

**Fax Transmittal Sheet**

Date 7/18/2003  
From Ben Holly

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To Mr. Paul Smith - Livermore Pleasanton Fire Department  
Cc: Mr. Barney Chan - Alameda County Environmental Health  
RE: Case RO0002571 (Saturn of Pleasanton Oil/Water Separator Removal and Replacement)  
Fax Number (925) 454-2339 and (510) 337-9335

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**Message**

Mr. Smith:

To assist you with the coordination of our sampling requirements and the e-mail I sent earlier today, I've attached a summary table with our preliminary analytical results, a figure showing the approximate sample locations and depths, and the preliminary data. In addition to these results, and the analysis discussed in my last e-mail, I've discussed the condition of the excavation with Bob Siegfried. We can also analyze the next round of samples for VOCs along the south sidewall and from the bottom of the excavation. I asked the Bob Siegfried give you a call this afternoon to coordinate between yourself and the comments of Mr. Chan and Mr. Roger Brewer, who I understand is from the Water Quality Control Board.

Thank you,  
Ben Holly  
(734) 453-5123

SUMMARY OF PRELIMINARY SOIL ANALYTICAL RESULTS  
 SATURN OF PLEASANTON  
 OIL/WATER SEPARATOR REMOVAL  
 4340 ROSEWOOD DRIVE  
 PLEASANTON, CALIFORNIA

Jul-18-03 17:23

From-

		ALL RESULTS SHOWN ARE IN PARTS PER MILLION OR MILLIGRAMS PER KILOGRAM (MG/KG)							
		FIRST SAMPLING ROUND ON 7/8/2003					SECOND SAMPLING ROUND ON 7/11/2003		
Sample Location		West Excavation Bottom	East Excavation Bottom	West Sidewall	East Sidewall	South Sidewall	North Sidewall	East Sidewall	North Sidewall
Sample ID		BW-1	BE-2	WW-3	EW-4	SW-5	NW-6	EW-7	NW-8
Approximate Sample Depth (Feet)		13.5	13.5	10	10.5	10	10.5	10.5	10
Detected Analyte	RWQCB RBSL <sup>1</sup> Commercial/Industrial Land Use (mg/kg)								
Acetone	0.24	<1.5	0.19	<0.03	0.22	<1.2	<1.4	<0.023	<0.025
2-Butanone	NL	<1.5	0.014 J	<0.03	<0.028	<1.2	<1.4	<0.023	<0.025
Carbon Disulfide	NL	<0.37	0.0098	<0.0074	0.0095	<0.3	<0.34	<0.0058	0.00041 J
Cyclohexane	NL	<0.74	<0.015	<0.015	0.00074 J	<0.59	<0.68	<0.012	<0.012
cis-1,2-Dichloroethene	0.19	<b>1.7</b>	<b>0.19</b>	0.0038	<b>0.28</b>	<b>0.43</b>	<b>2.4</b>	0.12	0.057
trans-1,2-Dichloroethene	0.65	<0.37	0.0072	<0.0037	0.012	<0.15	<0.17	0.0016 J	0.0021 J
Ethylbenzene	2.5	<0.37	0.0037 J	<0.0074	0.0086	<0.3	<0.34	<0.0058	<0.0062
Isopropylbenzene	NL	<0.37	<0.0075	<0.0074	<0.0071	<0.3	<0.34	<0.0058	<0.0062
Methylene chloride	0.076	<0.37	<0.0075	<0.0074	<0.0071	<0.3	<0.34	0.004 J	0.0042 J
Methylcyclohexane	NL	<0.74	0.00075 J	<0.015	0.0029 J	<0.59	<0.68	<0.012	<0.012
4-Methyl-2-pentanone	NL	<1.5	0.0042 J	<0.03	0.0047 J	<1.2	<1.4	<0.023	<0.025
Tetrachloroethene	0.53	<0.37	<0.0075	0.00082 J	<0.0071	<0.3	<0.34	0.017	0.071
Toluene	2.6	<0.37	0.0057 J	<0.0074	0.011	<0.3	<0.34	<0.0058	<0.0062
Trichloroethene	0.4	<0.37	<0.0075	0.0014 J	0.00094 J	<0.3	<0.34	0.02	0.1
1,2,4-Trichlorobenzene	15	<0.37	0.0012 J	<0.0074	<0.0071	<0.3	<0.34	<0.0058	<0.0062
1,1,2-Trichloro-1,2,2-trifluoroethane	NL	<0.37	0.0027 J	0.0021 J	<0.0071	<0.3	<0.34	<0.0058	<0.0062
Xylenes (total)	1	<0.74	0.022	<0.015	0.067	<0.59	<0.68	<0.012	<0.012
Methyl tert-butyl ether	0.028	<1.5	0.00057 J	<0.03	<0.028	<1.2	<1.4	<0.023	<0.025
TPH (as Diesel)	100	19	19	50	49	14	6.8 J	<13	5.9 J
TPH (as Gasoline)	100	0.28	TBP	<0.13	TBP	TBP	0.32	<13	<13

Notes:

<sup>1</sup> San Francisco Regional Water Quality Control Board Risk Based Screening Levels, December, 2001, Table C  
 J - Estimated Value mg/kg - milligrams per kilogram NL - Not Listed TBP - To be provided  
 Maximum Detected Concentrations in **BOLD** Exceed the Applicable RBSL Value  
 <0.37 Value is Less Than the Applicable Method Detection Limit

T-065

P.02

F-480

PROJECT No: 0177366-30

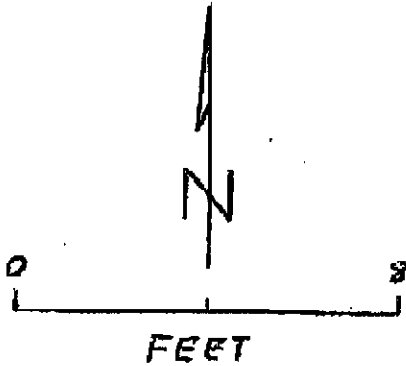
DATE: 7/16/03

PROJECT NAME: SATURN OF PLEASANTON

CHECKED BY:

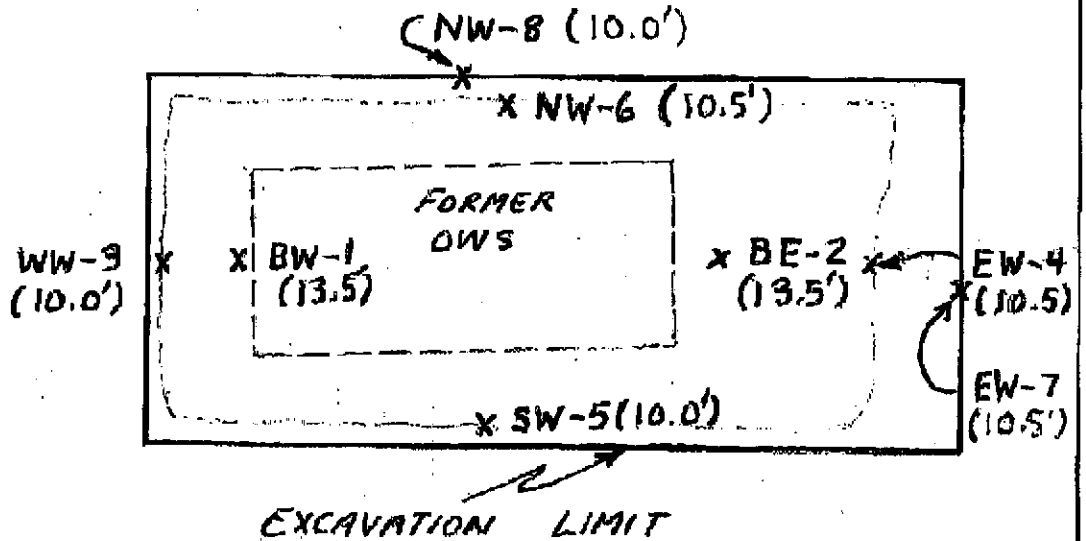
DESIGNED BY: RTS

PAGE 1 OF 1



### SATURN OF PLEASANTON OWS REMOVAL/REPLACEMENT

REPAIR  
SHOP



**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

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 The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.  
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ENCORE Environmental Consultant PAGE 1

Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: BW-1

Sample #: 001 Date Sampled: 07/08/03 13:00 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS

In Review

Acetone	ND	1500	ug/kg	SW846 8260B
Benzene	ND	370	ug/kg	SW846 8260B
Bromodichloromethane	ND	370	ug/kg	SW846 8260B
Bromoform	ND	370	ug/kg	SW846 8260B
Bromomethane	ND	370	ug/kg	SW846 8260B
2-Butanone	ND	1500	ug/kg	SW846 8260B
Carbon disulfide	ND	370	ug/kg	SW846 8260B
Carbon tetrachloride	ND	370	ug/kg	SW846 8260B
Chlorobenzene	ND	370	ug/kg	SW846 8260B
Dibromochloromethane	ND	370	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	740	ug/kg	SW846 8260B
Chloroethane	ND	370	ug/kg	SW846 8260B
Chloroform	ND	370	ug/kg	SW846 8260B
Chloromethane	ND	370	ug/kg	SW846 8260B
Cyclohexane	ND	740	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	370	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	370	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	370	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	370	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	370	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	370	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	370	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	370	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	1700	180	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	180	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	370	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	370	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	370	ug/kg	SW846 8260B
Ethylbenzene	ND	370	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	370	ug/kg	SW846 8260B
2-Hexanone	ND	1500	ug/kg	SW846 8260B
Isopropylbenzene	ND	370	ug/kg	SW846 8260B
Methyl acetate	ND	740	ug/kg	SW846 8260B
Methylcyclohexane	ND	740	ug/kg	SW846 8260B
Methylene chloride	ND	370	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1500	ug/kg	SW846 8260B

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**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

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ENCORE Environmental Consultant PAGE 2

Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: BW-1

Sample #: 001 Date Sampled: 07/08/03 13:00 Date Received: 07/09/03 Matrix: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					In Review
Styrene	ND	370	ug/kg	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	370	ug/kg	SW846 8260B	
Tetrachloroethene	ND	370	ug/kg	SW846 8260B	
Toluene	ND	370	ug/kg	SW846 8260B	
1,2,4-Trichloro-benzene	ND	370	ug/kg	SW846 8260B	
1,1,1-Trichloroethane	ND	370	ug/kg	SW846 8260B	
1,1,2-Trichloroethane	ND	370	ug/kg	SW846 8260B	
Trichloroethene	ND	370	ug/kg	SW846 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	370	ug/kg	SW846 8260B	
Vinyl chloride	ND	370	ug/kg	SW846 8260B	
Xylenes (total)	ND	740	ug/kg	SW846 8260B	
Methyl tert-butyl ether	ND	1500	ug/kg	SW846 8260B	

Results and reporting limits have been adjusted for dry weight.

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Extractable Petroleum Hydrocarbons					Reviewed
TPH (as Diesel)	19	14	mg/kg	SW846 8015B	

Results and reporting limits have been adjusted for dry weight.

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Petroleum Hydrocarbons					In Review
TPH (as Gasoline)	280	140	ug/kg	SW846 8015B	

Results and reporting limits have been adjusted for dry weight.

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Inorganic Analysis					In Review
Total Residue as Percent Solids	73.9	10.0	%	MCAWW 160.3 MOD	

Client Sample ID: BE-2

Sample #: 002 Date Sampled: 07/08/03 13:05 Date Received: 07/09/03 Matrix: SOLID

(Continued on next page)

**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

Lot #: A3G090146 ENCORE Environmental Consultant PAGE 3  
Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: BE-2

Sample #: 002 Date Sampled: 07/08/03 13:05 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS

In Review

<b>Acetone</b>	<b>190</b>	<b>30</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
Benzene	ND	7.5	ug/kg	SW846 8260B
Bromodichloromethane	ND	7.5	ug/kg	SW846 8260B
Bromoform	ND	7.5	ug/kg	SW846 8260B
Bromomethane	ND	7.5	ug/kg	SW846 8260B
<b>2-Butanone</b>	<b>14 J</b>	<b>30</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
<b>Carbon disulfide</b>	<b>9.8</b>	<b>7.5</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
Carbon tetrachloride	ND	7.5	ug/kg	SW846 8260B
Chlorobenzene	ND	7.5	ug/kg	SW846 8260B
Dibromochloromethane	ND	7.5	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	15	ug/kg	SW846 8260B
Chloroethane	ND	7.5	ug/kg	SW846 8260B
Chloroform	ND	7.5	ug/kg	SW846 8260B
Chloromethane	ND	7.5	ug/kg	SW846 8260B
Cyclohexane	ND	15	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	7.5	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	7.5	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	7.5	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	7.5	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	7.5	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	7.5	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	7.5	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	7.5	ug/kg	SW846 8260B
<b>cis-1,2-Dichloroethene</b>	<b>190</b>	<b>3.8</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
<b>trans-1,2-Dichloroethene</b>	<b>7.2</b>	<b>3.8</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
1,2-Dichloropropane	ND	7.5	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	7.5	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	7.5	ug/kg	SW846 8260B
<b>Ethylbenzene</b>	<b>3.7 J</b>	<b>7.5</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
Trichlorofluoromethane	ND	7.5	ug/kg	SW846 8260B
2-Hexanone	ND	30	ug/kg	SW846 8260B
Isopropylbenzene	ND	7.5	ug/kg	SW846 8260B
Methyl acetate	ND	15	ug/kg	SW846 8260B
<b>Methylcyclohexane</b>	<b>0.75 J</b>	<b>15</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
Methylene chloride	ND	7.5	ug/kg	SW846 8260B
<b>4-Methyl-2-pentanone</b>	<b>4.2 J</b>	<b>30</b>	<b>ug/kg</b>	<b>SW846 8260B</b>

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## SEVERN TRENT LABORATORIES, INC.

### PRELIMINARY DATA SUMMARY

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ENCORE Environmental Consultant

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Lot #: A3G090146

Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: BE-2

Sample #: 002 Date Sampled: 07/08/03 13:05 Date Received: 07/09/03 Matrix: SOLID

**Volatile Organics by GC/MS**

In Review

Styrene	ND	7.5	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	7.5	ug/kg	SW846 8260B
Tetrachloroethene	ND	7.5	ug/kg	SW846 8260B
<b>Toluene</b>	<b>5.7 J</b>	<b>7.5</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
<b>1,2,4-Trichloro-benzene</b>	<b>1.2 J</b>	<b>7.5</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
1,1,1-Trichloroethane	ND	7.5	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	7.5	ug/kg	SW846 8260B
Trichloroethene	ND	7.5	ug/kg	SW846 8260B
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>2.7 J</b>	<b>7.5</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
Vinyl chloride	ND	7.5	ug/kg	SW846 8260B
<b>Xylenes (total)</b>	<b>22</b>	<b>15</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
<b>Methyl tert-butyl ether</b>	<b>0.57 J</b>	<b>30</b>	<b>ug/kg</b>	<b>SW846 8260B</b>

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

**Extractable Petroleum Hydrocarbons**

Reviewed

<b>TPH (as Diesel)</b>	<b>19</b>	<b>14</b>	<b>mg/kg</b>	<b>SW846 8015B</b>
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Results and reporting limits have been adjusted for dry weight.

**Volatile Petroleum Hydrocarbons**

In Review

**IN PROGRESS**

**Inorganic Analysis**

In Review

<b>Total Residue as Percent Solids</b>	<b>72.6</b>	<b>10.0</b>	<b>%</b>	<b>MCAWW 160.3 MOD</b>
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Client Sample ID: WW-3

Sample #: 003 Date Sampled: 07/08/03 13:20 Date Received: 07/09/03 Matrix: SOLID

**Volatile Organics by GC/MS**

In Review

Acetone	ND	30	ug/kg	SW846 8260B
Benzene	ND	7.4	ug/kg	SW846 8260B

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**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

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ENCORE Environmental Consultant PAGE 5

Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: WW-3

Sample #: 003 Date Sampled: 07/08/03 13:20 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS

In Review

Bromodichloromethane	ND	7.4	ug/kg	SW846 8260B
Bromoform	ND	7.4	ug/kg	SW846 8260B
Bromomethane	ND	7.4	ug/kg	SW846 8260B
2-Butanone	ND	30	ug/kg	SW846 8260B
Carbon disulfide	ND	7.4	ug/kg	SW846 8260B
Carbon tetrachloride	ND	7.4	ug/kg	SW846 8260B
Chlorobenzene	ND	7.4	ug/kg	SW846 8260B
Dibromochloromethane	ND	7.4	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	15	ug/kg	SW846 8260B
Chloroethane	ND	7.4	ug/kg	SW846 8260B
Chloroform	ND	7.4	ug/kg	SW846 8260B
Chloromethane	ND	7.4	ug/kg	SW846 8260B
Cyclohexane	ND	15	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	7.4	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	7.4	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	7.4	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	7.4	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	7.4	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	7.4	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	7.4	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	7.4	ug/kg	SW846 8260B
<b>cis-1,2-Dichloroethene</b>	<b>3.8</b>	<b>3.7</b>	<b>ug/kg</b>	<b>SW846 8260B</b>
trans-1,2-Dichloroethene	ND	3.7	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	7.4	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	7.4	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	7.4	ug/kg	SW846 8260B
Ethylbenzene	ND	7.4	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	7.4	ug/kg	SW846 8260B
2-Hexanone	ND	30	ug/kg	SW846 8260B
Isopropylbenzene	ND	7.4	ug/kg	SW846 8260B
Methyl acetate	ND	15	ug/kg	SW846 8260B
Methylcyclohexane	ND	15	ug/kg	SW846 8260B
Methylene chloride	ND	7.4	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	30	ug/kg	SW846 8260B
Styrene	ND	7.4	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	7.4	ug/kg	SW846 8260B

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**SEVERN TRENT LABORATORIES, INC.  
PRELIMINARY DATA SUMMARY**

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Lot #: A3G090146 ENCORE Environmental Consultant PAGE 6  
 Project Number: 17366-30 Date Reported: 7/10/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: **WW-3**

Sample #: 003 Date Sampled: 07/08/03 13:20 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS					In Review
Tetrachloroethene	0.82 J	7.4	ug/kg	SW846 8260B	
Toluene	ND	7.4	ug/kg	SW846 8260B	
1,2,4-Trichloro-benzene	ND	7.4	ug/kg	SW846 8260B	
1,1,1-Trichloroethane	ND	7.4	ug/kg	SW846 8260B	
1,1,2-Trichloroethane	ND	7.4	ug/kg	SW846 8260B	
Trichloroethene	1.4 J	7.4	ug/kg	SW846 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.1 J	7.4	ug/kg	SW846 8260B	
Vinyl chloride	ND	7.4	ug/kg	SW846 8260B	
Xylenes (total)	ND	15	ug/kg	SW846 8260B	
Methyl tert-butyl ether	ND	30	ug/kg	SW846 8260B	

Results and reporting limits have been adjusted for dry weight.  
 J Estimated result. Result is less than RL.

Extractable Petroleum Hydrocarbons					Reviewed
TPH (as Diesel)	50	13	mg/kg	SW846 8015B	

Results and reporting limits have been adjusted for dry weight.

Volatile Petroleum Hydrocarbons					In Review
TPH (as Gasoline)	ND	130	ug/kg	SW846 8015B	

Results and reporting limits have been adjusted for dry weight.

Inorganic Analysis					In Review
Total Residue as Percent Solids	75.1	10.0	%	MCAWW 160.3 MOD	

Client Sample ID: **EW-4**

Sample #: 004 Date Sampled: 07/08/03 13:25 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS					In Review
Acetone	220	28	ug/kg	SW846 8260B	
Benzene	ND	7.1	ug/kg	SW846 8260B	

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## SEVERN TRENT LABORATORIES, INC.

## PRELIMINARY DATA SUMMARY

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Lot #: A3G090146 ENCORE Environmental Consultant PAGE 7  
Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: EW-4

Sample #: 004 Date Sampled: 07/08/03 13:25 Date Received: 07/09/03 Matrix: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	In Review
Volatile Organics by GC/MS					In Review
Bromodichloromethane	ND	7.1	ug/kg	SW846 8260B	
Bromoform	ND	7.1	ug/kg	SW846 8260B	
Bromomethane	ND	7.1	ug/kg	SW846 8260B	
2-Butanone	ND	28	ug/kg	SW846 8260B	
Carbon disulfide	9.5	7.1	ug/kg	SW846 8260B	
Carbon tetrachloride	ND	7.1	ug/kg	SW846 8260B	
Chlorobenzene	ND	7.1	ug/kg	SW846 8260B	
Dibromochloromethane	ND	7.1	ug/kg	SW846 8260B	
1,2-Dibromo-3-chloro-propane	ND	14	ug/kg	SW846 8260B	
Chloroethane	ND	7.1	ug/kg	SW846 8260B	
Chloroform	ND	7.1	ug/kg	SW846 8260B	
Chloromethane	ND	7.1	ug/kg	SW846 8260B	
Cyclohexane	0.74 J	14	ug/kg	SW846 8260B	
1,2-Dibromoethane	ND	7.1	ug/kg	SW846 8260B	
1,2-Dichlorobenzene	ND	7.1	ug/kg	SW846 8260B	
1,3-Dichlorobenzene	ND	7.1	ug/kg	SW846 8260B	
1,4-Dichlorobenzene	ND	7.1	ug/kg	SW846 8260B	
Dichlorodifluoromethane	ND	7.1	ug/kg	SW846 8260B	
1,1-Dichloroethane	ND	7.1	ug/kg	SW846 8260B	
1,2-Dichloroethane	ND	7.1	ug/kg	SW846 8260B	
1,1-Dichloroethene	ND	7.1	ug/kg	SW846 8260B	
cis-1,2-Dichloroethene	280	3.6	ug/kg	SW846 8260B	
trans-1,2-Dichloroethene	12	3.6	ug/kg	SW846 8260B	
1,2-Dichloropropane	ND	7.1	ug/kg	SW846 8260B	
cis-1,3-Dichloropropene	ND	7.1	ug/kg	SW846 8260B	
trans-1,3-Dichloropropene	ND	7.1	ug/kg	SW846 8260B	
Ethylbenzene	8.6	7.1	ug/kg	SW846 8260B	
Trichlorofluoromethane	ND	7.1	ug/kg	SW846 8260B	
2-Hexanone	ND	28	ug/kg	SW846 8260B	
Isopropylbenzene	1.7 J	7.1	ug/kg	SW846 8260B	
Methyl acetate	ND	14	ug/kg	SW846 8260B	
Methylcyclohexane	2.9 J	14	ug/kg	SW846 8260B	
Methylene chloride	ND	7.1	ug/kg	SW846 8260B	
4-Methyl-2-pentanone	4.7 J	28	ug/kg	SW846 8260B	
Styrene	ND	7.1	ug/kg	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	7.1	ug/kg	SW846 8260B	

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**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

ENCORE Environmental Consultant PAGE 8

Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: EW-4

Sample #: 004 Date Sampled: 07/08/03 13:25 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS In Review

Tetrachloroethene	ND	7.1	ug/kg	SW846 8260B
Toluene	11	7.1	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	7.1	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	7.1	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	7.1	ug/kg	SW846 8260B
Trichloroethene	0.94 J	7.1	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	7.1	ug/kg	SW846 8260B
Vinyl chloride	ND	7.1	ug/kg	SW846 8260B
Xylenes (total)	67	14	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	28	ug/kg	SW846 8260B

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Extractable Petroleum Hydrocarbons Reviewed

TPH (as Diesel)	49	13	mg/kg	SW846 8015B
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Results and reporting limits have been adjusted for dry weight.

Volatile Petroleum Hydrocarbons In Review  
**IN PROGRESS**

Inorganic Analysis In Review

Total Residue as Percent Solids	76.6	10.0	%	MCAWW 160.3 MOD
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Client Sample ID: SW-5

Sample #: 005 Date Sampled: 07/08/03 13:40 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS In Review

Acetone	ND	1200	ug/kg	SW846 8260B
Benzene	ND	300	ug/kg	SW846 8260B
Bromodichloromethane	ND	300	ug/kg	SW846 8260B
Bromoform	ND	300	ug/kg	SW846 8260B

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## SEVERN TRENT LABORATORIES, INC. PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

ENCORE Environmental Consultant PAGE 9

Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: SW-5

Sample #: 005 Date Sampled: 07/08/03 13:40 Date Received: 07/09/03 Matrix: SOLID

Volatile Organics by GC/MS

In Review

Bromomethane	ND	300	ug/kg	SW846 8260B
2-Butanone	ND	1200	ug/kg	SW846 8260B
Carbon disulfide	ND	300	ug/kg	SW846 8260B
Carbon tetrachloride	ND	300	ug/kg	SW846 8260B
Chlorobenzene	ND	300	ug/kg	SW846 8260B
Dibromochloromethane	ND	300	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	590	ug/kg	SW846 8260B
Chloroethane	ND	300	ug/kg	SW846 8260B
Chloroform	ND	300	ug/kg	SW846 8260B
Chloromethane	ND	300	ug/kg	SW846 8260B
Cyclohexane	ND	590	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	300	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	300	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	300	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	300	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	300	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	300	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	300	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	300	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	430	150	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	150	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	300	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	300	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	300	ug/kg	SW846 8260B
Ethylbenzene	ND	300	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	300	ug/kg	SW846 8260B
2-Hexanone	ND	1200	ug/kg	SW846 8260B
Isopropylbenzene	ND	300	ug/kg	SW846 8260B
Methyl acetate	ND	590	ug/kg	SW846 8260B
Methylcyclohexane	ND	590	ug/kg	SW846 8260B
Methylene chloride	ND	300	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1200	ug/kg	SW846 8260B
Styrene	ND	300	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	300	ug/kg	SW846 8260B
Tetrachloroethene	ND	300	ug/kg	SW846 8260B
Toluene	ND	300	ug/kg	SW846 8260B

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**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

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 The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.  
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ENCORE Environmental Consultant PAGE 10  
 Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: SW-5

Sample #: 005 Date Sampled: 07/08/03 13:40 Date Received: 07/09/03 Matrix: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					In Review
1,2,4-Trichloro-benzene	ND	300	ug/kg	SW846 8260B	
1,1,1-Trichloroethane	ND	300	ug/kg	SW846 8260B	
1,1,2-Trichloroethane	ND	300	ug/kg	SW846 8260B	
Trichloroethene	ND	300	ug/kg	SW846 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	300	ug/kg	SW846 8260B	
Vinyl chloride	ND	300	ug/kg	SW846 8260B	
Xylenes (total)	ND	590	ug/kg	SW846 8260B	
Methyl tert-butyl ether	ND	1200	ug/kg	SW846 8260B	

Results and reporting limits have been adjusted for dry weight.

Extractable Petroleum Hydrocarbons					Reviewed
TPH (as Diesel)	14	13	mg/kg	SW846 8015B	

Results and reporting limits have been adjusted for dry weight.

Volatile Petroleum Hydrocarbons					In Review
<b>IN PROGRESS</b>					

Inorganic Analysis					In Review
Total Residue as Percent Solids	77.7	10.0	%	MCAWW 160.3 MOD	

Client Sample ID: NW-6

Sample #: 006 Date Sampled: 07/08/03 13:45 Date Received: 07/09/03 Matrix: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					In Review
Acetone	ND	1400	ug/kg	SW846 8260B	
Benzene	ND	340	ug/kg	SW846 8260B	
Bromodichloromethane	ND	340	ug/kg	SW846 8260B	
Bromoform	ND	340	ug/kg	SW846 8260B	
Bromomethane	ND	340	ug/kg	SW846 8260B	
2-Butanone	ND	1400	ug/kg	SW846 8260B	
Carbon disulfide	ND	340	ug/kg	SW846 8260B	

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## SEVERN TRENT LABORATORIES, INC.

## PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

ENCORE Environmental Consultant

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Lot #: A3G090146

Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: NW-6

Sample #: 006 Date Sampled: 07/08/03 13:45 Date Received: 07/09/03 Matrix: SOLID

## Volatile Organics by GC/MS

In Review

Carbon tetrachloride	ND	340	ug/kg	SW846 8260B
Chlorobenzene	ND	340	ug/kg	SW846 8260B
Dibromochloromethane	ND	340	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	680	ug/kg	SW846 8260B
Chloroethane	ND	340	ug/kg	SW846 8260B
Chloroform	ND	340	ug/kg	SW846 8260B
Chloromethane	ND	340	ug/kg	SW846 8260B
Cyclohexane	ND	680	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	340	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	340	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	340	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	340	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	340	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	340	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	340	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	340	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	2400	170	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	170	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	340	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	340	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	340	ug/kg	SW846 8260B
Ethylbenzene	ND	340	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	340	ug/kg	SW846 8260B
2-Hexanone	ND	1400	ug/kg	SW846 8260B
Isopropylbenzene	ND	340	ug/kg	SW846 8260B
Methyl acetate	ND	680	ug/kg	SW846 8260B
Methylcyclohexane	ND	680	ug/kg	SW846 8260B
Methylene chloride	ND	340	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1400	ug/kg	SW846 8260B
Styrene	ND	340	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	340	ug/kg	SW846 8260B
Tetrachloroethene	ND	340	ug/kg	SW846 8260B
Toluene	ND	340	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	340	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	340	ug/kg	SW846 8260B

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## SEVERN TRENT LABORATORIES, INC. PRELIMINARY DATA SUMMARY

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 The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.  
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ENCORE Environmental Consultant PAGE 12

Lot #: A3G090146 Date Reported: 7/10/03

Project Number: 17366-30

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: NW-6

Sample #: 006    Date Sampled: 07/08/03 13:45    Date Received: 07/09/03    Matrix: SOLID

Volatile Organics by GC/MS				In Review
1,1,2-Trichloroethane	ND	340	ug/kg	SW846 8260B
Trichloroethene	ND	340	ug/kg	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	340	ug/kg	SW846 8260B
Vinyl chloride	ND	340	ug/kg	SW846 8260B
Xylenes (total)	ND	680	ug/kg	SW846 8260B
Methyl tert-butyl ether	ND	1400	ug/kg	SW846 8260B

Results and reporting limits have been adjusted for dry weight.

Extractable Petroleum Hydrocarbons				Reviewed
TPH (as Diesel)	6.8 J	13	mg/kg	SW846 8015B

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Volatile Petroleum Hydrocarbons				In Review
TPH (as Gasoline)	320	130	ug/kg	SW846 8015B

Results and reporting limits have been adjusted for dry weight.

Inorganic Analysis				In Review
Total Residue as Percent Solids	75.5	10.0	%	MCAWW 160.3 MOD

Client Sample ID: TRIP BLANK

Sample #: 007    Date Sampled: 07/08/03 13:45    Date Received: 07/09/03    Matrix: WATER

**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

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 The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.  
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ENCORE Environmental consultants PAGE 1  
 Lot #: A3G140165 Date Reported: 7/15/03  
 Project Number: 17366-30

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: EW-7

Sample #: 001 Date Sampled: 07/11/03 12:30 Date Received: 07/14/03 Matrix: SOLID

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD	In Review
Volatile Organics by GC/MS					In Review
Acetone	ND	23	ug/kg	SW846 8260B	
Benzene	ND	5.8	ug/kg	SW846 8260B	
Bromodichloromethane	ND	5.8	ug/kg	SW846 8260B	
Bromoform	ND	5.8	ug/kg	SW846 8260B	
Bromomethane	ND	5.8	ug/kg	SW846 8260B	
2-Butanone	ND	23	ug/kg	SW846 8260B	
Carbon disulfide	ND	5.8	ug/kg	SW846 8260B	
Carbon tetrachloride	ND	5.8	ug/kg	SW846 8260B	
Chlorobenzene	ND	5.8	ug/kg	SW846 8260B	
Dibromochloromethane	ND	5.8	ug/kg	SW846 8260B	
1,2-Dibromo-3-chloro- propane	ND	12	ug/kg	SW846 8260B	
Chloroethane	ND	5.8	ug/kg	SW846 8260B	
Chloroform	ND	5.8	ug/kg	SW846 8260B	
Chloromethane	ND	5.8	ug/kg	SW846 8260B	
Cyclohexane	ND	12	ug/kg	SW846 8260B	
1,2-Dibromoethane	ND	5.8	ug/kg	SW846 8260B	
1,2-Dichlorobenzene	ND	5.8	ug/kg	SW846 8260B	
1,3-Dichlorobenzene	ND	5.8	ug/kg	SW846 8260B	
1,4-Dichlorobenzene	ND	5.8	ug/kg	SW846 8260B	
Dichlorodifluoromethane	ND	5.8	ug/kg	SW846 8260B	
1,1-Dichloroethane	ND	5.8	ug/kg	SW846 8260B	
1,2-Dichloroethane	ND	5.8	ug/kg	SW846 8260B	
1,1-Dichloroethene	ND	5.8	ug/kg	SW846 8260B	
cis-1,2-Dichloroethene	120	2.9	ug/kg	SW846 8260B	
trans-1,2-Dichloroethene	1.6 J	2.9	ug/kg	SW846 8260B	
1,2-Dichloropropane	ND	5.8	ug/kg	SW846 8260B	
cis-1,3-Dichloropropene	ND	5.8	ug/kg	SW846 8260B	
trans-1,3-Dichloropropene	ND	5.8	ug/kg	SW846 8260B	
Ethylbenzene	ND	5.8	ug/kg	SW846 8260B	
Trichlorofluoromethane	ND	5.8	ug/kg	SW846 8260B	
2-Hexanone	ND	23	ug/kg	SW846 8260B	
Isopropylbenzene	ND	5.8	ug/kg	SW846 8260B	
Methyl acetate	ND	12	ug/kg	SW846 8260B	
Methylcyclohexane	ND	12	ug/kg	SW846 8260B	
Methylene chloride	4.0 J	5.8	ug/kg	SW846 8260B	
4-Methyl-2-pentanone	ND	23	ug/kg	SW846 8260B	

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## SEVERN TRENT LABORATORIES, INC. PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

ENCORE Environmental consultants PAGE 2

Lot #: A3G140165 Date Reported: 7/15/03

Project Number: 17366-30

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: **BW-7**

Sample #: 001 Date Sampled: 07/11/03 12:30 Date Received: 07/14/03 Matrix: SOLID

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD	In Review
<b>Volatile Organics by GC/MS</b>					
Styrene	ND	5.8	ug/kg	SW846 8260B	In Review
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	SW846 8260B	
<b>Tetrachloroethene</b>	<b>17</b>	<b>5.8</b>	<b>ug/kg</b>	<b>SW846 8260B</b>	
Toluene	ND	5.8	ug/kg	SW846 8260B	
1,2,4-Trichloro-benzene	ND	5.8	ug/kg	SW846 8260B	
1,1,1-Trichloroethane	ND	5.8	ug/kg	SW846 8260B	
1,1,2-Trichloroethane	ND	5.8	ug/kg	SW846 8260B	
<b>Trichloroethene</b>	<b>20</b>	<b>5.8</b>	<b>ug/kg</b>	<b>SW846 8260B</b>	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.8	ug/kg	SW846 8260B	
Vinyl chloride	ND	5.8	ug/kg	SW846 8260B	
Xylenes (total)	ND	12	ug/kg	SW846 8260B	
Methyl tert-butyl ether	ND	23	ug/kg	SW846 8260B	

Results and reporting limits have been adjusted for dry weight.  
J Estimated result. Result is less than RL.

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD	Reviewed
<b>Extractable Petroleum Hydrocarbons</b>					
TPH (as Diesel)	ND	13	mg/kg	SW846 8015B	Reviewed

Results and reporting limits have been adjusted for dry weight.

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD	Reviewed
<b>Volatile Petroleum Hydrocarbons</b>					
TPH (as Gasoline)	ND	130	ug/kg	SW846 8015B	Reviewed

Results and reporting limits have been adjusted for dry weight.

PARAMETER	RESULT	LIMIT	UNITS	ANALYTICAL METHOD	Reviewed
<b>Inorganic Analysis</b>					
Total Residue as Percent Solids	76.2	10.0	%	MCAWW 160.3 MOD	Reviewed

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**SEVERN TRENT LABORATORIES, INC.**  
**PRELIMINARY DATA SUMMARY**

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 The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.  
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ENCORE Environmental consultants PAGE 3  
 Lot #: A3G140165 Date Reported: 7/15/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: NW-8

Sample #: 002 Date Sampled: 07/11/03 12:35 Date Received: 07/14/03 Matrix: SOLID

Volatile Organics by GC/MS

In Review

Acetone	ND	25	ug/kg	SW846 8260B
Benzene	ND	6.2	ug/kg	SW846 8260B
Bromodichloromethane	ND	6.2	ug/kg	SW846 8260B
Bromoform	ND	6.2	ug/kg	SW846 8260B
Bromomethane	ND	6.2	ug/kg	SW846 8260B
2-Butanone	ND	25	ug/kg	SW846 8260B
Carbon disulfide	0.41 J	6.2	ug/kg	SW846 8260B
Carbon tetrachloride	ND	6.2	ug/kg	SW846 8260B
Chlorobenzene	ND	6.2	ug/kg	SW846 8260B
Dibromochloromethane	ND	6.2	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	SW846 8260B
Chloroethane	ND	6.2	ug/kg	SW846 8260B
Chloroform	ND	6.2	ug/kg	SW846 8260B
Chloromethane	ND	6.2	ug/kg	SW846 8260B
Cyclohexane	ND	12	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	6.2	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	6.2	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	6.2	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	6.2	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	6.2	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	6.2	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	6.2	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	6.2	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	57	3.1	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	2.1 J	3.1	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	6.2	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	6.2	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	6.2	ug/kg	SW846 8260B
Ethylbenzene	ND	6.2	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	6.2	ug/kg	SW846 8260B
2-Hexanone	ND	25	ug/kg	SW846 8260B
Isopropylbenzene	ND	6.2	ug/kg	SW846 8260B
Methyl acetate	ND	12	ug/kg	SW846 8260B
Methylcyclohexane	ND	12	ug/kg	SW846 8260B
Methylene chloride	4.2 J	6.2	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	25	ug/kg	SW846 8260B

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## SEVERN TRENT LABORATORIES, INC.

## PRELIMINARY DATA SUMMARY

The results shown below may still require additional laboratory review and are subject to change. Actions taken based on these results are the responsibility of the data user.

ENCORE Environmental consultants PAGE 4  
 Lot #: A3G140165 Date Reported: 7/15/03

Project Number: 17366-30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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Client Sample ID: NW-8

Sample #: 002 Date Sampled: 07/11/03 12:35 Date Received: 07/14/03 Matrix: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					In Review
Styrene	ND	6.2	ug/kg	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg	SW846 8260B	
<b>Tetrachloroethene</b>	<b>71</b>	<b>6.2</b>	<b>ug/kg</b>	<b>SW846 8260B</b>	
Toluene	ND	6.2	ug/kg	SW846 8260B	
1,2,4-Trichloro-benzene	ND	6.2	ug/kg	SW846 8260B	
1,1,1-Trichloroethane	ND	6.2	ug/kg	SW846 8260B	
1,1,2-Trichloroethane	ND	6.2	ug/kg	SW846 8260B	
<b>Trichloroethene</b>	<b>100</b>	<b>6.2</b>	<b>ug/kg</b>	<b>SW846 8260B</b>	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.2	ug/kg	SW846 8260B	
Vinyl chloride	ND	6.2	ug/kg	SW846 8260B	
Xylenes (total)	ND	12	ug/kg	SW846 8260B	
Methyl tert-butyl ether	ND	25	ug/kg	SW846 8260B	

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Extractable Petroleum Hydrocarbons					Reviewed
<b>TPH (as Diesel)</b>	<b>5.9 J</b>	<b>13</b>	<b>mg/kg</b>	<b>SW846 8015B</b>	

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Petroleum Hydrocarbons					Reviewed
<b>TPH (as Gasoline)</b>	<b>ND</b>	<b>130</b>	<b>ug/kg</b>	<b>SW846 8015B</b>	

Results and reporting limits have been adjusted for dry weight.

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Inorganic Analysis					Reviewed
<b>Total Residue as Percent Solids</b>	<b>77.0</b>	<b>10.0</b>	<b>%</b>	<b>MCAWW 160.3 MOD</b>	

**TABLE C. SUBSURFACE SOIL (> 3m bgs) AND GROUNDWATER  
RISK-BASED SCREENING LEVELS (RBSLs)  
(Groundwater IS a Current or Potential Source of Drinking Water)**

CHEMICAL PARAMETER	SUBSURFACE SOIL RBSLs		GROUNDWATER RBSLs	
	Residential Land Use Permitted (mg/kg)	Commercial/ Industrial Land Use Only (mg/kg)	Drinking Water Resource Threatened (ug/L)	Elevated Threat To Surface Water (ug/L)
ACENAPHTHENE	16	16	20	-
ACENAPHTHYLENE	120	120	280	-
ACETONE	0.24	0.24	700	-
ALDRIN	0.95	0.95	0.002	0.00014
ANTHRACENE	2.9	2.9	0.73	-
ANTIMONY	210	210	6.0	-
ARSENIC	13	13	36	-
BARIUM	2400	2400	3.9	-
BENZENE	0.045	0.045	1.0	-
BENZO(a)ANTHRACENE	12	12	0.029	-
BENZO(b)FLUORANTHENE	12	12	0.029	-
BENZO(k)FLUORANTHENE	2.7	2.7	0.029	0.049
BENZO(g,h,i)PERYLENE	5.3	5.3	0.02	-
BENZO(a)PYRENE	1.2	1.2	0.014	-
BERYLLIUM	95	85	4.0	-
BIPHENYL, 1,1-	0.65	0.65	0.50	-
BIS(2-CHLOROETHYL)ETHER	0.0002	0.0002	0.014	-
BIS(2-CHLOROISOPROPYL)ETHER	0.005	0.005	0.50	-
BIS(2-ETHYLHEXYL)PHTHALATE	200	200	12	-
BORON	23000	23000	1.8	-
BROMODICHLOROMETHANE	0.025 (0.95)	0.098 (2.7)	100	-
BROMOFORM	2.2	2.2	100	-
BROMOMETHANE	0.39	0.39	9.8	-
CADMIUM	33	33	1.1	-
CARBON TETRACHLORIDE	0.021 (0.059)	0.074 (0.11)	0.50	-
CHLORDANE	15	15	0.004	0.00059
CHLOROANILINE, p-	0.11	0.11	10	-
CHLOROBENZENE	3.0	3.0	50	-
CHLOROETHANE	0.85	0.85	12	-
CHLOROFORM	0.17 (0.88)	0.58 (0.88)	28	-
CHLOROMETHANE	0.42	0.42	2.7	-
CHLOROPHENOL, 2-	0.012	0.012	0.18	-
CHROMIUM (Total - assumes 1/6 ratio Cr6/Cr3)	13	13	50	-
CHROMIUM III	2500	5000	180	-
CHROMIUM VI	1.8	1.8	11	-
CHRYSENE	19	19	0.29	0.049
COBALT	2500	5000	3.0	-
COPPER	2500	5000	3.1	-
CYANIDE (Free)	500	1000	1.0	-
DIBENZO(a,h)ANTHRACENE	3.5	3.5	0.0085	0.049
DIBROMOCHLOROMETHANE	8.3	8.3	100	46
1,2-DIBROMO-3-CHLOROPROPANE	0.001	0.001	0.20	-
DIBROMOETHANE, 1,2-	0.0003	0.0003	0.05	-
DICHLOROBENZENE, 1,2-	0.75	0.75	10	-
DICHLOROBENZENE, 1,3-	0.47	0.47	6.3	-
DICHLOROBENZENE, 1,4-	0.13 (0.59)	0.49 (0.59)	5.0	-
DICHLOROBENZIDINE, 3,3-	0.008	0.008	0.029	0.077
DICHLORODIPHENYLDICHLOROETHANE (DDD)	91	91	0.06	0.00084
DICHLORODIPHENYLDICHLOROETHYLENE (DDE)	64	64	0.10	0.00059
DICHLORODIPHENYLTRICHLOROETHANE (DDT)	4.3	4.3	0.001	0.00059

**TABLE C. SUBSURFACE SOIL (> 3m bgs) AND GROUNDWATER  
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(Groundwater IS a Current or Potential Source of Drinking Water)**

CHEMICAL PARAMETER	SUBSURFACE SOIL RBSLs		GROUNDWATER RBSLs	
	Residential Land Use Permitted (mg/kg)	Commercial/Industrial Land Use Only (mg/kg)	Drinking Water Resource Threatened (ug/L)	Elevated Threat To Surface Water (ug/L)
DICHLOROETHANE, 1,1-	0.22	0.22	6.0	-
DICHLOROETHANE, 1,2-	0.008	0.008	0.60	-
DICHLOROETHYLENE, 1,1-	0.018 (0.028)	0.062 (0.12)	6.0	3.2
DICHLOROETHYLENE, Cis 1,2-	0.19	0.19	6.0	-
DICHLOROETHYLENE, Trans 1,2-	0.65	0.65	10	-
DICHLOROPHENOL, 2,4-	0.30	0.30	0.30	-
DICHLOROPROPANE, 1,2-	0.049 (0.13)	0.13	5.0	-
DICHLOROPROPENE, 1,3-	0.055 (0.057)	0.057	0.50	-
DIELDRIN	0.002	0.002	0.0019	0.00014
DIETHYLPHTHALATE	0.070	0.070	3.0	-
DIMETHYLPHTHALATE	0.070	0.070	3.0	-
DIMETHYLPHENOL, 2,4-	0.68	0.68	100	-
DINITROPHENOL, 2,4-	0.040	0.040	14	-
DINITROTOLUENE, 2,4-	0.0008	0.0008	0.11	-
1,4 DIOXANE	0.0018	0.0018	3.0	-
DIOXIN (2,3,7,8-TCDD)	0.00017	0.00017	<0.00001	0.00000014
ENDOSULFAN	0.005	0.005	0.0087	-
ENDRIN	0.0008	0.0008	0.0023	-
ETHYLBENZENE	2.5	2.5	30	-
FLUORANTHENE	60	60	8.1	-
FLUORENE	5.1	5.1	3.9	-
HEPTACHLOR	0.013	0.013	0.0036	0.00021
HEPTACHLOR EPOXIDE	0.014	0.014	0.0036	0.00011
HEXACHLOROBENZENE	9.0	9.0	1.0	0.00077
HEXACHLOROBUTADIENE	2.2	2.2	0.45	-
HEXACHLOROCYCLOHEXANE (gamma) LINDANE	0.049	0.049	0.08	0.063
HEXACHLOROETHANE	3.0	3.0	0.90	8.9
INDENO(1,2,3-cd)PYRENE	7.7	7.7	0.029	0.049
LEAD	750	750	3.2	-
MERCURY	160	160	0.012	-
METHOXYCHLOR	19	19	0.63	-
METHYLENE CHLORIDE	0.078	0.076	5.0	-
METHYL ETHYL KETONE	3.8	3.8	4200	-
METHYL ISOBUTYL KETONE	2.7	2.7	120	-
METHYL MERCURY	33	33	0.003	-
METHYLNAPHTHALENE (total 1- & 2-)	0.25	0.25	2.1	-
METHYL TERT BUTYL ETHER	0.028	0.028	5.0	-
MOLYBDENUM	2500	2700	35	-

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(Groundwater IS a Current or Potential Source of Drinking Water)**

CHEMICAL PARAMETER	SUBSURFACE SOIL RBSLs		GROUNDWATER RBSLs	
	Residential Land Use Permitted (mg/kg)	Commercial/ Industrial Land Use Only (mg/kg)	Drinking Water Resource Threatened (ug/L)	Elevated Threat To Surface Water (ug/L)
NAPHTHALENE	1.7 (4.9)	4.3	21	-
NICKEL	1000	1000	8.2	-
PENTACHLOROPHENOL	5.3	6.3	1.0	-
PERCHLORATE	0.036	0.036	18	-
PHENANTHRENE	11	11	4.6	-
PHENOL	0.076	0.076	5.0	-
POLYCHLORINATED BIPHENYLS (PCBs)	5.6	5.6	0.014	0.00017
PYRENE	55	55	0.40	-
SELENIUM	2500	2700	5.0	-
SILVER	2500	2700	0.12	-
STYRENE	1.7	1.7	10	-
TETRACHLOROETHANE, 1,1,1,2-	0.020	0.020	1.3	-
TETRACHLOROETHANE, 1,1,2,2-	0.015	0.015	1.0	-
TETRACHLOROETHYLENE	0.15 (0.80)	0.53 (0.80)	5.0	-
THALLIUM	35	35	2.0	-
TOLUENE	2.6	2.6	40	-
TPH (gasolines)	100	100	100	-
TPH (middle distillates)	100	100	100	-
TPH (residual fuels)	1000	1000	100	-
TRICHLOROETHANE, 1,2,4-	15	15	50	-
TRICHLOROETHANE, 1,1,1-	8.0	8.0	62	-
TRICHLOROETHANE, 1,1,2-	0.055 (0.091)	0.091	5.0	-
TRICHLOROETHYLENE	0.40	0.40	5.0	-
TRICHLOROPHENOL, 2,4,5-	0.18	0.18	11	-
TRICHLOROPHENOL, 2,4,6-	0.17	0.17	0.50	-
VANADIUM	2500	3700	19	-
VINYL CHLORIDE	0.011 (0.011)	0.040 (0.040)	0.50	-
XYLENES	1.0	1.0	13	-
ZINC	2500	5000	23	-
Electrical Conductivity (mS/cm, USEPA Method 120.1 MOD)	not applicable	not applicable	no criteria	no criteria
Sodium Adsorption Ratio	not applicable	not applicable	no criteria	no criteria

**Notes:**

**Source of soil RBSLs:** Refer to Tables C-1 and C-2 in Appendix 1.

**Source of groundwater RBSLs:** Refer to Table F-1 Appendix 1.

Category "Residential Land Use Permitted" based on residential land-use scenario and generally considered adequate for unrestricted land use.

Subsurface soil greater than 3 meters (approximately 10 feet) below ground surface.

Soil data should be reported on dry-weight basis (see Appendix 1, Section 1.2).

Soil RBSLs intended to address human health, groundwater protection, indoor air and nuisance concerns under a construction/trench worker exposure scenario and noted land-use scenarios for indoor air impacts. Refer to appendices for summary of RBSL components.

Groundwater RBSLs intended to be protective of drinking water resources, surface water quality, indoor-air impacts and nuisance concerns.

Value in parentheses applicable if vadose zone soils are predominantly fine-grained, silty, clayey loams (<20% sand-size (0.075mm) or larger material; i.e. ≥80% of soil material will pass through 200 mesh sieve).

Category "Elevated Threat To Surface Water" screening levels address potential long-term impacts to surface water bodies and bioaccumulation concerns in aquatic organisms potentially consumed by humans. Not addressed in soil RBSLs.

TPH - Total Petroleum Hydrocarbons. See Appendix 1, Chapter 4 for discussion of different TPH categories.