EPA Region 5 Records Ctr.
379072

REMOVAL ACTION CONSTRUCTION COMPLETION REPORT

for the

TREATMENT OF IMPACTED SOILS

at the

GRANVILLE SOLVENTS SITE

PREPARED FOR

THE GRANVILLE SOLVENTS SITE RESPONSE MANAGEMENT GROUP, L.L.C.
C/O THOMPSON HINE
SUITE 700, 10 WEST BROAD STREET
COLUMBUS, OH 43215

SHARP Environmental Engineers and Scientists
AND ASSOCIATES, INC.

982 Crupper Avenue
Columbus, Ohio 43229
(614) 841-4650
Fax (614) 841-4660

APPENDIX B
ANALYTICAL RESULTS

BULK SAMPLE ANALYSIS REPORT FOR ASBESTOS CONCENTRATION

CHRYATECH
ENVIRONMENTAL CONSULTANTS

Report Number 73137

CLIENT INFORMATION
Sharp & Associates
982 Crupper Avenue
Columbus OH 43229
Contact

Project. No.	P.O. No.	No. of Samples Rec'd	No. of Sample Analyzed	Date Sampled	Date Received	Date Analyzed	Report Date
062501		12	12	6/25/2001	6/26/2001	6/26/2001	7/12/2001

Project Name/Address: GRANVILLE SOLVENTS
Work Area/Location: BREAK ROOM

** NVLAP Lab Code #101150-0 analyzed the samples by "Method for the Determination of Asbestos In Bulk Building Materials" - EPA/600/R-93/116. Analytical data is valid only for that portion of material analyzed. This report does not constitute product endorsement by any agency of the U.S. Government.*

Client Sample No.	Laboratory Sample No.*	Sample Description (as provided by the Client)	Asbestos % Chry	Amo	Other	Other Fibers% Fbrgls	Cellu.	Other	Special Instructions	H/I**	Color	Cmnt. No.***
BR-01	73137-01	FLOOR TILE - BREAK ROOM FLOOR	3					97		H	Tan	
BR-02	73137-02	FLOOR TILE - BREAK ROOM FLOOR	4					96		H	Tan	
BR-03	73137-03	FLOOR TILE - BREAK ROOM FLOOR	3					97		H	Tan	
BR-04	73137-04	INSULATION - CEILING INSULATION - BREAK ROOM				97		3		H	Pink	1
BR-05	73137-05	INSULATION - CEILING INSULATION - BREAK ROOM				97		3		H	Pink	1
BR-06	73137-06	INSULATION - CEILING INSULATION - BREAK ROOM				97		3		H	Pink	1
BR-07	73137-07	WALL BOARD - WALL BOARD - BREAK ROOM					90	10		H	Brown	1
BR-08	73137-08	WALL BOARD - WALL BOARD - BREAK ROOM					90	10		H	Brown	1
BR-09	73137-09	WALL BOARD - WALL BOARD - BREAK ROOM					90	10		H	Brown	1
MB-01	73137-10	WALL BOARD - MAIN BUILDING					20	80		H	Gray	1
MB-02	73137-11	WALL BOARD - MAIN BUILDING					20	80		H	Gray	1
MB-03	73137-12	WALL BOARD - MAIN BUILDING					20	80		H	Gray	1

*****COMMENTS:** (for this page only) "N" Indicates sample was not analyzed at the client's request. ** H=Homogeneous I=Inhomogeneous

1. No asbestos detected. 2. Sample contains TRACE (less than or equal to one percent) amount of fibers specified. 3. Sample contains more than one layer. Layers have been analyzed and results combined. A single analysis is provided for the sample. 4. Floor tile may contain fibers too small to be detected by the analysis method. 5. Sample not analyzed.

REVIEWED BY: _____

Chryatech, Incorporated • P.O. Box 1040 • 616 Hebron Road, Suite F • Newark, Ohio 43058-1040 • 740-522-5564 • fax 740-522-8270

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www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

July 16, 2001

Mr. Steven Roach
Sharp and Associates, Inc.
982 Crupper Avenue
Columbus, OH 43229

RE: Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

Dear Mr. Roach:

Enclosed are the analytical results for sample(s)received by the laboratory on June 28, 2001. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mick Mayse

Mick Mayse
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Sharp and Associates, Inc.
982 Cropper Avenue
Columbus, OH 43229

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

Attn: Mr. Steven Roach
Phone: 614-841-4650

Solid results are reported on a wet weight basis

Lab Sample No: 501123079 | Project Sample Number: 5015457-001 | Date Collected: 06/27/01 12:15
Client Sample ID: GVS-FC-1 | Matrix: Soil | Date Received: 06/28/01 10:00

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Metals								
RCRA Metals, ICP, TCLP Leach.	Prep/Method: EPA 3010 / EPA 6010							
Arsenic	ND	mg/l	0.0500	07/09/01 23:38	HEB	7440-38-2		
Barium	0.316	mg/l	0.100	07/09/01 23:38	HEB	7440-39-3		
Cadmium	ND	mg/l	0.0100	07/09/01 23:38	HEB	7440-43-9		
Chromium	ND	mg/l	0.0500	07/09/01 23:38	HEB	7440-47-3		
Lead	ND	mg/l	0.0500	07/09/01 23:38	HEB	7439-92-1		
Selenium	ND	mg/l	0.0100	07/09/01 23:38	HEB	7782-49-2		
Silver	ND	mg/l	0.0500	07/09/01 23:38	HEB	7440-22-4		
Date Digested				07/09/01				
Mercury, CVAAS, TCLP Leachate	Prep/Method: EPA 7470 / EPA 7470							
Mercury	ND	ug/l	2.00	07/09/01	HEB	7439-97-6		
Semivolatile Organics, TCLP	Prep/Method: EPA 1311 / EPA 8270							
Date Digested				07/05/01				
GC/MS Semivolatiles								
Semivolatile Organics, TCLP	Prep/Method: EPA 3510 / EPA 8270							
1,4-Dichlorobenzene	ND	ug/l	100	07/16/01 10:25	DKS	106-46-7		
2-Methylphenol (o-Cresol)	ND	ug/l	100	07/16/01 10:25	DKS	95-48-7		
3&4-Methylphenol	ND	ug/l	200	07/16/01 10:25	DKS			
Nitrobenzene	ND	ug/l	100	07/16/01 10:25	DKS	98-95-3		
Hexachloro-1,3-butadiene	ND	ug/l	100	07/16/01 10:25	DKS	87-68-3		
2,4,6-Trichlorophenol	ND	ug/l	100	07/16/01 10:25	DKS	88-06-2		
2,4,5-Trichlorophenol	ND	ug/l	500	07/16/01 10:25	DKS	95-95-4		
2,4-Dinitrotoluene	ND	ug/l	100	07/16/01 10:25	DKS	121-14-2		
Hexachlorobenzene	ND	ug/l	100	07/16/01 10:25	DKS	118-74-1		

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

Lab Sample No: 501123079 | Project Sample Number: 5015457-001 | Date Collected: 06/27/01 12:15
Client Sample ID: GVS-FC-1 | Matrix: Soil | Date Received: 06/28/01 10:00

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Pentachlorophenol	ND	ug/l	500	07/16/01 10:25	DKS	87-86-5		
Pyridine	ND	ug/l	100	07/16/01 10:25	DKS	110-86-1		
Hexachloroethane	ND	ug/l	100	07/16/01 10:25	DKS	67-72-1		
Nitrobenzene-d5 (S)	88	%		07/16/01 10:25	DKS	4165-60-0		
2-Fluorobiphenyl (S)	76	%		07/16/01 10:25	DKS	321-60-8		
Terphenyl-d14 (S)	86	%		07/16/01 10:25	DKS	1718-51-0		
Phenol-c6 (S)	77	%		07/16/01 10:25	DKS	13127-88-3		
2-Fluorophenol (S)	66	%		07/16/01 10:25	DKS	367-12-4		
2,4,6-Tribromophenol (S)	87	%		07/16/01 10:25	DKS			
Date Extracted				07/13/01				

GC/MS Volatiles

GC/MS VOCs by 8260	Prep/Method: EPA 8260 / EPA 8260					
Dichlorodifluoromethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-71-8
Chloromethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	74-87-3
Vinyl chloride	ND	ug/kg	2.0	07/09/01 13:41	CAC	75-01-4
Bromomethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	74-83-9
Chloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-00-3
Trichlorofluoromethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-69-4
Methylene chloride	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-09-2
1,1-Dichloroethene	33.	ug/kg	5.0	07/09/01 13:41	CAC	75-35-4
trans-1,2-Dichloroethene	ND	ug/kg	5.0	07/09/01 13:41	CAC	156-60-5
1,1-Dichloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-34-3
2,2-Dichloropropane	ND	ug/kg	5.0	07/09/01 13:41	CAC	594-20-7
cis-1,2-Dichloroethene	ND	ug/kg	5.0	07/09/01 13:41	CAC	156-59-2
Chloroform	ND	ug/kg	5.0	07/09/01 13:41	CAC	67-66-3
Bromochloromethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	74-97-5
1,1,1-Trichloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	71-55-6
Carbon tetrachloride	ND	ug/kg	5.0	07/09/01 13:41	CAC	56-23-5
1,1-Dichloropropene	ND	ug/kg	5.0	07/09/01 13:41	CAC	563-58-6
Benzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	71-43-2
1,2-Dichloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	107-06-2
Trichloroethene	ND	ug/kg	5.0	07/09/01 13:41	CAC	79-01-6
1,2-Dichloropropane	ND	ug/kg	5.0	07/09/01 13:41	CAC	78-87-5
Bromodichloromethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-27-4
Dibromomethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	74-95-3

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

Lab Sample No: 501123079 | Project Sample Number: 5015457-001 | Date Collected: 06/27/01 12:15
Client Sample ID: GVS-FC-1 | Matrix: Soil | Date Received: 06/28/01 10:00

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
Toluene	ND	ug/kg	5.0	07/09/01 13:41	CAC	108-88-3		
1,1,2-Trichloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	79-00-5		
Tetrachloroethene	ND	ug/kg	5.0	07/09/01 13:41	CAC	127-18-4		
1,3-Dichloropropane	ND	ug/kg	5.0	07/09/01 13:41	CAC	142-28-9		
Dibromochloromethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	07/09/01 13:41	CAC	106-93-4		
Chlorobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	108-90-7		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	630-20-6		
Ethylbenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	100-41-4		
m&p-Xylene	ND	ug/kg	5.0	07/09/01 13:41	CAC			
o-Xylene	ND	ug/kg	5.0	07/09/01 13:41	CAC	95-47-6		
Styrene	ND	ug/kg	5.0	07/09/01 13:41	CAC	100-42-5		
Bromoform	ND	ug/kg	5.0	07/09/01 13:41	CAC	75-25-2		
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	07/09/01 13:41	CAC	98-82-8		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	07/09/01 13:41	CAC	79-34-5		
Bromobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	108-86-1		
1,2,3-Trichloropropane	ND	ug/kg	5.0	07/09/01 13:41	CAC	96-18-4		
n-Propylbenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	103-65-1		
2-Chlorotoluene	ND	ug/kg	5.0	07/09/01 13:41	CAC	95-49-8		
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	108-67-8		
4-Chlorotoluene	ND	ug/kg	5.0	07/09/01 13:41	CAC	106-43-4		
1,2,4-Trimethylbenzene	26.	ug/kg	5.0	07/09/01 13:41	CAC	95-63-6		
sec-Butylbenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	135-98-8		
tert-Butylbenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	98-06-6		
p-Isopropyltoluene	ND	ug/kg	5.0	07/09/01 13:41	CAC	99-87-6		
1,3-Dichlorobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	106-46-7		
n-Butylbenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	104-51-8		
1,2-Dichlorobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	95-50-1		
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.0	07/09/01 13:41	CAC	96-12-8		
1,2,4 Trichlorobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	120-82-1		
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	07/09/01 13:41	CAC	87-68-3		
Naphthalene	ND	ug/kg	5.0	07/09/01 13:41	CAC	91-20-3		
1,2,3 Trichlorobenzene	ND	ug/kg	5.0	07/09/01 13:41	CAC	87-61-6		
trans 1,3-Dichloropropene	ND	ug/kg	5.0	07/09/01 13:41	CAC	10061-02-6		
cis 1,3-Dichloropropene	ND	ug/kg	5.0	07/09/01 13:41	CAC	10061-01-5		
2-Chloroethylvinyl ether	ND	ug/kg	50.	07/09/01 13:41	CAC	110-75-8		
Acetone	ND	ug/kg	100	07/09/01 13:41	CAC	67-64-1		

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

Lab Sample No: 501123079 | Project Sample Number: 5015457-001 | Date Collected: 06/27/01 12:15
Client Sample ID: GVS-FC-1 | Matrix: Soil | Date Received: 06/28/01 10:00

Parameters	Results	Units	Report Limit	Analyzed		CAS No.	Ftnote	Reg Limit
2-Butanone (MEK)	ND	ug/kg	10.	07/09/01 13:41	CAC	78-93-3		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.	07/09/01 13:41	CAC	108-10-1		
Carbon disulfide	ND	ug/kg	10.	07/09/01 13:41	CAC	75-15-0		
Acrolein	ND	ug/kg	100	07/09/01 13:41	CAC	107-02-8		
Acrylonitrile	ND	ug/kg	100	07/09/01 13:41	CAC	107-13-1		
2-Hexanone	ND	ug/kg	100	07/09/01 13:41	CAC	591-78-6		
Vinyl acetate	ND	ug/kg	100	07/09/01 13:41	CAC	108-05-4		
Iodomethane	ND	ug/kg	100	07/09/01 13:41	CAC	74-88-4		
Methyl-tert-butyl ether	ND	ug/kg	5.0	07/09/01 13:41	CAC	1634-04-4		
Ethyl methacrylate	ND	ug/kg	100	07/09/01 13:41	CAC	97-63-2		
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	07/09/01 13:41	CAC	110-57-6		
Dibromofluoromethane (S)	63	%		07/09/01 13:41	CAC			
Toluene-d8 (S)	96	%		07/09/01 13:41	CAC	2037-26-5		
4-Bromofluorobenzene (S)	113	%		07/09/01 13:41	CAC	460-00-4		
Volatile Organics, TCLP Leach.	Prep/Method: EPA 8260 / EPA 8260							
Vinyl chloride	ND	ug/l	100	07/05/01 12:48	CAC	75-01-4		
1,1-Dichloroethene	ND	ug/l	50.	07/05/01 12:48	CAC	75-35-4		
Chloroform	ND	ug/l	200	07/05/01 12:48	CAC	67-66-3		
1,2-Dichloroethane	ND	ug/l	50.	07/05/01 12:48	CAC	107-06-2		
2-Butanone (MEK)	ND	ug/l	1000	07/05/01 12:48	CAC	78-93-3		
Carbon tetrachloride	ND	ug/l	50.	07/05/01 12:48	CAC	56-23-5		
Trichloroethene	ND	ug/l	50.	07/05/01 12:48	CAC	79-01-6		
Benzene	ND	ug/l	50.	07/05/01 12:48	CAC	71-43-2		
Tetrachloroethene	ND	ug/l	50.	07/05/01 12:48	CAC	127-18-4		
Chlorobenzene	ND	ug/l	50.	07/05/01 12:48	CAC	108-90-7		
Dibromofluoromethane (S)	108	%		07/05/01 12:48	CAC			
Toluene-d8 (S)	129	%		07/05/01 12:48	CAC	2037-26-5	1	
4-Bromofluorobenzene (S)	83	%		07/05/01 12:48	CAC	460-00-4		

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
(S) Surrogate
[1] The surrogate recovery was above the upper QC limit for undiluted analyses. The reported value is below the reporting limit, therefore no bias is present.

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QUALITY CONTROL DATA

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

QC Batch: 26024 — Analysis Method: EPA 8270
QC Batch Method: EPA 3510 — Analysis Description: Semivolatile Organics, TCLP
Associated Lab Samples: 501123079

METHOD BLANK: 501130298
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,4-Dichlorobenzene	ug/l	ND	100	
2-Methylphenol (o-Cresol)	ug/l	ND	100	
3&4-Methylphenol	ug/l	ND	200	
Nitrobenzene	ug/l	ND	100	
Hexachloro-1,3-butadiene	ug/l	ND	100	
2,4,6-Trichlorophenol	ug/l	ND	100	
2,4,5-Trichlorophenol	ug/l	ND	500	
2,4-Dinitrotoluene	ug/l	ND	100	
Hexachlorobenzene	ug/l	ND	100	
Pentachlorophenol	ug/l	ND	500	
Pyridine	ug/l	ND	100	
Hexachloroethane	ug/l	ND	100	
Nitrobenzene-d5 (S)	%	80		
2-Fluorobiphenyl (S)	%	74		
Terphenyl-d14 (S)	%	84		
Phenol-d6 (S)	%	81		
2-Fluorophenol (S)	%	91		
2,4,6-Tribromophenol (S)	%	84		

METHOD BLANK: 501145312
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,4-Dichlorobenzene	ug/l	ND	100	
2-Methylphenol (o-Cresol)	ug/l	ND	100	
3&4-Methylphenol	ug/l	ND	200	
Nitrobenzene	ug/l	ND	100	
Hexachloro-1,3-butadiene	ug/l	ND	100	

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QUALITY CONTROL DATA

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

METHOD BLANK: 501145312
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,4,6-Trichlorophenol	ug/l	ND	100	
2,4,5-Trichlorophenol	ug/l	ND	500	
2,4-Dinitrotoluene	ug/l	ND	100	
Hexachlorobenzene	ug/l	ND	100	
Pentachlorophenol	ug/l	ND	500	
Pyridine	ug/l	ND	100	
Hexachloroethane	ug/l	ND	100	
Nitrobenzene-d5 (S)	%	80		
2-Fluorobiphenyl (S)	%	71		
Terphenyl-d14 (S)	%	88		
Phenol-d6 (S)	%	71		
2-Fluorophenol (S)	%	66		
2,4,6-Tribromophenol (S)	%	81		

LABORATORY CONTROL SAMPLE: 501130322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
1,4-Dichlorobenzene	ug/l	1000	641.7	64	
2-Methylphenol (o-Cresol)	ug/l	1000	864.4	86	
3&4-Methylphenol	ug/l	2000	1592	80	
Nitrobenzene	ug/l	1000	963.9	96	
Hexachloro-1,3-butadiene	ug/l	1000	459.8	46	
2,4,6-Trichlorophenol	ug/l	1000	837.4	84	
2,4,5-Trichlorophenol	ug/l	1000	891.1	89	
2,4-Dinitrotoluene	ug/l	1000	857.4	86	
Hexachlorobenzene	ug/l	1000	969.9	97	
Pentachlorophenol	ug/l	1000	940.4	94	
Pyridine	ug/l	1000	628.0	63	
Hexachloroethane	ug/l	1000	558.5	56	
Nitrobenzene-d5 (S)				92	
2-Fluorobiphenyl (S)				80	
Terphenyl-d14 (S)				92	
Phenol-d6 (S)				89	

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Phone: 317.875.5894
Fax: 317.872.6189

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

LABORATORY CONTROL SAMPLE: 501130322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
2-Fluorophenol (S)				100	
2,4,6-Tribromophenol (S)				101	

LABORATORY CONTROL SAMPLE: 501145320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
1,4-Dichlorobenzene	ug/l	1000	694.3	69	
2-Methylphenol (o-Cresol)	ug/l	1000	840.7	84	
3&4-Methylphenol	ug/l	2000	1550	78	
Nitrobenzene	ug/l	1000	900.4	90	
Hexachloro-1,3-butadiene	ug/l	1000	729.9	73	
2,4,6-Trichlorophenol	ug/l	1000	875.8	88	
2,4,5-Trichlorophenol	ug/l	1000	904.8	90	
2,4-Dinitrotoluene	ug/l	1000	956.5	96	
Hexachlorobenzene	ug/l	1000	969.6	97	
Pentachlorophenol	ug/l	1000	947.6	95	
Pyridine	ug/l	1000	672.5	67	
Hexachloroethane	ug/l	1000	744.8	74	
Nitrobenzene-d5 (S)				95	
2-Fluorobiphenyl (S)				82	
Terphenyl-d14 (S)				92	
Phenol-d6 (S)				88	
2-Fluorophenol (S)				81	
2,4,6-Tribromophenol (S)				94	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

QC Batch: 26016 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: Volatile Organics, TCLP Leach.
Associated Lab Samples: 501123079

METHOD BLANK: 501129761
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Vinyl chloride	ug/l	ND	10.	
1,1-Dichloroethene	ug/l	ND	5.0	
Chloroform	ug/l	ND	20.	
1,2-Dichloroethane	ug/l	ND	5.0	
2-Butanone (MEK)	ug/l	ND	100	
Carbon tetrachloride	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Benzene	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Dibromofluoromethane (S)	%	111		
Toluene-d8 (S)	%	132		
4-Bromofluorobenzene (S)	%	80		

LABORATORY CONTROL SAMPLE: 501129795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Vinyl chloride	ug/l	20	24.59	123	
1,1-Dichloroethene	ug/l	20	19.05	95	
Chloroform	ug/l	20	20.86	104	
1,2-Dichloroethane	ug/l	20	23.37	117	
Carbon tetrachloride	ug/l	20	23.60	118	
Trichloroethene	ug/l	20	21.18	106	
Benzene	ug/l	20	19.41	97	
Tetrachloroethene	ug/l	20	12.10	60	
Chlorobenzene	ug/l	20	19.17	96	
Dibromofluoromethane (S)				119	
Toluene-d8 (S)				121	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501129779 501129787

Parameter	Units	501116578 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Vinyl chloride	ug/l	0	200.00	143.3	172.1	72	86	18	
1,1-Dichloroethene	ug/l	0	200.00	163.2	166.4	82	83	2	
Chloroform	ug/l	0	200.00	177.3	186.4	89	93	5	
1,2-Dichloroethane	ug/l	0	200.00	222.5	217.3	111	109	2	
Carbon tetrachloride	ug/l	0	200.00	185.8	163.8	93	82	13	
Trichloroethene	ug/l	0	200.00	184.1	180.6	92	90	2	
Benzene	ug/l	0	200.00	186.3	164.4	93	82	12	
Tetrachloroethene	ug/l	0	200.00	115.0	102.8	58	51	11	
Chlorobenzene	ug/l	0	200.00	179.2	165.3	90	83	8	
Dibromofluoromethane (S)						107	124		
Toluene-d8 (S)						112	121		

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

QC Batch: 26100 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 501123079

METHOD BLANK: 501133789
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Dichlorodifluoromethane	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	5.0	
Vinyl chloride	ug/kg	ND	2.0	
Bromomethane	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	
1,1-Dichloroethane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
Chloroform	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
Benzene	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
1,2-Dichloropropane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

METHOD BLANK: 501133789
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	5.0	
o-Xylene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
2-Chlorotoluene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
n-Butylbenzene	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
Naphthalene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
2-Chloroethylvinyl ether	ug/kg	ND	50.	
Acetone	ug/kg	ND	100	
2-Butanone (MEK)	ug/kg	ND	10.	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	10.	
Carbon disulfide	ug/kg	ND	10.	
Acrolein	ug/kg	ND	100	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

METHOD BLANK: 501133789
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acrylonitrile	ug/kg	ND	100	
2-Hexanone	ug/kg	ND	100	
Vinyl acetate	ug/kg	ND	100	
Iodomethane	ug/kg	ND	100	
Methyl-tert-butyl ether	ug/kg	ND	5.0	
Ethyl methacrylate	ug/kg	ND	100	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	
Dibromofluoromethane (S)	%	116		
Toluene-d8 (S)	%	95		
4-Bromofluorobenzene (S)	%	112		

LABORATORY CONTROL SAMPLE: 501133797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Dichlorodifluoromethane	ug/kg	20	28.77	144	
Chloromethane	ug/kg	20	30.40	152	
Vinyl chloride	ug/kg	20	24.80	124	
Bromomethane	ug/kg	20	17.00	85	
Chloroethane	ug/kg	20	19.03	95	
Trichlorofluoromethane	ug/kg	20	16.91	85	
Methylene chloride	ug/kg	20	18.48	92	
1,1-Dichloroethene	ug/kg	20	21.78	109	
trans-1,2-Dichloroethene	ug/kg	20	22.31	112	
1,1-Dichloroethane	ug/kg	20	22.81	114	
2,2-Dichloropropane	ug/kg	20	24.49	122	
cis-1,2-Dichloroethene	ug/kg	20	20.63	103	
Chloroform	ug/kg	20	21.87	109	
Bromochloromethane	ug/kg	20	23.81	119	
1,1,1-Trichloroethane	ug/kg	20	23.81	119	
Carbon tetrachloride	ug/kg	20	23.56	118	
1,1-Dichloropropene	ug/kg	20	22.15	111	
Benzene	ug/kg	20	21.69	108	
1,2-Dichloroethane	ug/kg	20	21.85	109	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

LABORATORY CONTROL SAMPLE: 501133797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Trichloroethene	ug/kg	20	20.62	103	
1,2-Dichloropropane	ug/kg	20	19.68	98	
Bromodichloromethane	ug/kg	20	20.50	103	
Dibromomethane	ug/kg	20	18.13	91	
Toluene	ug/kg	20	19.15	96	
1,1,2-Trichloroethane	ug/kg	20	20.76	104	
Tetrachloroethene	ug/kg	20	10.46	52	
1,3-Dichloropropane	ug/kg	20	22.37	112	
Dibromochloromethane	ug/kg	20	23.16	116	
1,2-Dibromoethane (EDB)	ug/kg	20	20.09	100	
Chlorobenzene	ug/kg	20	20.59	103	
1,1,1,2-Tetrachloroethane	ug/kg	20	20.64	103	
Ethylbenzene	ug/kg	20	20.44	102	
m&p-Xylene	ug/kg	40	41.27	103	
o-Xylene	ug/kg	20	21.07	105	
Styrene	ug/kg	20	21.66	108	
Bromoform	ug/kg	20	19.44	97	
Isopropylbenzene (Cumene)	ug/kg	20	22.52	113	
1,1,2,2-Tetrachloroethane	ug/kg	20	22.08	110	
Bromobenzene	ug/kg	20	21.84	109	
1,2,3-Trichloropropane	ug/kg	20	20.40	102	
n-Propylbenzene	ug/kg	20	21.12	106	
2-Chlorotoluene	ug/kg	20	23.52	118	
1,3,5-Trimethylbenzene	ug/kg	20	21.56	108	
4-Chlorotoluene	ug/kg	20	20.05	100	
1,2,4-Trimethylbenzene	ug/kg	20	21.22	106	
sec-Butylbenzene	ug/kg	20	21.77	109	
tert-Butylbenzene	ug/kg	20	20.37	102	
p-Isopropyltoluene	ug/kg	20	20.86	104	
1,3-Dichlorobenzene	ug/kg	20	20.95	105	
1,4-Dichlorobenzene	ug/kg	20	20.10	100	
n-Butylbenzene	ug/kg	20	23.04	115	
1,2-Dichlorobenzene	ug/kg	20	21.18	106	
1,2-Dibromo-3-chloropropane	ug/kg	20	22.31	112	
1,2,4-Trichlorobenzene	ug/kg	20	23.06	115	
Hexachloro-1,3-butadiene	ug/kg	20	22.03	110	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

LABORATORY CONTROL SAMPLE: 501133797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Naphthalene	ug/kg	20	25.08	125	
1,2,3-Trichlorobenzene	ug/kg	20	23.56	118	
trans-1,3-Dichloropropene	ug/kg	20	20.28	101	
cis-1,3 Dichloropropene	ug/kg	20	18.50	92	
Dibromofluoromethane (S)				103	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				105	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501133805 501133813

Parameter	Units	501131742 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
1,1-Dichloroethene	ug/kg	0	20.00	1.877	1.384	9	7	30	
[illegible]ene	ug/kg	0	20.00	0	0	0	0	0	
[illegible]chloroethene	ug/kg	0	20.00	0	0	0	0	0	
Toluene	ug/kg	0	20.00	0.1462	0	1	0	200	
Chlorobenzene	ug/kg	0	20.00	0.2781	0	1	0	200	
Dibromofluoromethane (S)						121	117		
Toluene-d8 (S)						97	97		
4-Bromofluorobenzene (S)						109	105		1,1

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

QC Batch: 26086 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: Mercury, CVAAS, TCLP Leachate
Associated Lab Samples: 501123079

METHOD BLANK: 501132930
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Mercury	ug/l	ND	2.00	

LABORATORY CONTROL SAMPLE: 501132922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Mercury	ug/l	5.000	4.194	84	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132948 501132955

Parameter	Units	501129159 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	ug/l	0.02920	5.000	3.707	3.779	74	75	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132963 501132971

Parameter	Units	501123079 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	ug/l	0.00090	5.000	3.753	4.055	75	81	8	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132989 501132997

Parameter	Units	501122741 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	ug/l	0	5.000	3.634	3.812	73	76	5	

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Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501133003 501133011

Parameter	Units	501127534 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	ug/l	0.02730	5.000	3.670	3.414	73	68	7	

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QUALITY CONTROL DATA

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

QC Batch: 26066 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: RCRA Metals, ICP, TCLP Leach.
Associated Lab Samples: 501123079

METHOD BLANK: 501132229
Associated Lab Samples: 501123079

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Arsenic	ug/l	ND	50.0	
Barium	ug/l	ND	100.	
Cadmium	ug/l	ND	10.0	
Chromium	ug/l	ND	50.0	
Lead	ug/l	ND	50.0	
Selenium	ug/l	ND	10.0	
Silver	ug/l	ND	50.0	

LABORATORY CONTROL SAMPLE: 501132252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Arsenic	ug/l	1000	1008	101	
Barium	ug/l	1000	977.3	98	
Cadmium	ug/l	100	100.5	100	
Chromium	ug/l	1000	998.0	100	
Lead	ug/l	1000	968.1	97	
Selenium	ug/l	1000	966.7	97	
Silver	ug/l	100	106.3	106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132237 501132245

Parameter	Units	501123079 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	ug/l	4.600	1000.00	1052	997.5	105	99	5	
Barium	ug/l	315.7	1000.00	1260	1256	94	94	0	
Cadmium	ug/l	0.7800	100.00	103.1	97.94	102	97	5	
Chromium	ug/l	16.22	1000.00	986.5	955.3	97	94	3	

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QUALITY CONTROL DATA

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132237 501132245

Parameter	Units	501123079 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	ug/l	0	1000.00	1004	956.3	100	96	5	
Selenium	ug/l	3.710	1000.00	1011	955.4	101	95	6	
Silver	ug/l	3.500	100.00	99.82	99.20	96	96	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132260 501132278

Parameter	Units	501129159 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	ug/l	9.388	1000.00	1041	1036	103	103	1	
Barium	ug/l	811.6	1000.00	1732	1738	92	93	0	
Cadmium	ug/l	4.900	100.00	106.9	106.5	102	102	0	
Chromium	ug/l	0	1000.00	959.7	960.0	96	96	0	
Lead	ug/l	5.340	1000.00	1009	993.8	100	99	2	
Selenium	ug/l	2.300	1000.00	1013	997.7	101	100	2	
Silver	ug/l	3.090	100.00	102.6	99.90	100	97	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132286 501132294

Parameter	Units	501122741 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	ug/l	13.63	1000.00	1002	1012	99	100	1	
Barium	ug/l	456.6	1000.00	1403	1384	95	93	1	
Cadmium	ug/l	4.100	100.00	103.9	105.8	100	102	2	
Chromium	ug/l	0	1000.00	981.6	969.9	98	97	1	
Lead	ug/l	7.100	1000.00	982.1	993.2	98	99	1	
Selenium	ug/l	5.000	1000.00	974.0	969.8	97	96	0	
Silver	ug/l	4.060	100.00	100.6	97.97	96	94	3	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132302 501132310

Parameter	Units	501128417 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	ug/l	2.800	1000.00	949.6	1031	95	103	8	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
Phone: 317.875.5894
Fax: 317.872.6189

QUALITY CONTROL DATA

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132302 501132310

Parameter	Units	501128417 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Barium	ug/l	764.8	1000.00	1701	1731	94	97	2	
Cadmium	ug/l	1.180	100.00	94.04	101.9	93	101	8	
Chromium	ug/l	0	1000.00	938.6	993.8	94	99	6	
Lead	ug/l	23.28	1000.00	937.1	993.9	91	97	6	
Selenium	ug/l	9.620	1000.00	927.6	1005	92	100	8	
Silver	ug/l	0	100.00	92.89	103.7	93	104	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132328 501132336

Parameter	Units	501130280 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	ug/l	3.620	1000.00	1136	1140	113	114	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 501132344 501132351

Parameter	Units	501127534 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Arsenic	ug/l	75.40	1000.00	1111	1084	104	101	2	
Barium	ug/l	608.7	1000.00	1566	1531	96	92	2	
Cadmium	ug/l	0.8240	100.00	101.9	100.2	101	99	2	
Chromium	ug/l	0	1000.00	1009	989.4	101	99	2	
Lead	ug/l	10.22	1000.00	1008	1001	100	99	1	
Selenium	ug/l	6.340	1000.00	1014	991.7	101	98	2	
Silver	ug/l	0	100.00	102.4	96.08	102	96	6	

REPORT OF LABORATORY ANALYSIS

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Fax: 317.872.6189

Lab Project Number: 5015457
Client Project ID: Composite of Building Found.

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not Detected
NC Not Calculable
RPD Relative Percent Difference
(S) Surrogate
[1] Matrix (MS) and or surrogate spike recovery (S) was affected by the sample matrix. Refer to the batch QC recoveries blank and LCS to demonstrate that the analytical system was operating in control.

REPORT OF LABORATORY ANALYSIS

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5015457

SHARP AND ASSOCIATES, INC. Environmental Engineers and Scientists

CHAIN OF CUSTODY RECORD

Send results to: Steven Roach

SHARP & ASSOCIATES, INC.
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax: (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1128-3

SAMPLER (Signature):

PROJECT NAME/LOCATION: Composite of Building Foundations

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P-G)	Total VOCs	TCLP VOCs	TCLP SVOCs	TCLP Metals		PRESERVATIVE TYPE	REMARKS
GVS-FC-1	6-27-01	1215	X		Granville Solvents Foundation Composite 1	1-16 oz	G	X	X	X	X		ICE	501123079

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
[signature]	6/27/01 - 1345	[signature] / [signature]
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)

Sample Sent To: Pace Analytical Services, Inc.
Attn: Travis Barrett
Address: 7726 Moller Road, Indianapolis, IN 46268
Phone: 317-875-5894
Freight Co.: FED EX
Air Bill No: 8286 6933 9057

Fed Ex - 8286-6933-9057
Temp. 1.2C SW, WF

GVS.
SAST SUMP
U... SUMP
SEPTIC TANK
MISC DEBRIS, FILTER HOUSING & DRUMS
7/16/01

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 1128-3

GRANVILLE SOLVENTS

Lot #: A1G170124

Steven Roach

Sharp & Associates
982 Crupper Ave.
Columbus, OH 43229

SEVERN TRENT LABORATORIES, INC.

Denise Pohl
for
Alesia M. Danford
Project Manager

July 23, 2001

Organics (benzene) and Metals data qualified by SPL 9-19-01

CASE NARRATIVE
A1G170124

The following report contains the analytical results for one water sample and four solid samples submitted to STL North Canton by Sharp & Associates, Inc. from the Granville Solvents Site, project number 1128-3. The samples were received July 17, 2001, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided to Steven Roach on July 19, 2001. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The samples were received at the laboratory at a temperature of 3.9° C.

GC/MS VOLATILES

Sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The internal standard areas were outside acceptance limits for sample MISC.DEBRIS FILTER HOUSING & DRUMS due to matrix effects.

CASE NARRATIVE (continued)

METALS

Sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are ± the standard reporting limit (SRL).

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

ANALYTICAL METHODS SUMMARY

A1G170124

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Soil and Waste pH	SW846 9045C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1G170124

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EGFJM	001	EAST SUMP LIQUID	07/16/01	14:05
EGFJP	002	EAST SUMP SOIL	07/16/01	14:15
EGFJW	003	WEST SUMP NEAR CLAYPIPE IN CB	07/14/01	13:55
EGFJ1	004	SEPTIC TANK	07/16/01	14:30
EGFJ8	005	MISC.DEBRIS FILTER HOUSING & DRUMS	07/16/01	12:10

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: EAST SUMP LIQUID

GC/MS Volatiles

Lot-Sample #...: A1G170124-001 **Work Order #...:** EGFJM1AA **Matrix.....:** WG
Date Sampled...: 07/16/01 14:05 **Date Received..:** 07/17/01
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200206
Dilution Factor: 2.5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	2.5	ug/L
Bromomethane	ND	2.5	ug/L
Vinyl chloride	ND	2.5	ug/L
Chloroethane	ND	2.5	ug/L
Methylene chloride	ND	2.5	ug/L
Acetone	**3.3 J**	**25**	**ug/L**
Carbon disulfide	ND	2.5	ug/L
1,1-Dichloroethene	ND	2.5	ug/L
1,1-Dichloroethane	**20**	**2.5**	**ug/L**
1,2-Dichloroethene (total)	**61**	**2.5**	**ug/L**
Chloroform	ND	2.5	ug/L
1,2-Dichloroethane	ND	2.5	ug/L
utanone	ND	25	ug/L
1,1,1-Trichloroethane	**6.3**	**2.5**	**ug/L**
Carbon tetrachloride	ND	2.5	ug/L
Bromodichloromethane	ND	2.5	ug/L
1,2-Dichloropropane	ND	2.5	ug/L
cis-1,3-Dichloropropene	ND	2.5	ug/L
Trichloroethene	**1.9 J**	**2.5**	**ug/L**
Dibromochloromethane	ND	2.5	ug/L
1,1,2-Trichloroethane	ND	2.5	ug/L
Benzene	ND	2.5	ug/L
trans-1,3-Dichloropropene	ND	2.5	ug/L
Bromoform	ND	2.5	ug/L
4-Methyl-2-pentanone	ND	25	ug/L
2-Hexanone	ND	25	ug/L
Tetrachloroethene	**9.6**	**2.5**	**ug/L**
1,1,2,2-Tetrachloroethane	ND	2.5	ug/L
Toluene	ND	2.5	ug/L
Chlorobenzene	ND	2.5	ug/L
Ethylbenzene	ND	2.5	ug/L
Styrene	ND	2.5	ug/L
Xylenes (total)	ND	2.5	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(73 - 122)
-Dichloroethane-d4	106	(61 - 128)
uene-d8	103	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: EAST SUMP LIQUID

GC/MS Volatiles

Lot-Sample #...: A1G170124-001 Work Order #...: EGFJM1AA Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: EAST SUMP SOIL

GC/MS Volatiles

Lot-Sample #...: A1G170124-002 **Work Order #...:** EGFJP1AC **Matrix.....:** SO
Date Sampled...: 07/16/01 14:15 **Date Received..:** 07/17/01
Prep Date.....: 07/17/01 **Analysis Date..:** 07/17/01
Prep Batch #...: 1199343
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	6.1	ug/kg
Acetone	ND	24	ug/kg
Carbon disulfide	ND	6.1	ug/kg
1,1-Dichloroethene	ND	6.1	ug/kg
1,1-Dichloroethane	ND	6.1	ug/kg
1,2-Dichloroethene (total)	ND	6.1	ug/kg
Chloroform	ND	6.1	ug/kg
1,2-Dichloroethane	ND	6.1	ug/kg
2-Butanone	ND	24	ug/kg
1,1,1-Trichloroethane	**2.3 J**	**6.1**	**ug/kg**
Carbon tetrachloride	ND	6.1	ug/kg
Bromodichloromethane	ND	6.1	ug/kg
1,2-Dichloropropane	ND	6.1	ug/kg
cis-1,3-Dichloropropene	ND	6.1	ug/kg
Trichloroethene	ND	6.1	ug/kg
Dibromochloromethane	ND	6.1	ug/kg
1,1,2-Trichloroethane	ND	6.1	ug/kg
Benzene	ND	6.1	ug/kg
trans-1,3-Dichloropropene	ND	6.1	ug/kg
Bromoform	ND	6.1	ug/kg
4-Methyl-2-pentanone	ND	24	ug/kg
2-Hexanone	ND	24	ug/kg
Tetrachloroethene	**16**	**6.1**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg
Toluene	ND	6.1	ug/kg
Chlorobenzene	ND	6.1	ug/kg
Ethylbenzene	ND	6.1	ug/kg
Styrene	ND	6.1	ug/kg
Xylenes (total)	ND	6.1	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	87	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: EAST SUMP SOIL

GC/MS Volatiles

Lot-Sample #...: A1G170124-002 Work Order #...: EGFJP1AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: EAST SUMP SOIL

General Chemistry

Lot-Sample #...: A1G170124-002 **Work Order #...:** EGFJP **Matrix.....:** SO
Date Sampled...: 07/16/01 14:15 **Date Received..:** 07/17/01
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	82.3	10.0	%	MCAWW 160.3 MOD	07/18-07/19/01	1199362

Dilution Factor: 1

SHARP & ASSOCIATES, INC.

Client Sample ID: WEST SUMP NEAR CLAYPIPE IN CB

GC/MS Volatiles

Lot-Sample #...: A1G170124-003 Work Order #...: EGFJW1AC Matrix.....: SO
Date Sampled...: 07/14/01 13:55 Date Received..: 07/17/01
Prep Date.....: 07/17/01 Analysis Date..: 07/17/01
Prep Batch #...: 1199343
Dilution Factor: 2.5
% Moisture.....: 7.6 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	27	ug/kg
Bromomethane	ND	27	ug/kg
Vinyl chloride	ND	27	ug/kg
Chloroethane	ND	27	ug/kg
Methylene chloride	ND	14	ug/kg
Acetone	ND	54	ug/kg
Carbon disulfide	ND	14	ug/kg
1,1-Dichloroethene	ND	14	ug/kg
1,1-Dichloroethane	**8.2 J**	**14**	**ug/kg**
1,2-Dichloroethene (total)	**90**	**14**	**ug/kg**
Chloroform	ND	14	ug/kg
1,2-Dichloroethane	ND	14	ug/kg
2-Butanone	ND	54	ug/kg
1,1,1-Trichloroethane	**62**	**14**	**ug/kg**
Carbon tetrachloride	ND	14	ug/kg
Bromodichloromethane	ND	14	ug/kg
1,2-Dichloropropane	ND	14	ug/kg
cis-1,3-Dichloropropene	ND	14	ug/kg
Trichloroethene	**130**	**14**	**ug/kg**
Dibromochloromethane	ND	14	ug/kg
1,1,2-Trichloroethane	ND	14	ug/kg
Benzene	ND	14	ug/kg
trans-1,3-Dichloropropene	ND	14	ug/kg
Bromoform	ND	14	ug/kg
4-Methyl-2-pentanone	ND	54	ug/kg
2-Hexanone	ND	54	ug/kg
Tetrachloroethene	**330**	**14**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	14	ug/kg
Toluene	ND	14	ug/kg
Chlorobenzene	ND	14	ug/kg
Ethylbenzene	ND	14	ug/kg
Styrene	ND	14	ug/kg
Xylenes (total)	ND	14	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	88	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: WEST SUMP NEAR CLAYPIPE IN CB

GC/MS Volatiles

Lot-Sample #...: A1G170124-003 Work Order #...: EGFJW1AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: WEST SUMP NEAR CLAYPIPE IN CB

General Chemistry

Lot-Sample #...: A1G170124-003 **Work Order #...:** EGFJW **Matrix.....:** SO
Date Sampled...: 07/14/01 13:55 **Date Received..:** 07/17/01
% Moisture.....: 7.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**92.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**07/18-07/19/01**	**1199362**

Dilution Factor: 1

SHARP & ASSOCIATES, INC.

Client Sample ID: SEPTIC TANK

GC/MS Volatiles

Lot-Sample #...: A1G170124-004 Work Order #...: EGFJ11AC Matrix.....: SO
Date Sampled...: 07/16/01 14:30 Date Received..: 07/17/01
Prep Date.....: 07/18/01 Analysis Date..: 07/18/01
Prep Batch #...: 1200243
Dilution Factor: 1
% Moisture.....: 99 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1100	ug/kg
Bromomethane	ND	1100	ug/kg
Vinyl chloride	**1600**	**1100**	**ug/kg**
Chloroethane	ND	1100	ug/kg
Methylene chloride	ND	570	ug/kg
Acetone	ND	2300	ug/kg
Carbon disulfide	ND	570	ug/kg
1,1-Dichloroethene	ND	570	ug/kg
1,1-Dichloroethane	ND	570	ug/kg
1,2-Dichloroethene (total)	ND	570	ug/kg
Chloroform	ND	570	ug/kg
-Dichloroethane	ND	570	ug/kg
2-Butanone	ND	2300	ug/kg
1,1,1-Trichloroethane	ND	570	ug/kg
Carbon tetrachloride	ND	570	ug/kg
Bromodichloromethane	ND	570	ug/kg
1,2-Dichloropropane	ND	570	ug/kg
cis-1,3-Dichloropropene	ND	570	ug/kg
Trichloroethene	**320 J**	**570**	**ug/kg**
Dibromochloromethane	ND	570	ug/kg
1,1,2-Trichloroethane	ND	570	ug/kg
Benzene	ND	570	ug/kg
trans-1,3-Dichloropropene	ND	570	ug/kg
Bromoform	ND	570	ug/kg
4-Methyl-2-pentanone	ND	2300	ug/kg
2-Hexanone	ND	2300	ug/kg
Tetrachloroethene	**800**	**570**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	570	ug/kg
Toluene	ND	570	ug/kg
Chlorobenzene	ND	570	ug/kg
Ethylbenzene	**110 J**	**570**	**ug/kg**
Styrene	ND	570	ug/kg
Xylenes (total)	**610**	**570**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
romofluoromethane	86	(59 - 138)
-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: SEPTIC TANK

GC/MS Volatiles

Lot-Sample #...: A1G170124-004 **Work Order #...:** EGFJ11AC **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: SEPTIC TANK

TCLP GC/MS Volatiles

Lot-Sample #...:	A1G170124-004	Work Order #...:	EGFJ11AF	Matrix.....:	SO
Date Sampled...:	07/16/01 14:30	Date Received..:	07/17/01		
Leach Date.....:	07/18/01	Prep Date.....:	07/18/01	Analysis Date..:	07/18/01
Leach Batch #..:	P119807	Prep Batch #...:	1199269		
Dilution Factor:	1				
% Moisture.....:	99	Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	**0.0014 ~~J,B~~ U**	**0.025**	**mg/L**
Carbon tetrachloride	ND	0.025	mg/L
Chlorobenzene	ND	0.025	mg/L
Chloroform	ND	0.025	mg/L
1,2-Dichloroethane	ND	0.025	mg/L
1,1-Dichloroethylene	ND	0.070	mg/L
Methyl ethyl ketone	ND	0.050	mg/L
Tetrachloroethylene	**0.019 J**	**0.070**	**mg/L**
Trichloroethylene	**0.016 J**	**0.050**	**mg/L**
Vinyl chloride	**0.060**	**0.050**	**mg/L**

ROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

U- results considered non detect at concentration reported due to method blank contamination.

SH 9-19-01

SHARP & ASSOCIATES, INC.

Client Sample ID: SEPTIC TANK

TCLP GC/MS Semivolatiles

Lot-Sample #...: A1G170124-004 Work Order #...: EGFJ11AG Matrix.....: SO
Date Sampled...: 07/16/01 14:30 Date Received..: 07/17/01
Leach Date.....: 07/17/01 Prep Date.....: 07/18/01 Analysis Date..: 07/18/01
Leach Batch #..: P119813 Prep Batch #...: 1199097
Dilution Factor: 1
% Moisture.....: 99 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Cresol	ND	0.050	mg/L
m-Cresol & p-Cresol	ND	0.10	mg/L
1,4-Dichlorobenzene	ND	0.050	mg/L
2,4-Dinitrotoluene	ND	0.050	mg/L
Hexachlorobenzene	ND	0.050	mg/L
Hexachlorobutadiene	ND	0.050	mg/L
Hexachloroethane	ND	0.050	mg/L
Nitrobenzene	ND	0.050	mg/L
Pentachlorophenol	ND	0.10	mg/L
Pyridine	ND	0.10	mg/L
2,4,5-Trichlorophenol	ND	0.050	mg/L
,6-Trichlorophenol	ND	0.050	mg/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
Terphenyl-d14	83	(10 - 144)
Phenol-d5	53	(10 - 113)
2-Fluorophenol	59	(13 - 110)
2,4,6-Tribromophenol	77	(21 - 122)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SHARP & ASSOCIATES, INC.

Client Sample ID: SEPTIC TANK

TCLP Metals

Lot-Sample #...: A1G170124-004 Matrix.....: SO
Date Sampled...: 07/16/01 14:30 Date Received..: 07/17/01
Leach Date.....: 07/17/01 Leach Batch #..: P119813

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1199101						
Arsenic	0.0057 ~~B~~ U	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AH
		Dilution Factor: 1			SAL 9-19-01	
Barium	0.27 B	10.0	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AJ
		Dilution Factor: 1				
Cadmium	0.00050 ~~B~~ U	0.10	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AK
		Dilution Factor: 1			SAL 9-19-01	
Chromium	0.0031 ~~B~~ U	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AL
		Dilution Factor: 1			SAL 9-19-01	
Lead	0.083 ~~B~~ U	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AM
		Dilution Factor: 1			SAL 9-19-01	
Selenium	0.0047 ~~B~~ U	0.25	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AN
		Dilution Factor: 1			SAL 9-19-01	
Silver	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ11AP
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	07/18-07/19/01	EGFJ11AQ
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

U = result considered non detect at reporting limit due to method blank contamination.
SAL 9-19-01

SHARP & ASSOCIATES, INC.

Client Sample ID: SEPTIC TANK

General Chemistry

Lot-Sample #...: A1G170124-004 Work Order #...: EGFJ1 Matrix.....: SO
Date Sampled...: 07/16/01 14:30 Date Received..: 07/17/01
% Moisture.....: 99

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)	7.9		No Units	SW846 9045C	07/17/01	1199513
	Dilution Factor: 1					
Flashpoint	>180		deg F	SW846 1010	07/18/01	1199392
	Dilution Factor: 1					
Percent Solids	ND	1.0	%	MCAWW 160.3 MOD	07/18-07/19/01	1199365
	Dilution Factor: 1					

SHARP & ASSOCIATES, INC.

Client Sample ID: *MISC.DEBRIS FILTER HOUSING & DRUMS*

GC/MS Volatiles

Lot-Sample #...: A1G170124-005 **Work Order #...:** EGFJ81AC **Matrix.....:** SO
Date Sampled...: 07/16/01 12:10 **Date Received..:** 07/17/01
Prep Date.....: 07/17/01 **Analysis Date..:** 07/17/01
Prep Batch #...: 1199343
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	5.8	ug/kg
Acetone	**8.7 J**	**23**	**ug/kg**
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	ND	5.8	ug/kg
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	ND	5.8	ug/kg
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	**1.5 J**	**5.8**	**ug/kg**
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	91	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	120	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: MISC.DEBRIS FILTER HOUSING & DRUMS

GC/MS Volatiles

Lot-Sample #...: A1G170124-005 Work Order #...: EGFJ81AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: MISC.DEBRIS FILTER HOUSING & DRUMS

TCLP Metals

Lot-Sample #...: A1G170124-005 Matrix.....: SO
Date Sampled...: 07/16/01 12:10 Date Received..: 07/17/01
Leach Date.....: 07/17/01 Leach Batch #..: P119813

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1199101						
Arsenic	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AD
		Dilution Factor: 1				
Barium	0.31 B	10.0	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AE
		Dilution Factor: 1				
Cadmium	0.0065 B	0.10	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AF
		Dilution Factor: 1				
Chromium	0.0040 ~~B~~ U	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AG
		Dilution Factor: 1			SAL 9-19-01	
Lead	0.011 ~~B~~ U	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AH
		Dilution Factor: 1			SAL 9-19-01	
Selenium	0.0088 ~~B~~ U	0.25	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AJ
		Dilution Factor: 1			SAL 9-19-01	
Silver	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGFJ81AK
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	07/18-07/19/01	EGFJ81AL
		Dilution Factor: 1				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

U - result considered non-detect at reporting limit due to method blank contamination.
SAL 9-19-01

SHARP & ASSOCIATES, INC.

Client Sample ID: MISC.DEBRIS FILTER HOUSING & DRUMS

General Chemistry

Lot-Sample #...: A1G170124-005 Work Order #...: EGFJ8 Matrix.....: SO
Date Sampled...: 07/16/01 12:10 Date Received..: 07/17/01
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	86.8	10.0	%	MCAWW 160.3 MOD	07/18-07/19/01	1199362

Dilution Factor: 1

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGJQT1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1G180000-343

Prep Date.....: 07/17/01
Analysis Date..: 07/17/01 **Prep Batch #...:** 1199343
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
[illegible]tanone	11 J	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	98	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGJQT1AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 Work Order #...: EGK461AA Matrix.....: WATER
MB Lot-Sample #: A1G190000-206

Prep Date.....: 07/18/01
Analysis Date..: 07/18/01 Prep Batch #...: 1200206
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
[illegible]itanone	ND	10	ug/L	SW846 8260B
1,[illegible],1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(73 - 122)
[illegible]-Dichloroethane-d4	106	(61 - 128)
[illegible]uene-d8	101	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGK461AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 Work Order #...: EGK901AA Matrix.....: SOLID
MB Lot-Sample #: A1G190000-243

Prep Date.....: 07/18/01
Analysis Date..: 07/18/01 Prep Batch #...: 1200243
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
[illegible]tanone	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
[illegible]-Dichloroethane-d4	78	(61 - 130)
[illegible]uene-d8	97	(60 - 143)
4-Bromofluorobenzene	101	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGK901AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGF1R1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1G170000-283
Leach Date.....: 07/18/01 **Prep Date.....:** 07/18/01 **Analysis Date..:** 07/18/01
Leach Batch #..: P119807 **Prep Batch #...:** 1199269
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	**0.0011 J**	**0.025**	**mg/L**	**SW846 8260B**
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260B
Chlorobenzene	ND	0.025	mg/L	SW846 8260B
Chloroform	ND	0.025	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260B
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260B
Methyl ethyl ketone	ND	0.050	mg/L	SW846 8260B
Tetrachloroethylene	ND	0.070	mg/L	SW846 8260B
Trichloroethylene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.050	mg/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	95	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A1G170124 Work Order #...: EGHHX1AA Matrix.....: SOLID
MB Lot-Sample #: A1G180000-097
Leach Date.....: 07/17/01 Prep Date.....: 07/18/01 Analysis Date..: 07/18/01
Leach Batch #..: P119813 Prep Batch #...: 1199097
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270C
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270C
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270C
Hexachloroethane	ND	0.050	mg/L	SW846 8270C
Nitrobenzene	ND	0.050	mg/L	SW846 8270C
Pentachlorophenol	ND	0.10	mg/L	SW846 8270C
Pyridine	ND	0.10	mg/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	0.050	mg/L	SW846 8270C
2,4,6-Trichloro-enol	ND	0.050	mg/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	77	(32 - 112)
2-Fluorobiphenyl	72	(30 - 110)
Terphenyl-d14	86	(10 - 144)
Phenol-d5	57	(10 - 113)
2-Fluorophenol	40	(13 - 110)
2,4,6-Tribromophenol	85	(21 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A1G170124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1G180000-101 **Prep Batch #...:** 1199101						
Arsenic	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AA
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AC
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AD
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AE
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AF
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AG
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGHH81AH
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	07/18-07/19/01	EGHH81AJ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A1G170124 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1G170000-358		Prep Batch #...: 1199101				
Leach Date.....: 07/17/01		Leach Batch #..: P119813				
Arsenic	0.0040 B	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AC
		Dilution Factor: 1				
Barium	0.024 B	10.0	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AD
		Dilution Factor: 1				
Cadmium	0.00036 B	0.10	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AE
		Dilution Factor: 1				
Chromium	0.0032 B	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AF
		Dilution Factor: 1				
Lead	0.048 B	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AG
		Dilution Factor: 1				
Selenium	0.0068 B	0.25	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AH
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	07/18-07/19/01	EGGE81AJ
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	07/18-07/19/01	EGGE81AK
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1G170124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #:	EGLHK1AA	MB Lot-Sample #:	A1G180000-362	
	ND	10.0	%	MCAWW 160.3 MOD	07/18-07/19/01	1199362
		Dilution Factor: 1				
Percent Solids		Work Order #:	EGLJE1AA	MB Lot-Sample #:	A1G180000-365	
	ND	1.0	%	MCAWW 160.3 MOD	07/18-07/19/01	1199365
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 Work Order #...: EGJQT1AC Matrix.....: SOLID
LCS Lot-Sample#: A1G180000-343
Prep Date.....: 07/17/01 Analysis Date..: 07/17/01
Prep Batch #...: 1199343
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**89**	**(55 - 142)**	**SW846 8260B**
Trichloroethene	**88**	**(70 - 131)**	**SW846 8260B**
Benzene	**91**	**(75 - 129)**	**SW846 8260B**
Toluene	**92**	**(71 - 130)**	**SW846 8260B**
Chlorobenzene	**94**	**(75 - 127)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	98	(47 - 158)

B(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 Work Order #...: EGK461AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A1G190000-206 EGK461AD-LCSD
Prep Date.....: 07/18/01 Analysis Date..: 07/18/01
Prep Batch #...: 1200206
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	92	(63 - 130)			SW846 8260B
	91	(63 - 130)	0.97	(0-20)	SW846 8260B
Trichloroethene	98	(75 - 122)			SW846 8260B
	95	(75 - 122)	2.8	(0-20)	SW846 8260B
Benzene	90	(80 - 116)			SW846 8260B
	88	(80 - 116)	2.1	(0-20)	SW846 8260B
Toluene	99	(74 - 119)			SW846 8260B
	97	(74 - 119)	2.2	(0-20)	SW846 8260B
Chlorobenzene	99	(76 - 117)			SW846 8260B
	97	(76 - 117)	2.1	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	108	(73 - 122)
	106	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	111	(61 - 128)
Toluene-d8	103	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	101	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGK901AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1G190000-243
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200243
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**91**	**(55 - 142)**	**SW846 8260B**
Trichloroethene	**92**	**(70 - 131)**	**SW846 8260B**
Benzene	**94**	**(75 - 129)**	**SW846 8260B**
Toluene	**94**	**(71 - 130)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 127)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

E(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 Work Order #...: EGH7W1AA-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1G180000-269 EGH7W1AC-LCSD
Prep Date.....: 07/18/01 Analysis Date..: 07/18/01
Prep Batch #...: 1199269
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**96**	**(75 - 129)**			**SW846 8260B**
	96	**(75 - 129)**	**0.28**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**101**	**(75 - 127)**			**SW846 8260B**
	105	**(75 - 127)**	**3.0**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethylene	**90**	**(55 - 142)**			**SW846 8260B**
	90	**(55 - 142)**	**0.72**	**(0-27)**	**SW846 8260B**
Trichloroethylene	**98**	**(70 - 131)**			**SW846 8260B**
	98	**(70 - 131)**	**0.36**	**(0-23)**	**SW846 8260B**
Toluene	**86**	**(71 - 130)**			**SW846 8260B**
	88	**(71 - 130)**	**2.4**	**(0-24)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	96	(59 - 138)
	94	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
	88	(61 - 130)
Toluene-d8	94	(60 - 143)
	97	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	100	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1G170124 Work Order #...: EGHHX1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1G180000-097 EGHHX1AD-LCSD
Prep Date.....: 07/18/01 Analysis Date..: 07/18/01
Prep Batch #...: 1199097
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	67	(46 - 109)			SW846 8270C
	66	(46 - 109)	1.6	(0-32)	SW846 8270C
m-Cresol & p-Cresol	65	(46 - 109)			SW846 8270C
	65	(46 - 109)	0.82	(0-32)	SW846 8270C
1,4-Dichlorobenzene	69	(28 - 110)			SW846 8270C
	61	(28 - 110)	11	(0-36)	SW846 8270C
2,4-Dinitrotoluene	83	(47 - 131)			SW846 8270C
	80	(47 - 131)	3.8	(0-32)	SW846 8270C
Hexachlorobenzene	64	(57 - 128)			SW846 8270C
	62	(57 - 128)	3.1	(0-22)	SW846 8270C
Hexachlorobutadiene	69	(36 - 116)			SW846 8270C
	64	(36 - 116)	7.4	(0-32)	SW846 8270C
Hexachloroethane	68	(30 - 110)			SW846 8270C
	62	(30 - 110)	8.5	(0-33)	SW846 8270C
Nitrobenzene	73	(45 - 130)			SW846 8270C
	71	(45 - 130)	3.2	(0-50)	SW846 8270C
Pentachlorophenol	68	(10 - 140)			SW846 8270C
	49	(10 - 140)	32	(0-56)	SW846 8270C
Pyridine	47	(10 - 148)			SW846 8270C
	64	(10 - 148)	30	(0-65)	SW846 8270C
2,4,5-Trichloro-phenol	80	(41 - 125)			SW846 8270C
	78	(41 - 125)	2.3	(0-22)	SW846 8270C
2,4,6-Trichloro-phenol	74	(46 - 135)			SW846 8270C
	71	(46 - 135)	4.5	(0-27)	SW846 8270C
Cresols (total)	66	(46 - 109)			SW846 8270C
	66	(46 - 109)	0.010	(0-32)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	76	(32 - 112)
	73	(32 - 112)
2-Fluorobiphenyl	72	(30 - 110)
	67	(30 - 110)
Terphenyl-d14	81	(10 - 144)
	79	(10 - 144)
Phenol-d5	54	(10 - 113)
	56	(10 - 113)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1G170124 Work Order #...: EGHHX1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1G180000-097 EGHHX1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(13 - 110)
	58	(13 - 110)
2,4,6-Tribromophenol	87	(21 - 122)
	80	(21 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A1G170124 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1G180000-101 **Prep Batch #...:** 1199101					
Arsenic	90	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AK
Barium	93	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AL
Cadmium	93	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AM
Chromium	91	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AN
Lead	92	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AP
[illegible]nium	92	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AQ
Silver	102	(50 - 150)	SW846 6010B Dilution Factor: 1	07/18-07/19/01	EGHH81AR
Mercury	108	(50 - 150)	SW846 7470A Dilution Factor: 1	07/18-07/19/01	EGHH81AT

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A1G170124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)		Work Order #: EGKMT1AA	LCS Lot-Sample#: A1G180000-513		
	100	(97 - 103)	SW846 9045C	07/17/01	1199513
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EF8XM1AU-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1G120227-008 EF8XM1AV-MSD
Date Sampled...: 07/09/01 13:05 **Date Received..:** 07/12/01
Prep Date.....: 07/17/01 **Analysis Date..:** 07/17/01
Prep Batch #...: 1199343
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**89**	**(43 - 147)**			**SW846 8260B**
	79	**(43 - 147)**	**12**	**(0-27)**	**SW846 8260B**
Trichloroethene	**87**	**(46 - 143)**			**SW846 8260B**
	77	**(46 - 143)**	**12**	**(0-23)**	**SW846 8260B**
Benzene	**89**	**(55 - 138)**			**SW846 8260B**
	81	**(55 - 138)**	**9.9**	**(0-20)**	**SW846 8260B**
Toluene	**90**	**(46 - 147)**			**SW846 8260B**
	80	**(46 - 147)**	**12**	**(0-24)**	**SW846 8260B**
Chlorobenzene	**92**	**(49 - 139)**			**SW846 8260B**
	82	**(49 - 139)**	**11**	**(0-22)**	**SW846 8260B**

ROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	85	(59 - 138)
	86	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
	81	(61 - 130)
Toluene-d8	97	(60 - 143)
	97	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)
	99	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EF97Q1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1G130150-002 EF97Q1AG-MSD
Date Sampled...: 07/11/01 10:15 **Date Received..:** 07/13/01
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200206
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**94**	**(62 - 130)**			**SW846 8260B**
	89	**(62 - 130)**	**5.1**	**(0-20)**	**SW846 8260B**
Trichloroethene	**95**	**(62 - 130)**			**SW846 8260B**
	93	**(62 - 130)**	**2.7**	**(0-20)**	**SW846 8260B**
Benzene	**90**	**(78 - 118)**			**SW846 8260B**
	86	**(78 - 118)**	**5.4**	**(0-20)**	**SW846 8260B**
Toluene	**96**	**(70 - 119)**			**SW846 8260B**
	93	**(70 - 119)**	**3.3**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**97**	**(76 - 117)**			**SW846 8260B**
	93	**(76 - 117)**	**3.7**	**(0-20)**	**SW846 8260B**

ROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
	109	(61 - 128)
Toluene-d8	102	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	94	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G170124 **Work Order #...:** EGDV51AD-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1G140151-014 EGDV51AE-MSD
Date Sampled...: 07/12/01 07:00 **Date Received..:** 07/14/01
Prep Date.....: 07/18/01 **Analysis Date..:** 07/18/01
Prep Batch #...: 1200243
Dilution Factor: 1 **% Moisture.....:** 19

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**72**	**(43 - 147)**			**SW846 8260B**
	69	**(43 - 147)**	**4.9**	**(0-27)**	**SW846 8260B**
Trichloroethene	**73**	**(46 - 143)**			**SW846 8260B**
	69	**(46 - 143)**	**5.8**	**(0-23)**	**SW846 8260B**
Benzene	**75**	**(55 - 138)**			**SW846 8260B**
	71	**(55 - 138)**	**5.8**	**(0-20)**	**SW846 8260B**
Toluene	**75**	**(46 - 147)**			**SW846 8260B**
	70	**(46 - 147)**	**6.1**	**(0-24)**	**SW846 8260B**
Chlorobenzene	**75**	**(49 - 139)**			**SW846 8260B**
	71	**(49 - 139)**	**5.8**	**(0-22)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
	87	(59 - 138)
1,2-Dichloroethane-d4	81	(61 - 130)
	80	(61 - 130)
Toluene-d8	93	(60 - 143)
	94	(60 - 143)
4-Bromofluorobenzene	98	(47 - 158)
	99	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A1G170124 **Matrix.....:** SO
Date Sampled...: 07/16/01 12:10 **Date Received..:** 07/17/01

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1G170124-005 **Prep Batch #...:** 1199101							
Leach Date.....: 07/17/01 **Leach Batch #..:** P119813							
Arsenic	93	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81AN
	97	(50 - 150)	4.5	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81AP
		Dilution Factor: 5					
Barium	92	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81AQ
	97	(50 - 150)	4.5	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81AR
		Dilution Factor: 5					
Cadmium	92	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81AT
	95	(50 - 150)	4.1	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81AU
		Dilution Factor: 5					
Chromium	92	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81AV
	96	(50 - 150)	4.5	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81AW
		Dilution Factor: 5					
Lead	93	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81AX
	97	(50 - 150)	4.3	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81A0
		Dilution Factor: 5					
Selenium	94	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81A1
	98	(50 - 150)	3.9	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81A2
		Dilution Factor: 5					
Silver	96	(50 - 150)			SW846 6010B	07/18-07/19/01	EGFJ81A3
	100	(50 - 150)	3.8	(0-20)	SW846 6010B	07/18-07/19/01	EGFJ81A4
		Dilution Factor: 5					
Mercury	107	(50 - 150)			SW846 7470A	07/18-07/19/01	EGFJ81A5
	107	(50 - 150)	0.80	(0-20)	SW846 7470A	07/18-07/19/01	EGFJ81A6
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1G170124 **Work Order #...:** EGDVV-SMP EGDVV-DUP **Matrix.....:** SOLID

Date Sampled...: 07/11/01 07:05 **Date Received..:** 07/14/01

% Moisture.....: 3.1

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A1G140151-006	
	96.9	96.7	%	0.25	(0-20)	MCAWW 160.3 MOD	07/18-07/19/01	1199362

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1G170124 **Work Order #...:** EGDVX-SMP EGDVX-DUP **Matrix.....:** SOLID

Date Sampled...: 07/11/01 09:16 **Date Received..:** 07/14/01

% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A1G140151-008	
	80.1	80.7	%	0.72	(0-20)	MCAWW 160.3 MOD	07/18-07/19/01	1199362

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1G170124 **Work Order #...:** EGFJ1-SMP EGFJ1-DUP **Matrix.....:** SO

Date Sampled...: 07/16/01 14:30 **Date Received..:** 07/17/01

% Moisture.....: 99

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A1G170124-004	
	ND	ND	%	8.8	(0-20)	MCAWW 160.3 MOD	07/18-07/19/01	1199365
			Dilution Factor: 1					
Flashpoint						SD Lot-Sample #:	A1G170124-004	
	>180	>180	deg F	0.0	(0-20)	SW846 1010	07/18/01	1199392
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1G170145 **Work Order #...:** EGFTW-SMP EGFTW-DUP **Matrix.....:** WG

Date Sampled...: 07/16/01 16:00 **Date Received..:** 07/17/01

% Moisture.....: **Dilution Factor:** **Initial Wgt/Vol:**

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)						SD Lot-Sample #:	A1G170145-001	
	8.3	8.3	No Units	0.12	(0-20)	MCAWW 150.1	07/17/01	1199514

Dilution Factor: 1

SHARP AND ASSOCIATES, INC. Environmental Engineers and Scientists

Send results to: Steven Roach

CHAIN OF CUSTODY RECORD

SHARP & ASSOCIATES, INC.
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax: (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1128-3

SAMPLER (Signature): [signature]

PROJECT NAME/LOCATION: Granville Solvents

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P - G)	VOCs 8260	TCLP VOCs	TCLP SVOCs	TCLP Metals	Flash	pH	Total VOCs	PRESERVATIVE TYPE	REMARKS
East Sump	7/16/01	1405		X	Liquid	3 x 40 ml	G	X							HCL	
East Sump	7/16/01	1415		X	Soil	1 x 4 oz	G	X							ICE	
West Sump	7/16/01	1355		X	Near Claypipe in CB	1 x 8 oz	G	X							ICE	
Septic tank	7/16/01	1430		X	Septic Tank	3x40ml 3x1L		X	X	X	X	X	X		HCL/ICE	* 48 Turn around time.
Misc. Debris	7/16/01	1210	X		Filter housing & Drums	1 x 8 oz	G				X			X	ICE	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
[signature]	1505 / 7-16-01	Bi Kiess
Bi Kiess	7/16/01 1700	
		Received For Laboratory By: (Signature) [signature] 7-17-01 0945

Sample Sent To: Severn Trent Laboratories
Attn: Alex A Danford
Address: 4101 Shuttle Drive NW, North Canton, OH 44720
Phone: 330-966-9783
Freight Co.: Airborne
Air Bill No: 2274424773

Quality Assurance Data Review

Project Name: Granville Solvents
Sampling Date: 7-16-01
Date Review Date: 9-19-01
Laboratory: STL-N.C.
Reviewer's Signature: [signature]

	Matrix	Initials	Comments
Compared Chain-of-Custody to Data Received	Soil / Sediment	[initials]	
	Groundwater / Surface Water	[initials]	
	Air	—	
Sample Hold Times Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	[initials]	
	Air	—	
Trip Blank Reviewed	All		Not submitted
Sample Reporting Limits Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	[initials]	
	Air	—	
Method Blank Reviewed	Soil / Sediment	[initials]	#1
	Groundwater / Surface Water	[initials]	#2, #3 See Qualified data
	Air	—	
Surrogate Compound Recovery Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	[initials]	
	Air	—	
Matrix Spike/Spike Duplicate Recovery Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	[initials]	
	Air	—	
Duplicate Sample Reviewed	Soil / Sediment		
	Groundwater / Surface Water		
	Air	—	
Laboratory Control Sample Recovery Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	[initials]	
	Air	—	
Tentatively Identified Compound Reviewed	Soil / Sediment		NA
	Groundwater / Surface Water		NA
	Air	—	

Additional Comments:

#1 - 2-butanone (11 ug/L) detected in 7-17-01 Method blank.
#2 - Benzene (0.0011 ug/L) detected in TCLP method blank. (7-18-01) Leach batch P119807
#3 - Arsenic (0.004 mg/L); barium (0.024 mg/L); Cadmium (0.00036 mg/L) chromium (0.0032 mg/L); lead (0.048 mg/L); and selenium (0.0068 mg/L) detected in 7-18-01 + 7-19-01 TCLP Method blank (P119813 leach batch).

GVS

SOIL SAMPLES

2 INJECTION WELLS

AIR SPARGING WELLS

VAPOR EXTRACTION WELLS

7/24/01 – 7/25/01

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 1128-03

GRANVILLE SOLVENT

Lot #: A1G270150

Steven Roach

Sharp & Associates
982 Crupper Ave.
Columbus, OH 43229

SEVERN TRENT LABORATORIES, INC.

Alesia M. Danford
Project Manager

August 15, 2001

Contains Qualified Data
SL 9-19-01

CASE NARRATIVE

A1G270150

The following report contains the analytical results for eleven solid samples and one quality control sample submitted to STL North Canton by Sharp & Associates, Inc. from the Granville Solvent Site, project number 1128-03. The samples were received July 27, 2001, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided to Steven Roach on August 13, 2001. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The samples were received at the laboratory at a temperature of 2.9° C.

GC/MS VOLATILES

Sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GC VOLATILES

An LCS/LCSD was provided for batch 1219159 since there was insufficient sample volume to perform an MS/MSD.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, PAH, and Herbicide methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

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ANALYTICAL METHODS SUMMARY

A1G270150

PARAMETER	ANALYTICAL METHOD
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B
Volatiles by GC	SW846 8021B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1G270150

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EG225	001	VE-7 16'-18'	07/24/01	10:45
EG227	002	AI 16 9'-11'	07/24/01	13:02
EG229	003	A1-9 7'-9'	07/24/01	14:10
EG23A	004	A1-13 5'-7'	07/24/01	15:25
EG23F	005	A1-12 5'-7'	07/24/01	16:00
EG23H	006	VE-4 20-22	07/24/01	17:00
EG23J	007	VE-6 19-21'	07/25/01	12:30
EG23K	008	VE-5 17-19'	07/25/01	15:30
EG23L	009	VE-2 22-24'	07/25/01	17:00
EG23M	010	AS-1 18-20	07/25/01	10:04
EG23N	011	AS-4 25-27	07/25/01	17:34
EG23Q	012	TRIP BLANK	07/26/01	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-7 16'-18'

GC Volatiles

Lot-Sample #...: A1G270150-001 Work Order #...: EG2251AC Matrix.....: SO
Date Sampled...: 07/24/01 10:45 Date Received..: 07/27/01
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 9.6 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	280	ug/kg
Bromobenzene	ND	280	ug/kg
Bromochloromethane	ND	280	ug/kg
Bromodichloromethane	ND	280	ug/kg
Bromoform	ND	280	ug/kg
Bromomethane	ND	280	ug/kg
n-Butylbenzene	ND	280	ug/kg
sec-Butylbenzene	ND	280	ug/kg
tert-Butylbenzene	ND	280	ug/kg
Carbon tetrachloride	ND	280	ug/kg
Chlorobenzene	ND	280	ug/kg
Chlorodibromomethane	ND	280	ug/kg
Chloroethane	ND	280	ug/kg
Chloroform	ND	280	ug/kg
Chloromethane	ND	280	ug/kg
2-Chlorotoluene	ND	280	ug/kg
4-Chlorotoluene	ND	280	ug/kg
Dibromomethane	ND	280	ug/kg
1,2-Dichlorobenzene	ND	280	ug/kg
1,3-Dichlorobenzene	ND	280	ug/kg
1,4-Dichlorobenzene	ND	280	ug/kg
Dichlorodifluoromethane	ND	280	ug/kg
1,1-Dichloroethane	ND	280	ug/kg
1,2-Dichloroethane	ND	280	ug/kg
1,1-Dichloroethene	ND	280	ug/kg
cis-1,2-Dichloroethene	ND	280	ug/kg
trans-1,2-Dichloroethene	ND	280	ug/kg
1,2-Dichloropropane	ND	280	ug/kg
1,3-Dichloropropane	ND	280	ug/kg
2,2-Dichloropropane	ND	280	ug/kg
1,1-Dichloropropene	ND	280	ug/kg
cis-1,3-Dichloropropene	ND	280	ug/kg
trans-1,3-Dichloropropene	ND	280	ug/kg
Ethylbenzene	ND	280	ug/kg
Trichlorofluoromethane	ND	280	ug/kg
Hexachlorobutadiene	ND	280	ug/kg
Isopropylbenzene	ND	280	ug/kg
p-Isopropyltoluene	ND	280	ug/kg

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-7 16'-18'

GC Volatiles

Lot-Sample #...: A1G270150-001 Work Order #...: EG2251AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	280	ug/kg
n-Propylbenzene	ND	280	ug/kg
Styrene	ND	280	ug/kg
1,1,1,2-Tetrachloroethane	ND	280	ug/kg
1,1,2,2-Tetrachloroethane	ND	280	ug/kg
Tetrachloroethene	**31000**	**280**	**ug/kg**
Toluene	ND	280	ug/kg
1,2,3-Trichlorobenzene	ND	280	ug/kg
1,2,4-Trichloro-benzene	ND	280	ug/kg
1,1,1-Trichloroethane	ND	280	ug/kg
1,1,2-Trichloroethane	ND	280	ug/kg
Trichloroethene	**340**	**280**	**ug/kg**
1,2,3-Trichloropropane	ND	280	ug/kg
1,2,4-Trimethylbenzene	ND	280	ug/kg
1,3,5-Trimethylbenzene	ND	280	ug/kg
Vinyl chloride	ND	280	ug/kg
Xylenes (total)	ND	280	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	280	ug/kg
1,2-Dibromoethane (EDB)	ND	280	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	93	(50 - 150)
Trifluorotoluene	105	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI 16 9'-11'

GC/MS Volatiles

Lot-Sample #...: A1G270150-002 Work Order #...: EG2271AC Matrix.....: SO
Date Sampled...: 07/24/01 13:02 Date Received..: 07/27/01
Prep Date.....: 08/01/01 Analysis Date..: 08/01/01
Prep Batch #...: 1213488
Dilution Factor: 1
% Moisture.....: 9.8 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**2.5 ~~J,B~~ U**	**5.5**	**ug/kg**
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.5	ug/kg
1,1-Dichloroethene	ND	5.5	ug/kg
1,1-Dichloroethane	ND	5.5	ug/kg
1,2-Dichloroethene (total)	ND	5.5	ug/kg
Chloroform	ND	5.5	ug/kg
1,2-Dichloroethane	ND	5.5	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	ND	5.5	ug/kg
Carbon tetrachloride	ND	5.5	ug/kg
Bromodichloromethane	ND	5.5	ug/kg
1,2-Dichloropropane	ND	5.5	ug/kg
cis-1,3-Dichloropropene	ND	5.5	ug/kg
Trichloroethene	**5.2 J**	**5.5**	**ug/kg**
Dibromochloromethane	ND	5.5	ug/kg
1,1,2-Trichloroethane	ND	5.5	ug/kg
Benzene	ND	5.5	ug/kg
trans-1,3-Dichloropropene	ND	5.5	ug/kg
Bromoform	ND	5.5	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	**210**	**5.5**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
Toluene	**0.73 J**	**5.5**	**ug/kg**
Chlorobenzene	ND	5.5	ug/kg
Ethylbenzene	ND	5.5	ug/kg
Styrene	ND	5.5	ug/kg
Xylenes (total)	ND	5.5	ug/kg

GR 9-19-01

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: AI 16 9'-11'

GC/MS Volatiles

Lot-Sample #...: A1G270150-002 Work Order #...: EG2271AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

U = result considered non-detect at concentration reported due to method blank contamination.

SAL 9-19-01

SHARP & ASSOCIATES, INC.

Client Sample ID: A1-9 7'-9'

GC/MS Volatiles

Lot-Sample #...: A1G270150-003 Work Order #...: EG2291AC Matrix.....: SO
Date Sampled...: 07/24/01 14:10 Date Received..: 07/27/01
Prep Date.....: 08/01/01 Analysis Date..: 08/01/01
Prep Batch #...: 1213488
Dilution Factor: 1
% Moisture.....: 9.1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	**2.7 ~~J,B~~ U**	**5.5**	**ug/kg**
Acetone	ND	22	ug/kg
Carbon disulfide	ND	5.5	ug/kg
1,1-Dichloroethene	ND	5.5	ug/kg
1,1-Dichloroethane	ND	5.5	ug/kg
1,2-Dichloroethene (total)	ND	5.5	ug/kg
Chloroform	ND	5.5	ug/kg
1,2-Dichloroethane	ND	5.5	ug/kg
2-Butanone	ND	22	ug/kg
1,1,1-Trichloroethane	**4.4 J**	**5.5**	**ug/kg**
Carbon tetrachloride	ND	5.5	ug/kg
Bromodichloromethane	ND	5.5	ug/kg
1,2-Dichloropropane	ND	5.5	ug/kg
cis-1,3-Dichloropropene	ND	5.5	ug/kg
Trichloroethene	**46**	**5.5**	**ug/kg**
Dibromochloromethane	ND	5.5	ug/kg
1,1,2-Trichloroethane	ND	5.5	ug/kg
Benzene	ND	5.5	ug/kg
trans-1,3-Dichloropropene	ND	5.5	ug/kg
Bromoform	ND	5.5	ug/kg
4-Methyl-2-pentanone	ND	22	ug/kg
2-Hexanone	ND	22	ug/kg
Tetrachloroethene	**100**	**5.5**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg
Toluene	ND	5.5	ug/kg
Chlorobenzene	ND	5.5	ug/kg
Ethylbenzene	ND	5.5	ug/kg
Styrene	ND	5.5	ug/kg
Xylenes (total)	ND	5.5	ug/kg

SRL 9-19-01

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
1,2-Dichloroethane-d4	97	(61 - 130)
Toluene-d8	98	(60 - 143)
4-Bromofluorobenzene	91	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: A1-9 7'-9'

GC/MS Volatiles

Lot-Sample #...: A1G270150-003 Work Order #...: EG2291AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

U = result considered non-detect at concentration reported due to method blank contamination.

SBL 9/19/01

SHARP & ASSOCIATES, INC.

Client Sample ID: A1-13 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1G270150-004 Work Order #...: EG23A1AC Matrix.....: SO
Date Sampled...: 07/24/01 15:25 Date Received..: 07/27/01
Prep Date.....: 08/03/01 Analysis Date..: 08/03/01
Prep Batch #...: 1217138
Dilution Factor: 3.33
% Moisture.....: 15 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	39	ug/kg
Bromomethane	ND	39	ug/kg
Vinyl chloride	ND	39	ug/kg
Chloroethane	ND	39	ug/kg
Methylene chloride	ND	20	ug/kg
Acetone	ND	78	ug/kg
Carbon disulfide	ND	20	ug/kg
1,1-Dichloroethene	ND	20	ug/kg
1,1-Dichloroethane	**71**	**20**	**ug/kg**
1,2-Dichloroethene (total)	**71**	**20**	**ug/kg**
Chloroform	ND	20	ug/kg
1,2-Dichloroethane	ND	20	ug/kg
2-Butanone	ND	78	ug/kg
1,1,1-Trichloroethane	**240**	**20**	**ug/kg**
Carbon tetrachloride	ND	20	ug/kg
Bromodichloromethane	ND	20	ug/kg
1,2-Dichloropropane	ND	20	ug/kg
cis-1,3-Dichloropropene	ND	20	ug/kg
Trichloroethene	**130**	**20**	**ug/kg**
Dibromochloromethane	ND	20	ug/kg
1,1,2-Trichloroethane	ND	20	ug/kg
Benzene	ND	20	ug/kg
trans-1,3-Dichloropropene	ND	20	ug/kg
Bromoform	ND	20	ug/kg
4-Methyl-2-pentanone	ND	78	ug/kg
2-Hexanone	ND	78	ug/kg
Tetrachloroethene	**630**	**20**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	20	ug/kg
Toluene	ND	20	ug/kg
Chlorobenzene	ND	20	ug/kg
Ethylbenzene	ND	20	ug/kg
Styrene	ND	20	ug/kg
Xylenes (total)	ND	20	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: A1-13 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1G270150-004 Work Order #...: EG23A1AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: A1-12 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1G270150-005 Work Order #...: EG23F1AC Matrix.....: SO
Date Sampled...: 07/24/01 16:00 Date Received..: 07/27/01
Prep Date.....: 08/01/01 Analysis Date..: 08/01/01
Prep Batch #...: 1213488
Dilution Factor: 1
% Moisture.....: 20 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	**3.2 JrB4**	**6.2**	**ug/kg**
Acetone	ND	25	ug/kg
Carbon disulfide	ND	6.2	ug/kg
1,1-Dichloroethene	ND	6.2	ug/kg
1,1-Dichloroethane	ND	6.2	ug/kg
1,2-Dichloroethene (total)	ND	6.2	ug/kg
Chloroform	ND	6.2	ug/kg
1,2-Dichloroethane	ND	6.2	ug/kg
2-Butanone	ND	25	ug/kg
1,1,1-Trichloroethane	**9.0**	**6.2**	**ug/kg**
Carbon tetrachloride	ND	6.2	ug/kg
Bromodichloromethane	ND	6.2	ug/kg
1,2-Dichloropropane	ND	6.2	ug/kg
cis-1,3-Dichloropropene	ND	6.2	ug/kg
Trichloroethene	**65**	**6.2**	**ug/kg**
Dibromochloromethane	ND	6.2	ug/kg
1,1,2-Trichloroethane	ND	6.2	ug/kg
Benzene	ND	6.2	ug/kg
trans-1,3-Dichloropropene	ND	6.2	ug/kg
Bromoform	ND	6.2	ug/kg
4-Methyl-2-pentanone	ND	25	ug/kg
2-Hexanone	ND	25	ug/kg
Tetrachloroethene	**200**	**6.2**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg
Toluene	ND	6.2	ug/kg
Chlorobenzene	ND	6.2	ug/kg
Ethylbenzene	ND	6.2	ug/kg
Styrene	ND	6.2	ug/kg
Xylenes (total)	ND	6.2	ug/kg

SM 9-19-01

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	101	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: A1-12 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1G270150-005 Work Order #...: EG23F1AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

u = result considered non-detect at concentration reported due to method blank contamination.

SAL 9-17-01

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-4 20-22

GC Volatiles

Lot-Sample #...: A1G270150-006 Work Order #...: EG23H1AC Matrix.....: SO
Date Sampled...: 07/24/01 17:00 Date Received..: 07/27/01
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 8.9 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	270	ug/kg
Bromobenzene	ND	270	ug/kg
Bromochloromethane	ND	270	ug/kg
Bromodichloromethane	ND	270	ug/kg
Bromoform	ND	270	ug/kg
Bromomethane	ND	270	ug/kg
n-Butylbenzene	ND	270	ug/kg
sec-Butylbenzene	ND	270	ug/kg
tert-Butylbenzene	ND	270	ug/kg
Carbon tetrachloride	ND	270	ug/kg
Chlorobenzene	ND	270	ug/kg
Chlorodibromomethane	ND	270	ug/kg
Chloroethane	ND	270	ug/kg
Chloroform	ND	270	ug/kg
Chloromethane	ND	270	ug/kg
2-Chlorotoluene	ND	270	ug/kg
4-Chlorotoluene	ND	270	ug/kg
Dibromomethane	ND	270	ug/kg
1,2-Dichlorobenzene	ND	270	ug/kg
1,3-Dichlorobenzene	ND	270	ug/kg
1,4-Dichlorobenzene	ND	270	ug/kg
Dichlorodifluoromethane	ND	270	ug/kg
1,1-Dichloroethane	ND	270	ug/kg
1,2-Dichloroethane	ND	270	ug/kg
1,1-Dichloroethene	ND	270	ug/kg
cis-1,2-Dichloroethene	ND	270	ug/kg
trans-1,2-Dichloroethene	ND	270	ug/kg
1,2-Dichloropropane	ND	270	ug/kg
1,3-Dichloropropane	ND	270	ug/kg
2,2-Dichloropropane	ND	270	ug/kg
1,1-Dichloropropene	ND	270	ug/kg
cis-1,3-Dichloropropene	ND	270	ug/kg
trans-1,3-Dichloropropene	ND	270	ug/kg
Ethylbenzene	ND	270	ug/kg
Trichlorofluoromethane	ND	270	ug/kg
Hexachlorobutadiene	ND	270	ug/kg
Isopropylbenzene	ND	270	ug/kg
p-Isopropyltoluene	ND	270	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: VE-4 20-22

GC Volatiles

Lot-Sample #...: A1G270150-006 Work Order #...: EG23H1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	270	ug/kg
n-Propylbenzene	ND	270	ug/kg
Styrene	ND	270	ug/kg
1,1,1,2-Tetrachloroethane	ND	270	ug/kg
1,1,2,2-Tetrachloroethane	ND	270	ug/kg
Tetrachloroethene	**4700**	**270**	**ug/kg**
Toluene	ND	270	ug/kg
1,2,3-Trichlorobenzene	ND	270	ug/kg
1,2,4-Trichloro-benzene	ND	270	ug/kg
1,1,1-Trichloroethane	ND	270	ug/kg
1,1,2-Trichloroethane	ND	270	ug/kg
Trichloroethene	**380**	**270**	**ug/kg**
1,2,3-Trichloropropane	ND	270	ug/kg
1,2,4-Trimethylbenzene	ND	270	ug/kg
1,3,5-Trimethylbenzene	ND	270	ug/kg
Vinyl chloride	ND	270	ug/kg
Xylenes (total)	ND	270	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	270	ug/kg
1,2-Dibromoethane (EDB)	ND	270	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	92	(50 - 150)
Trifluorotoluene	103	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-6 19-21'

GC Volatiles

Lot-Sample #...: A1G270150-007 Work Order #...: EG23J1AC Matrix.....: SO
Date Sampled...: 07/25/01 12:30 Date Received..: 07/27/01
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 9.6 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	280	ug/kg
Bromobenzene	ND	280	ug/kg
Bromochloromethane	ND	280	ug/kg
Bromodichloromethane	ND	280	ug/kg
Bromoform	ND	280	ug/kg
Bromomethane	ND	280	ug/kg
n-Butylbenzene	ND	280	ug/kg
sec-Butylbenzene	ND	280	ug/kg
tert-Butylbenzene	ND	280	ug/kg
Carbon tetrachloride	ND	280	ug/kg
Chlorobenzene	ND	280	ug/kg
Chlorodibromomethane	ND	280	ug/kg
Chloroethane	ND	280	ug/kg
Chloroform	ND	280	ug/kg
Chloromethane	ND	280	ug/kg
2-Chlorotoluene	ND	280	ug/kg
4-Chlorotoluene	ND	280	ug/kg
Dibromomethane	ND	280	ug/kg
1,2-Dichlorobenzene	ND	280	ug/kg
1,3-Dichlorobenzene	ND	280	ug/kg
1,4-Dichlorobenzene	ND	280	ug/kg
Dichlorodifluoromethane	ND	280	ug/kg
1,1-Dichloroethane	ND	280	ug/kg
1,2-Dichloroethane	ND	280	ug/kg
1,1-Dichloroethene	ND	280	ug/kg
cis-1,2-Dichloroethene	ND	280	ug/kg
trans-1,2-Dichloroethene	ND	280	ug/kg
1,2-Dichloropropane	ND	280	ug/kg
1,3-Dichloropropane	ND	280	ug/kg
2,2-Dichloropropane	ND	280	ug/kg
1,1-Dichloropropene	ND	280	ug/kg
cis-1,3-Dichloropropene	ND	280	ug/kg
trans-1,3-Dichloropropene	ND	280	ug/kg
Ethylbenzene	ND	280	ug/kg
Trichlorofluoromethane	ND	280	ug/kg
Hexachlorobutadiene	ND	280	ug/kg
Isopropylbenzene	ND	280	ug/kg
p-Isopropyltoluene	ND	280	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: VE-6 19-21'

GC Volatiles

Lot-Sample #...: A1G270150-007 Work Order #...: EG23J1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	280	ug/kg
n-Propylbenzene	ND	280	ug/kg
Styrene	ND	280	ug/kg
1,1,1,2-Tetrachloroethane	ND	280	ug/kg
1,1,2,2-Tetrachloroethane	ND	280	ug/kg
Tetrachloroethene	**3000**	**280**	**ug/kg**
Toluene	ND	280	ug/kg
1,2,3-Trichlorobenzene	ND	280	ug/kg
1,2,4-Trichloro-benzene	ND	280	ug/kg
1,1,1-Trichloroethane	ND	280	ug/kg
1,1,2-Trichloroethane	ND	280	ug/kg
Trichloroethene	**2400**	**280**	**ug/kg**
1,2,3-Trichloropropane	ND	280	ug/kg
1,2,4-Trimethylbenzene	ND	280	ug/kg
1,3,5-Trimethylbenzene	ND	280	ug/kg
Vinyl chloride	ND	280	ug/kg
Xylenes (total)	ND	280	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	280	ug/kg
1,2-Dibromoethane (EDB)	ND	280	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	88	(50 - 150)
Trifluorotoluene	105	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-5 17-19'

GC Volatiles

Lot-Sample #...: A1G270150-008 Work Order #...: EG23K1AC Matrix.....: SO
Date Sampled...: 07/25/01 15:30 Date Received..: 07/27/01
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 8.3 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	270	ug/kg
Bromobenzene	ND	270	ug/kg
Bromochloromethane	ND	270	ug/kg
Bromodichloromethane	ND	270	ug/kg
Bromoform	ND	270	ug/kg
Bromomethane	ND	270	ug/kg
n-Butylbenzene	ND	270	ug/kg
sec-Butylbenzene	ND	270	ug/kg
tert-Butylbenzene	ND	270	ug/kg
Carbon tetrachloride	ND	270	ug/kg
Chlorobenzene	ND	270	ug/kg
Chlorodibromomethane	ND	270	ug/kg
Chloroethane	ND	270	ug/kg
Chloroform	ND	270	ug/kg
Chloromethane	ND	270	ug/kg
2-Chlorotoluene	ND	270	ug/kg
4-Chlorotoluene	ND	270	ug/kg
Dibromomethane	ND	270	ug/kg
1,2-Dichlorobenzene	ND	270	ug/kg
1,3-Dichlorobenzene	ND	270	ug/kg
1,4-Dichlorobenzene	ND	270	ug/kg
Dichlorodifluoromethane	ND	270	ug/kg
1,1-Dichloroethane	ND	270	ug/kg
1,2-Dichloroethane	ND	270	ug/kg
1,1-Dichloroethene	ND	270	ug/kg
cis-1,2-Dichloroethene	ND	270	ug/kg
trans-1,2-Dichloroethene	ND	270	ug/kg
1,2-Dichloropropane	ND	270	ug/kg
1,3-Dichloropropane	ND	270	ug/kg
2,2-Dichloropropane	ND	270	ug/kg
1,1-Dichloropropene	ND	270	ug/kg
cis-1,3-Dichloropropene	ND	270	ug/kg
trans-1,3-Dichloropropene	ND	270	ug/kg
Ethylbenzene	ND	270	ug/kg
Trichlorofluoromethane	ND	270	ug/kg
Hexachlorobutadiene	ND	270	ug/kg
Isopropylbenzene	ND	270	ug/kg
p-Isopropyltoluene	ND	270	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: VE-5 17-19'

GC Volatiles

Lot-Sample #...: A1G270150-008 Work Order #...: EG23K1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	270	ug/kg
n-Propylbenzene	ND	270	ug/kg
Styrene	ND	270	ug/kg
1,1,1,2-Tetrachloroethane	ND	270	ug/kg
1,1,2,2-Tetrachloroethane	ND	270	ug/kg
Tetrachloroethene	ND	270	ug/kg
Toluene	ND	270	ug/kg
1,2,3-Trichlorobenzene	ND	270	ug/kg
1,2,4-Trichlorobenzene	ND	270	ug/kg
1,1,1-Trichloroethane	17000	270	ug/kg
1,1,2-Trichloroethane	ND	270	ug/kg
Trichloroethene	14000	270	ug/kg
1,2,3-Trichloropropane	ND	270	ug/kg
1,2,4-Trimethylbenzene	ND	270	ug/kg
1,3,5-Trimethylbenzene	ND	270	ug/kg
Vinyl chloride	ND	270	ug/kg
Xylenes (total)	ND	270	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	270	ug/kg
1,2-Dibromoethane (EDB)	ND	270	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	93	(50 - 150)
Trifluorotoluene	106	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-2 22-24'

GC Volatiles

Lot-Sample #...: A1G270150-009 Work Order #...: EG23L1AC Matrix.....: SO
Date Sampled...: 07/25/01 17:00 Date Received..: 07/27/01
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 9.0 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	270	ug/kg
Bromobenzene	ND	270	ug/kg
Bromochloromethane	ND	270	ug/kg
Bromodichloromethane	ND	270	ug/kg
Bromoform	ND	270	ug/kg
Bromomethane	ND	270	ug/kg
n-Butylbenzene	ND	270	ug/kg
sec-Butylbenzene	ND	270	ug/kg
tert-Butylbenzene	ND	270	ug/kg
Carbon tetrachloride	ND	270	ug/kg
Chlorobenzene	ND	270	ug/kg
Chlorodibromomethane	ND	270	ug/kg
Chloroethane	ND	270	ug/kg
Chloroform	ND	270	ug/kg
Chloromethane	ND	270	ug/kg
2-Chlorotoluene	ND	270	ug/kg
4-Chlorotoluene	ND	270	ug/kg
Dibromomethane	ND	270	ug/kg
1,2-Dichlorobenzene	ND	270	ug/kg
1,3-Dichlorobenzene	ND	270	ug/kg
1,4-Dichlorobenzene	ND	270	ug/kg
Dichlorodifluoromethane	ND	270	ug/kg
1,1-Dichloroethane	ND	270	ug/kg
1,2-Dichloroethane	ND	270	ug/kg
1,1-Dichloroethene	ND	270	ug/kg
cis-1,2-Dichloroethene	ND	270	ug/kg
trans-1,2-Dichloroethene	ND	270	ug/kg
1,2-Dichloropropane	ND	270	ug/kg
1,3-Dichloropropane	ND	270	ug/kg
2,2-Dichloropropane	ND	270	ug/kg
1,1-Dichloropropene	ND	270	ug/kg
cis-1,3-Dichloropropene	ND	270	ug/kg
trans-1,3-Dichloropropene	ND	270	ug/kg
Ethylbenzene	ND	270	ug/kg
Trichlorofluoromethane	ND	270	ug/kg
Hexachlorobutadiene	ND	270	ug/kg
Isopropylbenzene	ND	270	ug/kg
p-Isopropyltoluene	ND	270	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: VE-2 22-24'

GC Volatiles

Lot-Sample #...: A1G270150-009 Work Order #...: EG23L1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	270	ug/kg
n-Propylbenzene	ND	270	ug/kg
Styrene	ND	270	ug/kg
1,1,1,2-Tetrachloroethane	ND	270	ug/kg
1,1,2,2-Tetrachloroethane	ND	270	ug/kg
Tetrachloroethene	**2800**	**270**	**ug/kg**
Toluene	ND	270	ug/kg
1,2,3-Trichlorobenzene	ND	270	ug/kg
1,2,4-Trichloro-benzene	ND	270	ug/kg
1,1,1-Trichloroethane	**480**	**270**	**ug/kg**
1,1,2-Trichloroethane	ND	270	ug/kg
Trichloroethene	**3500**	**270**	**ug/kg**
1,2,3-Trichloropropane	ND	270	ug/kg
1,2,4-Trimethylbenzene	ND	270	ug/kg
1,3,5-Trimethylbenzene	ND	270	ug/kg
Vinyl chloride	ND	270	ug/kg
Xylenes (total)	ND	270	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	270	ug/kg
1,2-Dibromoethane (EDB)	ND	270	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	102	(50 - 150)
Trifluorotoluene	101	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AS-1 18-20

GC/MS Volatiles

Lot-Sample #...: A1G270150-010 Work Order #...: EG23M1AC Matrix.....: SO
Date Sampled...: 07/25/01 10:04 Date Received..: 07/27/01
Prep Date.....: 08/03/01 Analysis Date..: 08/03/01
Prep Batch #...: 1217138
Dilution Factor: 5
% Moisture.....: 12 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	57	ug/kg
Bromomethane	ND	57	ug/kg
Vinyl chloride	ND	57	ug/kg
Chloroethane	ND	57	ug/kg
Methylene chloride	**550**	**28**	**ug/kg**
Acetone	ND	110	ug/kg
Carbon disulfide	ND	28	ug/kg
1,1-Dichloroethene	ND	28	ug/kg
1,1-Dichloroethane	**200**	**28**	**ug/kg**
1,2-Dichloroethene (total)	**190**	**28**	**ug/kg**
Chloroform	ND	28	ug/kg
1,2-Dichloroethane	ND	28	ug/kg
2-Butanone	ND	110	ug/kg
1,1,1-Trichloroethane	**14 J**	**28**	**ug/kg**
Carbon tetrachloride	ND	28	ug/kg
Bromodichloromethane	ND	28	ug/kg
1,2-Dichloropropane	ND	28	ug/kg
cis-1,3-Dichloropropene	ND	28	ug/kg
Trichloroethene	**180**	**28**	**ug/kg**
Dibromochloromethane	ND	28	ug/kg
1,1,2-Trichloroethane	ND	28	ug/kg
Benzene	ND	28	ug/kg
trans-1,3-Dichloropropene	ND	28	ug/kg
Bromoform	ND	28	ug/kg
4-Methyl-2-pentanone	ND	110	ug/kg
2-Hexanone	ND	110	ug/kg
Tetrachloroethene	**16 J**	**28**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	28	ug/kg
Toluene	ND	28	ug/kg
Chlorobenzene	ND	28	ug/kg
Ethylbenzene	ND	28	ug/kg
Styrene	ND	28	ug/kg
Xylenes (total)	ND	28	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(59 - 138)
1,2-Dichloroethane-d4	97	(61 - 130)
Toluene-d8	108	(60 - 143)
4-Bromofluorobenzene	83	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: AS-1 18-20

GC/MS Volatiles

Lot-Sample #...: A1G270150-010 Work Order #...: EG23M1AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: AS-4 25-27

GC Volatiles

Lot-Sample #...: A1G270150-011 **Work Order #...:** EG23N1AC **Matrix.....:** SO
Date Sampled...: 07/25/01 17:34 **Date Received..:** 07/27/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 8.7 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	270	ug/kg
Bromobenzene	ND	270	ug/kg
Bromochloromethane	ND	270	ug/kg
Bromodichloromethane	ND	270	ug/kg
Bromoform	ND	270	ug/kg
Bromomethane	ND	270	ug/kg
n-Butylbenzene	ND	270	ug/kg
sec-Butylbenzene	ND	270	ug/kg
tert-Butylbenzene	ND	270	ug/kg
Carbon tetrachloride	ND	270	ug/kg
Chlorobenzene	ND	270	ug/kg
Chlorodibromomethane	ND	270	ug/kg
Chloroethane	ND	270	ug/kg
Chloroform	ND	270	ug/kg
Chloromethane	ND	270	ug/kg
2-Chlorotoluene	ND	270	ug/kg
4-Chlorotoluene	ND	270	ug/kg
Dibromomethane	ND	270	ug/kg
1,2-Dichlorobenzene	ND	270	ug/kg
1,3-Dichlorobenzene	ND	270	ug/kg
1,4-Dichlorobenzene	ND	270	ug/kg
Dichlorodifluoromethane	ND	270	ug/kg
1,1-Dichloroethane	ND	270	ug/kg
1,2-Dichloroethane	ND	270	ug/kg
1,1-Dichloroethene	ND	270	ug/kg
cis-1,2-Dichloroethene	ND	270	ug/kg
trans-1,2-Dichloroethene	ND	270	ug/kg
1,2-Dichloropropane	ND	270	ug/kg
1,3-Dichloropropane	ND	270	ug/kg
2,2-Dichloropropane	ND	270	ug/kg
1,1-Dichloropropene	ND	270	ug/kg
cis-1,3-Dichloropropene	ND	270	ug/kg
trans-1,3-Dichloropropene	ND	270	ug/kg
Ethylbenzene	ND	270	ug/kg
Trichlorofluoromethane	ND	270	ug/kg
Hexachlorobutadiene	ND	270	ug/kg
Isopropylbenzene	ND	270	ug/kg
p-Isopropyltoluene	ND	270	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AS-4 25-27

GC Volatiles

Lot-Sample #...: A1G270150-011 Work Order #...: EG23N1AC Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	270	ug/kg
n-Propylbenzene	ND	270	ug/kg
Styrene	ND	270	ug/kg
1,1,1,2-Tetrachloroethane	ND	270	ug/kg
1,1,2,2-Tetrachloroethane	ND	270	ug/kg
Tetrachloroethene	***14000***	***270***	***ug/kg***
Toluene	ND	270	ug/kg
1,2,3-Trichlorobenzene	ND	270	ug/kg
1,2,4-Trichlorobenzene	ND	270	ug/kg
1,1,1-Trichloroethane	**690**	**270**	**ug/kg**
1,1,2-Trichloroethane	ND	270	ug/kg
Trichloroethene	**2700**	**270**	**ug/kg**
1,2,3-Trichloropropane	ND	270	ug/kg
1,2,4-Trimethylbenzene	ND	270	ug/kg
1,3,5-Trimethylbenzene	ND	270	ug/kg
Vinyl chloride	ND	270	ug/kg
Xylenes (total)	ND	270	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	270	ug/kg
1,2-Dibromoethane (EDB)	ND	270	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	108	(50 - 150)
Trifluorotoluene	102	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1G270150-012 Work Order #...: EG23Q1AA Matrix.....: WQ
Date Sampled...: 07/26/01 Date Received..: 07/27/01
Prep Date.....: 08/02/01 Analysis Date..: 08/02/01
Prep Batch #...: 1215133
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
Acetone	ND	10	ug/L
Carbon disulfide	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethene (total)	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Benzene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	10	ug/L
2-Hexanone	ND	10	ug/L
Tetrachloroethene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EHA2N1AA Matrix.....: SOLID
MB Lot-Sample #: A1H010000-488

Prep Date.....: 08/01/01
Analysis Date..: 08/01/01 Prep Batch #...: 1213488
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Methylene chloride	1.8 J	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 **Work Order #...:** EHA2N1AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EHE611AA Matrix.....: WATER
MB Lot-Sample #: A1H030000-133

Prep Date.....: 08/02/01
Analysis Date..: 08/02/01 Prep Batch #...: 1215133
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 **Work Order #...:** EHE611AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EHHP41AA Matrix.....: SOLID
MB Lot-Sample #: A1H050000-138

Prep Date.....: 08/03/01
Analysis Date..: 08/03/01 Prep Batch #...: 1217138
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	99	(60 - 143)
4-Bromofluorobenzene	96	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 **Work Order #...:** EHHP41AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1G270150 Work Order #...: EHJXC1AA Matrix.....: SOLID
MB Lot-Sample #: A1H070000-159

Prep Date.....: 08/06/01
Analysis Date..: 08/06/01 Prep Batch #...: 1219159
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	50	ug/kg	SW846 8021B
Bromobenzene	ND	50	ug/kg	SW846 8021B
Bromochloromethane	ND	50	ug/kg	SW846 8021B
Bromodichloromethane	ND	50	ug/kg	SW846 8021B
Bromoform	ND	50	ug/kg	SW846 8021B
Bromomethane	ND	50	ug/kg	SW846 8021B
n-Butylbenzene	ND	50	ug/kg	SW846 8021B
sec-Butylbenzene	ND	50	ug/kg	SW846 8021B
tert-Butylbenzene	ND	50	ug/kg	SW846 8021B
Carbon tetrachloride	ND	50	ug/kg	SW846 8021B
Chlorobenzene	ND	50	ug/kg	SW846 8021B
Chlorodibromomethane	ND	50	ug/kg	SW846 8021B
Chloroethane	ND	50	ug/kg	SW846 8021B
Chloroform	ND	50	ug/kg	SW846 8021B
Chloromethane	ND	50	ug/kg	SW846 8021B
2-Chlorotoluene	ND	50	ug/kg	SW846 8021B
4-Chlorotoluene	ND	50	ug/kg	SW846 8021B
Dibromomethane	ND	50	ug/kg	SW846 8021B
1,2-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
1,3-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
1,4-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
Dichlorodifluoromethane	ND	50	ug/kg	SW846 8021B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8021B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8021B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8021B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8021B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8021B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8021B
1,3-Dichloropropane	ND	50	ug/kg	SW846 8021B
2,2-Dichloropropane	ND	50	ug/kg	SW846 8021B
1,1-Dichloropropene	ND	50	ug/kg	SW846 8021B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8021B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8021B
Ethylbenzene	ND	50	ug/kg	SW846 8021B
Trichlorofluoromethane	ND	50	ug/kg	SW846 8021B
Hexachlorobutadiene	ND	50	ug/kg	SW846 8021B
Isopropylbenzene	ND	50	ug/kg	SW846 8021B
p-Isopropyltoluene	ND	50	ug/kg	SW846 8021B
Methylene chloride	ND	250	ug/kg	SW846 8021B
Naphthalene	ND	50	ug/kg	SW846 8021B
n-Propylbenzene	ND	50	ug/kg	SW846 8021B

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METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1G270150 **Work Order #...:** EHJXC1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Styrene	ND	50	ug/kg	SW846 8021B
1,1,1,2-Tetrachloroethane	ND	50	ug/kg	SW846 8021B
1,1,2,2-Tetrachloroethane	ND	50	ug/kg	SW846 8021B
Tetrachloroethene	ND	50	ug/kg	SW846 8021B
Toluene	ND	50	ug/kg	SW846 8021B
1,2,3-Trichlorobenzene	ND	50	ug/kg	SW846 8021B
1,2,4-Trichloro-benzene	ND	50	ug/kg	SW846 8021B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8021B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8021B
Trichloroethene	ND	50	ug/kg	SW846 8021B
1,2,3-Trichloropropane	ND	50	ug/kg	SW846 8021B
1,2,4-Trimethylbenzene	ND	50	ug/kg	SW846 8021B
1,3,5-Trimethylbenzene	ND	50	ug/kg	SW846 8021B
Vinyl chloride	ND	50	ug/kg	SW846 8021B
Xylenes (total)	ND	50	ug/kg	SW846 8021B
2-Dibromo-3-chloropropane (DBCP)	ND	50	ug/kg	SW846 8021B
1,2-Dibromoethane (EDB)	ND	50	ug/kg	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	82	(50 - 150)
Trifluorotoluene	107	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EHA2N1AC Matrix.....: SOLID
LCS Lot-Sample#: A1H010000-488
Prep Date.....: 08/01/01 Analysis Date..: 08/01/01
Prep Batch #...: 1213488
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	105	(55 - 142)	SW846 8260B
Trichloroethene	99	(70 - 131)	SW846 8260B
Benzene	101	(75 - 129)	SW846 8260B
Toluene	94	(71 - 130)	SW846 8260B
Chlorobenzene	96	(75 - 127)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
Toluene-d8	96	(60 - 143)
4-Bromofluorobenzene	104	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EHE611AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A1H030000-133 EHE611AD-LCSD
Prep Date.....: 08/02/01 Analysis Date..: 08/02/01
Prep Batch #...: 1215133
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	103	(63 - 130)			SW846 8260B
	115	(63 - 130)	11	(0-20)	SW846 8260B
Trichloroethene	100	(75 - 122)			SW846 8260B
	111	(75 - 122)	11	(0-20)	SW846 8260B
Benzene	92	(80 - 116)			SW846 8260B
	100	(80 - 116)	8.5	(0-20)	SW846 8260B
Toluene	93	(74 - 119)			SW846 8260B
	100	(74 - 119)	7.2	(0-20)	SW846 8260B
Chlorobenzene	95	(76 - 117)			SW846 8260B
	102	(76 - 117)	7.7	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(73 - 122)
	107	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
	107	(61 - 128)
Toluene-d8	99	(76 - 110)
	102	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)
	100	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EHHP41AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H050000-138 EHHP41AD-LCSD
Prep Date.....: 08/03/01 Analysis Date..: 08/03/01
Prep Batch #...: 1217138
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	97	(55 - 142)			SW846 8260B
	96	(55 - 142)	1.2	(0-27)	SW846 8260B
Trichloroethene	94	(70 - 131)			SW846 8260B
	93	(70 - 131)	1.5	(0-23)	SW846 8260B
Benzene	94	(75 - 129)			SW846 8260B
	93	(75 - 129)	0.65	(0-20)	SW846 8260B
Toluene	97	(71 - 130)			SW846 8260B
	95	(71 - 130)	2.1	(0-24)	SW846 8260B
Chlorobenzene	98	(75 - 127)			SW846 8260B
	97	(75 - 127)	0.86	(0-22)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(59 - 138)
	94	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
	95	(61 - 130)
Toluene-d8	99	(60 - 143)
	100	(60 - 143)
4-Bromofluorobenzene	100	(47 - 158)
	101	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1G270150 Work Order #...: EHJXC1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H070000-159 EHJXC1AD-LCSD
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	111	(68 - 124)			SW846 8021B
	117	(68 - 124)	5.4	(0-20)	SW846 8021B
Chlorobenzene	89	(86 - 115)			SW846 8021B
	91	(86 - 115)	2.5	(0-20)	SW846 8021B
1,1-Dichloroethene	112	(84 - 120)			SW846 8021B
	115	(84 - 120)	2.7	(0-20)	SW846 8021B
Toluene	113	(70 - 125)			SW846 8021B
	119	(70 - 125)	5.3	(0-20)	SW846 8021B
Trichloroethene	89	(24 - 118)			SW846 8021B
	89	(24 - 118)	0.060	(0-21)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	85	(50 - 150)
	83	(50 - 150)
Trifluorotoluene	114	(64 - 148)
	116	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EG2291AD-MS Matrix.....: SO
MS Lot-Sample #: A1G270150-003 EG2291AE-MSD
Date Sampled...: 07/24/01 14:10 Date Received..: 07/27/01
Prep Date.....: 08/01/01 Analysis Date..: 08/01/01
Prep Batch #...: 1213488
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	94	(43 - 147)			SW846 8260B
	92	(43 - 147)	2.1	(0-27)	SW846 8260B
Trichloroethene	143	(46 - 143)			SW846 8260B
	95 p	(46 - 143)	24	(0-23)	SW846 8260B
Benzene	88	(55 - 138)			SW846 8260B
	86	(55 - 138)	1.5	(0-20)	SW846 8260B
Toluene	82	(46 - 147)			SW846 8260B
	80	(46 - 147)	1.8	(0-24)	SW846 8260B
Chlorobenzene	72	(49 - 139)			SW846 8260B
	74	(49 - 139)	1.4	(0-22)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(59 - 138)
	95	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
	94	(61 - 130)
Toluene-d8	100	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)
	94	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G270150 Work Order #...: EG22E1AC-MS Matrix.....: WATER
MS Lot-Sample #: A1G270147-003 EG22E1AD-MSD
Date Sampled...: 07/26/01 14:00 Date Received..: 07/27/01
Prep Date.....: 08/02/01 Analysis Date..: 08/02/01
Prep Batch #...: 1215133
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	112	(62 - 130)			SW846 8260B
	118	(62 - 130)	5.2	(0-20)	SW846 8260B
Trichloroethene	93	(62 - 130)			SW846 8260B
	95	(62 - 130)	0.82	(0-20)	SW846 8260B
Benzene	96	(78 - 118)			SW846 8260B
	99	(78 - 118)	2.2	(0-20)	SW846 8260B
Toluene	99	(70 - 119)			SW846 8260B
	101	(70 - 119)	2.2	(0-20)	SW846 8260B
Chlorobenzene	100	(76 - 117)			SW846 8260B
	103	(76 - 117)	2.3	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
	97	(61 - 128)
Toluene-d8	100	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	100	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SHARP AND ASSOCIATES, INC. Environmental Engineers and Scientists

CHAIN OF CUSTODY RECORD

Send results to:

SHARP & ASSOCIATES, INC.
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax: (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1122-03

SAMPLER (Signature): [signature]

PROJECT NAME/LOCATION: Granville Islands

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P-G)	PARAMETER: Volatile Hydro 8021	PARAMETER: TCL VOC 8260	PARAMETER	PARAMETER	PARAMETER	PRESERVATIVE TYPE	REMARKS
VE-7 16-18	7-24-01	1015			VE-7 16'-18'	1 x 2 oz	G	X					—	
AI 16	7-24-01	1302			AI 16 9'-11'	1 x 2 oz	G		X				—	
AI-9 7'-9'	7-24-01	1410			AI-9 7'-9'	1 x 2 oz	G		X				—	
AI-13	7-24-01	1525			AI-13 5'-7'	1 x 2 oz	G		X				—	
AI-12	7-24-01	1600			AI-12 5'-7'	1 x 2 oz	G		X				—	
VE-4	7-24-01	1700			VE-4 20-22	1 x 2 oz	G	X					—	
VE-6	7-25-01	1230	X		VE-6 19-21'	1 x 2 oz	G	X					ice	
VE-5	7-25-01	1530	X		VE-5 17-19'	1 x 2 oz	G	X					ice	
VE-2	7-25-01	1700	X		VE-2 22-24'	1 x 2 oz	G	X					ice	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
[signature]	7/26/01 1530	
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)
		Ann Sandusky 7/27/01 9:10

Sample Sent To: Severn Trent
Attn:
Address: 4101 Shuffel Dr NW North Canton OH 44720
Phone:
Freight Co.:
Air Bill No:

STL North Canton

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SHARP AND ASSOCIATES, INC. Environmental Engineers and Scientists

CHAIN OF CUSTODY RECORD

Send results to:

SHARP & ASSOCIATES, INC.
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1128-03

SAMPLER (Signature): [signature]

PROJECT NAME/LOCATION: Granville Sokents

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P-G)	PARAMETER: 624 MS VOC 8260	PARAMETER: Halogenated Hydrocarbons 8021	PARAMETER: VOC	PARAMETER	PARAMETER	PRESERVATIVE TYPE	REMARKS
AS-1	7-26-01	1004		X	AS-1 12-20	1 x 2oz	G	X					—	
~~AS-4~~	~~7-26-01~~	~~1715~~			~~AS-4 20-22~~	~~1 x 2oz~~	~~G~~							
AS-4	7-26-01	1734		X	AS-4 25-27	1 x 2oz	G		X				—	
Trip Blank	7-26-01					2 x 40mL	G			X			—	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
[signature]	7-26-01 1930	
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature)
		Ann Sanders 7/27/01 910

Sample Sent To: Seven Trent N. Canton
Attn:
Address: 4101 Shuttle Dr. NW North Canton, OH 44720
Phone:
Freight Co.:
Air Bill No:

STL North Canton

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Quality Assurance Data Review

Project Name: Granville Solvents
Sampling Date: 7-24-01; 7-25-01; 7-26-01
Date Review Date: 9-19-01
Laboratory: STL - N.C.
Reviewer's Signature:

	Matrix	Initials	Comments
Compared Chain-of-Custody to Data Received	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Sample Hold Times Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Trip Blank Reviewed	All		
Sample Reporting Limits Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Method Blank Reviewed	Soil / Sediment		#1 Data Qualified.
	Groundwater / Surface Water	—	
	Air	—	
Surrogate Compound Recovery Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Matrix Spike/Spike Duplicate Recovery Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Duplicate Sample Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Laboratory Control Sample Recovery Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Tentatively Identified Compound Reviewed	Soil / Sediment		NA
	Groundwater / Surface Water	—	
	Air	—	

Additional Comments:

#1 - 8260 Methodblank detected Methylene chloride (1.8 ug/Kg) on 8-1-01

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VAPOR EXTRACTION WELLS
7/27/01 – 7/30/01

SEVERN TRENT SERVICES

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Tel: 330 497 9396
Fax 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 1128-03

GRANVILLE SOLVENTS

Lot #: A1G310114

Steven Roach

Sharp & Associates
982 Crupper Ave.
Columbus, OH 43229

SEVERN TRENT LABORATORIES, INC.

Alesia M. Danford
Project Manager

August 21, 2001

Contains Qualified Data SAL 4-20-01

CASE NARRATIVE
A1G310114

The following report contains the analytical results for nine solid samples submitted to STL North Canton by Sharp & Associates, Inc. from the Granville Solvents site, project number 1128-03. The samples were received July 31, 2001, according to documented sample acceptance procedures.

STL North Canton utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included in the rear of the report. Preliminary results were provided to Steven Roach on August 17 and 20, 2001.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.0° C.

GC/MS VOLATILES

Sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GC VOLATILES

An LCS/LCSD was provided for batch 1219159since there was insufficient sample volume to perform an MS/MSD.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, PAH, and Herbicide methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

ANALYTICAL METHODS SUMMARY

A1G310114

PARAMETER	ANALYTICAL METHOD
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B
Volatiles by GC	SW846 8021B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1G310114

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EG67N	001	A5-3 21-23	07/27/01	09:50
EG67R	002	VE-3 23-25	07/27/01	13:50
EG67T	003	AI-8 5'-7'	07/30/01	09:45
EG67W	004	AI-7 7'-9'	07/30/01	10:45
EG67X	005	AI-6 3'-5'	07/30/01	12:00
EG670	006	AI-5 9'-11'	07/30/01	14:15
EG672	007	AI-4 5'-7'	07/30/01	15:30
EG673	008	AI-14 5'-7'	07/30/01	16:50
EG675	009	A5-6 23-25	07/30/01	18:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: A5-3 21-23

GC Volatiles

Lot-Sample #...: A1G310114-001 **Work Order #...:** EG67N1AC **Matrix.....:** SO
Date Sampled...: 07/27/01 09:50 **Date Received..:** 07/31/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 5.3 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	260	ug/kg
Bromobenzene	ND	260	ug/kg
Bromochloromethane	ND	260	ug/kg
Bromodichloromethane	ND	260	ug/kg
Bromoform	ND	260	ug/kg
Bromomethane	ND	260	ug/kg
n-Butylbenzene	ND	260	ug/kg
sec-Butylbenzene	ND	260	ug/kg
tert-Butylbenzene	ND	260	ug/kg
Carbon tetrachloride	ND	260	ug/kg
Chlorobenzene	ND	260	ug/kg
Chlorodibromomethane	ND	260	ug/kg
oroethane	ND	260	ug/kg
Chloroform	ND	260	ug/kg
Chloromethane	ND	260	ug/kg
2-Chlorotoluene	ND	260	ug/kg
4-Chlorotoluene	ND	260	ug/kg
Dibromomethane	ND	260	ug/kg
1,2-Dichlorobenzene	ND	260	ug/kg
1,3-Dichlorobenzene	ND	260	ug/kg
1,4-Dichlorobenzene	ND	260	ug/kg
Dichlorodifluoromethane	ND	260	ug/kg
1,1-Dichloroethane	ND	260	ug/kg
1,2-Dichloroethane	ND	260	ug/kg
1,1-Dichloroethene	ND	260	ug/kg
cis-1,2-Dichloroethene	ND	260	ug/kg
trans-1,2-Dichloroethene	ND	260	ug/kg
1,2-Dichloropropane	ND	260	ug/kg
1,3-Dichloropropane	ND	260	ug/kg
2,2-Dichloropropane	ND	260	ug/kg
1,1-Dichloropropene	ND	260	ug/kg
cis-1,3-Dichloropropene	ND	260	ug/kg
trans-1,3-Dichloropropene	ND	260	ug/kg
Ethylbenzene	ND	260	ug/kg
Trichlorofluoromethane	ND	260	ug/kg
Hexachlorobutadiene	ND	260	ug/kg
Isopropylbenzene	ND	260	ug/kg
Isopropyltoluene	ND	260	ug/kg

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: A5-3 21-23

GC Volatiles

Lot-Sample #...: A1G310114-001 **Work Order #...:** EG67N1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1300	ug/kg
Naphthalene	ND	260	ug/kg
n-Propylbenzene	ND	260	ug/kg
Styrene	ND	260	ug/kg
1,1,1,2-Tetrachloroethane	ND	260	ug/kg
1,1,2,2-Tetrachloroethane	ND	260	ug/kg
Tetrachloroethene	**6400**	**260**	**ug/kg**
Toluene	ND	260	ug/kg
1,2,3-Trichlorobenzene	ND	260	ug/kg
1,2,4-Trichloro-benzene	ND	260	ug/kg
1,1,1-Trichloroethane	ND	260	ug/kg
1,1,2-Trichloroethane	ND	260	ug/kg
Trichloroethene	**1000**	**260**	**ug/kg**
1,2,3-Trichloropropane	ND	260	ug/kg
1,2,4-Trimethylbenzene	ND	260	ug/kg
1,3,5-Trimethylbenzene	ND	260	ug/kg
Vinyl chloride	ND	260	ug/kg
Xylenes (total)	ND	260	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	260	ug/kg
1,2-Dibromoethane (EDB)	ND	260	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	106	(50 - 150)
Trifluorotoluene	102	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: VE-3 23-25

GC Volatiles

Lot-Sample #...: A1G310114-002 Work Order #...: EG67R1AC Matrix.....: SO
Date Sampled...: 07/27/01 13:50 Date Received..: 07/31/01
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 4.7 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	260	ug/kg
Bromobenzene	ND	260	ug/kg
Bromochloromethane	ND	260	ug/kg
Bromodichloromethane	ND	260	ug/kg
Bromoform	ND	260	ug/kg
Bromomethane	ND	260	ug/kg
n-Butylbenzene	ND	260	ug/kg
sec-Butylbenzene	ND	260	ug/kg
tert-Butylbenzene	ND	260	ug/kg
Carbon tetrachloride	ND	260	ug/kg
Chlorobenzene	ND	260	ug/kg
Chlorodibromomethane	ND	260	ug/kg
Chloroethane	ND	260	ug/kg
Chloroform	ND	260	ug/kg
Chloromethane	ND	260	ug/kg
2-Chlorotoluene	ND	260	ug/kg
4-Chlorotoluene	ND	260	ug/kg
Dibromomethane	ND	260	ug/kg
1,2-Dichlorobenzene	ND	260	ug/kg
1,3-Dichlorobenzene	ND	260	ug/kg
1,4-Dichlorobenzene	ND	260	ug/kg
Dichlorodifluoromethane	ND	260	ug/kg
1,1-Dichloroethane	ND	260	ug/kg
1,2-Dichloroethane	ND	260	ug/kg
1,1-Dichloroethene	ND	260	ug/kg
cis-1,2-Dichloroethene	ND	260	ug/kg
trans-1,2-Dichloroethene	ND	260	ug/kg
1,2-Dichloropropane	ND	260	ug/kg
1,3-Dichloropropane	ND	260	ug/kg
2,2-Dichloropropane	ND	260	ug/kg
1,1-Dichloropropene	ND	260	ug/kg
cis-1,3-Dichloropropene	ND	260	ug/kg
trans-1,3-Dichloropropene	ND	260	ug/kg
Ethylbenzene	ND	260	ug/kg
Trichlorofluoromethane	ND	260	ug/kg
Hexachlorobutadiene	ND	260	ug/kg
Isopropylbenzene	ND	260	ug/kg
Isopropyltoluene	ND	260	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: VE-3 23-25

GC Volatiles

Lot-Sample #...: A1G310114-002 **Work Order #...:** EG67R1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1300	ug/kg
Naphthalene	ND	260	ug/kg
n-Propylbenzene	ND	260	ug/kg
Styrene	ND	260	ug/kg
1,1,1,2-Tetrachloroethane	ND	260	ug/kg
1,1,2,2-Tetrachloroethane	ND	260	ug/kg
Tetrachloroethene	**4300**	**260**	**ug/kg**
Toluene	ND	260	ug/kg
1,2,3-Trichlorobenzene	ND	260	ug/kg
1,2,4-Trichloro-benzene	ND	260	ug/kg
1,1,1-Trichloroethane	**360**	**260**	**ug/kg**
1,1,2-Trichloroethane	ND	260	ug/kg
Trichloroethene	**1200**	**260**	**ug/kg**
1,2,3-Trichloropropane	ND	260	ug/kg
1,2,4-Trimethylbenzene	ND	260	ug/kg
3,5-Trimethylbenzene	ND	260	ug/kg
nyl chloride	ND	260	ug/kg
Xylenes (total)	ND	260	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	260	ug/kg
1,2-Dibromoethane (EDB)	ND	260	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	100	(50 - 150)
Trifluorotoluene	103	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-8 5'-7'

GC Volatiles

Lot-Sample #...: A1G310114-003 Work Order #...: EG67T1AC Matrix.....: SO
Date Sampled...: 07/30/01 09:45 Date Received..: 07/31/01
Prep Date.....: 08/10/01 Analysis Date..: 08/10/01
Prep Batch #...: 1219138
Dilution Factor: 10
% Moisture.....: 13 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	12	ug/kg
Bromobenzene	ND	12	ug/kg
Bromochloromethane	ND	12	ug/kg
Bromodichloromethane	ND	12	ug/kg
Bromoform	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
n-Butylbenzene	ND	12	ug/kg
sec-Butylbenzene	ND	12	ug/kg
tert-Butylbenzene	ND	12	ug/kg
Carbon tetrachloride	ND	12	ug/kg
Chlorobenzene	ND	12	ug/kg
Chlorodibromomethane	ND	12	ug/kg
loroethane	ND	12	ug/kg
Chloroform	ND	12	ug/kg
Chloromethane	ND	12	ug/kg
2-Chlorotoluene	ND	12	ug/kg
4-Chlorotoluene	ND	12	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	12	ug/kg
1,2-Dibromoethane (EDB)	ND	12	ug/kg
Dibromomethane	ND	12	ug/kg
1,2-Dichlorobenzene	ND	12	ug/kg
1,3-Dichlorobenzene	ND	12	ug/kg
1,4-Dichlorobenzene	ND	12	ug/kg
Dichlorodifluoromethane	ND	12	ug/kg
1,1-Dichloroethane	ND	12	ug/kg
1,2-Dichloroethane	ND	12	ug/kg
1,1-Dichloroethene	ND	12	ug/kg
cis-1,2-Dichloroethene	ND	12	ug/kg
trans-1,2-Dichloroethene	ND	12	ug/kg
1,2-Dichloropropane	ND	12	ug/kg
1,3-Dichloropropane	ND	12	ug/kg
2,2-Dichloropropane	ND	12	ug/kg
1,1-Dichloropropene	ND	12	ug/kg
cis-1,3-Dichloropropene	ND	12	ug/kg
trans-1,3-Dichloropropene	ND	12	ug/kg
Ethylbenzene	ND	12	ug/kg
xachlorobutadiene	ND	12	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-8 5'-7'

GC Volatiles

Lot-Sample #...: A1G310114-003 **Work Order #...:** EG67T1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	12	ug/kg
p-Isopropyltoluene	ND	12	ug/kg
Methylene chloride	ND	58	ug/kg
Naphthalene	ND	23	ug/kg
n-Propylbenzene	ND	12	ug/kg
Styrene	ND	12	ug/kg
1,1,1,2-Tetrachloroethane	ND	12	ug/kg
1,1,2,2-Tetrachloroethane	ND	12	ug/kg
Tetrachloroethene	**120**	**12**	**ug/kg**
Toluene	ND	12	ug/kg
1,2,3-Trichlorobenzene	ND	12	ug/kg
1,2,4-Trichloro-benzene	ND	12	ug/kg
1,1,1-Trichloroethane	**16**	**12**	**ug/kg**
1,1,2-Trichloroethane	ND	12	ug/kg
Trichloroethene	**36**	**12**	**ug/kg**
Trichlorofluoromethane	ND	12	ug/kg
2,3-Trichloropropane	ND	12	ug/kg
1,2,4-Trimethylbenzene	ND	12	ug/kg
1,3,5-Trimethylbenzene	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Xylenes (total)	ND	12	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	100	(50 - 150)
Trifluorotoluene	89	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Elevated reporting limits due to matrix interference.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-7 7'-9'

GC Volatiles

Lot-Sample #...: A1G310114-004 **Work Order #...:** EG67W1AC **Matrix.....:** SO
Date Sampled...: 07/30/01 10:45 **Date Received..:** 07/31/01
Prep Date.....: 08/11/01 **Analysis Date..:** 08/11/01
Prep Batch #...: 1219138
Dilution Factor: 10
% Moisture.....: 9.3 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	11	ug/kg
Bromobenzene	ND	11	ug/kg
Bromochloromethane	ND	11	ug/kg
Bromodichloromethane	ND	11	ug/kg
Bromoform	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
n-Butylbenzene	ND	11	ug/kg
sec-Butylbenzene	ND	11	ug/kg
tert-Butylbenzene	ND	11	ug/kg
Carbon tetrachloride	ND	11	ug/kg
Chlorobenzene	ND	11	ug/kg
Chlorodibromomethane	ND	11	ug/kg
loroethane	ND	11	ug/kg
Chloroform	ND	11	ug/kg
Chloromethane	ND	11	ug/kg
2-Chlorotoluene	ND	11	ug/kg
4-Chlorotoluene	ND	11	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	11	ug/kg
1,2-Dibromoethane (EDB)	ND	11	ug/kg
Dibromomethane	ND	11	ug/kg
1,2-Dichlorobenzene	ND	11	ug/kg
1,3-Dichlorobenzene	ND	11	ug/kg
1,4-Dichlorobenzene	ND	11	ug/kg
Dichlorodifluoromethane	ND	11	ug/kg
1,1-Dichloroethane	ND	11	ug/kg
1,2-Dichloroethane	ND	11	ug/kg
1,1-Dichloroethene	ND	11	ug/kg
cis-1,2-Dichloroethene	ND	11	ug/kg
trans-1,2-Dichloroethene	ND	11	ug/kg
1,2-Dichloropropane	ND	11	ug/kg
1,3-Dichloropropane	ND	11	ug/kg
2,2-Dichloropropane	ND	11	ug/kg
1,1-Dichloropropene	ND	11	ug/kg
cis-1,3-Dichloropropene	ND	11	ug/kg
trans-1,3-Dichloropropene	ND	11	ug/kg
Ethylbenzene	ND	11	ug/kg
xachlorobutadiene	ND	11	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-7 7'-9'

GC Volatiles

Lot-Sample #...: A1G310114-004 **Work Order #...:** EG67W1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	11	ug/kg
p-Isopropyltoluene	ND	11	ug/kg
Methylene chloride	ND	55	ug/kg
Naphthalene	ND	22	ug/kg
n-Propylbenzene	ND	11	ug/kg
Styrene	ND	11	ug/kg
1,1,1,2-Tetrachloroethane	ND	11	ug/kg
1,1,2,2-Tetrachloroethane	ND	11	ug/kg
Tetrachloroethene	**38**	**11**	**ug/kg**
Toluene	ND	11	ug/kg
1,2,3-Trichlorobenzene	ND	11	ug/kg
1,2,4-Trichloro-benzene	ND	11	ug/kg
1,1,1-Trichloroethane	**11**	**11**	**ug/kg**
1,1,2-Trichloroethane	ND	11	ug/kg
Trichloroethene	**26**	**11**	**ug/kg**
Trichlorofluoromethane	ND	11	ug/kg
,3-Trichloropropane	ND	11	ug/kg
1,2,4-Trimethylbenzene	**33 *I**	**11**	**ug/kg**
1,3,5-Trimethylbenzene	**15 *I**	**11**	**ug/kg**
Vinyl chloride	ND	11	ug/kg
Xylenes (total)	ND	11	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	81	(50 - 150)
Trifluorotoluene	90	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

*I Quantitation suspect due to hydrocarbon interference.

Elevated reporting limits due to matrix interference.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-6 3'-5'

GC/MS Volatiles

Lot-Sample #...: A1G310114-005 Work Order #...: EG67X1AC Matrix.....: SO
Date Sampled...: 07/30/01 12:00 Date Received..: 07/31/01
Prep Date.....: 08/09/01 Analysis Date..: 08/10/01
Prep Batch #...: 1221525
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	3000	ug/kg
Benzene	**160 J**	**740**	**ug/kg**
Bromodichloromethane	ND	740	ug/kg
Bromoform	ND	740	ug/kg
Bromomethane	ND	1500	ug/kg
2-Butanone	ND	3000	ug/kg
Carbon disulfide	ND	740	ug/kg
Carbon tetrachloride	ND	740	ug/kg
Chlorobenzene	ND	740	ug/kg
Dibromochloromethane	ND	740	ug/kg
Chloroethane	ND	1500	ug/kg
Chloroform	ND	740	ug/kg
Chloromethane	ND	1500	ug/kg
1,1-Dichloroethane	ND	740	ug/kg
1,2-Dichloroethane	ND	740	ug/kg
1,1-Dichloroethene	**71 J**	**740**	**ug/kg**
1,2-Dichloroethene (total)	**560 J**	**740**	**ug/kg**
1,2-Dichloropropane	ND	740	ug/kg
cis-1,3-Dichloropropene	ND	740	ug/kg
trans-1,3-Dichloropropene	ND	740	ug/kg
Ethylbenzene	**130 J**	**740**	**ug/kg**
2-Hexanone	ND	3000	ug/kg
Methylene chloride	ND	740	ug/kg
4-Methyl-2-pentanone	ND	3000	ug/kg
Styrene	ND	740	ug/kg
1,1,2,2-Tetrachloroethane	ND	740	ug/kg
Tetrachloroethene	**4800**	**740**	**ug/kg**
Toluene	**3000**	**740**	**ug/kg**
1,1,1-Trichloroethane	**8400**	**740**	**ug/kg**
1,1,2-Trichloroethane	**92 J**	**740**	**ug/kg**
Trichloroethene	**16000 B**	**740**	**ug/kg**
Vinyl chloride	ND	1500	ug/kg
Xylenes (total)	**1400**	**740**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
bromofluoromethane	80	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	81	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-6 3'-5'

GC/MS Volatiles

Lot-Sample #...: A1G310114-005 **Work Order #...:** EG67X1AC **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-5 9'-11'

GC Volatiles

Lot-Sample #...: A1G310114-006 **Work Order #...:** EG6701AC **Matrix.....:** SO
Date Sampled...: 07/30/01 14:15 **Date Received..:** 07/31/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 5
% Moisture.....: 11 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	280	ug/kg
Bromobenzene	ND	280	ug/kg
Bromochloromethane	ND	280	ug/kg
Bromodichloromethane	ND	280	ug/kg
Bromoform	ND	280	ug/kg
Bromomethane	ND	280	ug/kg
n-Butylbenzene	ND	280	ug/kg
sec-Butylbenzene	ND	280	ug/kg
tert-Butylbenzene	ND	280	ug/kg
Carbon tetrachloride	ND	280	ug/kg
Chlorobenzene	ND	280	ug/kg
Chlorodibromomethane	ND	280	ug/kg
Chloroethane	ND	280	ug/kg
Chloroform	ND	280	ug/kg
Chloromethane	ND	280	ug/kg
2-Chlorotoluene	ND	280	ug/kg
4-Chlorotoluene	ND	280	ug/kg
Dibromomethane	ND	280	ug/kg
1,2-Dichlorobenzene	ND	280	ug/kg
1,3-Dichlorobenzene	ND	280	ug/kg
1,4-Dichlorobenzene	ND	280	ug/kg
Dichlorodifluoromethane	ND	280	ug/kg
1,1-Dichloroethane	ND	280	ug/kg
1,2-Dichloroethane	ND	280	ug/kg
1,1-Dichloroethene	ND	280	ug/kg
cis-1,2-Dichloroethene	ND	280	ug/kg
trans-1,2-Dichloroethene	ND	280	ug/kg
1,2-Dichloropropane	ND	280	ug/kg
1,3-Dichloropropane	ND	280	ug/kg
2,2-Dichloropropane	ND	280	ug/kg
1,1-Dichloropropene	ND	280	ug/kg
cis-1,3-Dichloropropene	ND	280	ug/kg
trans-1,3-Dichloropropene	ND	280	ug/kg
Ethylbenzene	ND	280	ug/kg
Trichlorofluoromethane	ND	280	ug/kg
Hexachlorobutadiene	ND	280	ug/kg
Isopropylbenzene	ND	280	ug/kg
Isopropyltoluene	ND	280	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-5 9'-11'

GC Volatiles

Lot-Sample #...: A1G310114-006 **Work Order #...:** EG6701AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1400	ug/kg
Naphthalene	ND	280	ug/kg
n-Propylbenzene	ND	280	ug/kg
Styrene	ND	280	ug/kg
1,1,1,2-Tetrachloroethane	ND	280	ug/kg
1,1,2,2-Tetrachloroethane	ND	280	ug/kg
Tetrachloroethene	**1800**	**280**	**ug/kg**
Toluene	ND	280	ug/kg
1,2,3-Trichlorobenzene	ND	280	ug/kg
1,2,4-Trichloro-benzene	ND	280	ug/kg
1,1,1-Trichloroethane	ND	280	ug/kg
1,1,2-Trichloroethane	ND	280	ug/kg
Trichloroethene	**3400**	**280**	**ug/kg**
1,2,3-Trichloropropane	ND	280	ug/kg
1,2,4-Trimethylbenzene	ND	280	ug/kg
1,3,5-Trimethylbenzene	ND	280	ug/kg
Vinyl chloride	ND	280	ug/kg
Xylenes (total)	ND	280	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	280	ug/kg
1,2-Dibromoethane (EDB)	ND	280	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	87	(50 - 150)
Trifluorotoluene	99	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-4 5'-7'

GC Volatiles

Lot-Sample #...: A1G310114-007 Work Order #...: EG6721AC Matrix.....: SO
Date Sampled...: 07/30/01 15:30 Date Received..: 07/31/01
Prep Date.....: 08/11/01 Analysis Date..: 08/11/01
Prep Batch #...: 1219138
Dilution Factor: 1
% Moisture.....: 15 Method.....: SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	1.2	ug/kg
Bromobenzene	ND	1.2	ug/kg
Bromochloromethane	ND	1.2	ug/kg
Bromodichloromethane	ND	1.2	ug/kg
Bromoform	ND	1.2	ug/kg
Bromomethane	ND	1.2	ug/kg
n-Butylbenzene	ND	1.2	ug/kg
sec-Butylbenzene	ND	1.2	ug/kg
tert-Butylbenzene	ND	1.2	ug/kg
Carbon tetrachloride	ND	1.2	ug/kg
Chlorobenzene	ND	1.2	ug/kg
Chlorodibromomethane	ND	1.2	ug/kg
loroethane	ND	1.2	ug/kg
Chloroform	ND	1.2	ug/kg
Chloromethane	ND	1.2	ug/kg
2-Chlorotoluene	ND	1.2	ug/kg
4-Chlorotoluene	ND	1.2	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.2	ug/kg
1,2-Dibromoethane (EDB)	ND	1.2	ug/kg
Dibromomethane	ND	1.2	ug/kg
1,2-Dichlorobenzene	ND	1.2	ug/kg
1,3-Dichlorobenzene	ND	1.2	ug/kg
1,4-Dichlorobenzene	ND	1.2	ug/kg
Dichlorodifluoromethane	ND	1.2	ug/kg
1,1-Dichloroethane	ND	1.2	ug/kg
1,2-Dichloroethane	ND	1.2	ug/kg
1,1-Dichloroethene	ND	1.2	ug/kg
cis-1,2-Dichloroethene	ND	1.2	ug/kg
trans-1,2-Dichloroethene	ND	1.2	ug/kg
1,2-Dichloropropane	ND	1.2	ug/kg
1,3-Dichloropropane	ND	1.2	ug/kg
2,2-Dichloropropane	ND	1.2	ug/kg
1,1-Dichloropropene	ND	1.2	ug/kg
cis-1,3-Dichloropropene	ND	1.2	ug/kg
trans-1,3-Dichloropropene	ND	1.2	ug/kg
Ethylbenzene	ND	1.2	ug/kg
xachlorobutadiene	ND	1.2	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-4 5'-7'

GC Volatiles

Lot-Sample #...: A1G310114-007 **Work Order #...:** EG6721AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.2	ug/kg
p-Isopropyltoluene	ND	1.2	ug/kg
Methylene chloride	ND	5.9	ug/kg
Naphthalene	ND	2.4	ug/kg
n-Propylbenzene	ND	1.2	ug/kg
Styrene	ND	1.2	ug/kg
1,1,1,2-Tetrachloroethane	ND	1.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	1.2	ug/kg
Tetrachloroethene	**22**	**1.2**	**ug/kg**
Toluene	ND	1.2	ug/kg
1,2,3-Trichlorobenzene	ND	1.2	ug/kg
1,2,4-Trichloro-benzene	ND	1.2	ug/kg
1,1,1-Trichloroethane	**1.3**	**1.2**	**ug/kg**
1,1,2-Trichloroethane	ND	1.2	ug/kg
Trichloroethene	**37**	**1.2**	**ug/kg**
Trichlorofluoromethane	ND	1.2	ug/kg
,3-Trichloropropane	ND	1.2	ug/kg
1,2,4-Trimethylbenzene	ND	1.2	ug/kg
1,3,5-Trimethylbenzene	ND	1.2	ug/kg
Vinyl chloride	ND	1.2	ug/kg
Xylenes (total)	ND	1.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	101	(50 - 150)
Trifluorotoluene	87	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-14 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1G310114-008 **Work Order #...:** EG6731AC **Matrix.....:** SO
Date Sampled...: 07/30/01 16:50 **Date Received..:** 07/31/01
Prep Date.....: 08/09/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1221525
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	2900	ug/kg
Benzene	ND	720	ug/kg
Bromodichloromethane	ND	720	ug/kg
Bromoform	ND	720	ug/kg
Bromomethane	ND	1400	ug/kg
2-Butanone	ND	2900	ug/kg
Carbon disulfide	ND	720	ug/kg
Carbon tetrachloride	ND	720	ug/kg
Chlorobenzene	ND	720	ug/kg
Dibromochloromethane	ND	720	ug/kg
Chloroethane	ND	1400	ug/kg
Chloroform	ND	720	ug/kg
Chloromethane	ND	1400	ug/kg
1,1-Dichloroethane	ND	720	ug/kg
1,2-Dichloroethane	**39** ~~J,B~~ U	**720**	**ug/kg**
1,1-Dichloroethene	ND	720	ug/kg
1,2-Dichloroethene (total)	ND	720	ug/kg
1,2-Dichloropropane	ND	720	ug/kg
cis-1,3-Dichloropropene	ND	720	ug/kg
trans-1,3-Dichloropropene	ND	720	ug/kg
Ethylbenzene	ND	720	ug/kg
2-Hexanone	ND	2900	ug/kg
Methylene chloride	ND	720	ug/kg
4-Methyl-2-pentanone	ND	2900	ug/kg
Styrene	ND	720	ug/kg
1,1,2,2-Tetrachloroethane	ND	720	ug/kg
Tetrachloroethene	**3000**	**720**	**ug/kg**
Toluene	ND	720	ug/kg
1,1,1-Trichloroethane	ND	720	ug/kg
1,1,2-Trichloroethane	ND	720	ug/kg
Trichloroethene	**130** ~~J,B~~ U	**720**	**ug/kg**
Vinyl chloride	ND	1400	ug/kg
Xylenes (total)	ND	720	ug/kg

SRL 9-20-01

SRL 9-20-01

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	82	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-14 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1G310114-008 **Work Order #...:** EG6731AC **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

u = result considered non-detect at concentration reported due to method blank contamination.

SAL 9-20-91

SHARP & ASSOCIATES, INC.

Client Sample ID: A5-6 23-25

GC/MS Volatiles

Lot-Sample #...: A1G310114-009 Work Order #...: EG6751AC Matrix.....: SO
Date Sampled...: 07/30/01 18:25 Date Received..: 07/31/01
Prep Date.....: 08/09/01 Analysis Date..: 08/10/01
Prep Batch #...: 1221525
Dilution Factor: 1
% Moisture.....: 8.3 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	2700	ug/kg
Benzene	ND	680	ug/kg
Bromodichloromethane	ND	680	ug/kg
Bromoform	ND	680	ug/kg
Bromomethane	ND	1400	ug/kg
2-Butanone	ND	2700	ug/kg
Carbon disulfide	ND	680	ug/kg
Carbon tetrachloride	ND	680	ug/kg
Chlorobenzene	ND	680	ug/kg
Dibromochloromethane	ND	680	ug/kg
Chloroethane	ND	1400	ug/kg
Chloroform	ND	680	ug/kg
Chloromethane	ND	1400	ug/kg
1,1-Dichloroethane	ND	680	ug/kg
1,2-Dichloroethane	**35 J,B**	**680**	**ug/kg**
1,1-Dichloroethene	ND	680	ug/kg
1,2-Dichloroethene (total)	ND	680	ug/kg
1,2-Dichloropropane	ND	680	ug/kg
cis-1,3-Dichloropropene	ND	680	ug/kg
trans-1,3-Dichloropropene	ND	680	ug/kg
Ethylbenzene	ND	680	ug/kg
2-Hexanone	ND	2700	ug/kg
Methylene chloride	ND	680	ug/kg
4-Methyl-2-pentanone	ND	2700	ug/kg
Styrene	ND	680	ug/kg
1,1,2,2-Tetrachloroethane	ND	680	ug/kg
Tetrachloroethene	**14000**	**680**	**ug/kg**
Toluene	**41 J**	**680**	**ug/kg**
1,1,1-Trichloroethane	**240 J**	**680**	**ug/kg**
1,1,2-Trichloroethane	ND	680	ug/kg
Trichloroethene	**590 J,B**	**680**	**ug/kg**
Vinyl chloride	ND	1400	ug/kg
Xylenes (total)	ND	680	ug/kg

SAL 9-20-01

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	81	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: A5-6 23-25

GC/MS Volatiles

Lot-Sample #...: A1G310114-009 Work Order #...: EG6751AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

U = result considered non-detect at concentration reported due to method blank contamination

SAL 7-20-01

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G310114 Work Order #...: EHQ4Q1AA Matrix.....: SOLID
MB Lot-Sample #: A1H090000-525

Prep Date.....: 08/09/01
Analysis Date..: 08/10/01 Prep Batch #...: 1221525
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	2500	ug/kg	SW846 8260B
Benzene	ND	620	ug/kg	SW846 8260B
Bromodichloromethane	ND	620	ug/kg	SW846 8260B
Bromoform	ND	620	ug/kg	SW846 8260B
Bromomethane	ND	1200	ug/kg	SW846 8260B
2-Butanone	ND	2500	ug/kg	SW846 8260B
Carbon disulfide	ND	620	ug/kg	SW846 8260B
Carbon tetrachloride	ND	620	ug/kg	SW846 8260B
Chlorobenzene	ND	620	ug/kg	SW846 8260B
Dibromochloromethane	ND	620	ug/kg	SW846 8260B
Chloroethane	ND	1200	ug/kg	SW846 8260B
Chloroform	ND	620	ug/kg	SW846 8260B
Chloromethane	ND	1200	ug/kg	SW846 8260B
-Dichloroethane	ND	620	ug/kg	SW846 8260B
1,2-Dichloroethane	**35 J**	**620**	**ug/kg**	**SW846 8260B**
1,1-Dichloroethene	ND	620	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	620	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	620	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	620	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	620	ug/kg	SW846 8260B
Ethylbenzene	ND	620	ug/kg	SW846 8260B
2-Hexanone	ND	2500	ug/kg	SW846 8260B
Methylene chloride	ND	620	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	2500	ug/kg	SW846 8260B
Styrene	ND	620	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	620	ug/kg	SW846 8260B
Tetrachloroethene	ND	620	ug/kg	SW846 8260B
Toluene	ND	620	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	620	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	620	ug/kg	SW846 8260B
Trichloroethene	**76 J**	**620**	**ug/kg**	**SW846 8260B**
Vinyl chloride	ND	1200	ug/kg	SW846 8260B
Xylenes (total)	ND	620	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
-Dichloroethane-d4	92	(61 - 130)
uene-d8	83	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1G310114 **Work Order #...:** EHQ4Q1AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1G310114 **Work Order #...:** EHJXC1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1H070000-159

Prep Date.....: 08/06/01
Analysis Date..: 08/06/01 **Prep Batch #...:** 1219159
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	50	ug/kg	SW846 8021B
Bromobenzene	ND	50	ug/kg	SW846 8021B
Bromochloromethane	ND	50	ug/kg	SW846 8021B
Bromodichloromethane	ND	50	ug/kg	SW846 8021B
Bromoform	ND	50	ug/kg	SW846 8021B
Bromomethane	ND	50	ug/kg	SW846 8021B
n-Butylbenzene	ND	50	ug/kg	SW846 8021B
sec-Butylbenzene	ND	50	ug/kg	SW846 8021B
tert-Butylbenzene	ND	50	ug/kg	SW846 8021B
Carbon tetrachloride	ND	50	ug/kg	SW846 8021B
Chlorobenzene	ND	50	ug/kg	SW846 8021B
Chlorodibromomethane	ND	50	ug/kg	SW846 8021B
Chloroethane	ND	50	ug/kg	SW846 8021B
Chloroform	ND	50	ug/kg	SW846 8021B
Chloromethane	ND	50	ug/kg	SW846 8021B
2-Chlorotoluene	ND	50	ug/kg	SW846 8021B
4-Chlorotoluene	ND	50	ug/kg	SW846 8021B
Dibromomethane	ND	50	ug/kg	SW846 8021B
1,2-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
1,3-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
1,4-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
Dichlorodifluoromethane	ND	50	ug/kg	SW846 8021B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8021B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8021B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8021B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8021B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8021B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8021B
1,3-Dichloropropane	ND	50	ug/kg	SW846 8021B
2,2-Dichloropropane	ND	50	ug/kg	SW846 8021B
1,1-Dichloropropene	ND	50	ug/kg	SW846 8021B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8021B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8021B
Ethylbenzene	ND	50	ug/kg	SW846 8021B
Trichlorofluoromethane	ND	50	ug/kg	SW846 8021B
Hexachlorobutadiene	ND	50	ug/kg	SW846 8021B
Isopropylbenzene	ND	50	ug/kg	SW846 8021B
p-Isopropyltoluene	ND	50	ug/kg	SW846 8021B
Methylene chloride	ND	250	ug/kg	SW846 8021B
Naphthalene	ND	50	ug/kg	SW846 8021B
n-Propylbenzene	ND	50	ug/kg	SW846 8021B

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METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1G310114 Work Order #...: EHJXC1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Styrene	ND	50	ug/kg	SW846 8021B
1,1,1,2-Tetrachloroethane	ND	50	ug/kg	SW846 8021B
1,1,2,2-Tetrachloroethane	ND	50	ug/kg	SW846 8021B
Tetrachloroethene	ND	50	ug/kg	SW846 8021B
Toluene	ND	50	ug/kg	SW846 8021B
1,2,3-Trichlorobenzene	ND	50	ug/kg	SW846 8021B
1,2,4-Trichloro-benzene	ND	50	ug/kg	SW846 8021B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8021B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8021B
Trichloroethene	ND	50	ug/kg	SW846 8021B
1,2,3-Trichloropropane	ND	50	ug/kg	SW846 8021B
1,2,4-Trimethylbenzene	ND	50	ug/kg	SW846 8021B
1,3,5-Trimethylbenzene	ND	50	ug/kg	SW846 8021B
Vinyl chloride	ND	50	ug/kg	SW846 8021B
Xylenes (total)	ND	50	ug/kg	SW846 8021B
1,2-Dibromo-3-loropropane (DBCP)	ND	50	ug/kg	SW846 8021B
1,2-Dibromoethane (EDB)	ND	50	ug/kg	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	82	(50 - 150)
Trifluorotoluene	107	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1G310114 Work Order #...: EHJVG1AA Matrix.....: SOLID
MB Lot-Sample #: A1H070000-138

Prep Date.....: 08/10/01
Analysis Date..: 08/10/01 Prep Batch #...: 1219138
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/kg	SW846 8021B
Bromobenzene	ND	1.0	ug/kg	SW846 8021B
Bromochloromethane	ND	1.0	ug/kg	SW846 8021B
Bromodichloromethane	ND	1.0	ug/kg	SW846 8021B
Bromoform	ND	1.0	ug/kg	SW846 8021B
Bromomethane	ND	1.0	ug/kg	SW846 8021B
n-Butylbenzene	ND	1.0	ug/kg	SW846 8021B
sec-Butylbenzene	ND	1.0	ug/kg	SW846 8021B
tert-Butylbenzene	ND	1.0	ug/kg	SW846 8021B
Carbon tetrachloride	ND	1.0	ug/kg	SW846 8021B
Chlorobenzene	ND	1.0	ug/kg	SW846 8021B
Chlorodibromomethane	ND	1.0	ug/kg	SW846 8021B
Chloroethane	ND	1.0	ug/kg	SW846 8021B
Chloroform	ND	1.0	ug/kg	SW846 8021B
Chloromethane	ND	1.0	ug/kg	SW846 8021B
2-Chlorotoluene	ND	1.0	ug/kg	SW846 8021B
4-Chlorotoluene	ND	1.0	ug/kg	SW846 8021B
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	ug/kg	SW846 8021B
1,2-Dibromoethane (EDB)	ND	1.0	ug/kg	SW846 8021B
Dibromomethane	ND	1.0	ug/kg	SW846 8021B
1,2-Dichlorobenzene	ND	1.0	ug/kg	SW846 8021B
1,3-Dichlorobenzene	ND	1.0	ug/kg	SW846 8021B
1,4-Dichlorobenzene	ND	1.0	ug/kg	SW846 8021B
Dichlorodifluoromethane	ND	1.0	ug/kg	SW846 8021B
1,1-Dichloroethane	ND	1.0	ug/kg	SW846 8021B
1,2-Dichloroethane	ND	1.0	ug/kg	SW846 8021B
1,1-Dichloroethene	ND	1.0	ug/kg	SW846 8021B
cis-1,2-Dichloroethene	ND	1.0	ug/kg	SW846 8021B
trans-1,2-Dichloroethene	ND	1.0	ug/kg	SW846 8021B
1,2-Dichloropropane	ND	1.0	ug/kg	SW846 8021B
1,3-Dichloropropane	ND	1.0	ug/kg	SW846 8021B
2,2-Dichloropropane	ND	1.0	ug/kg	SW846 8021B
1,1-Dichloropropene	ND	1.0	ug/kg	SW846 8021B
cis-1,3-Dichloropropene	ND	1.0	ug/kg	SW846 8021B
trans-1,3-Dichloropropene	ND	1.0	ug/kg	SW846 8021B
Ethylbenzene	ND	1.0	ug/kg	SW846 8021B
Hexachlorobutadiene	ND	1.0	ug/kg	SW846 8021B
Isopropylbenzene	ND	1.0	ug/kg	SW846 8021B
p-Isopropyltoluene	ND	1.0	ug/kg	SW846 8021B
Methylene chloride	ND	5.0	ug/kg	SW846 8021B

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METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1G310114 **Work Order #...:** EHJVG1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Naphthalene	ND	2.0	ug/kg	SW846 8021B
n-Propylbenzene	ND	1.0	ug/kg	SW846 8021B
Styrene	ND	1.0	ug/kg	SW846 8021B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/kg	SW846 8021B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg	SW846 8021B
Tetrachloroethene	ND	1.0	ug/kg	SW846 8021B
Toluene	ND	1.0	ug/kg	SW846 8021B
1,2,3-Trichlorobenzene	ND	1.0	ug/kg	SW846 8021B
1,2,4-Trichloro-benzene	ND	1.0	ug/kg	SW846 8021B
1,1,1-Trichloroethane	ND	1.0	ug/kg	SW846 8021B
1,1,2-Trichloroethane	ND	1.0	ug/kg	SW846 8021B
Trichloroethene	ND	1.0	ug/kg	SW846 8021B
Trichlorofluoromethane	ND	1.0	ug/kg	SW846 8021B
1,2,3-Trichloropropane	ND	1.0	ug/kg	SW846 8021B
1,2,4-Trimethylbenzene	ND	1.0	ug/kg	SW846 8021B
1,3,5-Trimethylbenzene	ND	1.0	ug/kg	SW846 8021B
Vinyl chloride	ND	1.0	ug/kg	SW846 8021B
Xylenes (total)	ND	1.0	ug/kg	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	79	(50 - 150)
Trifluorotoluene	92	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1G310114 Work Order #...: EHQ4Q1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H090000-525 EHQ4Q1AD-LCSD
Prep Date.....: 08/09/01 Analysis Date..: 08/09/01
Prep Batch #...: 1221525
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**89**	**(75 - 129)**			**SW846 8260B**
	90	**(75 - 129)**	**0.23**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**90**	**(75 - 127)**			**SW846 8260B**
	91	**(75 - 127)**	**0.72**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**91**	**(55 - 142)**			**SW846 8260B**
	91	**(55 - 142)**	**0.63**	**(0-27)**	**SW846 8260B**
Toluene	**90**	**(71 - 130)**			**SW846 8260B**
	91	**(71 - 130)**	**1.2**	**(0-24)**	**SW846 8260B**
Trichloroethene	**93**	**(70 - 131)**			**SW846 8260B**
	94	**(70 - 131)**	**1.9**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	88	(59 - 138)
	87	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
	95	(61 - 130)
Toluene-d8	84	(60 - 143)
	87	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)
	95	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1G310114 Work Order #...: EHJXC1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H070000-159 EHJXC1AD-LCSD
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**111**	**(68 - 124)**			**SW846 8021B**
	117	**(68 - 124)**	**5.4**	**(0-20)**	**SW846 8021B**
Chlorobenzene	**89**	**(86 - 115)**			**SW846 8021B**
	91	**(86 - 115)**	**2.5**	**(0-20)**	**SW846 8021B**
1,1-Dichloroethene	**112**	**(84 - 120)**			**SW846 8021B**
	115	**(84 - 120)**	**2.7**	**(0-20)**	**SW846 8021B**
Toluene	**113**	**(70 - 125)**			**SW846 8021B**
	119	**(70 - 125)**	**5.3**	**(0-20)**	**SW846 8021B**
Trichloroethene	**89**	**(24 - 118)**			**SW846 8021B**
	89	**(24 - 118)**	**0.060**	**(0-21)**	**SW846 8021B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Dichlorobutane	85	(50 - 150)
	83	(50 - 150)
Trifluorotoluene	114	(64 - 148)
	116	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1G310114 Work Order #...: EHJVG1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H070000-138 EHJVG1AD-LCSD
Prep Date.....: 08/10/01 Analysis Date..: 08/10/01
Prep Batch #...: 1219138
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(68 - 124)**			**SW846 8021B**
	102	**(68 - 124)**	**8.9**	**(0-20)**	**SW846 8021B**
Chlorobenzene	**89**	**(86 - 115)**			**SW846 8021B**
	102	**(86 - 115)**	**13**	**(0-20)**	**SW846 8021B**
1,1-Dichloroethene	**92**	**(84 - 120)**			**SW846 8021B**
	102	**(84 - 120)**	**9.4**	**(0-20)**	**SW846 8021B**
Toluene	**92**	**(70 - 125)**			**SW846 8021B**
	102	**(70 - 125)**	**11**	**(0-20)**	**SW846 8021B**
Trichloroethene	**92**	**(24 - 118)**			**SW846 8021B**
	103	**(24 - 118)**	**11**	**(0-21)**	**SW846 8021B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
-Dichlorobutane	117	(50 - 150)
	117	(50 - 150)
Trifluorotoluene	103	(64 - 148)
	108	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

SHARP AND ASSOCIATES, INC. Environmental Engineers and Scientists

CHAIN OF CUSTODY RECORD

Send results to:

SHARP & ASSOCIATES, INC.
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax: (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1123-03

SAMPLER (Signature): [signature]

PROJECT NAME/LOCATION: Granville Solvents Granville OH

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P-G)	PARAMETER: Halogenated Hydrocarbons 8021	PARAMETER: TCL VOC 8260	PARAMETER	PARAMETER	PARAMETER	PRESERVATIVE TYPE	REMARKS
AS-3	7-27-01	0950		X	AS-3 21-23	1x 2oz	G	X					—	
VE-3	7-27-01	1350		X	VE-3 23-25	1x 2oz	G	X					—	
AI-8	7-30-01	0945		X	AI-8 5'-7'	1x 2oz	G	X					—	
AI-7	7.30.01	1045		X	AI-7 7-9'	1x 2oz	G	X					—	
AI-6	7-30-01	1200		X	AI-6 3'-5'	1x 2oz	G		X				—	
AI-5	7-30-01	1415		X	AI-5 9-11	1x 2oz	G	X					—	
AI-4	7-30-01	1530		X	AI-4 5-7'	1x 2oz	G	X					—	
AI-14	7-30-01	1650			AI-14 5'-7'	1x 2oz	G		X				—	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
[signature]	7-30-01 1900	
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature) 7-31-01 0910

Sample Sent To: Seven Trent
Attn:
Address: 4101 Shuffel Dr NW North Canton, OH 44720
Phone: (330) 947-9396
Freight Co.: Airborne
Air Bill No: 2274418473

SHARP AND ASSOCIATES, INC

Environmental Engineers and Scientists

CHAIN OF CUSTODY RECORD

Send results to:

SHARP & ASSOCIATES, INC.
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax: (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1128-03

SAMPLER (Signature): [signature]

PROJECT NAME/LOCATION: Granville Sokents

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P - G)	PARAMETER GC/MS VOC 8260					PRESER-VATIVE TYPE	REMARKS
AS-6	7-30-01	1825			AS-6 23-25	1 x 2oz	G	X					—	

Relinquished By: (Signature) [signature]	Date/Time 7-30-01 1900	Received By: (Signature)	Sample Sent To: Severn Trent Labs
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Attn:
Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature) [signature] 7-31-01 0900	Address: 4101 Shuffel Dr. NW North Canton, OH 44720
			Phone: (330) 947-9396
			Freight Co.: Airborne Express
			Air Bill No: 2274418473

Quality Assurance Data Review

Project Name: Granville Schools
Sampling Date: 7-27-01, 7-30-01
Date Review Date: 9-20-01
Laboratory: STL - N.C.
Reviewer's Signature:

	Matrix	Initials	Comments
Compared Chain-of-Custody to Data Received	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air		
Sample Hold Times Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Trip Blank Reviewed	All	NA	
Sample Reporting Limits Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air		
Method Blank Reviewed	Soil / Sediment		#1 See Qualified data.
	Groundwater / Surface Water	—	
	Air		
Surrogate Compound Recovery Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air		
Matrix Spike/Spike Duplicate Recovery Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air		
Duplicate Sample Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air		
Laboratory Control Sample Recovery Reviewed	Soil / Sediment		
	Groundwater / Surface Water	—	
	Air	—	
Tentatively Identified Compound Reviewed	Soil / Sediment		Not reported.
	Groundwater / Surface Water	—	
	Air	—	

Additional Comments:

#1 - 1,2-DCA (35 ug/kg) and TCE (76 ug/kg) detected in the 8-9-01 Method blank for 8260.

GVS
Soil Samples
Air Injection Wells
Air Sparging Wells
7/31/01 — 8/1/01

SEVERN TRENT SERVICES

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720-6961

Tel: 330 497 9396
Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 1123-03

GRANVILLE SOLVENTS

Lot #: A1H020235

Steven Roach

Sharp & Associates
982 Crupper Ave.
Columbus, OH 43229

SEVERN TRENT LABORATORIES, INC.

Alesia M. Danford
Project Manager

August 21, 2001

CASE NARRATIVE

A1H020235

The following report contains the analytical results for nine solid samples submitted to STL North Canton by Sharp & Associates, Inc. from the Granville Solvents Site, project number 1123-03. The samples were received August 2, 2001, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. Preliminary results were provided to Steven Roach on August 17 and 20, 2001. A summary of QC data for these analyses is included at the rear of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The samples were received at the laboratory at a temperature of 2.0° C.

GC/MS VOLATILES

Sample(s) that contain results between the MDL and the RL were flagged with "J". There is the possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

- *For analyses run on TJA Trace ICP, ICPMS or GFAA only*

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

- *Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.*

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, PAH, and Herbicide methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

nelac

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CL0024), Pennsylvania (#68-340), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)

ANALYTICAL METHODS SUMMARY

A1H020235

PARAMETER	ANALYTICAL METHOD
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B
Volatiles by GC	SW846 8021B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1H020235

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
EHD2D	001	AI-14 3-5	07/31/01	11:15
EHD2H	002	AI-10 7-9	07/31/01	12:35
EHD2K	003	AI-11 9-11	07/31/01	13:55
EHD2L	004	AS-5 20-22	07/31/01	15:10
EHD2N	005	AI-1 5'-7'	08/01/01	11:40
EHD2Q	006	AI-3 7'-9'	08/01/01	13:15
EHD2R	007	AI-2 7-9'	08/01/01	14:30
EHD2V	008	AS-2 23'-25'	08/01/01	17:20
EHD2W	009	DUPLICATE	08/01/01	11:40

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-14 3-5

GC/MS Volatiles

Lot-Sample #...: A1H020235-001 **Work Order #...:** EHD2D1AC **Matrix.....:** SO
Date Sampled...: 07/31/01 11:15 **Date Received..:** 08/02/01
Prep Date.....: 08/07/01 **Analysis Date..:** 08/07/01
Prep Batch #...: 1220405
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	12	ug/kg
Bromomethane	ND	12	ug/kg
Vinyl chloride	ND	12	ug/kg
Chloroethane	ND	12	ug/kg
Methylene chloride	ND	5.8	ug/kg
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.8	ug/kg
1,1-Dichloroethene	ND	5.8	ug/kg
1,1-Dichloroethane	ND	5.8	ug/kg
1,2-Dichloroethene (total)	ND	5.8	ug/kg
Chloroform	ND	5.8	ug/kg
1,2-Dichloroethane	ND	5.8	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.8	ug/kg
Carbon tetrachloride	ND	5.8	ug/kg
Bromodichloromethane	ND	5.8	ug/kg
1,2-Dichloropropane	ND	5.8	ug/kg
cis-1,3-Dichloropropene	ND	5.8	ug/kg
Trichloroethene	**7.9**	**5.8**	**ug/kg**
Dibromochloromethane	ND	5.8	ug/kg
1,1,2-Trichloroethane	ND	5.8	ug/kg
Benzene	ND	5.8	ug/kg
trans-1,3-Dichloropropene	ND	5.8	ug/kg
Bromoform	ND	5.8	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	**48**	**5.8**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg
Toluene	ND	5.8	ug/kg
Chlorobenzene	ND	5.8	ug/kg
Ethylbenzene	ND	5.8	ug/kg
Styrene	ND	5.8	ug/kg
Xylenes (total)	ND	5.8	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	109	(60 - 143)
4-Bromofluorobenzene	78	(47 - 158)

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-14 3-5

GC/MS Volatiles

Lot-Sample #...: A1H020235-001 **Work Order #...:** EHD2D1AC **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-10 7-9

GC Volatiles

Lot-Sample #...: A1H020235-002 **Work Order #...:** EHD2H1AC **Matrix.....:** SO
Date Sampled...: 07/31/01 12:35 **Date Received..:** 08/02/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1219159
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	62	ug/kg
Bromobenzene	ND	62	ug/kg
Bromochloromethane	ND	62	ug/kg
Bromodichloromethane	ND	62	ug/kg
Bromoform	ND	62	ug/kg
Bromomethane	ND	62	ug/kg
n-Butylbenzene	ND	62	ug/kg
sec-Butylbenzene	ND	62	ug/kg
tert-Butylbenzene	ND	62	ug/kg
Carbon tetrachloride	ND	62	ug/kg
Chlorobenzene	ND	62	ug/kg
Chlorodibromomethane	ND	62	ug/kg
oroethane	ND	62	ug/kg
Chloroform	ND	62	ug/kg
Chloromethane	ND	62	ug/kg
2-Chlorotoluene	ND	62	ug/kg
4-Chlorotoluene	ND	62	ug/kg
Dibromomethane	ND	62	ug/kg
1,2-Dichlorobenzene	ND	62	ug/kg
1,3-Dichlorobenzene	ND	62	ug/kg
1,4-Dichlorobenzene	ND	62	ug/kg
Dichlorodifluoromethane	ND	62	ug/kg
1,1-Dichloroethane	ND	62	ug/kg
1,2-Dichloroethane	ND	62	ug/kg
1,1-Dichloroethene	ND	62	ug/kg
cis-1,2-Dichloroethene	ND	62	ug/kg
trans-1,2-Dichloroethene	ND	62	ug/kg
1,2-Dichloropropane	ND	62	ug/kg
1,3-Dichloropropane	ND	62	ug/kg
2,2-Dichloropropane	ND	62	ug/kg
1,1-Dichloropropene	ND	62	ug/kg
cis-1,3-Dichloropropene	ND	62	ug/kg
trans-1,3-Dichloropropene	ND	62	ug/kg
Ethylbenzene	ND	62	ug/kg
Trichlorofluoromethane	ND	62	ug/kg
Hexachlorobutadiene	ND	62	ug/kg
Isopropylbenzene	ND	62	ug/kg
sopropyltoluene	ND	62	ug/kg

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-10 7-9

GC Volatiles

Lot-Sample #...: A1H020235-002 **Work Order #...:** EHD2H1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	310	ug/kg
Naphthalene	ND	62	ug/kg
n-Propylbenzene	ND	62	ug/kg
Styrene	ND	62	ug/kg
1,1,1,2-Tetrachloroethane	ND	62	ug/kg
1,1,2,2-Tetrachloroethane	ND	62	ug/kg
Tetrachloroethene	**1400**	**62**	**ug/kg**
Toluene	ND	62	ug/kg
1,2,3-Trichlorobenzene	ND	62	ug/kg
1,2,4-Trichloro-benzene	ND	62	ug/kg
1,1,1-Trichloroethane	ND	62	ug/kg
1,1,2-Trichloroethane	ND	62	ug/kg
Trichloroethene	**150**	**62**	**ug/kg**
1,2,3-Trichloropropane	ND	62	ug/kg
1,2,4-Trimethylbenzene	ND	62	ug/kg
1,3,5-Trimethylbenzene	ND	62	ug/kg
Vinyl chloride	ND	62	ug/kg
Xylenes (total)	ND	62	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	62	ug/kg
1,2-Dibromoethane (EDB)	ND	62	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	86	(50 - 150)
Trifluorotoluene	81	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-11 9-11

GC Volatiles

Lot-Sample #...: A1H020235-003 **Work Order #...:** EHD2K1AC **Matrix.....:** SO
Date Sampled...: 07/31/01 13:55 **Date Received..:** 08/02/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1219159
Dilution Factor: 2
% Moisture.....: 13 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	120	ug/kg
Bromobenzene	ND	120	ug/kg
Bromochloromethane	ND	120	ug/kg
Bromodichloromethane	ND	120	ug/kg
Bromoform	ND	120	ug/kg
Bromomethane	ND	120	ug/kg
n-Butylbenzene	ND	120	ug/kg
sec-Butylbenzene	ND	120	ug/kg
tert-Butylbenzene	ND	120	ug/kg
Carbon tetrachloride	ND	120	ug/kg
Chlorobenzene	ND	120	ug/kg
Chlorodibromomethane	ND	120	ug/kg
Chloroethane	ND	120	ug/kg
Chloroform	ND	120	ug/kg
Chloromethane	ND	120	ug/kg
2-Chlorotoluene	ND	120	ug/kg
4-Chlorotoluene	ND	120	ug/kg
Dibromomethane	ND	120	ug/kg
1,2-Dichlorobenzene	ND	120	ug/kg
1,3-Dichlorobenzene	ND	120	ug/kg
1,4-Dichlorobenzene	ND	120	ug/kg
Dichlorodifluoromethane	ND	120	ug/kg
1,1-Dichloroethane	ND	120	ug/kg
1,2-Dichloroethane	ND	120	ug/kg
1,1-Dichloroethene	ND	120	ug/kg
cis-1,2-Dichloroethene	ND	120	ug/kg
trans-1,2-Dichloroethene	ND	120	ug/kg
1,2-Dichloropropane	ND	120	ug/kg
1,3-Dichloropropane	ND	120	ug/kg
2,2-Dichloropropane	ND	120	ug/kg
1,1-Dichloropropene	ND	120	ug/kg
cis-1,3-Dichloropropene	ND	120	ug/kg
trans-1,3-Dichloropropene	ND	120	ug/kg
Ethylbenzene	ND	120	ug/kg
Trichlorofluoromethane	ND	120	ug/kg
Hexachlorobutadiene	ND	120	ug/kg
Isopropylbenzene	ND	120	ug/kg
Isopropyltoluene	ND	120	ug/kg

(Continued on next page)

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-11 9-11

GC Volatiles

Lot-Sample #...: A1H020235-003 **Work Order #...:** EHD2K1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	580	ug/kg
Naphthalene	ND	120	ug/kg
n-Propylbenzene	ND	120	ug/kg
Styrene	ND	120	ug/kg
1,1,1,2-Tetrachloroethane	ND	120	ug/kg
1,1,2,2-Tetrachloroethane	ND	120	ug/kg
Tetrachloroethene	**5600**	**120**	**ug/kg**
Toluene	ND	120	ug/kg
1,2,3-Trichlorobenzene	ND	120	ug/kg
1,2,4-Trichloro-benzene	ND	120	ug/kg
1,1,1-Trichloroethane	**140**	**120**	**ug/kg**
1,1,2-Trichloroethane	ND	120	ug/kg
Trichloroethene	**310**	**120**	**ug/kg**
1,2,3-Trichloropropane	ND	120	ug/kg
1,2,4-Trimethylbenzene	ND	120	ug/kg
1,3,5-Trimethylbenzene	ND	120	ug/kg
yl chloride	ND	120	ug/kg
ylenes (total)	ND	120	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	120	ug/kg
1,2-Dibromoethane (EDB)	ND	120	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	94	(50 - 150)
Trifluorotoluene	84	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AS-5 20-22

GC Volatiles

Lot-Sample #...: A1H020235-004 **Work Order #...:** EHD2L1AC **Matrix.....:** SO
Date Sampled...: 07/31/01 15:10 **Date Received..:** 08/02/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1219159
Dilution Factor: 4
% Moisture.....: 9.4 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	220	ug/kg
Bromobenzene	ND	220	ug/kg
Bromochloromethane	ND	220	ug/kg
Bromodichloromethane	ND	220	ug/kg
Bromoform	ND	220	ug/kg
Bromomethane	ND	220	ug/kg
n-Butylbenzene	ND	220	ug/kg
sec-Butylbenzene	ND	220	ug/kg
tert-Butylbenzene	ND	220	ug/kg
Carbon tetrachloride	ND	220	ug/kg
Chlorobenzene	ND	220	ug/kg
Chlorodibromomethane	ND	220	ug/kg
Chloroethane	ND	220	ug/kg
Chloroform	ND	220	ug/kg
Chloromethane	ND	220	ug/kg
2-Chlorotoluene	ND	220	ug/kg
4-Chlorotoluene	ND	220	ug/kg
Dibromomethane	ND	220	ug/kg
1,2-Dichlorobenzene	ND	220	ug/kg
1,3-Dichlorobenzene	ND	220	ug/kg
1,4-Dichlorobenzene	ND	220	ug/kg
Dichlorodifluoromethane	ND	220	ug/kg
1,1-Dichloroethane	ND	220	ug/kg
1,2-Dichloroethane	ND	220	ug/kg
1,1-Dichloroethene	ND	220	ug/kg
cis-1,2-Dichloroethene	ND	220	ug/kg
trans-1,2-Dichloroethene	ND	220	ug/kg
1,2-Dichloropropane	ND	220	ug/kg
1,3-Dichloropropane	ND	220	ug/kg
2,2-Dichloropropane	ND	220	ug/kg
1,1-Dichloropropene	ND	220	ug/kg
cis-1,3-Dichloropropene	ND	220	ug/kg
trans-1,3-Dichloropropene	ND	220	ug/kg
Ethylbenzene	ND	220	ug/kg
Trichlorofluoromethane	ND	220	ug/kg
Hexachlorobutadiene	ND	220	ug/kg
Isopropylbenzene	ND	220	ug/kg
Isopropyltoluene	ND	220	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AS-5 20-22

GC Volatiles

Lot-Sample #...: A1H020235-004 **Work Order #...:** EHD2L1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1100	ug/kg
Naphthalene	ND	220	ug/kg
n-Propylbenzene	ND	220	ug/kg
Styrene	ND	220	ug/kg
1,1,1,2-Tetrachloroethane	ND	220	ug/kg
1,1,2,2-Tetrachloroethane	ND	220	ug/kg
Tetrachloroethene	**6800**	**220**	**ug/kg**
Toluene	ND	220	ug/kg
1,2,3-Trichlorobenzene	ND	220	ug/kg
1,2,4-Trichloro-benzene	ND	220	ug/kg
1,1,1-Trichloroethane	ND	220	ug/kg
1,1,2-Trichloroethane	ND	220	ug/kg
Trichloroethene	**430**	**220**	**ug/kg**
1,2,3-Trichloropropane	ND	220	ug/kg
1,2,4-Trimethylbenzene	ND	220	ug/kg
1,3,5-Trimethylbenzene	ND	220	ug/kg
Vinyl chloride	ND	220	ug/kg
Xylenes (total)	ND	220	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	220	ug/kg
1,2-Dibromoethane (EDB)	ND	220	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	97	(50 - 150)
Trifluorotoluene	88	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-1 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1H020235-005 **Work Order #...:** EHD2N1AC **Matrix.....:** SO
Date Sampled...: 08/01/01 11:40 **Date Received..:** 08/02/01
Prep Date.....: 08/10/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1225276
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	ND	5.6	ug/kg
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.6	ug/kg
1,1-Dichloroethene	ND	5.6	ug/kg
1,1-Dichloroethane	ND	5.6	ug/kg
1,2-Dichloroethene (total)	ND	5.6	ug/kg
Chloroform	ND	5.6	ug/kg
-Dichloroethane	ND	5.6	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.6	ug/kg
Carbon tetrachloride	ND	5.6	ug/kg
Bromodichloromethane	ND	5.6	ug/kg
1,2-Dichloropropane	ND	5.6	ug/kg
cis-1,3-Dichloropropene	ND	5.6	ug/kg
Trichloroethene	**17**	**5.6**	**ug/kg**
Dibromochloromethane	ND	5.6	ug/kg
1,1,2-Trichloroethane	ND	5.6	ug/kg
Benzene	ND	5.6	ug/kg
trans-1,3-Dichloropropene	ND	5.6	ug/kg
Bromoform	ND	5.6	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	**32**	**5.6**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg
Toluene	ND	5.6	ug/kg
Chlorobenzene	ND	5.6	ug/kg
Ethylbenzene	ND	5.6	ug/kg
Styrene	ND	5.6	ug/kg
Xylenes (total)	ND	5.6	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
romofluoromethane	93	(59 - 138)
-Dichloroethane-d4	83	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	85	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-1 5'-7'

GC/MS Volatiles

Lot-Sample #...: A1H020235-005 Work Order #...: EHD2N1AC Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-3 7'-9'

GC/MS Volatiles

Lot-Sample #...: A1H020235-006 **Work Order #...:** EHD2Q1AC **Matrix.....:** SO
Date Sampled...: 08/01/01 13:15 **Date Received..:** 08/02/01
Prep Date.....: 08/10/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1225276
Dilution Factor: 2
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	24	ug/kg
Bromomethane	ND	24	ug/kg
Vinyl chloride	ND	24	ug/kg
Chloroethane	ND	24	ug/kg
Methylene chloride	ND	12	ug/kg
Acetone	ND	47	ug/kg
Carbon disulfide	ND	12	ug/kg
1,1-Dichloroethene	ND	12	ug/kg
1,1-Dichloroethane	ND	12	ug/kg
1,2-Dichloroethene (total)	**5.7 J**	**12**	**ug/kg**
Chloroform	ND	12	ug/kg
1,2-Dichloroethane	ND	12	ug/kg
2-Butanone	ND	47	ug/kg
1,1,1-Trichloroethane	**24**	**12**	**ug/kg**
Carbon tetrachloride	ND	12	ug/kg
Bromodichloromethane	ND	12	ug/kg
1,2-Dichloropropane	ND	12	ug/kg
cis-1,3-Dichloropropene	ND	12	ug/kg
Trichloroethene	**89**	**12**	**ug/kg**
Dibromochloromethane	ND	12	ug/kg
1,1,2-Trichloroethane	ND	12	ug/kg
Benzene	ND	12	ug/kg
trans-1,3-Dichloropropene	ND	12	ug/kg
Bromoform	ND	12	ug/kg
4-Methyl-2-pentanone	ND	47	ug/kg
2-Hexanone	ND	47	ug/kg
Tetrachloroethene	**140**	**12**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	12	ug/kg
Toluene	ND	12	ug/kg
Chlorobenzene	ND	12	ug/kg
Ethylbenzene	**1.6 J**	**12**	**ug/kg**
Styrene	ND	12	ug/kg
Xylenes (total)	**8.6 J**	**12**	**ug/kg**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluoromethane	96	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-3 7'-9'

GC/MS Volatiles

Lot-Sample #...: A1H020235-006 **Work Order #...:** EHD2Q1AC **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

SHARP & ASSOCIATES, INC.

Client Sample ID: AI-2 7-9'

GC Volatiles

Lot-Sample #...: A1H020235-007 **Work Order #...:** EHD2R1AC **Matrix.....:** SO
Date Sampled...: 08/01/01 14:30 **Date Received..:** 08/02/01
Prep Date.....: 08/11/01 **Analysis Date..:** 08/11/01
Prep Batch #...: 1219138
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	1.2	ug/kg
Bromobenzene	ND	1.2	ug/kg
Bromochloromethane	ND	1.2	ug/kg
Bromodichloromethane	ND	1.2	ug/kg
Bromoform	ND	1.2	ug/kg
Bromomethane	ND	1.2	ug/kg
n-Butylbenzene	ND	1.2	ug/kg
sec-Butylbenzene	ND	1.2	ug/kg
tert-Butylbenzene	ND	1.2	ug/kg
Carbon tetrachloride	ND	1.2	ug/kg
Chlorobenzene	ND	1.2	ug/kg
Chlorodibromomethane	ND	1.2	ug/kg
oroethane	ND	1.2	ug/kg
Chloroform	ND	1.2	ug/kg
Chloromethane	ND	1.2	ug/kg
2-Chlorotoluene	ND	1.2	ug/kg
4-Chlorotoluene	ND	1.2	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.2	ug/kg
1,2-Dibromoethane (EDB)	ND	1.2	ug/kg
Dibromomethane	ND	1.2	ug/kg
1,2-Dichlorobenzene	ND	1.2	ug/kg
1,3-Dichlorobenzene	ND	1.2	ug/kg
1,4-Dichlorobenzene	ND	1.2	ug/kg
Dichlorodifluoromethane	ND	1.2	ug/kg
1,1-Dichloroethane	ND	1.2	ug/kg
1,2-Dichloroethane	ND	1.2	ug/kg
1,1-Dichloroethene	ND	1.2	ug/kg
cis-1,2-Dichloroethene	ND	1.2	ug/kg
trans-1,2-Dichloroethene	ND	1.2	ug/kg
1,2-Dichloropropane	ND	1.2	ug/kg
1,3-Dichloropropane	ND	1.2	ug/kg
2,2-Dichloropropane	ND	1.2	ug/kg
1,1-Dichloropropene	ND	1.2	ug/kg
cis-1,3-Dichloropropene	ND	1.2	ug/kg
trans-1,3-Dichloropropene	ND	1.2	ug/kg
Ethylbenzene	ND	1.2	ug/kg
achlorobutadiene	ND	1.2	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AI-2 7-9'

GC Volatiles

Lot-Sample #...: A1H020235-007 **Work Order #...:** EHD2R1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Isopropylbenzene	ND	1.2	ug/kg
p-Isopropyltoluene	ND	1.2	ug/kg
Methylene chloride	ND	5.9	ug/kg
Naphthalene	ND	2.4	ug/kg
n-Propylbenzene	ND	1.2	ug/kg
Styrene	ND	1.2	ug/kg
1,1,1,2-Tetrachloroethane	ND	1.2	ug/kg
1,1,2,2-Tetrachloroethane	ND	1.2	ug/kg
Tetrachloroethene	**63**	**1.2**	**ug/kg**
Toluene	ND	1.2	ug/kg
1,2,3-Trichlorobenzene	ND	1.2	ug/kg
1,2,4-Trichloro-benzene	ND	1.2	ug/kg
1,1,1-Trichloroethane	**2.0**	**1.2**	**ug/kg**
1,1,2-Trichloroethane	ND	1.2	ug/kg
Trichloroethene	**58**	**1.2**	**ug/kg**
Trichlorofluoromethane	ND	1.2	ug/kg
1,2,3-Trichloropropane	ND	1.2	ug/kg
1,2,4-Trimethylbenzene	ND	1.2	ug/kg
1,3,5-Trimethylbenzene	ND	1.2	ug/kg
Vinyl chloride	ND	1.2	ug/kg
Xylenes (total)	ND	1.2	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	127	(50 - 150)
Trifluorotoluene	84	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: AS-2 23'-25'

GC Volatiles

Lot-Sample #...: A1H020235-008 **Work Order #...:** EHD2V1AC **Matrix.....:** SO
Date Sampled...: 08/01/01 17:20 **Date Received..:** 08/02/01
Prep Date.....: 08/06/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1219159
Dilution Factor: 4
% Moisture.....: 7.7 **Method.....:** SW846 8021B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	220	ug/kg
Bromobenzene	ND	220	ug/kg
Bromochloromethane	ND	220	ug/kg
Bromodichloromethane	ND	220	ug/kg
Bromoform	ND	220	ug/kg
Bromomethane	ND	220	ug/kg
n-Butylbenzene	ND	220	ug/kg
sec-Butylbenzene	ND	220	ug/kg
tert-Butylbenzene	ND	220	ug/kg
Carbon tetrachloride	ND	220	ug/kg
Chlorobenzene	ND	220	ug/kg
Chlorodibromomethane	ND	220	ug/kg
Chloroethane	ND	220	ug/kg
Chloroform	ND	220	ug/kg
Chloromethane	ND	220	ug/kg
2-Chlorotoluene	ND	220	ug/kg
4-Chlorotoluene	ND	220	ug/kg
Dibromomethane	ND	220	ug/kg
1,2-Dichlorobenzene	ND	220	ug/kg
1,3-Dichlorobenzene	ND	220	ug/kg
1,4-Dichlorobenzene	ND	220	ug/kg
Dichlorodifluoromethane	ND	220	ug/kg
1,1-Dichloroethane	ND	220	ug/kg
1,2-Dichloroethane	ND	220	ug/kg
1,1-Dichloroethene	ND	220	ug/kg
cis-1,2-Dichloroethene	ND	220	ug/kg
trans-1,2-Dichloroethene	ND	220	ug/kg
1,2-Dichloropropane	ND	220	ug/kg
1,3-Dichloropropane	ND	220	ug/kg
2,2-Dichloropropane	ND	220	ug/kg
1,1-Dichloropropene	ND	220	ug/kg
cis-1,3-Dichloropropene	ND	220	ug/kg
trans-1,3-Dichloropropene	ND	220	ug/kg
Ethylbenzene	ND	220	ug/kg
Trichlorofluoromethane	ND	220	ug/kg
Hexachlorobutadiene	ND	220	ug/kg
Isopropylbenzene	ND	220	ug/kg
Isopropyltoluene	ND	220	ug/kg

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SHARP & ASSOCIATES, INC.

Client Sample ID: AS-2 23'-25'

GC Volatiles

Lot-Sample #...: A1H020235-008 **Work Order #...:** EHD2V1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methylene chloride	ND	1100	ug/kg
Naphthalene	ND	220	ug/kg
n-Propylbenzene	ND	220	ug/kg
Styrene	ND	220	ug/kg
1,1,1 2-Tetrachloroethane	ND	220	ug/kg
1,1,2 2-Tetrachloroethane	ND	220	ug/kg
Tetrachloroethene	**5000**	**220**	**ug/kg**
Toluene	ND	220	ug/kg
1,2,3-Trichlorobenzene	ND	220	ug/kg
1,2,4-Trichloro-benzene	ND	220	ug/kg
1,1,1-Trichloroethane	**680**	**220**	**ug/kg**
1,1,2-Trichloroethane	ND	220	ug/kg
Trichloroethene	**3000**	**220**	**ug/kg**
1,2,3-Trichloropropane	ND	220	ug/kg
1,2,4-Trimethylbenzene	ND	220	ug/kg
3,5-Trimethylbenzene	ND	220	ug/kg
nyl chloride	ND	220	ug/kg
Xylenes (total)	ND	220	ug/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	220	ug/kg
1,2-Dibromoethane (EDB)	ND	220	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	93	(50 - 150)
Trifluorotoluene	88	(64 - 148)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

SHARP & ASSOCIATES, INC.

Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #...: A1H020235-009 **Work Order #...:** EHD2W1AC **Matrix.....:** SO
Date Sampled...: 08/01/01 11:40 **Date Received..:** 08/02/01
Prep Date.....: 08/07/01 **Analysis Date..:** 08/07/01
Prep Batch #...: 1220405
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Chloromethane	ND	11	ug/kg
Bromomethane	ND	11	ug/kg
Vinyl chloride	ND	11	ug/kg
Chloroethane	ND	11	ug/kg
Methylene chloride	ND	5.7	ug/kg
Acetone	ND	23	ug/kg
Carbon disulfide	ND	5.7	ug/kg
1,1-Dichloroethene	ND	5.7	ug/kg
1,1-Dichloroethane	ND	5.7	ug/kg
1,2-Dichloroethene (total)	ND	5.7	ug/kg
Chloroform	ND	5.7	ug/kg
[illegible]-Dichloroethane	ND	5.7	ug/kg
2-Butanone	ND	23	ug/kg
1,1,1-Trichloroethane	ND	5.7	ug/kg
Carbon tetrachloride	ND	5.7	ug/kg
Bromodichloromethane	ND	5.7	ug/kg
1,2-Dichloropropane	ND	5.7	ug/kg
cis-1,3-Dichloropropene	ND	5.7	ug/kg
Trichloroethene	**4.6 J**	**5.7**	**ug/kg**
Dibromochloromethane	ND	5.7	ug/kg
1,1,2-Trichloroethane	ND	5.7	ug/kg
Benzene	ND	5.7	ug/kg
trans-1,3-Dichloropropene	ND	5.7	ug/kg
Bromoform	ND	5.7	ug/kg
4-Methyl-2-pentanone	ND	23	ug/kg
2-Hexanone	ND	23	ug/kg
Tetrachloroethene	**7.1**	**5.7**	**ug/kg**
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg
Toluene	ND	5.7	ug/kg
Chlorobenzene	ND	5.7	ug/kg
Ethylbenzene	ND	5.7	ug/kg
Styrene	ND	5.7	ug/kg
Xylenes (total)	ND	5.7	ug/kg

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
romofluoromethane	85	(59 - 138)
[illegible]-Dichloroethane-d4	77	(61 - 130)
Toluene-d8	101	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

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SHARP & ASSOCIATES, INC.

Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #...: A1H020235-009 **Work Order #...:** EHD2W1AC **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 Work Order #...: EHM541AA Matrix.....: SOLID
MB Lot-Sample #: A1H080000-405

Prep Date.....: 08/07/01
Analysis Date..: 08/07/01 Prep Batch #...: 1220405
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Butanone	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	3.3 J	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
1,2-Dichloroethane-d4	75	(61 - 130)
Toluene-d8	100	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHM541AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHWCD1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1H130000-276

Prep Date.....: 08/10/01
Analysis Date..: 08/10/01 **Prep Batch #...:** 1225276
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	10	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
Vinyl chloride	ND	10	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	5.0	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
1,2-Dichloroethane-d4	87	(61 - 130)
Toluene-d8	95	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHWCD1AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1H020235
MB Lot-Sample #: A1H070000-159

Work Order #...: EHJXC1AA

Matrix.....: SOLID

Prep Date.....: 08/06/01
Prep Batch #...: 1219159

Analysis Date..: 08/06/01
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	50	ug/kg	SW846 8021B
Bromobenzene	ND	50	ug/kg	SW846 8021B
Bromochloromethane	ND	50	ug/kg	SW846 8021B
Bromodichloromethane	ND	50	ug/kg	SW846 8021B
Bromoform	ND	50	ug/kg	SW846 8021B
Bromomethane	ND	50	ug/kg	SW846 8021B
n-Butylbenzene	ND	50	ug/kg	SW846 8021B
sec-Butylbenzene	ND	50	ug/kg	SW846 8021B
tert-Butylbenzene	ND	50	ug/kg	SW846 8021B
Carbon tetrachloride	ND	50	ug/kg	SW846 8021B
Chlorobenzene	ND	50	ug/kg	SW846 8021B
Chlorodibromomethane	ND	50	ug/kg	SW846 8021B
Chloroethane	ND	50	ug/kg	SW846 8021B
Chloroform	ND	50	ug/kg	SW846 8021B
Chloromethane	ND	50	ug/kg	SW846 8021B
2-Chlorotoluene	ND	50	ug/kg	SW846 8021B
4-Chlorotoluene	ND	50	ug/kg	SW846 8021B
Dibromomethane	ND	50	ug/kg	SW846 8021B
1,2-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
1,3-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
1,4-Dichlorobenzene	ND	50	ug/kg	SW846 8021B
Dichlorodifluoromethane	ND	50	ug/kg	SW846 8021B
1,1-Dichloroethane	ND	50	ug/kg	SW846 8021B
1,2-Dichloroethane	ND	50	ug/kg	SW846 8021B
1,1-Dichloroethene	ND	50	ug/kg	SW846 8021B
cis-1,2-Dichloroethene	ND	50	ug/kg	SW846 8021B
trans-1,2-Dichloroethene	ND	50	ug/kg	SW846 8021B
1,2-Dichloropropane	ND	50	ug/kg	SW846 8021B
1,3-Dichloropropane	ND	50	ug/kg	SW846 8021B
2,2-Dichloropropane	ND	50	ug/kg	SW846 8021B
1,1-Dichloropropene	ND	50	ug/kg	SW846 8021B
cis-1,3-Dichloropropene	ND	50	ug/kg	SW846 8021B
trans-1,3-Dichloropropene	ND	50	ug/kg	SW846 8021B
Ethylbenzene	ND	50	ug/kg	SW846 8021B
Trichlorofluoromethane	ND	50	ug/kg	SW846 8021B
Hexachlorobutadiene	ND	50	ug/kg	SW846 8021B
Isopropylbenzene	ND	50	ug/kg	SW846 8021B
p-Isopropyltoluene	ND	50	ug/kg	SW846 8021B
Methylene chloride	ND	250	ug/kg	SW846 8021B
Naphthalene	ND	50	ug/kg	SW846 8021B
n-Propylbenzene	ND	50	ug/kg	SW846 8021B

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METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHJXC1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Styrene	ND	50	ug/kg	SW846 8021B
1,1,1,2-Tetrachloroethane	ND	50	ug/kg	SW846 8021B
1,1,2,2-Tetrachloroethane	ND	50	ug/kg	SW846 8021B
Tetrachloroethene	ND	50	ug/kg	SW846 8021B
Toluene	ND	50	ug/kg	SW846 8021B
1,2,3-Trichlorobenzene	ND	50	ug/kg	SW846 8021B
1,2,4-Trichloro-benzene	ND	50	ug/kg	SW846 8021B
1,1,1-Trichloroethane	ND	50	ug/kg	SW846 8021B
1,1,2-Trichloroethane	ND	50	ug/kg	SW846 8021B
Trichloroethene	ND	50	ug/kg	SW846 8021B
1,2,3-Trichloropropane	ND	50	ug/kg	SW846 8021B
1,2,4-Trimethylbenzene	ND	50	ug/kg	SW846 8021B
1,3,5-Trimethylbenzene	ND	50	ug/kg	SW846 8021B
Vinyl chloride	ND	50	ug/kg	SW846 8021B
Xylenes (total)	ND	50	ug/kg	SW846 8021B
1,2-Dibromo-3-loropropane (DBCP)	ND	50	ug/kg	SW846 8021B
1,2-Dibromoethane (EDB)	ND	50	ug/kg	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	82	(50 - 150)
Trifluorotoluene	107	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHJVG1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1H070000-138

Prep Date.....: 08/10/01
Analysis Date..: 08/10/01 **Prep Batch #...:** 1219138
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.0	ug/kg	SW846 8021B
Bromobenzene	ND	1.0	ug/kg	SW846 8021B
Bromochloromethane	ND	1.0	ug/kg	SW846 8021B
Bromodichloromethane	ND	1.0	ug/kg	SW846 8021B
Bromoform	ND	1.0	ug/kg	SW846 8021B
Bromomethane	ND	1.0	ug/kg	SW846 8021B
n-Butylbenzene	ND	1.0	ug/kg	SW846 8021B
sec-Butylbenzene	ND	1.0	ug/kg	SW846 8021B
tert-Butylbenzene	ND	1.0	ug/kg	SW846 8021B
Carbon tetrachloride	ND	1.0	ug/kg	SW846 8021B
Chlorobenzene	ND	1.0	ug/kg	SW846 8021B
Chlorodibromomethane	ND	1.0	ug/kg	SW846 8021B
Chloroethane	ND	1.0	ug/kg	SW846 8021B
Chloroform	ND	1.0	ug/kg	SW846 8021B
Chloromethane	ND	1.0	ug/kg	SW846 8021B
2-Chlorotoluene	ND	1.0	ug/kg	SW846 8021B
4-Chlorotoluene	ND	1.0	ug/kg	SW846 8021B
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	ug/kg	SW846 8021B
1,2-Dibromoethane (EDB)	ND	1.0	ug/kg	SW846 8021B
Dibromomethane	ND	1.0	ug/kg	SW846 8021B
1,2-Dichlorobenzene	ND	1.0	ug/kg	SW846 8021B
1,3-Dichlorobenzene	ND	1.0	ug/kg	SW846 8021B
1,4-Dichlorobenzene	ND	1.0	ug/kg	SW846 8021B
Dichlorodifluoromethane	ND	1.0	ug/kg	SW846 8021B
1,1-Dichloroethane	ND	1.0	ug/kg	SW846 8021B
1,2-Dichloroethane	ND	1.0	ug/kg	SW846 8021B
1,1-Dichloroethene	ND	1.0	ug/kg	SW846 8021B
cis-1,2-Dichloroethene	ND	1.0	ug/kg	SW846 8021B
trans-1,2-Dichloroethene	ND	1.0	ug/kg	SW846 8021B
1,2-Dichloropropane	ND	1.0	ug/kg	SW846 8021B
1,3-Dichloropropane	ND	1.0	ug/kg	SW846 8021B
2,2-Dichloropropane	ND	1.0	ug/kg	SW846 8021B
1,1-Dichloropropene	ND	1.0	ug/kg	SW846 8021B
cis-1,3-Dichloropropene	ND	1.0	ug/kg	SW846 8021B
trans-1,3-Dichloropropene	ND	1.0	ug/kg	SW846 8021B
Ethylbenzene	ND	1.0	ug/kg	SW846 8021B
Hexachlorobutadiene	ND	1.0	ug/kg	SW846 8021B
Isopropylbenzene	ND	1.0	ug/kg	SW846 8021B
p-Isopropyltoluene	ND	1.0	ug/kg	SW846 8021B
Methylene chloride	ND	5.0	ug/kg	SW846 8021B

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METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHJVG1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Naphthalene	ND	2.0	ug/kg	SW846 8021B
n-Propylbenzene	ND	1.0	ug/kg	SW846 8021B
Styrene	ND	1.0	ug/kg	SW846 8021B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/kg	SW846 8021B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg	SW846 8021B
Tetrachloroethene	ND	1.0	ug/kg	SW846 8021B
Toluene	ND	1.0	ug/kg	SW846 8021B
1,2,3-Trichlorobenzene	ND	1.0	ug/kg	SW846 8021B
1,2,4-Trichloro-benzene	ND	1.0	ug/kg	SW846 8021B
1,1,1-Trichloroethane	ND	1.0	ug/kg	SW846 8021B
1,1,2-Trichloroethane	ND	1.0	ug/kg	SW846 8021B
Trichloroethene	ND	1.0	ug/kg	SW846 8021B
Trichlorofluoromethane	ND	1.0	ug/kg	SW846 8021B
1,2,3-Trichloropropane	ND	1.0	ug/kg	SW846 8021B
1,2,4-Trimethylbenzene	ND	1.0	ug/kg	SW846 8021B
1,3,5-Trimethylbenzene	ND	1.0	ug/kg	SW846 8021B
Vinyl chloride	ND	1.0	ug/kg	SW846 8021B
Xylenes (total)	ND	1.0	ug/kg	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,4-Dichlorobutane	79	(50 - 150)
Trifluorotoluene	92	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 Work Order #...: EHM541AC Matrix.....: SOLID
LCS Lot-Sample#: A1H080000-405
Prep Date.....: 08/07/01 Analysis Date..: 08/07/01
Prep Batch #...: 1220405
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(55 - 142)**	**SW846 8260B**
Trichloroethene	**94**	**(70 - 131)**	**SW846 8260B**
Benzene	**96**	**(75 - 129)**	**SW846 8260B**
Toluene	**99**	**(71 - 130)**	**SW846 8260B**
Chlorobenzene	**102**	**(75 - 127)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(59 - 138)
1,2-Dichloroethane-d4	78	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	96	(47 - 158)

E(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 **Work Order #...:** EHWCD1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1H130000-276
Prep Date.....: 08/10/01 **Analysis Date..:** 08/10/01
Prep Batch #...: 1225276
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(55 - 142)**	**SW846 8260B**
Trichloroethene	**107**	**(70 - 131)**	**SW846 8260B**
Benzene	**105**	**(75 - 129)**	**SW846 8260B**
Toluene	**103**	**(71 - 130)**	**SW846 8260B**
Chlorobenzene	**104**	**(75 - 127)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(59 - 138)
1,2-Dichloroethane-d4	88	(61 - 130)
Toluene-d8	97	(60 - 143)
4-Bromofluorobenzene	95	(47 - 158)

TB(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1H020235 Work Order #...: EHJXC1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H070000-159 EHJXC1AD-LCSD
Prep Date.....: 08/06/01 Analysis Date..: 08/06/01
Prep Batch #...: 1219159
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	111	(68 - 124)			SW846 8021B
	117	(68 - 124)	5.4	(0-20)	SW846 8021B
Chlorobenzene	89	(86 - 115)			SW846 8021B
	91	(86 - 115)	2.5	(0-20)	SW846 8021B
1,1-Dichloroethene	112	(84 - 120)			SW846 8021B
	115	(84 - 120)	2.7	(0-20)	SW846 8021B
Toluene	113	(70 - 125)			SW846 8021B
	119	(70 - 125)	5.3	(0-20)	SW846 8021B
Trichloroethene	89	(24 - 118)			SW846 8021B
	89	(24 - 118)	0.060	(0-21)	SW846 8021B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Dichlorobutane	85	(50 - 150)
	83	(50 - 150)
Trifluorotoluene	114	(64 - 148)
	116	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1H020235 Work Order #...: EHJVG1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A1H070000-138 EHJVG1AD-LCSD
Prep Date.....: 08/10/01 Analysis Date..: 08/10/01
Prep Batch #...: 1219138
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**94**	**(68 - 124)**			**SW846 8021B**
	102	**(68 - 124)**	**8.9**	**(0-20)**	**SW846 8021B**
Chlorobenzene	**89**	**(86 - 115)**			**SW846 8021B**
	102	**(86 - 115)**	**13**	**(0-20)**	**SW846 8021B**
1,1-Dichloroethene	**92**	**(84 - 120)**			**SW846 8021B**
	102	**(84 - 120)**	**9.4**	**(0-20)**	**SW846 8021B**
Toluene	**92**	**(70 - 125)**			**SW846 8021B**
	102	**(70 - 125)**	**11**	**(0-20)**	**SW846 8021B**
Trichloroethene	**92**	**(24 - 118)**			**SW846 8021B**
	103	**(24 - 118)**	**11**	**(0-21)**	**SW846 8021B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
-Dichlorobutane	117	(50 - 150)
	117	(50 - 150)
Trifluorotoluene	103	(64 - 148)
	108	(64 - 148)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 Work Order #...: EHD2D1AD-MS Matrix.....: SO
MS Lot-Sample #: A1H020235-001 EHD2D1AE-MSD
Date Sampled...: 07/31/01 11:15 Date Received..: 08/02/01
Prep Date.....: 08/07/01 Analysis Date..: 08/07/01
Prep Batch #...: 1220405
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**84**	**(43 - 147)**			**SW846 8260B**
	77	**(43 - 147)**	**7.8**	**(0-27)**	**SW846 8260B**
Trichloroethene	**75**	**(46 - 143)**			**SW846 8260B**
	66	**(46 - 143)**	**11**	**(0-23)**	**SW846 8260B**
Benzene	**83**	**(55 - 138)**			**SW846 8260B**
	75	**(55 - 138)**	**10**	**(0-20)**	**SW846 8260B**
Toluene	**88**	**(46 - 147)**			**SW846 8260B**
	70	**(46 - 147)**	**23**	**(0-24)**	**SW846 8260B**
Chlorobenzene	**82**	**(49 - 139)**			**SW846 8260B**
	68	**(49 - 139)**	**20**	**(0-22)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(59 - 138)
	89	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
	83	(61 - 130)
Toluene-d8	108	(60 - 143)
	99	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)
	92	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1H020235 Work Order #...: EHAJT1AX-MS Matrix.....: SOLID
MS Lot-Sample #: A1H010261-017 EHAJT1A0-MSD
Date Sampled...: 07/31/01 11:44 Date Received..: 08/01/01
Prep Date.....: 08/10/01 Analysis Date..: 08/10/01
Prep Batch #...: 1225276
Dilution Factor: 1 % Moisture.....: 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	85	(43 - 147)			SW846 8260B
	83	(43 - 147)	2.9	(0-27)	SW846 8260B
Trichloroethene	99	(46 - 143)			SW846 8260B
	80	(46 - 143)	17	(0-23)	SW846 8260B
Benzene	92	(55 - 138)			SW846 8260B
	91	(55 - 138)	0.76	(0-20)	SW846 8260B
Toluene	89	(46 - 147)			SW846 8260B
	85	(46 - 147)	4.8	(0-24)	SW846 8260B
Chlorobenzene	85	(49 - 139)			SW846 8260B
	81	(49 - 139)	4.7	(0-22)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(59 - 138)
	94	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
	87	(61 - 130)
Toluene-d8	101	(60 - 143)
	98	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)
	96	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

SHARP AND ASSOCIATES, INC. Environmental Engineers and Scientists

CHAIN OF CUSTODY RECORD

Send results to:

SHARP & ASSOCIATES, INC
982 CRUPPER AVENUE
COLUMBUS, OHIO 43229
(614) 841-4650 Fax: (614) 841-4660

CUSTODY SEAL NO.

PROJECT NUMBER: 1123-03

SAMPLER (Signature): [illegible]

PROJECT NAME/LOCATION: Gamble Schools, Gamble OH

SAMPLE NAME	DATE	TIME (Military)	C	G	STATION LOCATION	CONTAINERS NUMBER AND SIZE	CONTAINERS TYPE (P - G)	PARAMETER TCL VOC 8260	PARAMETER Halogenated Hydr. 8021				PRESERVATIVE TYPE	REMARKS
A1-14	~~8-1-01~~ 7-31-01 KS	1115		X	A1-14 3-5	1 x 2oz	G	X					~~G~~	
A1-10	~~8-1-01~~ 7-31-01 KS	1235		X	A1-10 7-8	1 x 2oz	G		X				~~G~~	
A1-11	~~8-1-01~~ 7-31-01 KS	1355		X	A1-11 8-11	1 x 2oz	G		X				~~G~~	
A5-5	~~8-1-01~~ 7-31-01 KS	1510		X	A5-5 20-22	1 x 2oz	G		X				~~G~~	
A1-1	8-1-01	1140		X	A1-1 5'-7'	1 x 2oz	G	X					~~G~~	
A1-3	8-1-01	1315		X	A1-3 7'-9'	1 x 2oz	G	X					~~G~~	
A1-2	8-1-01	1430		X	A1-2 7-9'	1 x 2oz	G		X				~~G~~	
A5-2	8-1-01	1720		X	A5-2 23'-25'	1 x 2oz	G		X				~~G~~	
Dup	8-1-01	1140		X	Duplicate	1 x 2oz	G	X					~~G~~	

Relinquished By: (Signature) [illegible]	Date/Time 8-1-01 1930	Received By: (Signature)	Sample Sent To: Seven Trent Labs
			Attn:
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Address: 4401 Shuffel Dr NW North Canton, OH 44720
Relinquished By: (Signature)	Date/Time	Received For Laboratory By: (Signature) [illegible] 8-2-01 0915	Phone: (330) 497-9396
			Freight Co.: Airborne Express
			Air Bill No: 2274418478

Quality Assurance Data Review

Project Name: Granville Solvents
Sampling Date: 7-31-01, 8-1-01
Date Review Date: 9-20-01
Laboratory: STL - N.C.
Reviewer's Signature: [signature]

	Matrix	Initials	Comments
Compared Chain-of-Custody to Data Received	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Sample Hold Times Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Trip Blank Reviewed	All	NA	
Sample Reporting Limits Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Method Blank Reviewed	Soil / Sediment	[initials]	#1
	Groundwater / Surface Water	—	
	Air	—	
Surrogate Compound Recovery Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Matrix Spike/Spike Duplicate Recovery Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Duplicate Sample Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Laboratory Control Sample Recovery Reviewed	Soil / Sediment	[initials]	
	Groundwater / Surface Water	—	
	Air	—	
Tentatively Identified Compound Reviewed	Soil / Sediment	NA.	
	Groundwater / Surface Water	—	
	Air	—	

Additional Comments:

#1 - 2-hexanone (3.3 ug/Kg) detected in the 8-7-01 Method blank (8260). No action required as it was not detected in any site samples.

APPENDIX C
NESHAP NOTIFICATION

SHARP AND ASSOCIATES, INC.
Environmental Engineers and Scientists
982 Crupper Avenue
Columbus, Ohio 43229
(614) 841-4650
FAX (614) 841-4660

FILE COPY
Transmittal

Date 6/27/01 Job No. 1128-3

Attention: Division of Air Pollution Control

RE: OEPA Notification of Demolition and Renovation

Ohio EPA / DAPC
3232 Alum Creek Drive
Columbus, OH 43207

We are sending you ☒ Attached ☐ Under separate cover via _____ the following items:

	Copies	Dwg No.	Date	Description
☐ Shop Drawings				
☐ Prints				
☐ Plans				
☐ Samples				
☐ Specifications				
☐ Copy of letter				
☐ Other	1	–	6/27/01	OEPA Notification of Demolition & Renovation

Transmitted As Indicated

☐ For Your Use ☐ Approved as Submitted ☐ Resubmit ____ Copies for Approval
☐ As Requested ☐ Approved as Noted ☐ Submit ____ Copies for Distribution
☐ For Review and Comment ☐ Returned for Corrections ☐ Date Return Required _____
☒ For Approval _____ ☐ For Bids Due _____ ☐ Return ____ Copies of Approved Corrected Prints

Remarks:

If you have any questions regarding this notification please call Todd Struthmann, Matt Miller, or me at 614-841-4650. Thank you!

Troy Zimmerman

Signed [signature]

OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #

I. Type of Notification (check one): ☒ Original ☐ Revised ☐ Canceled

II. Facility Description *(include building name, number, and floor or room number)*

Building Name: (3) small buildings, (break room, loading shed, still shed)

Address: 300 Palmer Lane

City: Granville State: **OHIO** Zip Code: 43023 County: Licking

Site Location (specific):

Building Size (square feet): (247 sf, 2,016 sf., 130 sf.) # of Floors: 1 each Age in Years: approx. 25

Present Use: All are abandoned Prior Use: storage/break room

III. Type of Operation (check one): ☐ Demo ☐ Ordered Demo ☐ Renovation ☐ Emergency Renovation ☐ Fire Training

IV. Is Asbestos Present? (check one): ☒ Yes ☐ No

V. Facility Information

Owner Name: Granville Solvents Site Response Management Group

Address: 10805 Cahill Road

City: Raleigh State: NC Zip Code: 27614

Contact: Dr. Bill Brewer Telephone: (919) 684-2794 Fax: (919)684-2422

Removal Contractor Name: NA License #

Address:

City: State: Zip Code:

Contact: Telephone: ( ) Fax: ( )

Other Operator (demolition/general): Sharp and Associates, Inc. License # NA

Address: 982 Crupper Avenue

City: Columbus State: Ohio Zip Code: 43229

Contact: Todd Struttmann, P.E. Telephone: (614) 841-4650 Fax: (614)841-4660

VI. Procedure, including analytical methods, employed to detect the presence of and to estimate the quantity of RACM and Category I and Category II nonfriable ACM:

Bulk Samples Analyzed by PLM. (Polarized Light Microscopy)

Ohio Asbestos Hazard Evaluation Specialist: Matthew Miller (Name) 33163 (Certification #)

VII. Approximate Amount of Asbestos Materials:

	RACM to be Removed	Nonfriable Asbestos Material to be Removed		Nonfriable Asbestos Material NOT to be Removed	
		Category I	Category II	Category I	Category II
Pipes (linear feet)					
Surface Area (square feet)				130	
Facility Components (cubic feet)					

VIII. Scheduled Dates Demolition or Renovation: Start: 7/9/01 Complete: 7/23/01

IX. Dates for Asbestos Removal (MM/DD/YY) Start: NA Complete:

Days of the Week:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Hours of Operation							

Complete all unshaded spaces, except demolitions which involve less than 260 linear feet, 160 square feet, or 35 cubic feet of RACM, need not complete spaces VII. XI,XII,XIII,XIV, and XV. Notifications for Emergency Demolition or Emergency Renovation must supply attachments.

OHIO ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF DEMOLITION AND RENOVATION

X. Description of planned Demolition or Renovation work to be performed and method(s) to be employed, including demolition or renovation techniques to be used and description of affected facility components:

Demolition of the entire building of each structure utilizing heavy tracked equipment.

XI. Description of work practices and engineering controls to be used to comply with the requirements, including asbestos removal and waste handling emission control procedures:

NA

XII Waste Transporter #1

Name: NA
Address:
City: State: Zip Code:
Contact: Telephone: ( ) Fax: ( )

Waste Transporter #2

Name:
Address:
City: State: Zip Code:
Contact: Telephone: ( ) Fax: ( )

XIII. Waste Disposal

Name: NA
Address:
City: State: Zip Code:
Contact: Telephone: ( ) Fax: ( )

XIV. Emergency Demolition (complete Item XIV and all other sections, only if this project is an Emergency Demo.)

1. Attach a copy of the Order to this notice. NA
2. Name of Authority Issuing Order: Title:
3. Authority of Order (Citation of Code):
4. Date of Order (MM/DD/YY): Date Ordered to Begin:

XV. Emergency Renovation (Attach separate sheet with the following information if project is Emergency Reno.)

1. Date and Hour of the Emergency NA
2. Description of the Sudden, Unexpected Event
3. Explanation of how the event caused unsafe conditions or equipment damage or an unreasonable financial burden.

XVI. Description of procedures to be followed in the event that unexpected RACM is found or nonfriable ACM becomes crumbled, pulverized or reduced to powder. Stop work immediately, clear the persons in the work area away from the effected zone, contact the Health & Safety Officer and the Asbestos Hazard Evaluation Specialist.

XVII. I certify that an individual trained in the provisions of NESHAPS (40 CFR PART 61, SUBPART M) will be on-site during the Demolition or Renovation and evidence that the required training has been accomplished by this person will be available during normal business hours.

Signature of Owner/Operator	Date	Type or Print Name and Title
[signature]	6/26/01	Todd Struttman V-P

XVIII. I acknowledge the existence of laws prohibiting the submission of false or misleading statements and I certify that facts contained in this notification are true, accurate, and complete.

Signature of Owner/Operator	Date	Type or Print Name and Title
[signature]	6/26/01	Todd Struttman Vice President

Original Notification must be mailed or hand delivered at least ten working days (Monday-Friday excluding weekends) before demolition or renovation begins, except emergency demolitions and emergency renovations (see regulation) which must be submitted as soon as possible before operations begin. (Form Revised 11/12/97)

APPENDIX D
DEMOLITION PERMIT

GRANVILLE
PLANNING & ZONING

Date: June 26, 2001

Sharp & Associates, Inc.	300 Palmer Lane
Applicant's Name	**Address of Proposed Project**

CSD	01-084	06-01-064
Zoning District of Project	**Application Number**	**Permit No.**

After review of your application and plans, you are hereby granted a **Demolition Permit**. If you begin demolition before you receive the Demolition Permit, you will be in violation of Section 1137.08 of the Granville Codified Ordinances and subject to the penalty described therein.

Enclosed is a copy of the approved application

All demolition projects must begin within *twelve* (12) months from the date of final approval and be completed within *twenty-four* (24) months. Extensions of the time period must be requested in writing to the Village Manager.

The decision of the Village Planner may be appealed in writing to the Board of Zoning and Building Appeals within ten (10) days after latest date of approval. All appeals must be filed with the Village Clerk.

Sincerely,

Seth T. Dorman
Village Planner

Enclosure(s)

141 East Broadway ▪ P.O. Box 514 ▪ Granville, Ohio 43023 ▪ 740.587.0707 ▪ FAX 587.0128

RECEIVED

JUN 25 2001

VILLAGE OF GRANVILLE

VILLAGE OF GRANVILLE

Date Received: _____

Application #: 01-084
Permit #: 06-01-064

DEMOLITION PERMIT APPLICATION

In accordance with the current Village Ordinances and Regulations, the undersigned hereby applies for a demolition permit to do the following:

1. Property Owner's Name: Granville Solvents Site Response Management Group c/o Sharp and Associates, Inc.
2. Address of Project: 300 Palmer Lane, Granville, OH 43023

   Home Phone: N/A Work Phone: (614) 841-4650

3. Zoning District: CSD

   Check Overlay District: Architectural ___ Flood Plain ___ N/A X
   Transportation ___ Wellhead ___

4. Type of Structure: Three old storage buildings
5. Reason for Demolition: Site beautification and remediation.

6. Is the Structure Serviced by:

   Village Water [ ] YES [X] NO Village Sewer [ ] YES [X] NO

7. If the property is located in the Architectural Review Overlay District (AROD), the application will need to be reviewed and approved by the Planning Commission. The following will need to attached to the application:
   #7 does not apply the structure is not located in the AROD.
   a) Statement giving a brief history of the structure to include the date the structure was built, former owners, and a description of any special architectural features.
   b) Photographs of the structure and any special architectural features.
8. Applicable Zoning Permit Fee for a Demolition: ~~$20.00~~ $35.00

   Date Paid: 6-25-01 Receipt Number: 7257

I certify that I have read and understand the above information and that I have answered the questions truthfully to the best of my knowledge.

Applicant's Signature Date: 6/22/01

****

FOR OFFICE USE ONLY:

Planning Commission Approval: NA Date: —

Required Signatures for Zoning Permit Approval:

6-26-01
Date Approved Zoning Inspector / Village Planner

6-26-01
Date Approved Village Manager

Revised: 2-10-95

APPENDIX E

REQUESTED LETTER FROM THE VILLAGE OF GRANVILLE AND THE ZONING AND ARCHITECTURAL PERMIT

SHARP
AND ASSOCIATES, INC.
Environmental Engineers,
Scientists, and Contractors

982 Crupper Avenue
Columbus, Ohio 43229
(614) 841-4650
FAX: (614) 841-4660

August 17, 2001

Seth Dorman
Village Planner
141 East Broadway
P.O. Box 514
Granville, Ohio 43023

Subject: Notification of Temporary Installation

Mr. Dorman;

This letter serves to notify Granville Planning and Zoning of a temporary building installation at the Granville Solvents Site, 300 Palmer Lane in Granville, Ohio. This installation is part of on-going work at the site and is not a permanent structure. It is anticipated that the installation will be on the site for at least one year. As discussed with you and Troy Zimmerman of our office, we understand that a building permit is not required for the temporary installation.

The temporary installation at the site includes an 8' x 40' steel-walled portable building that houses mechanical equipment including blowers, compressors, piping, power distribution panel, control panel, and miscellaneous fittings. The portable building includes passive vents, exhaust fans, heaters, and lighting fixtures. Power to the portable building is provided from the existing electric service on the site.

If you have any questions regarding this installation, please call me at (614) 841-4650.

Sincerely,
Sharp and Associates, Inc.

Julia A. Miller, PE
Project Manager

Cc: file 1128
T. Struttmann
B. Brewer
B. Pfefferle

VILLAGE OF GRANVILLE

ate Received: _____ Application # : _____

Meeting date: _____ Permit # : _____

CSD
Zoning District

—
Overlay District

ZONING & ARCHITECTURAL PERMIT APPLICATION*

In accordance with current Codified Ordinances & Regulations of Granville, the undersigned hereby applies for a permit to do the following:

1. Check Type of Property Use: Residential ___ Commercial ___ Institutional ___ Other ✓ (Clean-Up)
2. Is this a change of use? Yes ___ No ✓
3. Sharp and Associates, Inc. /Granville Solvents Site Response Management Group
   Applicant's Name /Owner's Name
4. (a) 300 Palmer Lane, Granville, Ohio 43023 / 982 Crupper Avenue, Columbus, Ohio 43229
   Address of Property /Applicant Mailing address (if different)
   (b) Home Phone: N/A Work Phone: 614-841-4650
   (c) Contact person phone (if different) : Julia Miller
   (d) Mailing Address of Owner (if different): 10805 Cahill Road, Raleigh, NC 27614
5. Project type: New Structure ___ Addition ___ Remodeling ___ Other (fences, a/c units,etc.) ✓ Excavation ___
6. Description of Project: (Speak to timeframe for this installation)
   A temproary 8' x 40' steel building was installed on August 9, 2001. The temporary building contains various blowers, transfer pumps, generators, etc. to help facilitate site remediation.
7. Square footage of footprint of structures (existing & proposed):

X

TOTAL: _____ 320 square feet

1ST FLOOR: NA SQ.FT. 2ND FLOOR: NA SQ.FT. 3rd FLOOR: NA SQ.FT

BASEMENT: NA SQ.FT. GARAGE: NA SQ.FT. OTHER: 320 SQ.FT.

8. *Any modification to approved plans must be submitted and reviewed prior to implementing the changes.*

9. A *Certificate of Occupancy* must be requested of the Village Planning Department and received by the owner prior to occupancy of a new structure or a change of use.

Your project will be evaluated upon completion to insure construction as approved. Any variation from the approval is a violation of the Codified Ordinances [Chapter 1137.07]. The property owner is ultimately responsible to follow any applicable laws and regulations.

* May require a building permit from the **Building Code Department** (675 Price Road, Newark, Ohio 740-349-6893).

11. Contractor:
Name: Sharp and Associates, Inc.
Address: 982 Crupper Avenue, Columbus, Ohio 43229
Contact Phone: 614-841-4650

12. Estimated Cost of project: $30,000

13. **I certify that I have read and understand the above information and that I have answered the questions completely and truthfully to the best of my knowledge. I also understand it is ultimately my responsibility to insure the finished project is in compliance with all zoning regulations. I give the Village the authority to inspect my property in reviewing the application and for compliance with the permit following approval.**

Applicant's Signature _____ *Date* _____

14. A Zoning & Architectural Permit sign (issued by the Village) must be displayed in a location on the property visible to the street.

FOR OFFICE USE ONLY

ZONING & ARCHITECTURAL PERMIT APPROVAL

1. Conditions for Zoning Permit Approval:
Applicant shall comply with Village of Granville Ordinances and Regulations.

2. Required Signatures for Zoning Permit Approval:

Date Approved _____ Village Planner _____

Date Approved _____ Village Manager _____

If applicable:
Planning Commission Approval: _____ Date: _____

Board of Zoning and Building Appeals Approval: _____ Date: _____

Applicable Fees:
Permit Fee: $_____ Date Paid: _____
Other Fees: $_____
TOTAL FEE: $_____ Receipt #: _____

APPENDIX F
BILLS OF LADING, NON-HAZARDOUS, AND HAZARDOUS WASTE MANIFESTS

SHIPPER NO. AWMS I.D. #33410

CARRIER NO.

DATE: 7/13/01

THIS MEMORANDUM is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.
RECEIVED, subject to the classifications and tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.

NAME (CARRIER) Masser Metals & Recycling (SCAC)

TO		FROM	
CONSIGNEE	Masser Metals & Recycling	SHIPPER	Granville Solvents PRP Group
STREET	3103 Lamb Avenue	STREET	300 Palmer Lane
DESTINATION	Columbus STATE OH ZIP 43219	ORIGIN	Granville STATE OH ZIP 43023

ROUTE:

U.S. DOT Hazmat Reg. No.	VEHICLE NUMBER

NO. SHIPPING UNIT	O HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		Scrap Metal for Recycling	est 1.5 ton 2 ton actual	NA	NA	

REMIT C.O.D. TO:
ADDRESS:
CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:
PREPAID ☐
COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".
Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES
Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packed, marked, and labeled/placarded, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: Granville Solvents PRP Group

CARRIER: Masser Metals & Recycling

PER:

PER:

DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: 614 895-5201

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b)

3

FORM NO. 11-BLC-04 (Rev. 3/95)

SHIPPER NO. AWMS I.D. #33410

STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

CARRIER NO.

DATE: 7/16/01

NAME (CARRIER) Masser Metals & Recycling (SCAC)

TO		FROM	
CONSIGNEE	Masser Metals & Recycling	SHIPPER	Granville Solvents PRP Group
STREET	3103 Lamb Avenue	STREET	300 Palmer Lane
DESTINATION	Columbus STATE OH ZIP 43219	ORIGIN	Granville STATE OH ZIP 43023

ROUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

NO. SHIPPING UNIT	HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		Scrap Metal for Recycling LOAD #2	Est 11 ton	—	—	—
		≈4 ton Actual				

REMIT C.O.D. TO:

ADDRESS:

CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:

PREPAID ☐

COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES

Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packed, marked, and labeled/placarded, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: Granville Solvents PRP Group

CARRIER: Masser Metals & Recycling

PER: [signature]

Troy K. Zimmerman

PER:

DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: (614) 895-5201

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b)

FORM NO. 11-BLC-04 (Rev. 3/95)

SHIPPER NO. AWMS I.D. #33410

STRAIGHT BILL OF LADING—SHORT FORM—Original—Not Negotiable

CARRIER NO.

DATE: 7/18/01

NAME (CARRIER) Masser Metals & Recycling (SCAC)

TO		FROM	
CONSIGNEE	Masser Metals & Recycling	SHIPPER	Granville Solvents PRP Group
STREET	3103 Lamb Avenue	STREET	300 Palmer Lane
DESTINATION	Columbus STATE OH ZIP 43219	ORIGIN	Granville STATE OH ZIP 43023

ROUTE:

U.S. DOT Hazmat Reg. No.

VEHICLE NUMBER

NO. SHIPPING UNIT	O HM	Description of articles, special marks, and exceptions	*WEIGHT (Subject to correction)	Class or Rate	CHARGES (For carrier use only)	Check column
1		Scrap Metal for Recycling LOAD #3	est. 3.5 ton	—	—	—

REMIT C.O.D. TO:

ADDRESS:

CITY: STATE ZIP

COD AMT: $

C.O.D. Fee:

PREPAID ☐

COLLECT ☐ $

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight".

Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES

Freight Prepaid except when box at right is checked ☐ Check box if charges to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packed, marked, and labeled/placarded, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation PER:

SHIPPER: Granville Solvents PRP Group

CARRIER: Masser Metals & Recycling

PER: Troy K. Zimmerman

PER:

DATE:

EMERGENCY RESPONSE TELEPHONE NUMBER: (614) 895-5201

MONITORED AT ALL TIMES THE HAZARDOUS MATERIAL IS IN TRANSPORTATION INCLUDING STORAGE INCIDENTAL TO TRANSPORTATION. (172.604)

Mark with "X" to designate Hazardous Material as defined in The Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on Bills of Ladings per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

FORM NO. 11-BLC-O4 (Rev. 3/95)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412

Manifest Document No. 1 2 B 1

2. Page 1 of 1

Generator's Name and Mailing Address
ATTNPRP Group
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229

300 Palmer

4. Generator's Phone (614) 841-4650

5. Transporter 1 Company Name: Bonner Trucking

6. US EPA ID Number

A. Transporter's Phone: 1-800 316 9634

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Roberts Landfill
7271 Fallsburg Road
Newark OH 43055

10. US EPA ID Number

C. Facility's Phone (740) 345-0301

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Demolition Debris)	001	DT		
b.				
c.				
d.				

GENERATOR

D. Additional Descripfions for Materials Listed Above
a. c.
b. d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Customer: A. Albright #33399 c.
b. d.
24 - Hour Emergency contact: (614) 841-4650
Manifesting Non-Putrable solids

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	07	[illegible]	01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	07	11	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: OHD004495412

Manifest Document No.: 1282

2. Page 1 of 1

Generator's Name and Mailing Address
ATTNPRP Group
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229

4. Generator's Phone (614) 841-4650

300 Palmer

5. Transporter 1 Company Name: Brewer Trucking

6. US EPA ID Number

A. Transporter's Phone: 1 800-316-5631

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Roberts Landfill
7271 Fallsburg Road
Newark OH 43055

10. US EPA ID Number

C. Facility's Phone: (740) 345-0301

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Demolition Debris)	001	DT		
b.				
c.				
d.				

GENERATOR

D. Additional Descriptions for Materials Listed Above
a.
b.
c.
d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Customer: A. Albright #33399
b.
c.
d.
24 - Hour Emergency contact: (614) 841-4650
May contain asbestos [illegible]

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: [illegible] | Signature: [illegible] | Month: 07 | Day: 31 | Year: [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LEONARD D. SHAWHAN | Signature: Leonard D. Shawhan | Month: 07 | Day: 31 | Year: 01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412

Manifest Document No. 11263

2. Page 1 of 1

Generator's Name and Mailing Address
ATTNPRP Group
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229

300 Palmer

4. Generator's Phone (614) 841--4650

5. Transporter 1 Company Name

6. US EPA ID Number

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Roberts Landfill
7271 Fallsburg Road
Newark OH 43055

10. US EPA ID Number

C. Facility's Phone
(740) 345-0301

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Demolition Debris)	001	DT	00014	
b.				
c.				
d.				

GENERATOR

Additional Descriptions for Materials Listed Above
a.
b.
c.
d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Customer: A. Albright #33399
b.
c.
d.
24 - Hour Emergency contact: (614) 841-4650
May Contain Non Friable Asbestos

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Troy Zimmerman	[signature]	07	16	01

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
LEONARD SHAUGHAN	[signature]	07	16	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

41

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412
Manifest Document No. 1128.1
2. Page 1 of 1

Generator's Name and Mailing Address
ATTN
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229
300 Palmer

4. Generator's Phone (614) 841--465 0

5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone
Republic Services/Pinegrove Landfill
5131 Drinkle Road
Amanda OH 43102
(740) 969-4487

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Concrete and Debris)	001	DT	OST 00020	T
b. G - 85240				
c. T - 34800				
d. N - 50440 25.22				

Additional Descriptions for Materials Listed Above
a. c.
b. d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Approval #AWMS ID #33427 c.
b. d.
24 - Hour Emergency contact: (614) 841-4650
Republic Approval # RPG-00-0398

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: Troy K. Zimmerman | Signature | Month 07 Day 19 Year 01

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Barbara Shawhan | Signature: Barbara Shawhan #91 | Month 07 Day 19 Year 01

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Ray King | Signature: Ray King | Month 07 Day 19 Year 01

GENERATOR
TRANSPORTER
FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC. 1-800-327-6868
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

Pine Grove Landfill / Republic Services
5131 Drinkle Rd.
Amanda, OH 43101
(740) 969-4487 (740) 969-4711 FAX

TICKET: 35902
DATE: 07/19/2001
TIME: 09:48 - 10:25

CUSTOMER: NEW918 / AMERICAN WASTE MANAGEMENT SERVICES
GENERATOR: GRAN SOLV / GRANVILLE SO
ORIGIN: LICK / Licking W.O.:
TRUCK: 91 LICENSE: BARBARA
ROUTE: /
COMMENT: GRANVILLE SOLV CONC MAN# 11281

P.O.: 33427
GROSS: 85240 LBS
TARE: 34800 LBS
NET: 50440 LBS
WO:
Profile: RPG000398

WASTE	QUANTITY	UNIT	RATE	AMOUNT
ISW / INDUSTRIAL SOLID WASTE	25.22	T	$	$
Mandatory Fees	25.22	T	$	$
			Total:	$

DRIVER: Barb Shrewbar #91

WEIGHMASTER: Kay

IN: KAY KING B: PINELAND OUT: KAY KING B: PINELAND

411D

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412
Manifest Document No. 1128.2
2. Page 1 of 1

3. Generator's Name and Mailing Address
ATTN
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229
300 Palmer
4. Generator's Phone (614) 841--465 0

5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone

7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone

9. Designated Facility Name and Site Address
Republic Services/Pinegrove Landfill
5131 Drinkle Road
Amanda OH 43102
10. US EPA ID Number
C. Facility's Phone
(740) 969-4487

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Concrete and Debris)	001	DT	est 00020	T
b. G - 80720				
c. T - 31840				
d. N - 48880 2444				

D. Additional Descriptions for Materials Listed Above
a. c.
b. d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Approval #~~ADMS ID~~ #33427 c.
b. d.
24 - Hour Emergency contact: (614) 841-4650
Republic Approval # RPG-00-0398

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Troy K. Zimmerman	T K Z	10	11	01

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
LEONARD D SHAWHAN	Leonard D Shawhan	10	11	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Kay King	Kay King	10	11	01

GENERATOR
TRANSPORTER
FACI

Printed by J.J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

Pine Grove Landfill / Republic Services
5131 Drinkle Rd.
Amanda, OH 43101
(740) 969-4487 (740) 969-4711 FAX

TICKET: 35901
DATE: 07/19/2001
TIME: 09:45 - 10:22

CUSTOMER: NEW918 / AMERICAN WASTE MANAGEMENT SERVICES
GENERATOR: GRAN SOLV / GRANVILLE SO
ORIGIN: LICK / Licking W.O.:
TRUCK: 91B LICENSE: LEONARD
ROUTE: /
COMMENT: CONCRETE & DEBRIS GRANVILLE SOLVENTS

P.O.: 33427
GROSS: 80720 LBS
TARE: 31840 LBS
NET: 48880 LBS
WO:
Profile: RPG000398

WASTE	QUANTITY	UNIT	RATE	AMOUNT
ISW / INDUSTRIAL SOLID WASTE	24.44	T	$	$
Mandatory Fees	24.44	T	$	$

Total: $

DRIVER: Leonard D Shanks #913

WEIGHMASTER: Kay

IN: KAY KING B: PINELAND OUT: KAY KING B: PINELAND

Pine Grove Landfill / Republic Services
5131 Drinkle Rd.
Amanda, OH 43101
(740) 969-4487 (740) 969-4711 FAX

TICKET: 35940
DATE: 07/19/2001
TIME: 14:19 → 15:01

CUSTOMER: NEW918 / AMERICAN WASTE MANAGEMENT SERVICES
GENERATOR: GRAN SOLV / GRANVILLE SO
ORIGIN: LICK / Licking W.O.:
TRUCK: 91B LICENSE: LEONARD
ROUTE: /
COMMENT: GRANV SOLV CONCRETE MAN# 11283

P.O.: 33427
GROSS: 80500 LBS
TARE: 31760 LBS
NET: 48740 LBS
WO:
Profile: RPG000398

WASTE	QUANTITY	UNIT	RATE	AMOUNT
ISW / INDUSTRIAL SOLID WASTE	24.37	T	$	$
Mandatory Fees	24.37	T	$	$

Total: $

DRIVER: Leonard D. Shaulin #9213

WEIGHMASTER: [illegible]

IN: KAY KING B: PINELAND OUT: KAY KING B: PINELAND

41D

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412

Manifest Document No. 11283

2. Page 1 of 1

Generator's Name and Mailing Address
ATTN
Granville Solvents c/o Sharp & Assoc.
982 Grupper Avenue Columbus, OH 43229

300 Palmer

4. Generator's Phone (614) 841--4650

5. Transporter 1 Company Name: Perner Trucking

6. US EPA ID Number

A. Transporter's Phone: 1-800-346-9634

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Republic Services/Pinegrove Landfill
5131 Drinkle Road
Amanda OH 43102

10. US EPA ID Number

C. Facility's Phone: (740) 969-4487

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Concrete and Debris)		DT		T
b. G 80500				
T 31760				
c. N 48740 24.37 tons				
d.				

Additional Descriptions for Materials Listed Above

a.

b.

c.

d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

a. Approval #AWMS 7D #33427

b.

c.

d.

24 - Hour Emergency contact: (614) 841-4650

Republic Approval # RPG-00-0398

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Troy K. Zimmerman | Signature: [signature] | Month 07 Day 19 Year 01

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: LEONARD D SHAUGHAN | Signature: [signature] | Month 07 Day 19 Year 01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: C. Coleman | Signature: [signature] | Month 07 Day 19 Year 01

GENERATOR

TRANSPORTER

FACILITY

Printed by J. KELLER & ASSOCIATES, INC. Neenah, WI 54956 (414) 725-4848

ORIGINAL - RETURN TO GENERATOR

Pine Grove Landfill / Republic Services
5131 Drinkle Rd.
Amanda, OH 43101
(740) 969-4487 (740) 969-4711 FAX

TICKET: 35941
DATE: 07/19/2001
TIME: 14:20 → 15:03

CUSTOMER: NEW918 / AMERICAN WASTE MANAGEMENT SERVICES
GENERATOR: GRAN SOLV / GRANVILLE SO
ORIGIN: LICK / Licking W.O.:
TRUCK: 91 LICENSE: BARBARA
ROUTE: /
COMMENT: GRANV SOLV CONCRETE MAN# 11284

P.O.: 33427
GROSS: 79560 LBS
TARE: 34780 LBS
NET: 44780 LBS
WO:
Profile: RPG000398

WASTE	QUANTITY	UNIT	RATE	AMOUNT
ISW / INDUSTRIAL SOLID WASTE	22.39	T	$	$
Mandatory Fees	22.39	T	$	$

Total: $

DRIVER: B Shanahan #91

WEIGHMASTER:

IN: KAY KING B: PINELAND OUT: KAY KING B: PINELAND

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412

Manifest Document No. 1.1.2.84

2. Page 1 of 1

Generator's Name and Mailing Address ATTN
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229

300 Palmer

4. Generator's Phone (614) 841--465 0

5. Transporter 1 Company Name: Berner Trucking
6. US EPA ID Number
A. Transporter's Phone: 1-800-346-9634

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Republic Services/Pinegrove Landfill
5131 Drinkle Road
Amanda OH 43102

10. US EPA ID Number
C. Facility's Phone: (740) 969-4487

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Concrete and Debris)	001	DT	est 00022	T
b. G-79560				
c. T 34780 22.39				
d. N 44780				

Additional Descriptions for Materials Listed Above
a.
b.
c.
d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Approval #AWMS ID #33427
b.
c.
d.
24 - Hour Emergency contact: (614) 841-4650

Republic Approval # RPG-00-0398

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Troy R. Zimmerman
Signature: [signature]
Month 07 Day 19 Year 01

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Barbara Shawhan
Signature: Barbara Shawhan #91
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: C. Coleman
Signature: [signature]
Month 07 Day 19 Year 01

GENERATOR
TRANSPORTER
FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54956 (800) 558-5011

ORIGINAL - RETURN TO GENERATOR

Pine Grove Landfill / Republic Services
5131 Drinkle Rd
Amanda, OH 43101
(740) 969-4487 (740) 969-4711 FAX

TICKET: 35974
DATE: 07/20/2001
TIME: 09:41 - 10:25

CUSTOMER: NEW918 / AMERICAN WASTE MANAGEMENT SERVICES
GENERATOR: GRAN SOLV / GRANVILLE SO
ORIGIN: LICK / Licking W.O.:
TRUCK: 91B LICENSE: LEONARD
ROUTE: /
COMMENT: CONCRETE & DEBRIS MAN# 11285

P.O.: 33427
GROSS: 59320 LBS
TARE: 31980 LBS
NET: 27340 LBS
WO:
Profile: RPG000398

WASTE	QUANTITY	UNIT	RATE	AMOUNT
ISW / INDUSTRIAL SOLID WASTE	13.67	T	$	$
Mandatory Fees	13.67	T	$	$

Total: $

DRIVER: Leonard D Shanlon #91B

WEIGHMASTER: Kay

IN: KAY KING B: PINELAND OUT: KAY KING B: PINELAND

Please print or type
Form designed for use on elite (12-pitch) typewriter.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412
Manifest Document No. 1128.5
2. Page 1 of 1

Generator's Name and Mailing Address
ATTN
Granville Solvents c/o Sharp & Assoc.
982 Crupper Avenue Columbus, OH 43229
300 Palmer

4. Generator's Phone (614) 841--465 0

5. Transporter 1 Company Name: Bemer Trucking
6. US EPA ID Number
A. Transporter's Phone: 1-800-346-9634

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Republic Services/Pinegrove Landfill
5131 Drinkle Road
Amanda OH 43102
10. US EPA ID Number
C. Facility's Phone: (740) 969-4487

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-RCRA/Non-DOT Regulated Solid (Concrete and Debris)	0.01	DT	est 0.0.0.15	T
b. G - 59320				
c. T - 31980				
d. N - 27340 13.67				

D. Additional Descriptions for Materials Listed Above
a.
b.
c.
d.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a. Approval #AWMS ID #33427
b.
c.
d.
24 - Hour Emergency contact: (614) 841-4650
Republic Approval # RPG-00-0398

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Troy K. Zimmerman	Troy K. Z	07	19	01

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
LEONARD D SHAUGHAN	Leonard D Shaughan	07	19	01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Kay King	Kay King	07	20	01

GENERATOR
TRANSPORTER
FACI

Printed by J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

WASTE MANAGEMENT DIVISION
MICHIGAN DEPARTMENT OF
ENVIRONMENTAL QUALITY

DO NOT WRITE IN THIS SPACE
ATT. ☐ DIS. ☐ REJ. ☐ PR. ☐

Required under authority of Part 111 and Part 121 of Act 451, 1994, as amended.

Failure to file may subject you to criminal and/or civil penalties under Sections 324.11151 or 324.12115 MCL.

print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD004495412 — Manifest Document No. 33433
2. Page 1 of 1
Information in the shaded ar is not required by Fede law.

3. Generator's Name and Mailing Address Granville Solvents PRP Group
c/o Sharp and Associates, Inc., Attention: Troy Zimmerman
982 Crupper Avenue, Columbus, Ohio 43229

4. Generator's Phone (614) 841-4650

A. State Manifest Document Number MI 7515
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (800) 992-5329

5. Transporter 1 Company Name Berner Trucking Inc — 6. US EPA ID Number OHD049371643
7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 North I-94 Service Drive
Belleville, Michigan 48111
— 10. US EPA ID Number MID 048 090 633

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	X	RQ, Hazardous Waste Solid, n.o.s., 9, 3077, PGIII (contains tetrachloroethylene, vinyl chloride)	001	DT	0006 est	T	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Stabilized Septic Sludge and Debris
EQ Approval #082301WAF
American Waste Management Waste ID#33433

K. Handling Codes

15. Special Handling Instructions and Additional Information
ERG171
Emergency Response No. (614) 893-3829
Technical Contact: Adam Albright (614) 286-8939
Site Address: 300 Palmer Lane
Granville, Ohio 43023

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name — Signature — Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date Month Day Year

19. Discrepancy Indication Space
Adam Albright@AWM
8-30-C

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date Month Day Year

GENERATOR
TRANSPORTER
FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER 800-424-8802 24 HOURS PER DAY.

LAND DISPOSAL RESTRICTION & CERTIFICATION FORM 6/98

Please check the facility you are shipping to:

☐ Michigan Disposal Waste Treatment Plant
(Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 000 724 831

☒ Wayne Disposal, Inc.
Subtitle C Landfill
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
EPA ID # MID 048 090 633

☐ Michigan Recovery Systems, Inc.
(Solvent Recycling, Fuel Blending & Wastewater Treatment)
36345 Van Born Road
Romulus, MI 48174
EPA ID # MID 060 975 844

Generator Name Granville Solvents PRP Group Generator USEPA ID No. OHD004495412

Generator Address 300 Palmer Lane, Granville, Ohio 43023

State Manifest No. _____ Manifest Doc. No. _____

INSTRUCTIONS

- In Column 1 identify all USEPA hazardous waste codes that apply to this waste shipment.
- In Column 2, choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
- In Column 3, enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49(c) (soil) or 268.45 (debris).
- In Column 4, circle the letter of the appropriate paragraph from Pages 1-2 of this form.
- In Column 5, for F001-F005, F039, D001-D043, Debris & Contaminated Soil wastes, enter the Reference Number(s) from the EQ Resource Guide--LDR/UHC Constituent Table for any constituents subject to treatment in your waste stream.

Manifest Line Item #	1. USEPA HAZARDOUS WASTE CODE(S)	2. NWW or WW	3. SUBCATEGORY	4. HOW MUST THE WASTE BE MANAGED? (Circle one).	5. REFERENCE NUMBER(S) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil & Debris wastes.
11.A	F002	☒ NWW ☐ WW		A B C D (E) F G H I J K L M S	
11.B		☐ NWW ☐ WW		A B C D E F G H I J K L M S	
11.C		☐ NWW ☐ WW		A B C D E F G H I J K L M S	
11.D		☐ NWW ☐ WW		A B C D E F G H I J K L M S	

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature [signature] for Granville Solvents PRP Management Group Title Waste Disposal Coordinator

Printed Name Troy K. Zimmerman Date 08/22/01

HOW MUST THE WASTE BE MANAGED?

For 5, circle the appropriate response for the 3 *italicized* options:

5. THIS CONTAMINATED SOIL *DOES / DOES NOT* (CIRCLE ONE) CONTAIN LISTED HAZARDOUS WASTE AND *DOES / DOES NOT* (CIRCLE ONE) EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO / COMPLIES WITH* (CIRCLE ONE) THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 7775158

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

FORM1020 (3/96)