

Semi-volatile analysis by GC/MS - EPA8270C

Batch QC report

Test Method: 8270C

Prep Method: 3550B/8270C

STL San Francisco
1220 Quarry Lane
Pleasanton, CA 94566

Laboratory Control Spike (LCS/LCSD) Soil QC Batch # 2002/06/04-03.11
 LCS: 2002/06/04-03.11-002 Extracted: 06/04/2002 10:37 Analyzed: 06/04/2002 17:30
 LCSD: 2002/06/04-03.11-003 Extracted: 06/04/2002 10:37 Analyzed: 06/04/2002 17:59

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CA DHS ELAP#2496

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery		RPD	Ctrl.Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recover	RPD	LCS	LCSD
Phenol	1.40	1.42	2.00	2.00	70.0	71.0	1.4	20-90	35		
2-Chlorophenol	1.47	1.56	2.00	2.00	73.5	78.0	5.9	27-123	35		
1,4-Dichlorobenzene	0.660	0.700	0.998	1.000	66.1	70.0	5.7	28-104	30		
N-Nitroso-di-n-propyla	0.760	0.780	0.998	1.000	76.2	78.0	2.3	25-114	39		
1,2,4-Trichlorobenzene	0.700	0.740	0.998	1.000	70.1	74.0	5.4	38-107	35		
4-Chloro-3-methylphen	1.48	1.50	2.00	2.00	74.0	75.0	1.3	26-103	33		
Acenaphthene	0.750	0.750	0.998	1.000	75.2	75.0	0.3	49-102	30		
4-Nitrophenol	1.71	1.82	2.00	2.00	85.5	91.0	6.2	17-109	35		
2,4-Dinitrotoluene	0.700	0.720	0.998	1.000	70.1	72.0	2.7	39-139	38		
Pentachlorophenol	1.54	1.59	2.00	2.00	77.0	79.5	3.2	11-114	35		
Pyrene	0.680	0.650	0.998	1.000	68.1	65.0	4.7	25-117	35		
Surrogate(s)											
Nitrobenzene-d5	16.3	15.6	25	25	65.2	62.4		23-120			
2-Fluorobiphenyl	21.0	20.1	25	25	84.0	80.4		30-115			
p-Terphenyl-d14	19.5	17.1	25	25	78.0	68.4		18-137			
2-Fluorophenol	33.3	31.3	50	50	66.6	62.6		25-121			
Phenol-d6	39.1	37.9	50	50	78.2	75.8		24-113			
2,4,6-Tribromophenol	39.5	39.4	50	50	79.0	78.8		19-122			

LABORATORY DATA

Submission #: 2002-06-0007

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Block Environmental	✉ 2455 Estand Way Pleasant Hill, CA 94523
Attn: Ron Block	Phone: (925) 686-3215 Fax: (925) 686-0399
	Project:

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
P.O.C. SORB	Solid	05/31/2002	1

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Block Environmental

Attn: Ron Block

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CA DHS ELAP#2496

Sample ID: P.O.C. SORB	Lab Sample ID: 2002-06-0007-001
Project:	Received: 05/31/2002 17:43
	Extracted: 06/04/2002 10:37
Sampled: 05/31/2002	QC-Batch: 2002/06/04-03.11
Matrix: Solid	
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Phenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Bis(2-chloroethyl)ether	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2-Chlorophenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
1,3-Dichlorobenzene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
1,4-Dichlorobenzene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Benzyl alcohol	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
1,2-Dichlorobenzene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2-Methylphenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Bis(2-chloroisopropyl) ether	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
4-Methylphenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
N-Nitroso-di-n-propylamine	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Hexachloroethane	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Nitrobenzene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Isophorone	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2-Nitrophenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2,4-Dimethylphenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Bis(2-chloroethoxy) methane	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
2,4-Dichlorophenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
1,2,4-Trichlorobenzene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Naphthalene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
4-Chloroaniline	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Hexachlorobutadiene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
4-Chloro-3-methylphenol	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
2-Methylnaphthalene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Hexachlorocyclopentadiene	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
2,4,6-Trichlorophenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2,4,5-Trichlorophenol	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2-Chloronaphthalene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2-Nitroaniline	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
Dimethyl phthalate	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
Acenaphthylene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
3-Nitroaniline	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Acenaphthene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2,4-Dinitrophenol	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
4-Nitrophenol	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
Dibenzofuran	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2,4-Dinitrotoluene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
2,6-Dinitrotoluene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	

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Block Environmental

Attn: Ron Block

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Prep Method: 3550B/8270C

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CA DHS ELAP#2496

Sample ID: P.O.C. SORB	Lab Sample ID: 2002-06-0007-001
Project:	Received: 05/31/2002 17:43
	Extracted: 06/04/2002 10:37
Sampled: 05/31/2002	QC-Batch: 2002/06/04-03.11
Matrix: Solid	
Sample/Analysis Flag: rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diethyl phthalate	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
4-Chlorophenyl phenyl ether	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
Fluorene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
4-Nitroaniline	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
2-Methyl-4,6-dinitrophenol	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
N-Nitrosodiphenylamine	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
4-Bromophenyl phenyl ether	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
Hexachlorobenzene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Pentachlorophenol	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
Phenanthrene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Anthracene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Di-n-butyl phthalate	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
Fluoranthene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Pyrene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Butyl benzyl phthalate	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
3,3-Dichlorobenzidine	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
Benzo(a)anthracene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
bis(2-Ethylhexyl) phthalate	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
Chrysene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Di-n-octyl phthalate	ND	0.51	mg/Kg	2.99	06/05/2002 17:25	
Benzo(b)fluoranthene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Benzo(k)fluoranthene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Benzo(a)pyrene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Indeno(1,2,3-c,d)pyrene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Dibenzo(a,h)anthracene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Benzo(g,h,i)perylene	ND	0.20	mg/Kg	2.99	06/05/2002 17:25	
Benzoic acid	ND	0.99	mg/Kg	2.99	06/05/2002 17:25	
Surrogate(s)						
Nitrobenzene-d5	38.0	23-120	%	2.99	06/05/2002 17:25	
2-Fluorobiphenyl	45.9	30-115	%	2.99	06/05/2002 17:25	
p-Terphenyl-d14	39.3	18-137	%	2.99	06/05/2002 17:25	
2-Fluorophenol	20.1	25-121	%	2.99	06/05/2002 17:25	sl
Phenol-d6	29.0	24-113	%	2.99	06/05/2002 17:25	
2,4,6-Tribromophenol	41.7	19-122	%	2.99	06/05/2002 17:25	

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Method Blank

Soil

QC Batch # 2002/06/04-03.11

MB: 2002/06/04-03.11-001

Date Extracted: 06/04/2002 10:37

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Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	06/04/2002 17:01	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	06/04/2002 17:01	
2-Chlorophenol	ND	0.067	mg/Kg	06/04/2002 17:01	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	06/04/2002 17:01	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	06/04/2002 17:01	
Benzyl alcohol	ND	0.17	mg/Kg	06/04/2002 17:01	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	06/04/2002 17:01	
2-Methylphenol	ND	0.067	mg/Kg	06/04/2002 17:01	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	06/04/2002 17:01	
4-Methylphenol	ND	0.067	mg/Kg	06/04/2002 17:01	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	06/04/2002 17:01	
Hexachloroethane	ND	0.067	mg/Kg	06/04/2002 17:01	
Nitrobenzene	ND	0.067	mg/Kg	06/04/2002 17:01	
Isophorone	ND	0.067	mg/Kg	06/04/2002 17:01	
2-Nitrophenol	ND	0.067	mg/Kg	06/04/2002 17:01	
2,4-Dimethylphenol	ND	0.067	mg/Kg	06/04/2002 17:01	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	06/04/2002 17:01	
2,4-Dichlorophenol	ND	0.067	mg/Kg	06/04/2002 17:01	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	06/04/2002 17:01	
Naphthalene	ND	0.067	mg/Kg	06/04/2002 17:01	
4-Chloroaniline	ND	0.067	mg/Kg	06/04/2002 17:01	
Hexachlorobutadiene	ND	0.067	mg/Kg	06/04/2002 17:01	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	06/04/2002 17:01	
2-Methylnaphthalene	ND	0.067	mg/Kg	06/04/2002 17:01	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	06/04/2002 17:01	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	06/04/2002 17:01	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	06/04/2002 17:01	
2-Chloronaphthalene	ND	0.067	mg/Kg	06/04/2002 17:01	
2-Nitroaniline	ND	0.33	mg/Kg	06/04/2002 17:01	
Dimethyl phthalate	ND	0.17	mg/Kg	06/04/2002 17:01	
Acenaphthylene	ND	0.067	mg/Kg	06/04/2002 17:01	
3-Nitroaniline	ND	0.067	mg/Kg	06/04/2002 17:01	
Acenaphthene	ND	0.067	mg/Kg	06/04/2002 17:01	
2,4-Dinitrophenol	ND	0.33	mg/Kg	06/04/2002 17:01	
4-Nitrophenol	ND	0.33	mg/Kg	06/04/2002 17:01	
Dibenzofuran	ND	0.067	mg/Kg	06/04/2002 17:01	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	06/04/2002 17:01	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	06/04/2002 17:01	
Diethyl phthalate	ND	0.17	mg/Kg	06/04/2002 17:01	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	06/04/2002 17:01	

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Method Blank

Soil

QC Batch # 2002/06/04-03.11

MB: 2002/06/04-03.11-001

Date Extracted: 06/04/2002 10:37

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CA DHS ELAP#2496

Compound	Result	Rep.Limit	Unit	Analyzed	Flag
Fluorene	ND	0.067	mg/Kg	06/04/2002 17:01	
4-Nitroaniline	ND	0.33	mg/Kg	06/04/2002 17:01	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	06/04/2002 17:01	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	06/04/2002 17:01	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	06/04/2002 17:01	
Hexachlorobenzene	ND	0.067	mg/Kg	06/04/2002 17:01	
Pentachlorophenol	ND	0.33	mg/Kg	06/04/2002 17:01	
Phenanthrene	ND	0.067	mg/Kg	06/04/2002 17:01	
Anthracene	ND	0.067	mg/Kg	06/04/2002 17:01	
Di-n-butyl phthalate	ND	0.17	mg/Kg	06/04/2002 17:01	
Fluoranthene	ND	0.067	mg/Kg	06/04/2002 17:01	
Pyrene	ND	0.067	mg/Kg	06/04/2002 17:01	
Butyl benzyl phthalate	ND	0.17	mg/Kg	06/04/2002 17:01	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	06/04/2002 17:01	
Benzo(a)anthracene	ND	0.067	mg/Kg	06/04/2002 17:01	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	06/04/2002 17:01	
Chrysene	ND	0.067	mg/Kg	06/04/2002 17:01	
Di-n-octyl phthalate	ND	0.17	mg/Kg	06/04/2002 17:01	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	06/04/2002 17:01	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	06/04/2002 17:01	
Benzo(a)pyrene	ND	0.067	mg/Kg	06/04/2002 17:01	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	06/04/2002 17:01	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	06/04/2002 17:01	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	06/04/2002 17:01	
Benzoic acid	ND	0.33	mg/Kg	06/04/2002 17:01	
Surrogate(s)					
Nitrobenzene-d5	76.9	23-120	%	06/04/2002 17:01	
2-Fluorobiphenyl	85.9	30-115	%	06/04/2002 17:01	
p-Terphenyl-d14	70.7	18-137	%	06/04/2002 17:01	
2-Fluorophenol	73.9	25-121	%	06/04/2002 17:01	
Phenol-d6	77.6	24-113	%	06/04/2002 17:01	
2,4,6-Tribromophenol	90.1	19-122	%	06/04/2002 17:01	

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Legend & Notes

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Analysis Flags

rl
Reporting limits raised due to reduced sample size.

Analyte Flags

sl
Surrogate recoveries were lower than QC limit due to matrix interference,
confirmed by reanalysis.