U	4.4 U	9.2 UJ
Nonachlorobiphenyl		250 U	50 U	23 U	22 J	22 U	22 U	46 UJ
Octachlorobiphenyl		150 U	30 U	14 U	18 UJ	14 U	13 U	28 UJ
Pentachlorobiphenyl		98 U	20	140	340 J	9 U	8.9 U	23 J
Tetrachlorobiphenyl		98 U	20 U	100	120 J	9 U	8.9 U	19 UJ
Trichlorobiphenyl		48 U	9.8 U	7.4	6.1 U	4.4 U	4.4 U	9.2 UJ
Total PCBs		ND	33	270.5	562	ND	ND	23

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Table C-5a
Solutia
Sauget Area 1
Developed Area, Undeveloped Area, and Borrow Pit Lake Industry Specific Sediments
Method 680 Polychlorinated Biphenyl Data

	Sample ID	FASED-CSF-S5W-0-10IN	FASED-CSF-S6E-0-10IN	FASED-CSF-S7E-0-11IN	FASED-CSF-S8-0-15IN	FASED-CSF-S9-0-11IN
	Sample Date	01/11/00	01/11/00	01/11/00	01/12/00	01/12/00
	Units	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw	ug/kg dw
Compound						
Decachlorobiphenyl		24 U	24 U	23 U	24 U	29 U
Dichlorobipbenyl		4.8 U	4.7 U	4.5 U	4.8 U	5.7 U
Heptachlorobiphenyl		14 U	14 U	14 U	15 U	17 U
Hexachlorobiphenyl		9.7 U	9.6 U	9.2 U	9.8 U	12 U
Monochlorobiphenyl		4.8 U	4.7 U	4.5 U	4.8 U	5.7 U
Nonachlorobiphenyl		10 J	24 U	23 U	24 U	29 U
Octachlorobiphenyl		14 U	14 U	14 U	15 U	17 U
Pentachlorobiphenyl		9.7 U	9.6 U	9.2 U	9.8 U	12 U
Tetrachlorobiphenyl		9.7 U	9.6 U	9.2 U	9.8 U	12 U
Trichlorobiphenyl		4.8 U	4.7 U	4.5 U	4.8 U	5.7 U
Total PCBs		10	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-6

Summary Tables of Validated Analytical Data and Filed/Equipment Blanks Surface Water

Surface Water
Volatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-6a
Solutia
Sauget Area 1
Surface Water
Method 8260B Volatile Organic Compound Data

Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
Sample Date	10/05/99	10/05/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	18 J	13 J	14 J	50 U	14 J	18 J	13 J
Benzene	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	2.8 J	5.0 U	5.0 U	5.0 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride (Dichloromethane)	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Total VOCs	18	13	14	2.8	14	18	13

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6a
Solutia
Sauget Area 1
Surface Water
Method 8260B Volatile Organic Compound Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,1,1-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,1-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,2-Dichloroethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
1,2-Dichloropropane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone		10 J	11 J	17 J	50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.7
Bromodichloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Bromoform		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Carbon tetrachloride		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Chlorobenzene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Chloroethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Dibromochloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Ethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Tetrachloroethene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Toluene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Total VOCs		10	11	17	ND	ND	ND	1.7

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

O'BRIEN & GERE ENGINEERS, INC.

Table C-6a
Solutia
Sauget Area 1
Surface Water
Method 8260B Volatile Organic Compound Data

Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,1,1-Trichloroethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
1,1,2-Trichloroethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
1,1-Dichloroethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
1,1-Dichloroethene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
1,2-Dichloroethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
1,2-Dichloropropane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
2-Butanone (MEK)	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	50 U	50 U	50 U	50 U	50 U	50 U	26 J
Benzene	1.2 U	1.2 U	1.2 U	1.2 U	0.3 J	1.2 U	1.2 U
Bromodichloromethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Bromoform	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Bromomethane	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Carbon tetrachloride	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Chlorobenzene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Dibromochloromethane	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Ethylbenzene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Methylene chloride (Dichloromethane)	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Styrene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Tetrachloroethene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Toluene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Trichloroethene	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes, Total	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
cis-1,3-Dichloropropene	1 U	1.0 U	1 U	1 U	1 U	1.0 U	1 U
trans-1,3-Dichloropropene	5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Total VOCs	ND	ND	ND	ND	0.3	ND	26

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6a
Solutia
Sauget Area 1
Surface Water
Method 8260B Volatile Organic Compound Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
1,1,1-Trichloroethane		5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane		5 U	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	5 U	5 U	5 U
1,1-Dichloroethane		5 U	5 U	5 U	5 U
1,1-Dichloroethene		5 U	5 U	5 U	5 U
1,2-Dichloroethane		5 U	5 U	5 U	5 U
1,2-Dichloropropane		5 U	5 U	5 U	5 U
2-Butanone (MEK)		25 U	25 U	25 U	25 U
2-Hexanone		25 U	25 U	25 U	25 U
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U
Acetone		50 U	50 U	50 U	50 U
Benzene		1.2 U	1.2 U	1.2 U	1.2 U
Bromodichloromethane		5 U	5 U	5 U	5 U
Bromoform		5 U	5 U	5 U	5 U
Bromomethane		9.8 U	9.8 U	9.8 U	9.8 U
Carbon disulfide		5 U	5 U	5 U	5 U
Carbon tetrachloride		5 U	5 U	5 U	5 U
Chlorobenzene		5 U	5 U	5 U	5 U
Chloroethane		10 U	10 U	10 U	10 U
Chloroform		5 U	5 U	5 U	5 U
Chloromethane		10 U	10 U	10 U	10 U
Cis/Trans-1,2-Dichloroethene		5 U	5 U	5 U	5 U
Dibromochloromethane		5 U	5 U	5 U	5 U
Ethylbenzene		5 U	5 U	5 U	5 U
Methylene chloride (Dichloromethane)		4.7 U	4.7 U	4.7 U	4.7 U
Styrene		5 U	5 U	5 U	5 U
Tetrachloroethene		5 U	5 U	5 U	5 U
Toluene		5 U	5 U	5 U	5 U
Trichloroethene		2.7 U	2.7 U	2.7 U	2.7 U
Vinyl chloride		10 U	10 U	10 U	10 U
Xylenes, Total		5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene		1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene		5 U	5 U	5 U	5 U
Total VOCs		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-6b

Surface Water Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound							
Butylbenzylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles	ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U	1.2 J	0.7 J	10 U
Fluorene		1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Hexachlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	0.67 J	0.7 J	10 U
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	0.87 J	10 U	10 U
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		ND	ND	ND	ND	2.74	1.4	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,4-Trichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U	20 U	20 U	R
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1.0 U	1 UJ	1 U	1 U	1.0 UJ	1 UJ
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Benzo(a)anthracene		10 U	10 U	0.62 J	10 U	10 U	10 UJ	10 UJ
Benzo(a)pyrene		10 U	10 U	1.1 J	0.77 J	10 U	10 UJ	10 UJ
Benzo(b)fluoranthene		10 U	10 U	0.95 J	0.66 J	10 U	10 UJ	10 UJ
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Benzo(k)fluoranthene		10 U	10 U	1.7 J	0.76 J	10 U	10 UJ	10 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Butylbenzylphthalate		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Carbazole		10 U	10 U	3.4 U	3.4 U	3.4 U	10 U	10 UJ
Chrysene		10 U	10 U	0.74 J	10 U	10 U	10 UJ	10 UJ
Di-n-butylphthalate		10 U	10 U	0.3 J	10 U	0.3 J	10 UJ	10 UJ
Di-n-octylphthalate		10 U	10 U	1.1 J	10 U	10 U	10 UJ	10 U
Dibenzo(a,h)anthracene		10 U	10 U	1.2 J	0.81 J	10 U	10 UJ	10 UJ
Dibenzofuran		10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Diethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Fluorene		1 U	1.0 U	1 U	1 U	1 U	1.0 U	1 UJ
Hexachlorobenzene		10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Hexachlorobutadiene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Hexachlorocyclopentadiene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane		1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Isophorone		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5.0 U	5 U	5 U	5 U	5.0 UJ	5 UJ
Naphthalene		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5.0 U	5 U	5 U	5 U	5.0 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Phenol		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
bis(2-Chloroethoxy)methane		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether		10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate		1.8 U	1.8 U	0.51 J	1.2 J	0.48 J	1.8 UJ	1.8 UJ
Total Semivolatiles		ND	ND	8.22	4.2	0.78	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
1,2,4-Trichlorobenzene		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
2,2'-Oxybis(1-Chloropropane)		10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol		10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol		2.1 U	2.1 U	2.1 U	2.1 U
2,4-Dichlorophenol		10 U	10 U	10 U	10 U
2,4-Dinitrophenol		14 U	14 U	14 U	14 U
2,4-Dinitrotoluene		10 U	10 U	10 U	10 U
2,6-Dinitrotoluene		10 U	10 U	10 U	10 U
2-Chloronaphthalene		10 U	10 U	10 U	10 U
2-Chlorophenol		10 U	10 U	10 U	10 U
2-Methylnaphthalene		10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)		10 U	10 U	10 U	10 U
2-Nitroaniline		50 U	50 U	50 U	50 U
2-Nitrophenol		10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine		20 U	20 U	20 U	20 U
3-Methylphenol/4-Methylphenol		10 U	10 U	10 U	10 U
3-Nitroaniline		50 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol		13 U	13 U	13 U	13 U
4-Bromophenylphenyl ether		1 U	1 U	1 U	1 U
4-Chloro-3-methylphenol		10 U	10 U	10 U	10 U
4-Chloroaniline		20 U	20 U	20 U	20 U
4-Chlorophenylphenyl ether		10 U	10 U	10 U	10 U
4-Nitroaniline		50 U	50 U	50 U	50 U
4-Nitrophenol		50 U	50 U	50 U	50 U
Acenaphthene		10 U	10 U	10 U	10 U
Acenaphthylene		10 U	10 U	10 U	10 U
Anthracene		10 U	10 U	10 U	10 U
Benzo(a)anthracene		10 U	10 U	10 U	10 U
Benzo(a)pyrene		10 U	10 U	10 U	10 U
Benzo(b)fluoranthene		10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene		10 U	10 U	10 U	10 U
Benzo(k)fluoranthene		10 U	10 U	10 U	10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6b
Solutia
Sauget Area 1
Surface Water
Method 8270C Semivolatile Organic Compound Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
Butylbenzylphthalate		10 U	10 U	10 U	10 U
Carbazole		10 U	10 U	10 U	10 U
Chrysene		10 U	10 U	10 U	10 U
Di-n-butylphthalate		10 U	10 U	10 U	10 U
Di-n-octylphthalate		10 U	10 U	10 U	10 U
Dibenzo(a,h)anthracene		10 U	10 U	10 U	10 U
Dibenzofuran		10 U	10 U	10 U	10 U
Diethylphthalate		10 U	10 U	10 U	10 U
Dimethylphthalate		10 U	10 U	10 U	10 U
Fluoranthene		10 U	10 U	10 U	10 U
Fluorene		1 U	1 U	1 U	1 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		1.9 U	1.9 U	1.9 U	1.9 U
Indeno(1,2,3-cd)pyrene		10 U	10 U	10 U	10 U
Isophorone		10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine		10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine		5 U	5 U	5 U	5 U
Naphthalene		10 U	10 U	10 U	10 U
Nitrobenzene		3.5 U	3.5 U	3.5 U	3.5 U
Pentachlorophenol		5 U	5 U	5 U	5 U
Phenanthrene		10 U	10 U	10 U	10 U
Phenol		10 U	10 U	10 U	10 U
Pyrene		10 U	10 U	10 U	10 U
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-Ethylhexyl)phthalate		1.8 U	1.8 U	1.8 U	1.8 U
Total Semivolatiles		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-6c

Surface Water Pesticide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-6c
Solutia
Sauget Area 1
Surface Water
Method 8081A Pesticide Data

Compound	Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
	Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.0052 J	0.10 U	0.10 UJ	0.10 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U
4,4'-DDT		0.10 U	0.10 U	0.10 U	0.0040 J	0.10 U	0.10 UJ	0.0023 J
Aldrin		0.050 U	0.050 U	0.050 U	0.050 U	0.0037 J	0.050 UJ	0.050 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 U
Dieldrin		0.10 U	0.10 U	0.0010 J	0.0035 J	0.10 U	0.10 UJ	0.10 U
Endosulfan I		0.0024 J	0.050 U	0.0015 J	0.050 U	0.050 U	0.050 UJ	0.050 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.0053 J	0.10 U	0.10 UJ	0.0063 J
Endosulfan sulfate		0.10 U	0.10 U	0.0032 J	0.10 U	0.10 U	0.10 UJ	0.10 U
Endrin		0.10 U	0.10 U	0.00095 J	0.10 U	0.10 U	0.10 UJ	0.10 U
Endrin aldehyde		0.0032 J	0.10 U	0.0016 J	0.0025 J	0.10 U	0.10 UJ	0.10 U
Endrin ketone		0.10 U	0.10 U	0.0027 J	0.10 U	0.10 U	0.10 UJ	0.10 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.0027 J	0.0054 J	0.050 UJ	0.0050 J
Heptachlor		0.0026 J	0.0022 J	0.0029 J	0.050 U	0.0016 J	0.0048 J	0.013 J
Heptachlor epoxide		0.00096 J	0.00090 J	0.050 U	0.0016 J	0.0077 J	0.050 UJ	0.0080 J
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U
Toxaphene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
alpha-BHC		0.039 U	0.0010 J	0.00047 J	0.022 J	0.011 J	0.039 UJ	0.030 J
beta-BHC		0.0096 J	0.012 J	0.020 J	0.020 J	0.019 J	0.014 UJ	0.040 J
delta-BHC		0.00013 J	0.0022 J	0.012 U	0.015 J	0.0066 J	0.005 J	0.022 J
gamma-BHC (Lindane)		0.019 U	0.0038 J	0.0024 J	0.040 J	0.0038 J	0.019 UJ	0.086 J
Total Pesticides		0.01889	0.0221	0.03672	0.1218	0.0588	0.0098	0.2126

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-6c
Solutia
Sauget Area 1
Surface Water
Method 8081A Pesticide Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
4,4'-DDE		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.10 U	0.0040 J	0.0071 J	0.10 U	0.1 U	0.1 U	0.1 U
Aldrin		0.0023 J	0.050 U	0.0020 J	0.0019 J	0.05 U	0.05 U	0.05 U
Alpha Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Dieldrin		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endosulfan I		0.050 U	0.050 U	0.00051 J	0.050 U	0.05 U	0.05 U	0.05 U
Endosulfan II		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.0056 J	0.0035 J	0.017 J	0.10 U	0.1 U	0.1 U	0.1 U
Endrin		0.0021 J	0.0054 J	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Endrin ketone		0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U
Gamma Chlordane		0.050 U	0.050 U	0.050 U	0.050 U	0.05 U	0.05 U	0.05 U
Heptachlor		0.0029 J	0.012 J	0.0064 J	0.050 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide		0.014 J	0.014 J	0.017 J	0.050 U	0.05 U	0.05 U	0.05 U
Methoxychlor		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
Toxaphene		5.0 U	5.0 U	5.0 U	5.0 U	5 U	5 U	5 U
alpha-BHC		0.0028 J	0.0043 J	0.0061 J	0.039 U	0.0035 J	0.039 U	0.039 U
beta-BHC		0.015 J	0.010 J	0.045 J	0.014 U	0.012 J	0.014 U	0.014 U
delta-BHC		0.0031 J	0.0037 J	0.0038 J	0.014 J	0.028	0.012 U	0.012 U
gamma-BHC (Lindane)		0.0049 J	0.010 J	0.015 J	0.019 U	0.0028 J	0.019 U	0.019 U
Total Pesticides		0.0527	0.0669	0.11991	0.0159	0.0463	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6c
Solutia
Sauget Area 1
Surface Water
Method 8081A Pesticide Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
4,4'-DDD		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.10 U	0.1 U
4,4'-DDE		0.1 UJ	0.0034 J	0.1 UJ	0.1 U	0.1 U	0.0015 J	0.1 UJ
4,4'-DDT		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.10 U	0.1 U
Aldrin		0.05 UJ	0.0014 J	0.05 UJ	0.05 U	0.05 U	0.050 U	0.05 U
Alpha Chlordane		0.05 UJ	0.050 U	0.05 UJ	0.05 U	0.05 U	0.050 U	0.05 U
Dieldrin		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.0021 J	0.1 U
Endosulfan I		0.05 UJ	0.050 U	0.05 UJ	0.05 U	0.05 U	0.0017 J	0.002 J
Endosulfan II		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.000096 J	0.1 U
Endosulfan sulfate		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.0070 J	0.004 J
Endrin		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.00048 J	0.0038 J
Endrin aldehyde		0.1 UJ	0.0025 J	0.1 UJ	0.1 U	0.1 U	0.10 U	0.0023 J
Endrin ketone		0.1 UJ	0.10 U	0.1 UJ	0.1 U	0.1 U	0.10 U	0.1 UJ
Gamma Chlordane		0.05 UJ	0.050 U	0.05 UJ	0.05 U	0.05 U	0.00082 J	0.05 U
Heptachlor		0.05 UJ	0.0035 J	0.05 UJ	0.05 U	0.05 U	0.0035 J	0.05 UJ
Heptachlor epoxide		0.05 UJ	0.0080 J	0.05 UJ	0.05 U	0.05 U	0.0058 J	0.0048 J
Methoxychlor		0.5 UJ	0.50 U	0.5 UJ	0.5 U	0.5 U	0.50 U	0.5 UJ
Toxaphene		5 UJ	5.0 U	5 UJ	5 U	5 U	5.0 U	5 U
alpha-BHC		0.039 UJ	0.00091 J	0.039 UJ	0.039 U	0.039 U	0.039 U	0.0012 J
beta-BHC		0.014 UJ	0.0027 J	0.014 UJ	0.014 U	0.014 U	0.0048 J	0.0094 J
delta-BHC		0.012 UJ	0.0035 J	0.012 UJ	0.012 UJ	0.012 UJ	0.012 U	0.012 U
gamma-BHC (Lindane)		0.019 UJ	0.0036 J	0.019 UJ	0.019 U	0.019 U	0.0010 J	0.019 UJ
Total Pesticides		ND	0.02951	ND	ND	ND	0.0288	0.0275

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6c
Solutia
Sauget Area 1
Surface Water
Method 8081A Pesticide Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
4,4'-DDD		0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE		0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT		0.1 U	0.1 U	0.0057 J	0.1 U
Aldrin		0.05 U	0.004 J	0.0024 J	0.05 U
Alpha Chlordane		0.05 U	0.013 J	0.0019 J	0.05 U
Dieldrin		0.1 U	0.0036 J	0.1 U	0.1 U
Endosulfan I		0.05 U	0.011 J	0.0017 J	0.05 U
Endosulfan II		0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate		0.0042 J	0.0028 J	0.1 U	0.1 U
Endrin		0.007 J	0.1 U	0.1 U	0.1 U
Endrin aldehyde		0.1 U	0.1 U	0.1 U	0.1 U
Endrin ketone		0.1 U	0.011 J	0.0047 J	0.1 U
Gamma Chlordane		0.05 U	0.0031 J	0.05 U	0.05 U
Heptachlor		0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide		0.0046 J	0.0082 J	0.005 J	0.05 U
Methoxychlor		0.5 U	0.5 U	0.5 U	0.5 U
Toxaphene		5 U	5 U	5 U	5 U
alpha-BHC		0.0019 J	0.039 U	0.039 U	0.039 U
beta-BHC		0.014 U	0.015 J	0.015 J	0.014 U
delta-BHC		0.012 U	0.012 U	0.007 J	0.0069 J
gamma-BHC (Lindane)		0.0041 J	0.0066 J	0.0066 J	0.019 U
Total Pesticides		0.0218	0.0783	0.05	0.0069

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-6d

Surface Water Herbicide Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-6d
Solutia
Sauget Area 1
Surface Water
Method 8151A Herbicide Data

	Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
	Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Dinoseb		6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 UJ	120 U
MCPP		120 UJ	120 U	120 U	120 UJ	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	1	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6d
Solutia
Sauget Area 1
Surface Water
Method 8151A Herbicide Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
2,4-D		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6.0 U	6.0 U	6.0 U	6.0 U	6 U	6 U	6 U
Dinoseb		6.0 U	120 U	6.0 U	6.0 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 UJ
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-6d
Solutia
Sauget Area 1
Surface Water
Method 8151A Herbicide Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
2,4,5-T		0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U
2,4-D		0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U
2,4-DB		0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6.0 U	6 U	6 U	6 U	6.0 U	6 U
Dinoseb		6 U	6.0 U	6 U	6 U	6 U	6.0 U	6 U
MCPA		120 U	120 U	120 U	120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1 U	1 U	1 U	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6d
Solutia
Sauget Area 1
Surface Water
Method 8151A Herbicide Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
2,4,5-T		0.5 U	0.5 U	0.5 U	0.5 U
2,4,5-TP (Silvex)		0.5 U	0.5 U	0.5 U	0.5 U
2,4-D		0.5 U	0.5 U	0.5 U	0.5 U
2,4-DB		0.5 U	0.5 U	0.5 U	0.5 U
Dalapon		120 U	120 U	120 U	120 U
Dicamba		1.2 U	1.2 U	1.2 U	1.2 U
Dichloroprop		6 U	6 U	6 U	6 U
Dinoseb		6 U	6 U	6 U	6 U
MCPA		120 U	120 U	120 U	120 U
MCPP		120 U	120 U	120 U	120 U
Pentachlorophenol		1.0 U	1.0 U	1.0 U	1.0 U
Total Herbicides		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-6 e

Surface Water
Polychlorinated Biphenyl Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-6e
Solutia
Sauget Area 1
Surface Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
	Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
Dichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U
Heptachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.5 U
Hexachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U
Monochlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U
Nonachlorobiphenyl		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.5 U
Octachlorobiphenyl		0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.5 U
Pentachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U
Tetrachlorobiphenyl		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U
Trichlorobiphenyl		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.50 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6e
Solutia
Sauget Area 1
Surface Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		2.5 U	2.5 U	0.50 U	0.50 U	0.5 U	0.5 UJ	0.5 U
Dichlorobiphenyl		0.50 U	0.50 U	0.10 U	0.10 U	0.1 U	0.1 UJ	0.1 U
Heptachlorobiphenyl		1.5 U	1.5 U	0.30 U	0.30 U	0.3 U	0.3 UJ	0.3 U
Hexachlorobiphenyl		1.0 U	1.0 U	0.20 U	0.20 U	0.2 U	0.2 UJ	0.2 U
Monochlorobiphenyl		0.50 U	0.50 U	0.10 U	0.10 U	0.1 U	0.1 UJ	0.1 U
Nonachlorobiphenyl		2.5 U	2.5 U	0.50 U	0.50 U	0.5 U	0.5 UJ	0.5 U
Octachlorobiphenyl		1.5 U	1.5 U	0.30 U	0.30 U	0.3 U	0.3 UJ	0.3 U
Pentachlorobiphenyl		1.0 U	1.0 U	0.055 J	0.20 U	0.2 U	0.2 UJ	0.2 U
Tetrachlorobiphenyl		1.0 U	1.0 U	0.20 U	0.20 U	0.2 U	0.2 UJ	0.2 U
Trichlorobiphenyl		0.50 U	0.50 U	0.10 U	0.10 U	0.1 U	0.1 UJ	0.1 U
Total PCBs		ND	ND	0.055	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6e
Solutia
Sauget Area 1
Surface Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
Decachlorobiphenyl		0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U
Dichlorobiphenyl		0.1 U	0.10 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Heptachlorobiphenyl		0.3 U	0.30 U	0.3 U	0.3 U	0.3 U	0.30 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.20 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U
Monochlorobiphenyl		0.1 U	0.10 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nonachlorobiphenyl		0.5 U	0.50 U	0.5 U	0.5 U	0.5 U	0.50 U	0.5 U
Octachlorobiphenyl		0.3 U	0.30 U	0.3 U	0.3 U	0.3 U	0.30 U	0.3 U
Pentachlorobiphenyl		0.2 U	0.20 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U
Tetrachlorobiphenyl		0.2 U	0.20 U	0.2 U	0.2 U	0.2 U	0.20 U	0.2 U
Trichlorobiphenyl		0.1 U	0.10 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-6e
Solutia
Sauget Area 1
Surface Water
Method 680 Polychlorinated Biphenyl Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
Decachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U
Heptachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U
Hexachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U
Monochlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U
Nonachlorobiphenyl		0.5 U	0.5 U	0.5 U	0.5 U
Octachlorobiphenyl		0.3 U	0.3 U	0.3 U	0.3 U
Pentachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U
Tetrachlorobiphenyl		0.2 U	0.2 U	0.2 U	0.2 U
Trichlorobiphenyl		0.1 U	0.1 U	0.1 U	0.1 U
Total PCBs		ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-6f

Surface Water Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-6f
Solutia
Sauget Area 1
Surface Water
Method 6010B/7470A/9010B Inorganic Data

	Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
	Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		3.4	0.71	0.65	0.041 J	0.035 J	0.066 J	0.36
Antimony		0.020 U	0.020 U	0.020 U	0.0070 J	0.020 U	0.020 U	0.020 U
Arsenic		0.015	0.0079 J	0.012	0.010 U	0.0064 J	0.0052 J	0.010 U
Barium		0.32	0.12	0.045	0.17	0.30	0.23	0.18
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.00091 J	0.0050 U	0.0050 U	0.0050 U
Calcium		89 J	55 J	47 J	180 J	140 J	51 J	51 J
Chromium		0.0041 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Cobalt		0.0015 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Copper		0.0074 J	0.0036 J	0.0048 J	0.13	0.059	0.046	0.016 J
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Iron		8.7 J	1.6 J	1.3 J	0.076 U	0.13 U	0.43 J	1.1 J
Lead		0.020	0.0020 J	0.0029 J	0.0030 J	0.0042 J	0.0066 J	0.0083
Magnesium		30	31	26	23	17	6.0	6.7
Manganese		1.7	0.13	0.17	0.026	0.0068 J	0.034	0.056
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Molybdenum		0.0035 J	0.010 U	0.0040 J	0.032	0.024	0.012	0.0042 J
Nickel		0.015 J	0.012 J	0.0077 J	0.0096 J	0.013 J	0.015 J	0.018 J
Potassium		7.6	7.0	5.1	7.3	7.7	4.8	6.4
Selenium		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sodium		24 J	21 J	22 J	54 J	37 J	28 J	8.8 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 UJ	0.010 U	0.010 UJ	0.010 U
Vanadium		0.014	0.0051 J	0.011	0.010 U	0.010 U	0.010 U	0.0040 J
Zinc		0.048	0.027	0.017 J	0.13	0.080	0.045	0.053

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6f
Solutia
Sauget Area 1
Surface Water
Method 6010B/7470A/9010B Inorganic Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.32	0.33	1.4	0.20 U	0.2 U	0.039 J	0.15 J
Antimony		0.020 U	0.020 U	0.020 U	0.020 U	0.02 U	0.02 U	0.02 U
Arsenic		0.0050 J	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.0032 J
Barium		0.17	0.16	0.17	0.010 U	0.066	0.13	0.13
Beryllium		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.004 U	0.004 U	0.004 U
Cadmium		0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.005 U	0.005 U	0.005 U
Calcium		48 J	48 J	50 J	0.29 J	44 J	53 J	52 J
Chromium		0.010 U	0.010 U	0.0057 J	0.010 U	0.01 U	0.01 U	0.01 U
Cobalt		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Copper		0.015 J	0.015 J	0.026	0.020 U	0.0092 J	0.0016 J	0.002 J
Cyanide, Total		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Iron		1.1 J	0.96 J	1.8 J	0.039 J	1.2	0.5	0.55
Lead		0.0098	0.0066	0.016	0.0050 U	0.005 U	0.005 U	0.0022 J
Magnesium		6.4	6.0	6.6	0.50 U	15	33	33
Manganese		0.053	0.046	0.082	0.010 U	0.14 J	0.082 J	0.1 J
Mercury		0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.0053 J	0.0033 J	0.0052 J	0.010 U	0.01 U	0.01 U	0.01 U
Nickel		0.018 J	0.017 J	0.022 J	0.040 U	0.04 U	0.0069 J	0.013 J
Potassium		6.2	5.8	5.0	1.0 U	4.8	6.5	6.4
Selenium		0.010 U	0.0046 J	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Silver		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Sodium		8.4 J	8.1 J	11 J	0.58	23 J	21 J	21 J
Thallium		0.010 U	0.010 U	0.010 U	0.010 U	0.01 U	0.01 U	0.01 U
Vanadium		0.0043 J	0.0043 J	0.0070 J	0.010 U	0.01 U	0.01 U	0.01 U
Zinc		0.050	0.050	0.15	0.020 U	0.073	0.0073 J	0.035

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

O'BRIEN & GERE ENGINEERS, INC.

Table C-6f
Solutia
Sauget Area 1
Surface Water
Method 6010B/7470A/9010B Inorganic Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Compound								
Aluminum		0.55	0.078 J	2.6 J	1.7 J	1.6 J	9.4	20
Antimony		0.02 U	0.020 U	0.02 U	0.02 U	0.02 U	0.020 U	0.02 U
Arsenic		0.0049 J	0.010 U	0.0051 J	0.01 U	0.01 U	0.0093 J	0.017
Barium		0.12	0.21	0.18 J	0.17 J	0.17 J	0.33	0.38
Beryllium		0.004 U	0.0040 U	0.004 U	0.004 U	0.004 U	0.00083 J	0.00069 J
Cadmium		0.005 U	0.0050 U	0.005 U	0.005 U	0.005 U	0.0050 U	0.005 U
Calcium		53 J	48 J	100 J	98 J	100 J	72 J	56 J
Chromium		0.01 U	0.010 U	0.0032 UJ	0.0018 UJ	0.0021 UJ	0.012	0.023
Cobalt		0.01 U	0.010 U	0.0019 J	0.01 U	0.0016 J	0.0047 J	0.0078 J
Copper		0.012 J	0.046	0.004 UJ	0.0032 UJ	0.004 UJ	0.0097 J	0.019 J
Cyanide, Total		0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U
Iron		1	1.9 J	4 J	2.6 J	2.7 J	11	26
Lead		0.0037 J	0.0070	0.0019 J	0.005 U	0.005 U	0.021	0.03
Magnesium		30	4.8	40	40	40	35	23
Manganese		0.14 J	0.17	0.63 J	0.57 J	0.58 J	1.5	1.9 J
Mercury		0.0002 U	0.00020 U	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.0002 U
Molybdenum		0.0028 J	0.010	0.0037 J	0.0033 J	0.0032 J	0.0052 J	0.0068 J
Nickel		0.021 J	0.012 J	0.005 J	0.04 U	0.04 U	0.013 J	0.025 J
Potassium		6.9	4.2	7.5	7.4	7.6	7.5	11
Selenium		0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U
Silver		0.01 U	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U	0.01 U
Sodium		22 J	27 J	79 J	170 J	170 J	16 J	16 J
Thallium		0.01 U	0.010 U	0.01 U	0.0055 UJ	0.01 U	0.010 U	0.01 U
Vanadium		0.003 J	0.010 U	0.0075 UJ	0.0055 UJ	0.0053 UJ	0.031	0.053
Zinc		0.075	0.030	0.022	0.018 J	0.025	0.042	0.093

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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Table C-6f
Solutia
Sauget Area 1
Surface Water
Method 6010B/7470A/9010B Inorganic Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	mg/l	mg/l	mg/l	mg/l
Compound					
Aluminum		19	10	14	0.2 U
Antimony		0.02 U	0.02 U	0.02 U	0.02 U
Arsenic		0.017	0.017	0.015	0.01 U
Barium		0.37	0.32	0.41	0.01 U
Beryllium		0.00064 J	0.004 U	0.004 U	0.004 U
Cadmium		0.005 U	0.005 U	0.005 U	0.005 U
Calcium		57 J	50 J	56 J	0.19 J
Chromium		0.022	0.011	0.016	0.01 U
Cobalt		0.0074 J	0.005 J	0.0055 J	0.01 U
Copper		0.018 J	0.0099 J	0.011 J	0.02 U
Cyanide, Total		0.01 U	0.01 U	0.01 U	0.01 U
Iron		25	14	15	0.05 U
Lead		0.03	0.02	0.032	0.005 U
Magnesium		23	24	25	0.5 U
Manganese		1.9 J	1.6 J	2.9 J	0.01 U
Mercury		0.0002 U	0.0002 U	0.0002 U	0.0002 U
Molybdenum		0.0063 J	0.0032 J	0.0065 J	0.01 U
Nickel		0.024 J	0.014 J	0.018 J	0.04 U
Potassium		11	8.5	7	1 U
Selenium		0.01 U	0.01 U	0.01 U	0.01 U
Silver		0.01 U	0.01 U	0.01 U	0.01 U
Sodium		16 J	21 J	23 J	0.42 J
Thallium		0.01 U	0.01 U	0.01 U	0.01 U
Vanadium		0.052	0.039	0.047	0.01 U
Zinc		0.086	0.13	0.042	0.02 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis, EB - equipment blank, FD - field duplicate.

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APPENDIX C-6g

Surface Water
Wet Chemistry Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-6g
Solutia
Sauget Area 1
Surface Water
Method 300,365.4,160.2,160.1,130.1/130.2 and 150.1/150.2 Data

Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
Sample Date	10/05/99	10/06/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
Compound							
Fluoride (mg/l)	0.29	0.25	0.25	0.32	0.55	0.22	0.20
Hardness as CaCO3 (mg/l)	350	270	220	550	420	150	150
Ortho-Phosphate-P (mg/l)	0.83	0.20	0.22	0.076	0.021	0.087	0.057
Suspended Solids (mg/l)	160	37	55	5.0 U	5.0 U	5.0 U	28
Total Dissolved Solids (mg/l)	480	350	280	1200	940	340	200
Total Phosphorus (mg/l)	1.2	0.26	0.32	0.10 U	0.10 U	0.11	0.24
pH (7.1.4.2) * (su)	8.5	9.0	9.7	7.6	8.0	8.5	7.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6g
Solutia
Sauget Area 1
Surface Water
Method 300,365.4,160.2,160.1,130.1/130.2 and 150.1/150.2 Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
Compound								
Fluoride (mg/l)		0.20	0.24	0.30	0.10 U	0.75	0.24	0.25
Hardness as CaCO3 (mg/l)		150	140	150	0.72	170	270	260
Ortho-Phosphate-P (mg/l)		0.057	0.063	0.075	0.050 U	0.37 J	0.063 J	0.094 J
Suspended Solids (mg/l)		27	26	44	5.0 U	7	5 U	8
Total Dissolved Solids (mg/l)		200	210	210	5.0 U	250	330	350
Total Phosphorus (mg/l)		0.23	0.25	0.21	0.10 U	0.37	0.18	0.13
pH (7.1.4.2) * (su)		7.9	8.0	7.6	6.6	7.1	7.4	7.6

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6g
Solutia
Sauget Area 1
Surface Water
Method 300,365.4,160.2,160.1,130.1/130.2 and 150.1/150.2 Data

Compound	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
Fluoride (mg/l)		0.27	0.22	0.38	1 U*F6	0.38	0.32	0.23
Hardness as CaCO3 (mg/l)		260	140	420	410	420	330	230
Ortho-Phosphate-P (mg/l)		0.12 J	0.18	0.46	0.57	0.63	0.089	0.27 J
Suspended Solids (mg/l)		12	9.0	920	56	56	270	710
Total Dissolved Solids (mg/l)		360	270	670	690	680	460	400
Total Phosphorus (mg/l)		0.14	0.32	0.93	0.62	0.63	0.87	3.1
pH (7.1.4.2) * (su)		8.6	7.3	7.7	7.8	7.9	7.9	7.4

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-6g
Solutia
Sauget Area 1
Surface Water
Method 300,365.4,160.2,160.1,130.1/130.2 and 150.1/150.2 Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
Compound					
Fluoride (mg/l)		0.23	0.32	0.38	0.1 U
Hardness as CaCO3 (mg/l)		240	220	240	0.47
Ortho-Phosphate-P (mg/l)		0.16 J	0.05 UJ	0.14 J	0.05 U
Suspended Solids (mg/l)		690	340	370	5 U
Total Dissolved Solids (mg/l)		360	310	320	5 U
Total Phosphorus (mg/l)		2.9	1.4	1.3	0.1 U
pH (7.1.4.2) * (su)		7.2	8	8.1	8.8

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-6h

Surface Water
PCDD/PCDF Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-6h
Solutia
Sauget Area 1
Surface Water
Method 8290 PCDD/PCDF Data

	Sample ID	SW-BPL-S1	SW-BPL-S2	SW-BPL-S3	SW-CSB-S1	SW-CSB-S2	SW-CSB-S3	SW-CSD-S1
	Sample Date	10/05/99	10/05/99	10/06/99	10/05/99	10/05/99	10/04/99	10/06/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.00143	0.000792	0.000751	0.00193	0.00422	0.00558	0.00411
1,2,3,4,6,7,8,9-OCDF		0.0000604 M	0.000071	0.0000503	0.000209	0.00107	0.00174	0.00132
1,2,3,4,6,7,8-HpCDD		0.0000569	0.0000442	0.000045 M	0.000213	0.000473	0.000637	0.000429
1,2,3,4,6,7,8-HpCDF		0.0000144	0.0000217	0.0000179	0.0000748	0.000245	0.0004	0.00033
1,2,3,4,7,8,9-HpCDF		0.0000128 U	0.0000087 U	0.0000075 U	0.0000124 U	0.0000117 U	0.0000248	0.0000109
1,2,3,4,7,8-HxCDD		0.0000088 U	0.0000058 U	0.0000055 U	0.0000091 U	0.0000095 U	0.0000032 U	0.0000073 U
1,2,3,4,7,8-HxCDF		0.0000083 U	0.0000055 U	0.0000049 U	0.0000071 U	0.0000078 U	0.0000146	0.0000053 U
1,2,3,6,7,8-HxCDD		0.0000082 U	0.0000055 U	0.0000051 U	0.0000085 U	0.0000178	0.0000241	0.0000117
1,2,3,6,7,8-HxCDF		0.0000077 U	0.0000051 U	0.0000046 U	0.0000066 U	0.0000072 U	0.0000064 M	0.0000049 U
1,2,3,7,8,9-HxCDD		0.0000085 U	0.0000057 U	0.0000053 U	0.0000088 U	0.0000092 U	0.0000185	0.0000071 U
1,2,3,7,8,9-HxCDF		0.0000092 U	0.0000061 U	0.0000054 U	0.0000079 U	0.0000086 U	0.0000032 U	0.0000059 U
1,2,3,7,8-PeCDD		0.0000087 U	0.0000055 U	0.0000053 U	0.0000085 U	0.0000095 U	0.0000033 U	0.000007 U
1,2,3,7,8-PeCDF		0.000006 U	0.0000041 U	0.0000036 U	0.0000062 U	0.0000072 U	0.0000025 U	0.0000049 U
2,3,4,6,7,8-HxCDF		0.0000082 U	0.0000054 U	0.0000048 U	0.000007 U	0.0000077 U	0.0000133 M	0.0000052 U
2,3,4,7,8-PeCDF		0.0000063 U	0.0000043 U	0.0000038 U	0.0000065 U	0.0000076 U	0.0000026 U	0.0000051 U
2,3,7,8-TCDD		0.000009 U	0.0000056 U	0.0000053 U	0.0000077 U	0.0000091 U	0.0000034 U	0.0000066 U
2,3,7,8-TCDF		0.0000088 U	0.0000049 U	0.0000047 U	0.0000076 U	0.0000087 U	0.0000115 J	0.000006 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6h
Solutia
Sauget Area 1
Surface Water
Method 8290 PCDD/PCDF Data

	Sample ID	SW-CSD-S1FD	SW-CSD-S2	SW-CSD-S3	SW-CSDEB	SW-CSE-S3	SW-CSF-S1	SW-CSF-S2
	Sample Date	10/06/99	10/06/99	10/06/99	10/06/99	10/07/99	10/07/99	10/07/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.00392	0.00308	0.00383	0.0000062 U	0.0000604 M	0.000166 M	0.000617
1,2,3,4,6,7,8,9-OCDF		0.00118	0.00104	0.0012	0.0000041 U	0.0000164	0.0000817	0.00026
1,2,3,4,6,7,8-HpCDD		0.000406	0.00034	0.000444	0.0000021 U	0.0000119	0.0000183 M	0.0000692
1,2,3,4,6,7,8-HpCDF		0.000318	0.0000233	0.000337	0.0000012 U	0.0000042 U	0.0000134	0.0000451
1,2,3,4,7,8,9-HpCDF		0.000017	0.0000254	0.0000109 U	0.0000017 U	0.0000055 U	0.000548	0.0000041 U
1,2,3,4,7,8-HxCDD		0.0000067 U	0.0000118	0.0000079 U	0.0000014 U	0.0000044 U	0.0000047 U	0.0000036 U
1,2,3,4,7,8-HxCDF		0.0000077	0.0000127 M	0.0000067 U	0.0000009 U	0.0000039 U	0.000024	0.0000026 U
1,2,3,6,7,8-HxCDD		0.0000152	0.0000184	0.0000167	0.0000014 U	0.0000041 U	0.0000044 U	0.0000034 U
1,2,3,6,7,8-HxCDF		0.0000064	0.0000153	0.0000062 U	0.0000009 U	0.0000037 U	0.0000089	0.0000024 U
1,2,3,7,8,9-HxCDD		0.0000065 U	0.0000136	0.0000076 U	0.0000015 U	0.0000281 M	0.0000046 U	0.0000035 U
1,2,3,7,8,9-HxCDF		0.0000064 U	0.0000067 U	0.0000074 U	0.0000012 U	0.0000044 U	0.0000047 U	0.0000029 U
1,2,3,7,8-PeCDD		0.0000064 U	0.0000061 U	0.0000075 U	0.0000016 U	0.0000081 U	0.0000067 U	0.0000046 U
1,2,3,7,8-PeCDF		0.0000043 U	0.0000138	0.0000051 U	0.000001 U	0.0000046 U	0.0000043 U	0.0000026 U
2,3,4,6,7,8-HxCDF		0.0000098 M	0.0000138	0.0000066 U	0.000001 U	0.0000039 U	0.0000042 U	0.0000026 U
2,3,4,7,8-PeCDF		0.0000045 U	0.0000101	0.0000054 U	0.000001 U	0.0000049 U	0.0000045 U	0.0000028 U
2,3,7,8-TCDD		0.0000059 U	0.0000059 U	0.0000069 U	0.0000012 U	0.0000066 U	0.0000058 U	0.0000036 U
2,3,7,8-TCDF		0.0000053	0.0000056 U	0.0000058 U	0.000001 U	0.0000061 U	0.0000046 U	0.0000027 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6h
Solutia
Sauget Area 1
Surface Water
Method 8290 PCDD/PCDF Data

	Sample ID	SW-CSF-S3	SW-M-S1	SW-PDC-DS	SW-PDC-US	SW-PDC-USFD	SW-RA1-S1	SW-RA1-S2
	Sample Date	10/07/99	10/05/99	02/04/00	02/04/00	02/04/00	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Compound								
1,2,3,4,6,7,8,9-OCDD		0.000573	0.00413	0.00136	0.00117	0.000934 J	0.00288 J	0.00613 J
1,2,3,4,6,7,8,9-OCDF		0.00023	0.00101	0.0000129	0.0000098	0.0000133 JM	0.000123 J	0.000191 J
1,2,3,4,6,7,8-HpCDD		0.0000629	0.000429	0.0000278	0.0000218	0.0000128 J	0.0000959 J	0.000194 J
1,2,3,4,6,7,8-HpCDF		0.0000505	0.000208	0.0000027 U	0.0000043	0.0000028 UJ	0.0000237 J	0.0000441 J
1,2,3,4,7,8,9-HpCDF		0.0000048 U	0.0000105 U	0.0000035 U	0.0000017 U	0.000004 UJ	0.0000035 UJ	0.0000054 JM
1,2,3,4,7,8-HxCDD		0.0000044 U	0.000007 U	0.000003 U	0.0000038	0.0000028 UJ	0.0000028 UJ	0.0000027 UJ
1,2,3,4,7,8-HxCDF		0.0000033 U	0.0000072 U	0.0000022 U	0.0000028	0.0000023 UJ	0.0000031 JM	0.0000053 JM
1,2,3,6,7,8-HxCDD		0.0000041 U	0.0000066 U	0.0000028 U	0.0000036	0.0000026 UJ	0.0000036 JM	0.0000077 J
1,2,3,6,7,8-HxCDF		0.0000031 U	0.0000067 U	0.000002 U	0.0000025	0.0000021 UJ	0.000002 UJ	0.0000018 UJ
1,2,3,7,8,9-HxCDD		0.0000043 U	0.0000068 U	0.0000029 U	0.0000037	0.0000028 UJ	0.000003 UJ	0.0000076 J
1,2,3,7,8,9-HxCDF		0.0000037 U	0.0000079 U	0.0000024 U	0.000003	0.0000027 UJ	0.0000026 UJ	0.0000024 UJ
1,2,3,7,8-PeCDD		0.0000075 U	0.0000078 U	0.000002 U	0.0000028 M	0.0000021 UJ	0.0000036 UJ	0.0000033 UJ
1,2,3,7,8-PeCDF		0.0000039 U	0.0000057 U	0.0000014 U	0.0000031	0.0000016 UJ	0.0000019 UJ	0.0000019 UJ
2,3,4,6,7,8-HxCDF		0.0000033 U	0.000007 U	0.0000021 U	0.0000022 M	0.0000023 UJ	0.0000034 JM	0.0000051 JM
2,3,4,7,8-PeCDF		0.0000041 U	0.000006 U	0.0000015 U	0.0000025	0.0000017 UJ	0.000002 UJ	0.0000019 UJ
2,3,7,8-TCDD		0.0000062 U	0.0000075 U	0.000002 U	0.0000013 U	0.0000023 UJ	0.0000022 UJ	0.0000024 UJ
2,3,7,8-TCDF		0.0000045 U	0.0000071 U	0.0000017 U	0.0000013 U	0.000002 UJ	0.0000043 JM	0.0000076 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-6h
Solutia
Sauget Area 1
Surface Water
Method 8290 PCDD/PCDF Data

	Sample ID	SW-RA1-S2FD	SW-RA2-S1	SW-RA2-S2	SW-RA2EB
	Sample Date	10/08/99	10/08/99	10/08/99	10/08/99
	Units	ug/l	ug/l	ug/l	ug/l
Compound					
1,2,3,4,6,7,8,9-OCDD		0.00538 J	0.0074 J	0.00299 J	0.0000688
1,2,3,4,6,7,8,9-OCDF		0.0002 J	0.0000382 JM	0.000138 J	0.0000085
1,2,3,4,6,7,8-HpCDD		0.000172 J	0.000156 J	0.000138 J	0.0000042 M
1,2,3,4,6,7,8-HpCDF		0.0000449 J	0.0000147 J	0.000038 J	0.0000012 U
1,2,3,4,7,8,9-HpCDF		0.0000184 J	0.00001 JM	0.0000101 JM	0.0000017 U
1,2,3,4,7,8-HxCDD		0.0000088 J	0.0000067 JM	0.000008 J	0.0000014 U
1,2,3,4,7,8-HxCDF		0.0000129 JM	0.0000057 JM	0.0000077 JM	0.0000009 U
1,2,3,6,7,8-HxCDD		0.0000112 JM	0.000009 J	0.0000098 J	0.0000014 U
1,2,3,6,7,8-HxCDF		0.0000089 JM	0.0000053 J	0.0000072 J	0.0000009 U
1,2,3,7,8,9-HxCDD		0.0000142 J	0.0000139 J	0.0000138 J	0.0000015 U
1,2,3,7,8,9-HxCDF		0.0000126 J	0.0000103 J	0.0000127 J	0.0000012 U
1,2,3,7,8-PeCDD		0.0000066 UJ	0.0000083 J	0.0000087 J	0.0000016 U
1,2,3,7,8-PeCDF		0.0000154 JM	0.0000071 J	0.0000068 J	0.000001 U
2,3,4,6,7,8-HxCDF		0.0000128 JM	0.0000072 JM	0.0000075 JM	0.000001 U
2,3,4,7,8-PeCDF		0.0000111 JM	0.0000059 J	0.000006 JM	0.000001 U
2,3,7,8-TCDD		0.0000064 JM	0.0000039 JM	0.0000024 UJ	0.0000012 U
2,3,7,8-TCDF		0.0000091 J	0.0000054 J	0.0000069 J	0.000001 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-7

Summary Tables of Validated Analytical Data and Field/Equipment Blanks Air

APPENDIX C-7a

Air - Volatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

Compound	Sample ID	AIR-V-1 TUBE 1	AIR-V-1 TUBE 2	AIR-V-10 TUBE 1	AIR-V-10 TUBE 2	AIR-V-11 TUBE 1	AIR-V-11 TUBE 2	AIR-V-12 TUBE 1
	Sample Date	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99	09/11/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
1,1,1,2 Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,1-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2,2-Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethane		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U
1,1-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloropropylene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromo-3-chloropropane		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromoethane (EDB)		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3,5-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,4-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Butanone (MEK)		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25
2-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Hexanone		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4-Methyl-2-pentanone (MIBK)		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone		1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Benzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromodichloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromoform		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromomethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Carbon disulfide		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Carbon tetrachloride		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

	Sample ID	AIR-V-1 TUBE 1	AIR-V-1 TUBE 2	AIR-V-10 TUBE 1	AIR-V-10 TUBE 2	AIR-V-11 TUBE 1	AIR-V-11 TUBE 2	AIR-V-12 TUBE 1
	Sample Date	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99	09/11/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Compound								
Chlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloromethane		1.5 UJ	1.3 U	0.26 U	0.27 U	0.20 U	0.36 U	0.20 U
Dibromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibromomethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dichlorodifluoromethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene		0.10 U	0.011	0.10 U	0.015	0.10 U	0.10 U	0.10 U
Hexachlorobutadiene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Isopropylbenzene		0.10 U	0.10 U	0.10 U	0.014	0.10 U	0.10 U	0.10 U
Methylene chloride (Dichloromethane)		0.10 U	0.073	0.10 U	0.10 U	13 J	0.10 U	0.10 U
Naphthalene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Styrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene		0.10 U	0.20 U	0.19 U	0.21 U	0.10 U	0.18 U	0.14 U
Trichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl acetate		0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
cis-1,3-Dichloropropene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene		0.10 U	0.10 U	0.10 U	0.021	0.10 U	0.0084	0.10 U
n-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
n-Propylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
o-Xylene		0.10 U	0.10 U	0.10 U	0.018	0.10 U	0.10 U	0.015
p-Isopropyltoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
s-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
t-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,2-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,3-Dichloropropene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total VOCs		ND	0.084	ND	0.068	13	0.0084	0.265

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

	Sample ID	AIR-V-12 TUBE 2	AIR-V-13 TUBE 1	AIR-V-13 TUBE 2	AIR-V-2 TUBE 1	AIR-V-2 TUBE 2	AIR-V-3 TUBE 1	AIR-V-3 TUBE 2
	Sample Date	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99	09/10/99	09/10/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Compound								
1,1,1,2 Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,1-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2,2-Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethane		0.10 UJ	0.10 UJ	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ
1,1-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloropropylene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromo-3-chloropropane		0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
1,2-Dibromoethane (EDB)		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3,5-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,4-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Butanone (MEK)		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U
2-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Hexanone		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4-Methyl-2-pentanone (MIBK)		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone		1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	2.1 J	1.0 UJ
Benzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromodichloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromoform		0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Bromomethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Carbon disulfide		0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Carbon tetrachloride		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

Compound	Sample ID	AIR-V-12 TUBE 2	AIR-V-13 TUBE 1	AIR-V-13 TUBE 2	AIR-V-2 TUBE 1	AIR-V-2 TUBE 2	AIR-V-3 TUBE 1	AIR-V-3 TUBE 2
	Sample Date	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99	09/10/99	09/10/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Chlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloromethane		0.42 U	0.20 U	0.91 U	0.20 UJ	1.8 U	1.2 UJ	0.65 U
Dibromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibromomethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dichlorodifluoromethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene		0.10 U	0.012	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Hexachlorobutadiene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Isopropylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.013 J	0.10 U
Methylene chloride (Dichloromethane)		0.10 U	0.10 U	0.10 U	0.10 U	14 J	2.7 J	0.10 U
Naphthalene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Styrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene		0.14 U	0.18 U	0.17 U	0.10 U	0.10 U	0.10 U	0.21 U
Trichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.044 J	0.10 U
Trichlorofluoromethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl acetate		0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Vinyl chloride		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
cis-1,3-Dichloropropene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene		0.10 U	0.012	0.10 U	0.10 U	0.10 U	0.013 J	0.10 U
n-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
n-Propylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
o-Xylene		0.10 U	0.012	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
p-Isopropyltoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
s-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
t-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,2-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,3-Dichloropropene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total VOCs		ND	0.036	ND	ND	14	5.09	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

	Sample ID	AIR-V-4 TUBE 1	AIR-V-4 TUBE 2	AIR-V-5 TUBE 1	AIR-V-5 TUBE 2	AIR-V-6 TUBE 1	AIR-V-6 TUBE 2	AIR-V-7 TUBE 1
	Sample Date	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Compound								
1,1,1,2 Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,1-Trichloroethane		0.10 U	0.10 U	0.10 U	0.058	0.10 U	0.10 U	0.10 U
1,1,2,2-Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethane		0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U
1,1-Dichloroethene		0.10 U	0.10 U	0.10 U	0.20	0.10 U	0.25	0.10 U
1,1-Dichloropropylene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromo-3-chloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromoethane (EDB)		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3,5-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,4-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Butanone (MEK)		0.38	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19
2-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Hexanone		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4-Methyl-2-pentanone (MIBK)		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone		0.37	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Benzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromodichloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromoform		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromomethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Carbon disulfide		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Carbon tetrachloride		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

Compound	Sample ID	AIR-V-4 TUBE 1	AIR-V-4 TUBE 2	AIR-V-5 TUBE 1	AIR-V-5 TUBE 2	AIR-V-6 TUBE 1	AIR-V-6 TUBE 2	AIR-V-7 TUBE 1
	Sample Date	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Chlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloromethane		0.26 U	0.56 U	0.31 U	0.62 U	0.71 U	0.51 U	0.40 U
Dibromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibromomethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dichlorodifluoromethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene		0.028	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Hexachlorobutadiene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Isopropylbenzene		0.036	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methylene chloride (Dichloromethane)		0.17	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Naphthalene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Styrene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene		0.014	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene		0.22 U	0.11 U	0.16 U	0.20 U	0.10 U	0.20 U	0.17 U
Trichloroethene		0.053	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl acetate		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
cis-1,3-Dichloropropene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene		0.034	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010
n-Butylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
n-Propylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
o-Xylene		0.042	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010
p-Isopropyltoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
s-Butylbenzene		0.034	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
t-Butylbenzene		0.011	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,2-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,3-Dichloropropene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total VOCs		1.172	ND	ND	0.258	ND	0.25	0.21

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

	Sample ID	AIR-V-7 TUBE 2	AIR-V-8 TUBE 1	AIR-V-8 TUBE 2	AIR-V-9 TUBE 1	AIR-V-9 TUBE 2	AIR-V-FB TUBE 1
	Sample Date	09/10/99	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99
	Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Compound							
1,1,1,2 Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,1-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2,2-Tetrachloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1,2-Trichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethane		0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U
1,1-Dichloroethene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloropropylene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,3-Trichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2,4-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromo-3-chloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dibromoethane (EDB)		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloroethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3,5-Trimethylbenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,3-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,4-Dichlorobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.022
2,2-Dichloropropane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Butanone (MEK)		1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Hexanone		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4-Methyl-2-pentanone (MIBK)		0.70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acetone		8.1 J	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Benzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.029
Bromobenzene		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromochloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromodichloromethane		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromoform		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Bromomethane		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Carbon disulfide		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Carbon tetrachloride		0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7a
Solutia
Sauget Area 1
Air
Method TO-1 Volatile Organic Compound Data

Sample ID	AIR-V-7 TUBE 2	AIR-V-8 TUBE 1	AIR-V-8 TUBE 2	AIR-V-9 TUBE 1	AIR-V-9 TUBE 2	AIR-V-FB TUBE 1
Sample Date	09/10/99	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99
Units	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube	ug/tube
Compound						
Chlorobenzene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloroethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Chloroform	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Chloromethane	0.20 U	0.37 U	0.70 U	0.35 U	2.4 U	0.92
Dibromochloromethane	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibromomethane	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dichlorodifluoromethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	0.15	0.012	0.10 U	0.021	0.10 U	0.10 U
Hexachlorobutadiene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Isopropylbenzene	0.20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Methylene chloride (Dichloromethane)	0.77	0.10 U	20 J	0.10 U	1.1	0.10 U
Naphthalene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.016
Styrene	0.18	0.10 U	0.10 U	0.10 U	0.10 U	0.012
Tetrachloroethene	0.033	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Toluene	1.8	0.10 U	0.10 U	0.91 U	0.17 U	0.16
Trichloroethene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vinyl acetate	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
cis-1,3-Dichloropropene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
m&p-Xylene	0.21	0.012	0.013	0.012	0.020	0.10 U
n-Butylbenzene	0.10 U	0.012	0.10 U	0.10 U	0.10 U	0.10 U
n-Propylbenzene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
o-Xylene	0.19	0.011	0.013	0.011	0.015	0.10 U
p-Isopropyltoluene	0.050	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
s-Butylbenzene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
t-Butylbenzene	0.056	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,2-Dichloroethene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
trans-1,3-Dichloropropene	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Total VOCs	12.439	0.047	20.026	0.044	1.135	1.159

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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APPENDIX C-7b

Air - Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-7b
Solutia
Sauget Area 1
Air
Method TO-13 Semivolatile Organic Compound Data

Compound	Sample ID	AIR-S-1	AIR-S-10	AIR-S-11	AIR-S-12	AIR-S-13	AIR-S-2	AIR-S-3
	Sample Date	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99
	Units	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff
1,2,4-Trichlorobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
1,2-Dichlorobenzene		27 J	10 UJ	10 UJ	10 UJ	10 UJ	74 J	20 UJ
1,3-Dichlorobenzene		8.4 UJ	8.4 UJ	8.4 UJ	8.4 UJ	8.4 UJ	8.4 UJ	17 UJ
1,4-Dichlorobenzene		93 J	10 UJ	5.2 J	7.1 J	10 UJ	120 J	28 J
2,2'-Oxybis(1-Chloropropane)		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2,4,5-Trichlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2,4,6-Trichlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2,4-Dichlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2,4-Dimethylphenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2,4-Dinitrotoluene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2,6-Dinitrotoluene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2-Chloronaphthalene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2-Chlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2-Methylnaphthalene		33 J	36 J	37 J	44 J	46 J	35 J	45 J
2-Methylphenol (o-cresol)		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
2-Nitroaniline		50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	8.4 J	100 UJ
2-Nitrophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
3,3'-Dichlorobenzidine		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
3-Methylphenol/4-Methylphenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
3-Nitroaniline		50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	100 UJ
4-Bromophenylphenyl ether		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
4-Chloro-3-methylphenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
4-Chloroaniline		15 UJ	15 UJ	15 UJ	15 UJ	15 UJ	15 UJ	30 UJ
4-Chlorophenylphenyl ether		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
4-Nitroaniline		50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	100 UJ
Acenaphthene		10 J	6.1 J	7.0 J	9.8 J	10 J	11 J	20 UJ
Acenaphthylene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Anthracene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Benzo(a)anthracene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Benzo(a)pyrene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Benzo(b)fluoranthene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Benzo(g,h,i)perylene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Benzo(k)fluoranthene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Benzyl alcohol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Butylbenzylphthalate		520 UJ	420 UJ	400 UJ	480 UJ	520 UJ	400 UJ	520 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7b
Solutia
Sauget Area 1
Air
Method TO-13 Semivolatile Organic Compound Data

	Sample ID	AIR-S-1	AIR-S-10	AIR-S-11	AIR-S-12	AIR-S-13	AIR-S-2	AIR-S-3
	Sample Date	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99
	Units	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff
Compound								
Chrysene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Di-n-butylphthalate		84 UJ	150 UJ	85 UJ	170 UJ	120 UJ	290 UJ	150 UJ
Di-n-octylphthalate		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Dibenzo(a,h)anthracene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Dibenzofuran		11 J	6.7 J	8.4 J	11 J	11 J	11 J	20 UJ
Diethylphthalate		10 UJ	10 UJ	10 UJ	9.6 J	7.1 J	10 UJ	20 UJ
Dimethylphthalate		19 J	16 J	8.4 J	12 J	9.2 J	9.4 J	13 J
Fluoranthene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Fluorene		8.5 J	10 UJ	6.9 J	8.8 J	8.6 J	9.3 J	20 UJ
Hexachlorobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Hexachlorobutadiene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Hexachloroethane		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Indeno(1,2,3-cd)pyrene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Isophorone		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
N-Nitroso-di-n-propylamine		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
N-Nitrosodiphenylamine		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Naphthalene		86 UJ	110 UJ	100 UJ	130 UJ	110 UJ	89 UJ	100 UJ
Nitrobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
Phenanthrene		14 J	8.1 J	11 J	10 UJ	10 UJ	17 J	11 J
Phenol		16 UJ	10 UJ	23 UJ	28 UJ	18	18 UJ	22 UJ
Pyrene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
bis(2-Chloroethoxy)methane		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
bis(2-Chloroethyl)ether		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	20 UJ
bis(2-Ethylhexyl)phthalate		24 J	21 J	10 UJ	23 J	22 J	20 J	20 UJ
Total Semivolatiles		239.5	93.9	83.9	125.3	131.9	315.1	97

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7b
Solutia
Sauget Area 1
Air
Method TO-13 Semivolatile Organic Compound Data

	Sample ID	AIR-S-4	AIR-S-5	AIR-S-6	AIR-S-7	AIR-S-8	AIR-S-9	AIR-S-FB
	Sample Date	09/10/99	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99
	Units	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff
Compound								
1,2,4-Trichlorobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
1,2-Dichlorobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
1,3-Dichlorobenzene		8.4 UJ	8.4 UJ	8.4 UJ	8.4 UJ	8.4 UJ	8.4 UJ	8.4 U
1,4-Dichlorobenzene		21 J	14 J	16 J	10 UJ	10 UJ	5.0 J	10 U
2,2'-Oxybis(1-Chloropropane)		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2,4,5-Trichlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2,4,6-Trichlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2,4-Dichlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2,4-Dimethylphenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2,4-Dinitrotoluene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2,6-Dinitrotoluene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2-Chloronaphthalene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2-Chlorophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2-Methylnaphthalene		37 J	29 J	29 J	34 J	42 J	32 J	10 U
2-Methylphenol (o-cresol)		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
2-Nitroaniline		50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 U
2-Nitrophenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
3,3'-Dichlorobenzidine		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
3-Methylphenol/4-Methylphenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
3-Nitroaniline		50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 U
4-Bromophenylphenyl ether		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
4-Chloro-3-methylphenol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
4-Chloroaniline		15 UJ	15 UJ	15 UJ	15 UJ	15 UJ	15 UJ	15 U
4-Chlorophenylphenyl ether		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
4-Nitroaniline		50 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 U
Acenaphthene		7.4 J	6.0 J	6.8 J	5.5 J	6.9 J	10 UJ	10 U
Acenaphthylene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Anthracene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzo(a)anthracene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzo(a)pyrene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzo(b)fluoranthene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzo(g,h,i)perylene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzo(k)fluoranthene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Benzyl alcohol		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 J	10 U
Butylbenzylphthalate		520 UJ	430 UJ	430 UJ	460 UJ	480 UJ	460 UJ	450

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Table C-7b
Solutia
Sauget Area 1
Air
Method TO-13 Semivolatile Organic Compound Data

	Sample ID	AIR-S-4	AIR-S-5	AIR-S-6	AIR-S-7	AIR-S-8	AIR-S-9	AIR-S-FB
	Sample Date	09/10/99	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99
	Units	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff
Compound								
Chrysene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Di-n-butylphthalate		240 UJ	98 UJ	310 UJ	120 UJ	190 UJ	40 UJ	61
Di-n-octylphthalate		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Dibenzo(a,h)anthracene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Dibenzofuran		7.0 J	5.9 J	6.7 J	5.6 J	7.4 J	6.2 J	10 U
Diethylphthalate		10 UJ	10 UJ	7.4 J	10 UJ	7.4 J	15 J	10 U
Dimethylphthalate		24 J	11 J	14 J	14 J	9.2 J	15 J	10 U
Fluoranthene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Fluorene		6.6 J	5.1 J	6.2 J	5.2 J	6.9 J	5.3 J	10 U
Hexachlorobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Hexachlorobutadiene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Hexachloroethane		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Indeno(1,2,3-cd)pyrene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Isophorone		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	6.2
N-Nitroso-di-n-propylamine		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
N-Nitrosodiphenylamine		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Naphthalene		80 UJ	64 UJ	81 UJ	77 UJ	99 UJ	86 UJ	52
Nitrobenzene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Phenanthrene		10 J	9.2 J	13 J	8.3 J	9.4 J	5.5 J	10 U
Phenol		16 UJ	12 UJ	16 UJ	20 UJ	27 UJ	14 UJ	59
Pyrene		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
bis(2-Chloroethoxy)methane		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
bis(2-Chloroethyl)ether		10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
bis(2-Ethylhexyl)phthalate		10 UJ	10 UJ	17 J	19 J	24 J	10 UJ	10 U
Total Semivolatiles		113	80.2	116.1	91.6	113.2	94	628.2

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Air - Polychlorinated Biphenyl Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-7c
Solutia
Sauget Area 1
Air
Method TO-13 Polychlorinated Biphenyl Data

	Sample ID	AIR-P-1	AIR-P-10	AIR-P-11	AIR-P-12	AIR-P-13	AIR-P-2	AIR-P-3
	Sample Date	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99
	Units	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff
Compound								
Decachlorobiphenyl		5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorobiphenyl		1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Heptachlorobiphenyl		3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobiphenyl		2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Monochlorobiphenyl		1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonachlorobiphenyl		5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Octachlorobiphenyl		3.0 UJ	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Pentachlorobiphenyl		2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachlorobiphenyl		2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorobiphenyl		1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7c
Solutia
Sauget Area 1
Air
Method TO-13 Polychlorinated Biphenyl Data

	Sample ID	AIR-P-4	AIR-P-5	AIR-P-6	AIR-P-7	AIR-P-8	AIR-P-9	AIR-P-FB
	Sample Date	09/10/99	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99
	Units	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff	ug/puff
Compound								
Decachlorobiphenyl		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorobiphenyl		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Heptachlorobiphenyl		3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobiphenyl		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Monochlorobiphenyl		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonachlorobiphenyl		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Octachlorobiphenyl		3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Pentachlorobiphenyl		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachlorobiphenyl		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlorobiphenyl		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-7d

Air - Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-7d
Solutia
Sauget Area 1
Air
Method 6010B/7470A/9010B Metals Data

	Sample ID	AIR-M-1	AIR-M-10	AIR-M-11	AIR-M-12	AIR-M-13	AIR-M-2	AIR-M-3
	Sample Date	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99	09/10/99	09/10/99
	Units	mg/filter	mg/filter	mg/filter	mg/filter	mg/filter	mg/filter	mg/filter
Compound								
Aluminum		0.0043 UJ	0.023 J	0.0084 UJ	0.0031 UJ	0.010 UJ	0.0076 UJ	0.0032 UJ
Antimony		0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Arsenic		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Barium		0.00055 UJ	0.00026 UJ	0.00015 UJ	0.00016 UJ	0.00029 UJ	0.00049 UJ	0.00085 UJ
Beryllium		0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U
Cadmium		0.00050	0.00075	0.00063	0.00066	0.00070	0.00050 U	0.00050 U
Calcium		0.012 J	0.012 J	0.0072 UJ	0.0071 UJ	0.031 J	0.0082 UJ	0.015 J
Chromium		0.00022 UJ	0.00018 UJ	0.00022 UJ	0.00017 UJ	0.00029 UJ	0.00020 UJ	0.00019 UJ
Cobalt		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Copper		0.0036 J	0.0018 UJ	0.0011 UJ	0.00075 UJ	0.0014 UJ	0.0050 J	0.0075 J
Iron		0.0055 U	0.0043 UJ	0.0071 U	0.0037 UJ	0.012 J	0.0062 U	0.0033 UJ
Lead		0.00063	0.0072	0.0063	0.0066	0.0072	0.00049 J	0.00053
Magnesium		0.0016 J	0.0016 J	0.0016 J	0.0011 J	0.0072 J	0.0014 J	0.0014 J
Manganese		0.00015 J	0.00011 UJ	0.00011 UJ	0.000089 UJ	0.00023 UJ	0.00015 J	0.000095 UJ
Molybdenum		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Nickel		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.00014 J	0.0040 U	0.0040 U
Potassium		0.0021 UJ	0.0024 UJ	0.0040 UJ	0.0021 UJ	0.0023 UJ	0.0034 UJ	0.0018 UJ
Selenium		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Silver		0.0010 U	0.0010 U	0.00084 J	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Sodium		0.050 U	0.050 U	0.012 J	0.013 J	0.050 U	0.013 J	0.050 U
Thallium		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Vanadium		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Zinc		0.0030 U	0.0022 U	0.0020 UJ	0.0019 UJ	0.0031 U	0.0028 U	0.0021 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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O'BRIEN & GERE ENGINEERS, INC.

Table C-7d
Solutia
Sauget Area 1
Air
Method 6010B/7470A/9010B Metals Data

	Sample ID	AIR-M-4	AIR-M-5	AIR-M-6	AIR-M-7	AIR-M-8	AIR-M-9	AIR-M-FB
	Sample Date	09/10/99	09/10/99	09/10/99	09/11/99	09/11/99	09/11/99	09/11/99
	Units	mg/filter	mg/filter	mg/filter	mg/filter	mg/filter	mg/filter	mg/filter
Compound								
Aluminum		0.0068 UJ	0.0039 UJ	0.0027 UJ	0.0029 UJ	0.0033 UJ	0.0042 UJ	0.0030 J
Antimony		0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Arsenic		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Barium		0.00091 UJ	0.00051 UJ	0.00063 UJ	0.00022 UJ	0.00020 UJ	0.00020 UJ	0.0010 U
Beryllium		0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U	0.00040 U
Cadmium		0.00050 U	0.00050 U	0.00050 U	0.00069	0.00064	0.00051	0.00050 U
Calcium		0.022 J	0.013 J	0.0082 UJ	0.011 J	0.0082 UJ	0.013 J	0.0018 J
Chromium		0.00017 UJ	0.00019 UJ	0.00014 UJ	0.00020 UJ	0.00017 UJ	0.00018 UJ	0.00016 J
Cobalt		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Copper		0.0081 J	0.014 J	0.018 J	0.0024 J	0.0013 UJ	0.0025 J	0.00045 J
Iron		0.0058 U	0.0035 UJ	0.0021 UJ	0.0037 UJ	0.0041 UJ	0.0030 UJ	0.0018
Lead		0.00057	0.00064	0.00055	0.0067	0.0064	0.0054	0.00050 U
Magnesium		0.0019 J	0.0024 J	0.050 U	0.0011 J	0.0011 J	0.0013 J	0.050 U
Manganese		0.00013 J	0.00012 UJ	0.000044 UJ	0.00012 UJ	0.00011 UJ	0.000099 UJ	0.0010 U
Molybdenum		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Nickel		0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Potassium		0.0021 UJ	0.0025 UJ	0.0013 UJ	0.0021 UJ	0.0021 UJ	0.0021 UJ	0.0011 J
Selenium		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Silver		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.000055 J
Sodium		0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Thallium		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Vanadium		0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Zinc		0.0025 U	0.0029 U	0.0016 UJ	0.0021 U	0.0020 UJ	0.0019 UJ	0.0010 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Air - PCDD/PCDF Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-7e
Solutia
Sauget Area 1
Air
Method 8290 PCDD/PCDF Data

	Sample ID	AIR-D-1	AIR-D-10	AIR-D-11	AIR-D-12	AIR-D-13	AIR-D-2	AIR-D-3
	Sample Date	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99
	Units	PS	PS	PS	PS	PS	PS	PS
Compound								
1,2,3,4,6,7,8,9-OCDD		2110 J	810 J	1220 J	913 J	652 J	1370 J	8670 J
1,2,3,4,6,7,8,9-OCDF		259 J	90.2 JM	66.3 J	83 J	57.3 J	250 J	747 J
1,2,3,4,6,7,8-HpCDD		259 J	159 J	162 J	182 J	153 J	160 J	600 J
1,2,3,4,6,7,8-HpCDF		17.3 UJ	14.9 UJ	8.6 UJ	66.7 JM	R	15.8 UJ	15.4 UJ
1,2,3,4,7,8,9-HpCDF		23.1 UJ	19.9 UJ	14 UJ	3 UJ	R	21 UJ	20.6 UJ
1,2,3,4,7,8-HxCDD		23.7 UJ	18.8 UJ	11.1 UJ	7.1 J	R	18.7 UJ	20.2 UJ
1,2,3,4,7,8-HxCDF		22.7 J	11.1 UJ	26 J	29.5 J	26.5 J	12.6 UJ	36.4 J
1,2,3,6,7,8-HxCDD		22.3 UJ	17.7 UJ	10.6 UJ	10.2 JM	R	17.6 UJ	18.9 UJ
1,2,3,6,7,8-HxCDF		15.4 UJ	10.6 UJ	5.6 UJ	12.2 JM	17.8 JM	12 UJ	11.1 UJ
1,2,3,7,8,9-HxCDD		55.2 JM	17.6 UJ	63.6 J	22 J	R	43 JM	79.2 JM
1,2,3,7,8,9-HxCDF		18.7 UJ	12.9 UJ	7.3 UJ	1.9 UJ	R	14.6 UJ	13.5 UJ
1,2,3,7,8-PeCDD		24.5 UJ	20.9 UJ	13 UJ	4 UJ	20.1 UJ	24.2 UJ	23 UJ
1,2,3,7,8-PeCDF		18.9 UJ	12 UJ	8.8 UJ	6.1 J	11.2 UJ	17 UJ	17 UJ
2,3,4,6,7,8-HxCDF		16.5 UJ	11.4 UJ	6.1 UJ	14.9 J	17.9 JM	12.9 UJ	11.9 UJ
2,3,4,7,8-PeCDF		19 UJ	12 UJ	9.2 UJ	6.9 JM	11.6 UJ	17.1 UJ	17.1 UJ
2,3,7,8-TCDD		19.5 UJ	11.9 UJ	7.8 UJ	4.7 JM	11.4 UJ	19.7 UJ	15.4 UJ
2,3,7,8-TCDF		15.3 UJ	10.3 UJ	20.8 JM	20.4 J	20.4 JM	16 UJ	13.3 UJ

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-7e
Solutia
Sauget Area 1
Air
Method 8290 PCDD/PCDF Data

	Sample ID	AIR-D-4	AIR-D-5	AIR-D-6	AIR-D-7	AIR-D-8	AIR-D-9	AIR-DFB
	Sample Date	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99	09/10/99
	Units	PS	PS	PS	PS	PS	PS	PS
Compound								
1,2,3,4,6,7,8,9-OCDD		3600 J	1050 J	2640 J	1550 J	1560 J	696 J	18.7 M
1,2,3,4,6,7,8,9-OCDF		632 J	58.5 J	84 UJ	186 UJ	146 JM	71.4 J	22.6 U
1,2,3,4,6,7,8-HpCDD		376 J	148 J	52.4 UJ	204 JM	213 J	161 J	8.3 U
1,2,3,4,6,7,8-HpCDF		14.6 UJ	12.8 UJ	36.1 UJ	39.4 UJ	13.9 UJ	10.1 UJ	4.2 U
1,2,3,4,7,8,9-HpCDF		19.5 UJ	17.1 UJ	48.2 UJ	56.3 UJ	18.6 UJ	13.5 UJ	6.8 U
1,2,3,4,7,8-HxCDD		20.2 UJ	14.4 UJ	48.8 UJ	---	19.7 UJ	13 UJ	4.3 U
1,2,3,4,7,8-HxCDF		12.2 UJ	9.4 UJ	29.2 UJ	---	30.4 J	26.3 J	2.5 U
1,2,3,6,7,8-HxCDD		18.9 UJ	13.5 UJ	45.9 UJ	---	18.5 UJ	12.2 UJ	4.2 U
1,2,3,6,7,8-HxCDF		11.6 UJ	9 UJ	27.9 UJ	---	12.1 UJ	7.7 UJ	2.4 U
1,2,3,7,8,9-HxCDD		18.9 UJ	13.5 UJ	45.8 UJ	---	71.5 JM	12.1 UJ	4.4 U
1,2,3,7,8,9-HxCDF		14.1 UJ	10.9 UJ	33.9 UJ	---	14.7 UJ	9.4 UJ	3.1 U
1,2,3,7,8-PeCDD		24.7 UJ	18.4 UJ	61.8 UJ	23.9 UJ	23.1 UJ	17.3 UJ	5.9 U
1,2,3,7,8-PeCDF		14.2 UJ	11.7 UJ	37.9 UJ	---	14.7 UJ	11.1 UJ	3.2 U
2,3,4,6,7,8-HxCDF		12.4 UJ	9.6 UJ	29.9 UJ	---	12.9 UJ	8.3 UJ	2.6 U
2,3,4,7,8-PeCDF		14.3 UJ	11.7 UJ	38 UJ	---	14.8 UJ	11.1 UJ	3.3 U
2,3,7,8-TCDD		16.6 UJ	12.2 UJ	39.1 UJ	18.3 UJ	14.7 UJ	10 UJ	3.2 U
2,3,7,8-TCDF		13.4 UJ	10.4 UJ	30.4 UJ	16.4 UJ	12.4 UJ	8.6 UJ	2.6 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-8

Summary Tables of Validated Analytical Data and Field/Equipment Blanks Biota (Fish Fillets)

APPENDIX C-8a

Biota (Fish Fillets) Semivolatile Organic Compound Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-8a
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,4-Trichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline		420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline		420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline		420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(b)fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-8a
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Butylbenzylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Chrysene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-butylphthalate		170 U	170 U	32 J	19 J	20 J	170 U	170 U
Di-n-octylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzofuran		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dimethylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Isophorone		170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Phenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethoxy)methane		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate		170 U	170 U	210 U	170 U	170 U	170 U	170 U
Total Semivolatiles		ND	ND	32	19	20	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8a
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,4-Trichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,2-Dichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,3-Dichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
1,4-Dichlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,2'-Oxybis(1-Chloropropane)		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4,5-Trichlorophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4,6-Trichlorophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dichlorophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,4-Dinitrophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
2,4-Dinitrotoluene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2,6-Dinitrotoluene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chloronaphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Chlorophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylnaphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Methylphenol (o-cresol)		170 U	170 U	170 U	170 U	170 U	170 U	170 U
2-Nitroaniline		420 U	420 U	420 U	420 U	420 U	420 U	420 U
2-Nitrophenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
3,3'-Dichlorobenzidine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Methylphenol/4-Methylphenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
3-Nitroaniline		420 U	420 U	420 U	420 U	420 U	420 U	420 U
4,6-Dinitro-2-methylphenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Bromophenylphenyl ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloro-3-methylphenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chloroaniline		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Chlorophenylphenyl ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
4-Nitroaniline		420 U	420 U	420 U	420 U	420 U	420 U	420 U
4-Nitrophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
Acenaphthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Acenaphthylene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(a)pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(b)fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(g,h,i)perylene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Benzo(k)fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8a
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8270C Semivolatile Organic Compound Data

	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Butylbenzylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Carbazole		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Chrysene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-butylphthalate		27 J	170 U	170 U	170 U	170 U	170 U	170 U
Di-n-octylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzo(a,h)anthracene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dibenzofuran		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Diethylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Dimethylphthalate		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluoranthene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Fluorene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorobutadiene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachlorocyclopentadiene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Hexachloroethane		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Indeno(1,2,3-cd)pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Isophorone		170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitroso-di-n-propylamine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
N-Nitrosodiphenylamine		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Naphthalene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Nitrobenzene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pentachlorophenol		420 U	420 U	420 U	420 U	420 U	420 U	420 U
Phenanthrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Phenol		170 U	170 U	170 U	170 U	170 U	170 U	170 U
Pyrene		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethoxy)methane		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Chloroethyl)ether		170 U	170 U	170 U	170 U	170 U	170 U	170 U
bis(2-Ethylhexyl)phthalate		170 U	130 J	100 J	84 J	100 J	95 J	140 J
Total Semivolatiles		27	130	100	84	100	95	140

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-8b

Biota (Fish Fillets)
Pesticide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-8b
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8081A Pesticide Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
4,4'-DDD		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
4,4'-DDE		13 U	15	21	5.2 J	3.5 J	5.9 J	6.6 J
4,4'-DDT		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Aldrin		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Alpha Chlordane		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Dieldrin		13 U	13 U	13 U	13 U	5.3 U	5.6 J	5.3 J
Endosulfan I		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Endosulfan II		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endosulfan sulfate		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endrin		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endrin aldehyde		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Endrin ketone		13 U	13 U	13 U	13 U	5.3 U	13 U	13 U
Gamma Chlordane		19 J	6.8 U	15	6.8 U	2.7 U	6.8 U	6.8 U
Heptachlor		1.5 J	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Heptachlor epoxide		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Methoxychlor		68 U	68 U	68 U	68 U	27 U	68 U	68 U
Toxaphene		680 U	680 U	680 U	680 U	270 U	680 U	680 U
alpha-BHC		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
beta-BHC		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
delta-BHC		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
gamma-BHC (Lindane)		6.8 U	6.8 U	6.8 U	6.8 U	2.7 U	6.8 U	6.8 U
Total Pesticides		20.5	15	36	5.2	3.5	11.5	11.9

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8b
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8081A Pesticide Data

	Sample ID	WB BP FILLET 2	WC BP COMP 1	WC BP COMP 2	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	10/04/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
4,4'-DDD		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
4,4'-DDE		9.2 J	13 U	4.0 U	1.2 J	0.80 J	2.6 U	2.6 U
4,4'-DDT		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Aldrin		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Alpha Chlordane		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Dieldrin		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endosulfan I		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Endosulfan II		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endosulfan sulfate		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endrin		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endrin aldehyde		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Endrin ketone		4.0 U	13 U	4.0 U	2.6 U	2.6 U	2.6 U	2.6 U
Gamma Chlordane		4.7 J	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Heptachlor		2.0 U	6.8 U	2.0 U	1.3 J	1.1 J	1.8 J	1.4 U
Heptachlor epoxide		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Methoxychlor		20 UJ	68 U	20 UJ	14 U	14 U	14 U	14 U
Toxaphene		110 U	680 U	110 U	72 U	72 U	72 U	72 U
alpha-BHC		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
beta-BHC		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
delta-BHC		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
gamma-BHC (Lindane)		2.0 U	6.8 U	2.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Total Pesticides		13.9	ND	ND	2.5	1.9	1.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-8c

Biota (Fish Fillets) Herbicide Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-8c
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8151A Herbicide Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
2,4,5-T		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2,4,5-TP (Silvex)		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2,4-D		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U
2,4-DB		10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U
Dalapon		2000 UJ	2000 UJ	2000 U	2000 U	2000 U	2000 UJ	2000 U
Dicamba		1.9 J	20 UJ	10 U	20 U	20 U	20 UJ	20 U
Dichloroprop		100 UJ	100 UJ	100 U	100 U	100 U	100 UJ	100 U
Dinoseb		100 UJ	100 UJ	100 U	100 U	100 U	100 UJ	100 U
MCPA		2000 U	2000 UJ	1800 J	2000 U	2000 U	2000 UJ	2000 U
MCPP		2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 UJ	2000 U
Pentachlorophenol		10 U	20 UJ	10 U	10 U	10 U	20 UJ	10 U
Total Herbicides		1.9	ND	1800	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8c
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8151A Herbicide Data

	Sample ID	WB BP FILLET 1	WB BP FILLET 2	WC BP COMP 1	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	10/04/99	10/04/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
2,4,5-T		10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2,4,5-TP (Silvex)		10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2,4-D		10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
2,4-DB		10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Dalapon		2000 U	2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 U
Dicamba		20 U	20 U	20 UJ	20 U	20 U	20 U	20 U
Dichloroprop		100 U	100 U	100 UJ	100 U	100 U	100 U	100 U
Dinoseb		100 U	100 U	100 UJ	100 U	100 U	100 U	100 U
MCPA		2000 U	2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 U
MCPP		2000 U	2000 U	2000 UJ	2000 U	2000 U	2000 U	2000 U
Pentachlorophenol		20 U	20 U	20 UJ	20 U	20 U	3.8 J	20 U
Total Herbicides		ND	ND	ND	ND	ND	3.8	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis.

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Biota (Fish Fillets)
Polychlorinated Biphenyl Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-8d
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 680 Polychlorinated Biphenyl Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Decachlorobiphenyl		50 U	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ
Dichlorobiphenyl		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Heptachlorobiphenyl		16 J	30 UJ	21 J	30 U	30 U	30 UJ	30 UJ
Hexachlorobiphenyl		120 J	44 J	150	20 U	9.3 J	20 UJ	20 UJ
Monochlorobiphenyl		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Nonachlorobiphenyl		50 U	50 UJ	50 U	50 U	50 U	50 UJ	50 UJ
Octachlorobiphenyl		30 U	30 UJ	30 U	30 U	30 U	30 UJ	30 UJ
Pentachlorobiphenyl		110 J	30 J	130	20 U	9.5 J	20 UJ	20 UJ
Tetrachlorobiphenyl		46 J	20 UJ	19 J	20 U	20 U	20 UJ	20 UJ
Trichlorobiphenyl		10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Total PCBs		292	74	320	ND	18.8	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE
ENGINEERS, INC.

Table C-8d
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 680 Polychlorinated Biphenyl Data

	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
Decachlorobiphenyl		50 U	100 U	100 U	50 U	50 U	50 U	50 U
Dichlorobiphenyl		10 U	20 U	20 U	10 U	10 U	10 U	10 U
Heptachlorobiphenyl		30 U	60 U	60 U	30 U	30 U	30 U	30 U
Hexachlorobiphenyl		20 U	40 U	40 U	20 U	20 U	20 U	20 U
Monochlorobiphenyl		10 U	20 U	20 U	10 U	10 U	10 U	10 U
Nonachlorobiphenyl		50 U	100 U	100 U	50 U	50 U	50 U	50 U
Octachlorobiphenyl		30 U	60 U	60 U	30 U	30 U	30 U	30 U
Pentachlorobiphenyl		20 U	40 U	40 U	20 U	20 U	20 U	20 U
Tetrachlorobiphenyl		20 U	40 U	40 U	20 U	20 U	20 U	20 U
Trichlorobiphenyl		10 U	20 U	20 U	10 U	10 U	10 U	10 U
Total PCBs		ND	ND	ND	ND	ND	ND	ND

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-8e

Biota (Fish Fillets) Metals Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-8e
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 6010B/7471A/9010B Metals Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound								
Aluminum		13 U	19 J	33 J	35 J	81 J	22 J	27 J
Antimony		0.18 U	0.18 U	0.2 U	0.2 U	0.18 U	0.18 U	0.17 U
Arsenic		4.5 UJ	10 UJ	4.5 UJ	5 UJ	5 UJ	1.8 UJ	5 UJ
Beryllium		0.91 U	0.91 U	1 U	1 U	0.91 U	0.91 U	0.83 U
Cadmium		0.45 U	0.45 U	0.5 U	0.5 U	0.45 U	0.45 U	0.42 U
Chromium		0.55	0.45 J	0.93	0.35 J	0.36 J	0.19 J	0.22 J
Copper		0.41 J	0.52 J	0.68 J	0.84 J	0.48 J	0.36 J	0.4 J
Cyanide, Total		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead		0.45 U	0.45 U	0.5 U	0.5 U	0.45 U	0.45 U	0.42 U
Mercury		0.016 UJ	0.057 J	0.064 J	0.097 J	0.14 J	0.1 J	0.1 J
Nickel		9.1 U	9.1 U	10 U	10 U	9.1 U	9.1 U	8.3 U
Selenium		0.63	0.45 U	0.6	0.5 U	0.53	0.75	0.86
Silver		0.091 U	0.1 U	0.091 U	0.1 U	0.091 U	0.091 U	0.1 U
Zinc		15 J	17 J	19 J	15 J	13 J	9.2 J	8.5 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8e
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 6010B/7471A/9010B Metals Data

	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99	11/02/99	11/02/99
	Units	mg/kg	mg/kg	mg/kg dw	mg/kg	mg/kg	mg/kg	mg/kg
Compound								
Aluminum		5.8 UJ	5.8 UJ	8.6 U	5.0 UJ	9.4 U	5.7 UJ	4.9 U
Antimony		0.18 U	0.18 U	0.17 U	0.17 U	0.18 U	0.20 U	0.18 U
Arsenic		0.45 J	1.8 UJ	1.7 UJ	2.0 UJ	1.0 UJ	2.0 UJ	0.91 UJ
Beryllium		0.91 U	0.91 U	0.83 U	0.83 U	0.91 U	1.0 U	0.91 U
Cadmium		0.45 U	0.45 U	0.42 U	0.42 U	0.45 U	0.50 U	0.45 U
Chromium		0.45 U	0.22 J	0.42 U	0.42 U	0.21 J	0.50 U	0.45 U
Copper		0.25 J	0.57 J	1.7 U	0.32 J	0.23 J	2.0 U	0.21 J
Cyanide, Total		10 U	10 U	10 U	10 U	10 U	10 U	10 U
Lead		0.45 U	0.45 U	0.42 U	0.42 U	0.45 U	0.50 U	0.45 U
Mercury		0.02 UJ	0.10 UJ	0.027 J	0.037 J	0.052 J	0.052 J	0.041 J
Nickel		9.1 U	9.1 U	8.3 U	8.3 U	9.1 U	10 U	9.1 U
Selenium		0.45 U	0.45 U	0.42 U	0.42 U	0.45 U	0.73	0.45 U
Silver		0.091 U	0.091 U	0.083 U	0.083 U	0.091 U	0.10 U	0.091 U
Zinc		7.9 J	7.1 J	9.2 J	7.1 J	7.0 J	6.4 J	5.4 J

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-8f

Biota (Fish Fillets) Lipids Data

O'BRIEN & GERE
ENGINEERS, INC.

Table C-8f
Solutia
Sauget Area 1
Biota - Fish Fillets
Method EX41 Lipids Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	10/04/99	11/03/99	11/02/99	11/01/99	11/01/99	10/08/99	11/02/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		1.8	1.5	1.5	0.87	0.66	2.4	0.83

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8f
Solutia
Sauget Area 1
Biota - Fish Fillets
Method EX41 Lipids Data

	Sample ID	WB BP FILLET 1	WB BP FILLET 2	WC BP COMP 1	WC BP COMP 2	WC BP-COMP 3	WC REF1 COMP 1	WC REF1 COMP 2
	Sample Date	10/04/99	10/04/99	10/04/99	11/01/99	11/01/99	10/04/99	11/01/99
	Units	%	%	%	%	%	%	%
Compound								
% Lipids		0.20	1.5	0.15	0.18	0.16	0.56	0.25

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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APPENDIX C-8g

Biota (Fish Fillets)
Dioxin Data

O'BRIEN & GERE ENGINEERS, INC.

Table C-8g
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8290 PCDD/PCDF Data

	Sample ID	LMB BP COMP 1	LMB BP COMP 2	LMB BP COMP 3	LMB REF 1 COMP 1	LMB REF 1 COMP 2	LMB REF 2 COMP 1	LMB REF 2 COMP 2
	Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		0.0086 M	0.0161 M	0.0145 M	0.0123	0.0105	0.0106	0.0055
1,2,3,4,6,7,8,9-OCDF		0.0017 M	0.0021 M	0.0025 M	0.001 U	0.0007 U	0.0008 U	0.0018 U
1,2,3,4,6,7,8-HpCDD		0.0014 M	0.002 M	0.0018 M	0.0008 U	0.0005 U	0.0007 U	0.0014 U
1,2,3,4,6,7,8-HpCDF		0.0001 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0004 U	0.0007 U
1,2,3,4,7,8,9-HpCDF		0.0002 U	0.0003 U	0.0005 U	0.0008 U	0.0005 U	0.0006 U	0.0012 U
1,2,3,4,7,8-HxCDD		0.0002 U	0.0003 U	0.0004 U	0.0006 U	0.0003 U	0.0004 U	0.001 U
1,2,3,4,7,8-HxCDF		0.00048	0.0002 U	0.0003 U	0.00084	0.0002 U	0.0011	0.0011
1,2,3,6,7,8-HxCDD		0.00054	0.00038 M	0.0003 U	0.0005 U	0.0003 U	0.0003 U	0.0008 U
1,2,3,6,7,8-HxCDF		0.00023	0.0002 U	0.0002 U	0.0003 U	0.0002 U	0.0002 U	0.0006 U
1,2,3,7,8,9-HxCDD		0.0001 U	0.0003 U	0.0004 U	0.0007 U	0.0003 U	0.0004 U	0.0011 U
1,2,3,7,8,9-HxCDF		0.0001 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0003 U	0.0008 U
1,2,3,7,8-PeCDD		0.00076 M	0.00063 M	0.00081	0.0006 U	0.0004 U	0.0005 U	0.0011 U
1,2,3,7,8-PeCDF		0.00008 U	0.0001 U	0.0011	0.0004 U	0.0002 U	0.0003 U	0.0006 U
2,3,4,6,7,8-HxCDF		0.00038	0.0002 U	0.0003 U	0.0004 U	0.0002 U	0.0003 U	0.0007 U
2,3,4,7,8-PeCDF		0.00071	0.00062 M	0.00097	0.0004 U	0.0002 U	0.0003 U	0.0006 U
2,3,7,8-TCDD		0.0009	0.00075	0.0011 M	0.0004 U	0.0003 U	0.0003 U	0.0008 U
2,3,7,8-TCDF		0.0114	0.0083	0.0081	0.0003 U	0.0002 U	0.0016 J	0.0006 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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O'BRIEN & GERE ENGINEERS, INC.

Table C-8g
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8290 PCDD/PCDF Data

	Sample ID	WC BP COMP 1	WC BP COMP 2	WC BP COMP 3	WC REF1 COMP 1	WC REF1 COMP 2	WC REF2 COMP 1	WC REF2 COMP 2
	Sample Date	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00	01/25/00
	Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Compound								
1,2,3,4,6,7,8,9-OCDD		0.099 M	0.0046 M	0.0014 M	0.0184 M	0.0098 M	0.0008 U	0.0027 M
1,2,3,4,6,7,8,9-OCDF		0.0212 M	0.0006 U	0.0004 U	0.0038 M	0.0016 M	0.0006 U	0.0006 U
1,2,3,4,6,7,8-HpCDD		0.0134	0.0005 U	0.0003 U	0.0023 M	0.0012 M	0.0005 U	0.0005 U
1,2,3,4,6,7,8-HpCDF		0.0025	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0003 U	0.0002 U
1,2,3,4,7,8,9-HpCDF		0.0004 U	0.0004 U	0.0003 U	0.0003 U	0.0006 U	0.0004 U	0.0003 U
1,2,3,4,7,8-HxCDD		0.0003 U	0.0003 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0002 U
1,2,3,4,7,8-HxCDF		0.0002 U	0.0002 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0001 U
1,2,3,6,7,8-HxCDD		0.0003 U	0.0003 U	0.0002 U	0.0002 U	0.0004 U	0.0003 U	0.0002 U
1,2,3,6,7,8-HxCDF		0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0003 U	0.0002 U	0.0001 U
1,2,3,7,8,9-HxCDD		0.0003 U	0.0003 U	0.0002 U	0.0003 U	0.0005 U	0.0003 U	0.0002 U
1,2,3,7,8,9-HxCDF		0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0002 U	0.0002 U
1,2,3,7,8-PeCDD		0.0003 U	0.0003 U	0.0002 U	0.0002 U	0.0004 U	0.0003 U	0.0002 U
1,2,3,7,8-PeCDF		0.0002 U	0.0002 U	0.0001 U	0.0002 M	0.0013	0.0002 U	0.0002 U
2,3,4,6,7,8-HxCDF		0.0002 U	0.0002 U	0.0001 U	0.0002 U	0.0003 U	0.0002 U	0.0002 U
2,3,4,7,8-PeCDF		0.0002 U	0.0002 U	0.0001 U	0.0001 U	0.0003 U	0.0002 U	0.0002 U
2,3,7,8-TCDD		0.0231	0.0002 U	0.0002 U	0.0002 U	0.0004 U	0.0002 U	0.0002 U
2,3,7,8-TCDF		0.0011	0.0016	0.0012	0.0001 U	0.0003 U	0.0002 U	0.0002 U

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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Table C-8g
Solutia
Sauget Area 1
Biota - Fish Fillets
Method 8290 PCDD/PCDF Data

	Sample ID	WC REF2 COMP 2FD
	Sample Date	01/25/00
	Units	ug/kg
Compound		
1,2,3,4,6,7,8,9-OCDD		0.0005 U
1,2,3,4,6,7,8,9-OCDF		0.0004 U
1,2,3,4,6,7,8-HpCDD		0.0003 U
1,2,3,4,6,7,8-HpCDF		0.0002 U
1,2,3,4,7,8,9-HpCDF		0.0003 U
1,2,3,4,7,8-HxCDD		0.0002 U
1,2,3,4,7,8-HxCDF		0.0001 U
1,2,3,6,7,8-HxCDD		0.0002 U
1,2,3,6,7,8-HxCDF		0.0001 U
1,2,3,7,8,9-HxCDD		0.0002 U
1,2,3,7,8,9-HxCDF		0.0002 U
1,2,3,7,8-PeCDD		0.0001 U
1,2,3,7,8-PeCDF		0.0001 U
2,3,4,6,7,8-HxCDF		0.0001 U
2,3,4,7,8-PeCDF		0.0001 U
2,3,7,8-TCDD		0.0001 U
2,3,7,8-TCDF		0.00039

NOTES: U - not detected, J - estimated value, N - tentatively identified, R - rejected, M - EMPC, D - result from diluted analysis

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