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March 7, 2003

ENSR Project No.: 09413-114

Mr. Dave Carper
Wisconsin Department of Natural Resources
3550 Morrow Coulee Road, Room 104
LaCrosse, Wisconsin 54601

Re: Semi-Annual Report For the Former Town of Onalaska Landfill, Onalaska, Wisconsin

Dear Mr. Carper:

ENSR is pleased to submit this first semi-annual report for the activities completed at the Former Town of Onalaska Landfill. These activities were completed in accordance with ENSR proposal dated July 30, 2002 (Proposal) and includes natural attenuation (NA) monitoring and operation and maintenance (O&M) of the groundwater extraction and treatment system (system).

This report is inclusive of site activities conducted by ENSR during this reporting period (December 1, 2003 through February 21, 2003).

In summary, ENSR performed the required NA monitoring and O&M of the system. The results from the December 2002 sampling event will provide a baseline for the natural attenuation monitoring for the future site. Routine O&M activities occurred on a bi-monthly basis and included monthly "bumping of the system". There were no non-routine or reportable occurrences at this site during this reporting period.

The following paragraphs discuss the activities completed at this site during this reporting period and are discussed in the same order as presented in the Proposal.

Completed Work

Task 100: Quality Assurance Plan

No changes to the QAPP were required during this reporting period.

Task 200: Site Work Plan/Site Health and Safety Plan

The Proposal details the work items required for this project. The Proposal will constitute the work plan for this site unless otherwise advised.

ENSR developed a Health and Safety Plan (HASP) to protect its employees while performing on-site activities. A copy of the site specific HASP is kept onsite at all times and one copy remains with the each the WDNR and ENSR Project Mangers.

A Health and Safety tailgate meeting was completed on December 11, 2002 with ENSR and WDNR personal. During this meeting, the general health and safety issues for site activities were reviewed.

Task 300: O&M of the Groundwater Treatment System

ENSR performed routine O&M activities and followed the Groundwater Treatment Facility Shutdown/Restart Plan, Onalaska Landfill dated December 7, 2001, and the O&M Summary Manual for the Onalaska Treatment System dated May 1997, as prepared by CH2M Hill for the USEPA.

Currently, Bill Wood, the primary operator, indicated that he is onsite approximately 6 hours per month to complete routine O&M activities. A summary of Mr. Wood's activities is presented below.

December 11, 2002. ENSR and WDNR staff meet onsite to review the O&M of the system and to "bump" start the system. Each of the five extraction wells were independently turned on and the pumped water was directed to the clear well prior to being pumped to the 12,000 gallon AST sludge tank for storage. Each well was pumped approximately 2 to 3 minutes.

January 9, 2003. Mr. Wood bumped the system and performed routine maintenance and general housekeeping.

January 30, 2003. Mr. Wood performed routine maintenance and completed a quick inspection on various components of the system.

February 13, 2003. Mr. Wood bumped the system and performed routine maintenance and general housekeeping. To date, approximately 2,000 gallons of groundwater has been pumped from the system since December 11, 2002.

The current monthly schedule for Mr. Wood is to complete the bumping of the system and general housekeeping mid-month and perform routine maintenance and general housekeeping at the end of the month.

During the monthly operation of the groundwater extraction and treatment system, the influent was directed to the clear well then pumped to the sludge AST for storage. No groundwater was discharged to the environment during this reporting period.

The influent/effluent will be sampled prior to being discharged to the environment for the parameters required in the Effluent Limits and Monitoring Requirements for this site. The sample collected immediately prior to discharge will represent the influent concentrations as well as the effluent concentrations of the pumped groundwater.

Discharge to the effluent will occur as needed. It is estimated that effluent will be discharged once a year, around October 15. The influent/effluent will be collected as a grab sample and tested prior to discharge to ensure effluent limitations are not exceeded prior to discharge. Analytical results will be submitted to the Department's Project Manager annually (with the Annual Report) on ASCII 3 Y2 inch IBM (MSDOS) formatted diskettes in a data format supplied by the WDNR.

ENSR procured items needed to keep the groundwater collection and treatment system in operating condition to allow start-up and operation of the system should environmental conditions warrant it. These items included (but not limited to):

- Housekeeping
- Propane
- Electricity
- Sewage removal
- Telephone service
- Miscellaneous supplies

Task 400: Groundwater Natural Attenuation Monitoring

On December 11 and 12, 2002, twenty-four groundwater monitoring wells were sampled in accordance with the "Natural Attenuation Plan, Onalaska Landfill dated December 4, 2001, and the Sampling and Analysis Plan; Onalaska Municipal Landfill" dated July 1997. Groundwater samples were collected from all scheduled monitoring wells except for the two residential wells. The residential wells were not available for sampling during the December 2002 sampling event and thus will added to the spring 2003 sampling event. The location of the wells is provided on **Figure 1**.

Table 1 presents the groundwater-monitoring schedule and **Table 2** lists the required analysis. The December 2002 sampling event included Group 1 and 2 wells. For the December 2002 sampling event, a one-time analysis for both filtered and unfiltered metals was performed for all well sampled.

Before sampling, the depth to groundwater in each well was gauged, and then each well was purged of a minimum of three well volumes of groundwater. During this sampling event one of three purging techniques was employed. Each well was either purged with a dedicated Whaler pump and tubing, a peristaltic pump and disposable tubing or a single use disposable bailer. Groundwater samples were then collected using the respective purging equipment and directly placed in laboratory supplied containers. The samples were stored on ice in a cooler and sent overnight under chain-of-custody to Severn Trent Laboratories in Canton, Ohio. Twenty-seven Whaler pumps were purchase for this project. The Whaler pumps were used as dedicated pumps for a majority of the wells sampled.

The groundwater analytical results are summarized in **Table 3**, **Summary of Groundwater Analytical Results**. The abbreviated laboratory reports and chain-of-custody forms are included in **Attachment A**, **Groundwater Laboratory Analytical Reports**. The complete analytical data package is in ENSR's St. Louis Park office and a CD-ROM of all analytical data will be presented to the WDNR in the Annual Report.

The following is a summary of the analytical results from the December 2002 sampling event.

- The most common VOC contaminants detected were acetone and methylene chloride. Methylene chloride was found in most wells sampled and in the two trip blanks. It is inferred that the methylene chloride is a laboratory artifact. Methylene chloride and Trimethylbenzene (1,2,4 & 1,3,5) were the only VOCs that exceeded the WDNR Enforcement Standards (ES). Methylene chloride exceeded the ES in AW-25 and Trimethylbenze exceeded the ES in MW-4S.

- Of the 37 VOCs analyzed, only 13 VOCs were detected. The following is a list of detected VOCs.

1,2,4-Trimethylbenzene	Naphthalene	1,1-Dichloroethane
1,3,5-Trimethylbenzene	Toluene	1,1-Dichloroethane
Acetone	Benzene	cis-1,2-Dichloroethene
Methylene chloride	Chlorobenzene	
Xylenes (total)	Ethylbenzene	

- Concentrations of metals were detected in wells. For this sampling event, a one time analyses was performed for both filtered (dissolved) and unfiltered (total) metals. Generally, the total metals analysis yielded slightly higher concentration of metals.

- Manganese and iron are the only metals that exceeded the ES. The concentrations of manganese and iron detected at the site are within a general range of background levels of manganese and iron in the shallow groundwater in Wisconsin.

- Preliminary inspection of the natural attenuation parameters indicates that the subsurface conditions are conducive to NA.

The annual monitoring report will have an expanded discussion on the groundwater analytical results and a discussion on the NA environment.

Task 500: Semi-Annual Reporting

This report is the first semi-annual report completed under the contract between ENSR and the WDNR. The format for future semi-annual reports may be modified as needed or as directed by the WDNR Project Manager.

Task 600: Emergency Response or "Out of Scope" Items

No Emergency or Out of Scope items occurred during this reporting period. However, as directed by the WDNR, ENSR is preparing a cost estimate to have the monitoring wells and site surveyed. The purpose of the survey will be to generate a site map and to determine monitoring well top of casing elevations. This information will be used in future reports.

Task 700: Annual Reporting

The first annual report will be submitted by July 1, 2003 summarizing the operation and maintenance work performed for the previous year, and providing a summary of groundwater quality trends.

Task 800: Data Validation

ENSR will perform complete data validation on 10% of the groundwater samples. The data validation will include VOC and metals analysis. Results of the data validation will be provided in the annual reports. The first round of data validation will occur on samples collected during the 2003 Annual sampling event scheduled for April/May 2003.

Task 900: Project Management

Project Management activities completed during this reporting period included invoicing, scheduling, contracting, and other project coordinating activities. This task includes labor associated with processing other invoices (e.g. equipment purchases, supplies, and subcontracts) and preparing project invoices in accordance with WDNR requirements.

Closing

If you have any questions regarding this report or would like to discuss future activities at the site please call Peter Moore or Steve Nalefski at (952) 924-0117.

Sincerely,

Peter J. Moore, P.G
Hydrogeologist

Stephan L. Nalefski, P.G.
Vice President, Client Service Manager

Attachments: Tables
Figure
Analytical Results

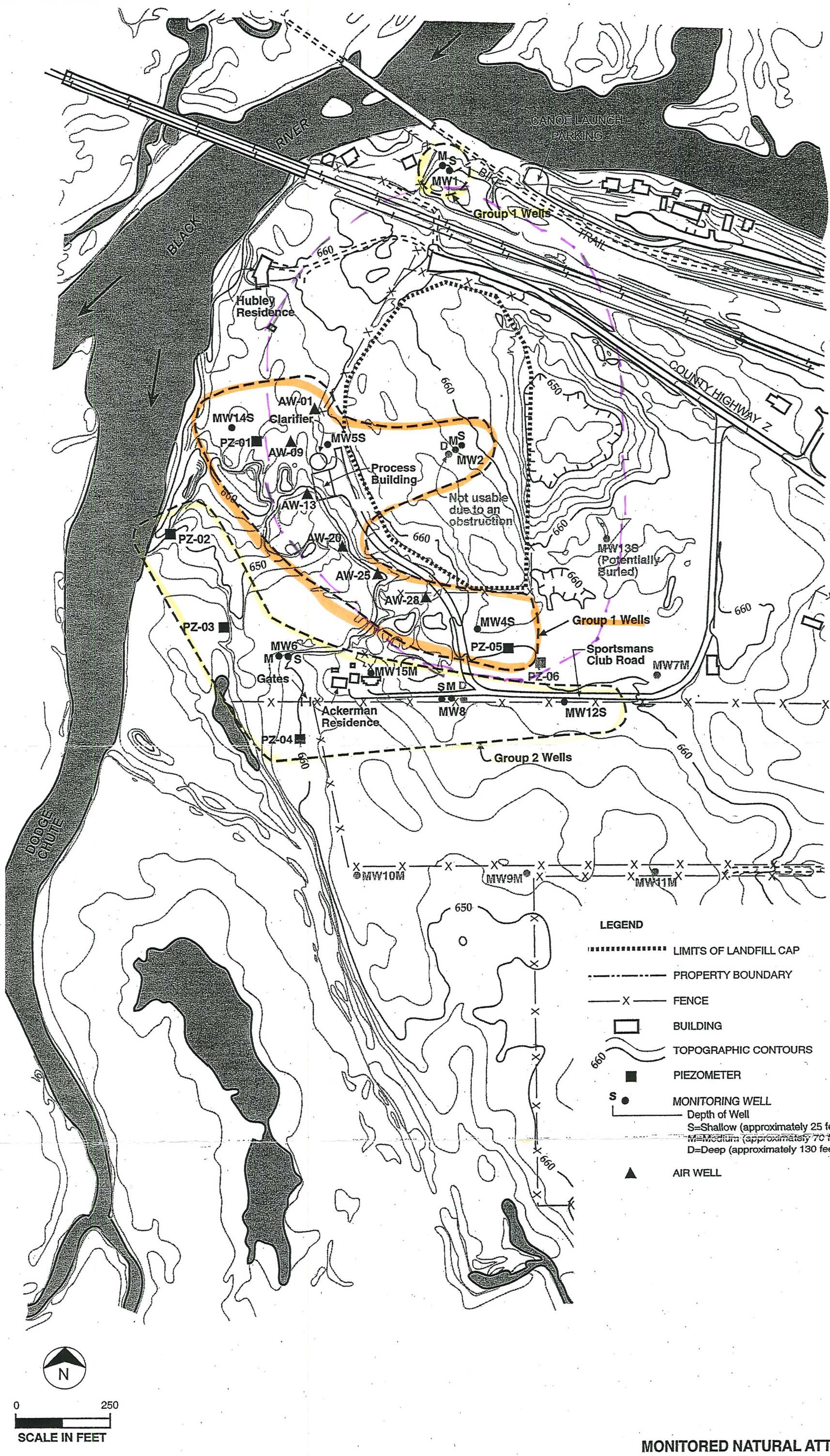

FIGURE 3
MONITORED NATURAL ATTENUATION
GROUNDWATER MONITORING NETWORK
ONALASKA LANDFILL

TABLE 1

Groundwater Monitoring Schedule
Wells Listed by Group
Former Onalaska Landfill

Group 1 Wells			Group 2 Wells	
MW-1S	MW-5S	AW-9	MW-6S	MW-15-M
MW-1M	MW-14S	AW-13	MW-6M	PZ-2
MW-2S	PZ-1	AW-20	MW-8S	PZ-3
MW-2M	PZ-5	AW-25	MW-8M	PZ-4
MW-4S	AW-1	AW-28	MW-12S	[a]

Notes:

Group 1 Wells (15 wells) will be sampled semi-annually and Group 2 Wells (9 wells) will be sampled annually.

a = Residential wells (2 wells) will be sampled annually for VOCs and metals only.

Source: Table 1 of CH2M Hills' December 4, 2001 Natural Attenuation Plan.

Table 2
Summary of Analyzed Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2,4-Trimethylbenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
2-Butanone
2-Hexanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene
cis-1,3-Dichloropropene
Dibromochloromethane
Ethylbenzene
Methylene chloride
Naphthalene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichloroethene
Vinyl chloride
Xylenes (total)

Metals, mg/L
Arsenic
Arsenic-DISS
Barium
Barium-DISS
Cadmium
Cadmium-DISS
Cobalt
Cobalt-DISS
Iron
Iron-DISS
Lead
Lead-DISS
Manganese
Manganese-DISS
Mercury
Mercury-DISS
Vanadium
Vanadium-DISS

Dissolved Gases, ug/L
Ethane
Ethene
Methane

Natural Attenuation Parameters, mg/L
Chloride
Nitrate as N
Sulfate
Total Alkalinity
Total Organic Carbon

Table 3
AW-1
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	25	96	480
1,3,5-Trimethylbenzene	22	96	480
Acetone	6	200	1000
Methylene chloride	3.8	0.5	5
Xylenes (total)	4	1,000	10,000
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.25	0.4	2
Barium-DISS	0.21	0.4	2
Cadmium	0.0032	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0043	0.008	0.04
Cobalt-DISS	0.0045	0.008	0.04
Iron	**4.5**	0.15	0.3
Iron-DISS	**2.9**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**6**	0.025	0.05
Manganese-DISS	**5.3**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	< 0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 3		
Ethene	< 2.9		
Methane	1500		
Natural Attenuation Parameters, mg/L			
Chloride	2.1	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	9.1	125	250
Total Alkalinity	290		
Total Organic Carbon	6		

Table 3
AW-9
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	1.6	96	480
Acetone	2.9	200	1000
Methylene chloride	3.8	0.5	5
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.072	0.4	2
Barium-DISS	0.064	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	0.067	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	0.041	0.025	0.05
Manganese-DISS	0.04	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	< 0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	260		
Natural Attenuation Parameters, mg/L			
Chloride	3.1	125	250
Nitrate as N	0.42	2	10
Sulfate	3.5	125	250
Total Alkalinity	220		
Total Organic Carbon	1		

Table 3
AW-13
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	Duplicate 12/12/2002	PAL	ES
1,2,4-Trimethylbenzene	2	1.8	96	480
1,3,5-Trimethylbenzene	< 0.4	1.1	96	480
Acetone	2.5	5.9	200	1000
Methylene chloride	3.6	3.6	0.5	5
Metals, mg/L				
Arsenic	0.0033	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	< 0.0021	0.005	0.05
Barium	0.28	0.27	0.4	2
Barium-DISS	0.22	0.23	0.4	2
Cadmium	< 0.00028	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	< 0.00028	0.0005	0.005
Cobalt	0.0043	0.0044	0.008	0.04
Cobalt-DISS	0.0045	0.0043	0.008	0.04
Iron	**4.7**	**5.1**	0.15	0.3
Iron-DISS	< 0.042	0.062	0.15	0.3
Lead	< 0.0016	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	< 0.0016	0.0015	0.015
Manganese	**24.3**	**23.7**	0.025	0.05
Manganese-DISS	**21.1**	**22.1**	0.025	0.05
Mercury	< 0.000087	< 0.000087	0.0002	0.002
Mercury-DISS	< 0.000087	< 0.000087	0.0002	0.002
Vanadium	< 0.00067	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	< 0.00067	0.006	0.03
Dissolved Gases, ug/L				
Ethane	< 1.5	< 0.6		
Ethene	< 1.4	< 0.58		
Methane	300	340		
Natural Attenuation Parameters, mg/L				
Chloride	2.6	2.3	125	250
Nitrate as N	0.2	0.28	2	10
Sulfate	3.1	2.7	125	250
Total Alkalinity	550	550		
Total Organic Carbon	5	4		

Table 3
AW-20
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	22	96	480
1,3,5-Trimethylbenzene	17	96	480
Acetone	3.6	200	1000
Methylene chloride	3.4	0.5	5
Naphthalene	0.64	8	40
Xylenes (total)	1.1	1,000	10,000
Metals, mg/L			
Arsenic	0.0088	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.29	0.4	2
Barium-DISS	0.16	0.4	2
Cadmium	0.00037	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.011	0.008	0.04
Cobalt-DISS	0.011	0.008	0.04
Iron	**23.3**	0.15	0.3
Iron-DISS	**3.3**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**17**	0.025	0.05
Manganese-DISS	**14.1**	0.025	0.05
Mercury	0.000087	0.0002	0.002
Mercury-DISS	< 0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 3		
Ethene	< 2.9		
Methane	1600		
Natural Attenuation Parameters, mg/L			
Chloride	1.8	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	1.1	125	250
Total Alkalinity	600		
Total Organic Carbon	15		

Table 3
AW-25
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	240	96	480
1,3,5-Trimethylbenzene	38	96	480
Methylene chloride	**5.1**	0.5	5
Naphthalene	4.5	8	40
Xylenes (total)	5.6	1,000	10,000
Metals, mg/L			
Arsenic	0.0034	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.43	0.4	2
Barium-DISS	0.3	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0049	0.008	0.04
Cobalt-DISS	0.0044	0.008	0.04
Iron	**13.8**	0.15	0.3
Iron-DISS	**1.8**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**6.6**	0.025	0.05
Manganese-DISS	**5.5**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	< 0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 3		
Ethene	< 2.9		
Methane	570		
Natural Attenuation Parameters, mg/L			
Chloride		125	250
Nitrate as N	0.97	2	10
Sulfate	4.4	125	250
Total Alkalinity	520		
Total Organic Carbon	7		

Table 3
AW-28
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	45	96	480
1,3,5-Trimethylbenzene	21	96	480
Acetone	5.4	200	1000
Methylene chloride	4.6	0.5	5
Toluene	0.83	200	1,000
Xylenes (total)	2.9	1,000	10,000
Metals, mg/L			
Arsenic	0.0026	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.26	0.4	2
Barium-DISS	0.21	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0064	0.008	0.04
Cobalt-DISS	0.0063	0.008	0.04
Iron	**9.8**	0.15	0.3
Iron-DISS	**2.3**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**5**	0.025	0.05
Manganese-DISS	**4.6**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	0.000096	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 3		
Ethene	< 2.9		
Methane	1200		
Natural Attenuation Parameters, mg/L			
Chloride	10.8	125	250
Nitrate as N	1.1	2	10
Sulfate	1.4	125	250
Total Alkalinity	370		
Total Organic Carbon	9		

Table 3
MW-4S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	Duplicate 12/12/2002	PAL	ES
1,2,4-Trimethylbenzene	**540**	**570**	96	480
1,3,5-Trimethylbenzene	**120**	**130**	96	480
Ethylbenzene	10	< 10	140	700
Xylenes (total)	29	27	1,000	10,000
Metals, mg/L				
Arsenic	0.0089	0.009	0.005	0.05
Arsenic-DISS	0.0028	0.0024	0.005	0.05
Barium	0.3	0.32	0.4	2
Barium-DISS	0.23	0.25	0.4	2
Cadmium	< 0.00028	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.00029	0.0005	0.005
Cobalt	< 0.00074	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.00095	0.008	0.04
Iron	**16.9**	**17.2**	0.15	0.3
Iron-DISS	**2.9**	**3.9**	0.15	0.3
Lead	< 0.0016	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	< 0.0016	0.0015	0.015
Manganese	**2.1**	**2.1**	0.025	0.05
Manganese-DISS	**2.1**	**2**	0.025	0.05
Mercury	< 0.000087	< 0.000087	0.0002	0.002
Mercury-DISS	0.000088	0.00018	0.0002	0.002
Vanadium	< 0.00067	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	< 0.00067	0.006	0.03
Dissolved Gases, ug/L				
Ethane	< 3	< 3		
Ethene	< 2.9	< 2.9		
Methane	1200	750		
Natural Attenuation Parameters, mg/L				
Chloride	13.5	13.5	125	250
Nitrate as N	< 0.0076	< 0.0076	2	10
Sulfate	0.98	0.92	125	250
Total Alkalinity	280	280		
Total Organic Carbon	5	6		

Table 3
MW-5S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	210	96	480
1,3,5-Trimethylbenzene	47	96	480
Ethylbenzene	6.2	140	700
Methylene chloride	3.9	0.5	5
Naphthalene	6.2	8	40
Xylenes (total)	12	1,000	10,000

Metals, mg/L			
Arsenic	0.0098	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.18	0.4	2
Barium-DISS	0.15	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0025	0.008	0.04
Cobalt-DISS	0.0026	0.008	0.04
Iron	**10.2**	0.15	0.3
Iron-DISS	**2.2**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**1.6**	0.025	0.05
Manganese-DISS	**1.6**	0.025	0.05
Mercury	0.000088	0.0002	0.002
Mercury-DISS	< 0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03

Dissolved Gases, ug/L			
Ethane	< 3		
Ethene	< 2.9		
Methane	130		

Natural Attenuation Parameters, mg/L			
Chloride	5.8	125	250
Nitrate as N	0.1	2	10
Sulfate	0.34	125	250
Total Alkalinity	140		
Total Organic Carbon	5		

Table 3
PZ-1
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
Methylene chloride	3.4	0.5	5

Metals, mg/L			
Arsenic	0.0029	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.024	0.4	2
Barium-DISS	0.022	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	< 0.042	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**0.19**	0.025	0.05
Manganese-DISS	**0.18**	0.025	0.05
Mercury	0.000091	0.0002	0.002
Mercury-DISS	0.0001	0.0002	0.002
Vanadium	0.0013	0.006	0.03
Vanadium-DISS	0.0011	0.006	0.03

Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	6.6		

Natural Attenuation Parameters, mg/L			
Chloride	9.4	125	250
Nitrate as N	0.23	2	10
Sulfate	1.6	125	250
Total Alkalinity	120		
Total Organic Carbon	3		

Table 3
PZ-5
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
Acetone	3	200	1000
Methylene chloride	2.5	0.5	5
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.091	0.4	2
Barium-DISS	0.086	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	0.13	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**0.18**	0.025	0.05
Manganese-DISS	**0.08**	0.025	0.05
Mercury	0.000098	0.0002	0.002
Mercury-DISS	0.00011	0.0002	0.002
Vanadium	0.0011	0.006	0.03
Vanadium-DISS	0.00078	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.6		
Ethene	< 0.58		
Methane	130		
Natural Attenuation Parameters, mg/L			
Chloride	9.7	125	250
Nitrate as N	0.48	2	10
Sulfate	5.7	125	250
Total Alkalinity	260		
Total Organic Carbon	2		

Table 3
MW-1S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	3.7	200	1000
Methylene chloride	2.4	0.5	5
Metals, mg/L			
Arsenic	0.0029	0.005	0.05
Arsenic-DISS	0.003	0.005	0.05
Barium	0.034	0.4	2
Barium-DISS	0.027	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	0.00032	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	0.00079	0.008	0.04
Iron	0.15	0.15	0.3
Iron-DISS	0.053	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**0.86**	0.025	0.05
Manganese-DISS	**0.34**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	< 0.000087	0.0002	0.002
Vanadium	0.00088	0.006	0.03
Vanadium-DISS	0.00099	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	18		
Natural Attenuation Parameters, mg/L			
Chloride	5.5	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	19.7	125	250
Total Alkalinity	120		
Total Organic Carbon	4		

Table 3
MW-1M
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	3.4	200	1000
Methylene chloride	2.4	0.5	5
Metals, mg/L			
Arsenic	0.014	0.005	0.05
Arsenic-DISS	0.0024	0.005	0.05
Barium	0.32	0.4	2
Barium-DISS	0.22	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	0.00029	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	**8.7**	0.15	0.3
Iron-DISS	0.1	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**1.7**	0.025	0.05
Manganese-DISS	**1.5**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	0.00011	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	9.9		
Natural Attenuation Parameters, mg/L			
Chloride	7.8	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	5.2	125	250
Total Alkalinity	76		
Total Organic Carbon	4		

Table 3
MW-2S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	3.8	200	1000
Benzene	0.91	0.5	5
Chlorobenzene	19		
Methylene chloride	2.8	0.5	5
Metals, mg/L			
Arsenic	0.012	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.17	0.4	2
Barium-DISS	0.13	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.008	0.008	0.04
Cobalt-DISS	0.0014	0.008	0.04
Iron	**29.5**	0.15	0.3
Iron-DISS	**14**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**1.9**	0.025	0.05
Manganese-DISS	**1.9**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	0.0001	0.0002	0.002
Vanadium	0.00084	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 1.5		
Ethene	< 1.4		
Methane	520		
Natural Attenuation Parameters, mg/L			
Chloride	26.1	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	< 0.11	125	250
Total Alkalinity	180		
Total Organic Carbon	6		

Table 3
MW-2M
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	5.5	200	1000
Methylene chloride	3.1	0.5	5
Metals, mg/L			
Arsenic	0.019	0.005	0.05
Arsenic-DISS	0.0083	0.005	0.05
Barium	0.37	0.4	2
Barium-DISS	0.28	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	**5**	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**0.41**	0.025	0.05
Manganese-DISS	**0.38**	0.025	0.05
Mercury	0.000092	0.0002	0.002
Mercury-DISS	0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	22		
Natural Attenuation Parameters, mg/L			
Chloride	4.8	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	0.13	125	250
Total Alkalinity	100		
Total Organic Carbon	4		

Table 3
MW-6S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,1-Dichloroethane	0.55	85	850
Acetone	2.6	200	1000
Methylene chloride	2.2	0.5	5
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.17	0.4	2
Barium-DISS	0.13	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0022	0.008	0.04
Cobalt-DISS	0.0013	0.008	0.04
Iron	0.065	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**2.7**	0.025	0.05
Manganese-DISS	**1.6**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	0.00009	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	2.9		
Natural Attenuation Parameters, mg/L			
Chloride	6.7	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	4	125	250
Total Alkalinity	160		
Total Organic Carbon	6		

Table 3
MW-6M
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
Acetone	2.1	200	1000
Methylene chloride	2.1	0.5	5
Metals, mg/L			
Arsenic	0.0024	0.005	0.05
Arsenic-DISS	0.0034	0.005	0.05
Barium	0.75	0.4	2
Barium-DISS	0.71	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	0.00078	0.008	0.04
Iron	< 0.042	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**1.7**	0.025	0.05
Manganese-DISS	**1.6**	0.025	0.05
Mercury	0.000097	0.0002	0.002
Mercury-DISS	0.00009	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	1.1		
Natural Attenuation Parameters, mg/L			
Chloride	6	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	0.42	125	250
Total Alkalinity	100		
Total Organic Carbon	4		

Table 3
MW-8S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	2.2	200	1000
Methylene chloride	2.6	0.5	5
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.088	0.4	2
Barium-DISS	0.081	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	0.052	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**0.59**	0.025	0.05
Manganese-DISS	**0.5**	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	0.000087	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	0.58		
Natural Attenuation Parameters, mg/L			
Chloride	9.5	125	250
Nitrate as N	1.5	2	10
Sulfate	12.3	125	250
Total Alkalinity	190		
Total Organic Carbon	0.9		

Table 3
MW-8M
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	2.9	200	1000
Methylene chloride	3.2	0.5	5

Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	0.0024	0.005	0.05
Barium	0.68	0.4	2
Barium-DISS	0.66	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	< 0.042	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**2.7**	0.025	0.05
Manganese-DISS	**2.5**	0.025	0.05
Mercury	0.00009	0.0002	0.002
Mercury-DISS	0.00009	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03

Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	2		

Natural Attenuation Parameters, mg/L			
Chloride	2.6	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	5.7	125	250
Total Alkalinity	220		
Total Organic Carbon	2		

Table 3
MW-12S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	3	200	1000
Methylene chloride	2.7	0.5	5
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.021	0.4	2
Barium-DISS	0.022	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	< 0.00074	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	< 0.042	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	0.0034	0.0015	0.015
Lead-DISS	0.014	0.0015	0.015
Manganese	0.0023	0.025	0.05
Manganese-DISS	< 0.00068	0.025	0.05
Mercury	< 0.000087	0.0002	0.002
Mercury-DISS	0.00013	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	0.0011	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	< 0.39		
Natural Attenuation Parameters, mg/L			
Chloride	24.3	125	250
Nitrate as N	1.6	2	10
Sulfate	7.2	125	250
Total Alkalinity	170		
Total Organic Carbon	1		

Table 3
MW-14S
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,2,4-Trimethylbenzene	1.7	96	480
1,3,5-Trimethylbenzene	0.64	96	480
Acetone	4.3	200	1000
Methylene chloride	2.1	0.5	5
Naphthalene	5	8	40
Xylenes (total)	1.4	1,000	10,000
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.18	0.4	2
Barium-DISS	0.15	0.4	2
Cadmium	0.00045	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0052	0.008	0.04
Cobalt-DISS	0.0052	0.008	0.04
Iron	**11.6**	0.15	0.3
Iron-DISS	**4.9**	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**3.7**	0.025	0.05
Manganese-DISS	**3.4**	0.025	0.05
Mercury	0.000088	0.0002	0.002
Mercury-DISS	0.000095	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 3		
Ethene	< 2.9		
Methane	450		
Natural Attenuation Parameters, mg/L			
Chloride	5	125	250
Nitrate as N	0.01	2	10
Sulfate	3	125	250
Total Alkalinity	210		
Total Organic Carbon	14		

Table 3
MW-15M
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
1,1-Dichloroethane	1	85	850
cis-1,2-Dichloroethene	0.56	7	70
Methylene chloride	3	0.5	5
Metals, mg/L			
Arsenic	0.0054	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.86	0.4	2
Barium-DISS	0.84	0.4	2
Cadmium	0.00031	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.0012	0.008	0.04
Cobalt-DISS	0.00082	0.008	0.04
Iron	**1.1**	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	0.0049	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**3.6**	0.025	0.05
Manganese-DISS	**3.6**	0.025	0.05
Mercury	0.000092	0.0002	0.002
Mercury-DISS	0.000095	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	12		
Natural Attenuation Parameters, mg/L			
Chloride	5.2	125	250
Nitrate as N	0.03	2	10
Sulfate	2.4	125	250
Total Alkalinity	240		
Total Organic Carbon	3		

Table 3
PZ-02
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	2.6	200	1000
Methylene chloride	2.4	0.5	5
Metals, mg/L			
Arsenic	**0.056**	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.66	0.4	2
Barium-DISS	0.037	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.011	0.008	0.04
Cobalt-DISS	0.0069	0.008	0.04
Iron	**98.8**	0.15	0.3
Iron-DISS	**0.43**	0.15	0.3
Lead	0.0062	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**5.2**	0.025	0.05
Manganese-DISS	**4.2**	0.025	0.05
Mercury	0.00013	0.0002	0.002
Mercury-DISS	0.000092	0.0002	0.002
Vanadium	0.026	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.6		
Ethene	< 0.58		
Methane	98		
Natural Attenuation Parameters, mg/L			
Chloride	8.6	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	2.4	125	250
Total Alkalinity	160		
Total Organic Carbon	15		

Table 3
PZ-03
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/11/02	PAL	ES
Acetone	3.1	200	1000
Methylene chloride	2.5	0.5	5
Metals, mg/L			
Arsenic	0.0038	0.005	0.05
Arsenic-DISS	0.0023	0.005	0.05
Barium	0.097	0.4	2
Barium-DISS	0.069	0.4	2
Cadmium	0.00099	0.0005	0.005
Cadmium-DISS	0.00074	0.0005	0.005
Cobalt	0.0018	0.008	0.04
Cobalt-DISS	0.0019	0.008	0.04
Iron	**1.2**	0.15	0.3
Iron-DISS	0.1	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	< 0.0016	0.0015	0.015
Manganese	**2.7**	0.025	0.05
Manganese-DISS	**2.5**	0.025	0.05
Mercury	0.00012	0.0002	0.002
Mercury-DISS	0.000096	0.0002	0.002
Vanadium	0.0028	0.006	0.03
Vanadium-DISS	0.0015	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	2.4		
Natural Attenuation Parameters, mg/L			
Chloride	6.3	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	1.2	125	250
Total Alkalinity	160		
Total Organic Carbon			

Table 3
PZ-4
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
Acetone	3.5	200	1000
Methylene chloride	2.6	0.5	5
Metals, mg/L			
Arsenic	< 0.0021	0.005	0.05
Arsenic-DISS	< 0.0021	0.005	0.05
Barium	0.12	0.4	2
Barium-DISS	0.063	0.4	2
Cadmium	< 0.00028	0.0005	0.005
Cadmium-DISS	< 0.00028	0.0005	0.005
Cobalt	0.001	0.008	0.04
Cobalt-DISS	< 0.00074	0.008	0.04
Iron	< 0.042	0.15	0.3
Iron-DISS	< 0.042	0.15	0.3
Lead	< 0.0016	0.0015	0.015
Lead-DISS	0.0016	0.0015	0.015
Manganese	**2.6**	0.025	0.05
Manganese-DISS	**1.3**	0.025	0.05
Mercury	0.000088	0.0002	0.002
Mercury-DISS	0.00009	0.0002	0.002
Vanadium	< 0.00067	0.006	0.03
Vanadium-DISS	< 0.00067	0.006	0.03
Dissolved Gases, ug/L			
Ethane	< 0.3		
Ethene	< 0.29		
Methane	< 0.39		
Natural Attenuation Parameters, mg/L			
Chloride	5.5	125	250
Nitrate as N	< 0.0076	2	10
Sulfate	4.2	125	250
Total Alkalinity	130		
Total Organic Carbon	5		

Table 3
TRIP1
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
Methylene chloride	1.9	0.5	5

Table 3
TRIP2
Summary of Detected Compounds
Former Onalaska Landfill

Volatile Organic Compounds (VOC), ug/L	12/12/02	PAL	ES
Methylene chloride	2	0.5	5

SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

Client Sample ID: MW-1M
Sample #: 001 Date Sampled: 12/11/02 13:10 Date Received: 12/13/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**2.4**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**3.4 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
2-Hexanone	ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B	
Styrene	ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	

J Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-1M						
Sample #: 001 Date Sampled: 12/11/02 13:10 Date Received: 12/13/02 Matrix: WATER						
Inorganic Analysis						Reviewed
Alkalinity		**76**	**5.0**	**mg/L**	**MCAWW 310.1**	
Chloride		**7.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A	
Sulfate		**5.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**4**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: MW-1S						
Sample #: 002 Date Sampled: 12/11/02 13:35 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.0029 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		**0.00088 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Arsenic	**Dissolved**	**0.0030 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	**Dissolved**	**0.00032 B**	**0.0020**	**mg/L**	**SW846 6010B**	
Cobalt	**Dissolved**	**0.00079 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	**Dissolved**	**0.00099 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.034 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**0.15**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**0.86**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.027 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**0.053 B**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**0.34**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

Client Sample ID: MW-1S
Sample #: 002 Date Sampled: 12/11/02 13:35 Date Received: 12/13/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Dissolved Gases in Water					Reviewed
Ethane	ND	0.50	ug/L	RSK SOP-175	
Ethene	ND	0.50	ug/L	RSK SOP-175	
Methane	**18**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**2.4**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**3.7 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-1S						
Sample #: 002 Date Sampled: 12/11/02 13:35 Date Received: 12/13/02 Matrix: WATER						
Volatile Organics by GC/MS						Reviewed
cis-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B	
2-Hexanone		ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone		ND	10	ug/L	SW846 8260B	
Styrene		ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane		ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane		ND	1.0	ug/L	SW846 8260B	
Inorganic Analysis						Reviewed
Alkalinity		**120**	**5.0**	**mg/L**	**MCAWW 310.1**	
Chloride		**5.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A	
Sulfate		**19.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**4**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: PZ-02						
Sample #: 003 Date Sampled: 12/11/02 15:35 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.056**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.011**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		**0.0062**	**0.0030**	**mg/L**	**SW846 6010B**	
Vanadium		**0.026**	**0.0070**	**mg/L**	**SW846 6010B**	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0069 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.66**	**0.20**	**mg/L**	**SW846 6010B**	

J Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-02						
Sample #: 003 Date Sampled: 12/11/02 15:35 Date Received: 12/13/02 Matrix: WATER						
Iron		**98.8**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**5.2**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.037 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**0.43**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**4.2**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.00013 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000092 B**	**0.00020**	**mg/L**	**SW846 7470A**	

B Estimated result. Result is less than RL.

Dissolved Gases in Water					Reviewed
Ethane	ND	1.0	ug/L	RSK SOP-175	
Ethene	ND	1.0	ug/L	RSK SOP-175	
Methane	**98**	**1.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**2.4**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: PZ-02				
Sample #: 003 Date Sampled: 12/11/02 15:35 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**2.6 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**160**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**8.6**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A
Sulfate	**2.4**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**15**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: PZ-03				
Sample #: 004 Date Sampled: 12/11/02 16:10 Date Received: 12/13/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	**0.0038 B**	**0.010**	**mg/L**	**SW846 6010B**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-03						
Sample #: 004 Date Sampled: 12/11/02 16:10 Date Received: 12/13/02 Matrix: WATER						
Cadmium		**0.00099 B**	**0.0020**	**mg/L**	**SW846 6010B**	
Cobalt		**0.0018 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		**0.0028 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Arsenic	**Dissolved**	**0.0023 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	**Dissolved**	**0.00074 B**	**0.0020**	**mg/L**	**SW846 6010B**	
Cobalt	**Dissolved**	**0.0019 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	**Dissolved**	**0.0015 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.097 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**1.2**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**2.7**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.069 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**0.10**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**2.5**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.00012 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000096 B**	**0.00020**	**mg/L**	**SW846 7470A**	

B Estimated result. Result is less than RL.

Dissolved Gases in Water					Reviewed
Ethane	ND	0.50	ug/L	RSK SOP-175	
Ethene	ND	0.50	ug/L	RSK SOP-175	
Methane	**2.4**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: PZ-03				
Sample #: 004 Date Sampled: 12/11/02 16:10 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Methylene chloride	**2.5**	**1.0**	**ug/L**	**SW846 8260B**
Naphthalene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**3.1 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**160**	**5.0**	**mg/L**	**MCAWW 310.1**

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-03						
Sample #: 004 Date Sampled: 12/11/02 16:10 Date Received: 12/13/02 Matrix: WATER						
Chloride						Reviewed
Chloride		**6.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A	
Sulfate		**1.2**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Client Sample ID: MW-2M						
Sample #: 005 Date Sampled: 12/11/02 17:05 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.019**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	**Dissolved**	**0.0083 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.37**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**5.0**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**0.41**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.28**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**0.38**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000092 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000087 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-2M					
Sample #: 005 Date Sampled: 12/11/02 17:05 Date Received: 12/13/02 Matrix: WATER					
Dissolved Gases in Water					Reviewed
Ethene	ND	0.50	ug/L	RSK SOP-175	
Methane	**22**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**3.1**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**5.5 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-2M						
Sample #: 005 Date Sampled: 12/11/02 17:05 Date Received: 12/13/02 Matrix: WATER						
Volatile Organics by GC/MS						Reviewed
2-Hexanone		ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone		ND	10	ug/L	SW846 8260B	
Styrene		ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane		ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane		ND	1.0	ug/L	SW846 8260B	
J Estimated result. Result is less than RL.						
Inorganic Analysis						Reviewed
Alkalinity		**100**	**5.0**	**mg/L**	**MCAWW 310.1**	
Chloride		**4.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A	
Sulfate		**0.13 B**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**4**	**1**	**mg/L**	**MCAWW 415.1**	
B Estimated result. Result is less than RL.						
Client Sample ID: MW-2S						
Sample #: 006 Date Sampled: 12/11/02 17:20 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.012**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0080**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		**0.00084 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0014 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.17 B**	**0.20**	**mg/L**	**SW846 6010B**	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-2S					
Sample #: 006 Date Sampled: 12/11/02 17:20 Date Received: 12/13/02 Matrix: WATER					
Iron		**29.5**	**0.10**	**mg/L**	**SW846 6010B**
Manganese		**1.9**	**0.015**	**mg/L**	**SW846 6010B**
Barium	**Dissolved**	**0.13 B**	**0.20**	**mg/L**	**SW846 6010B**
Iron	**Dissolved**	**14.0**	**0.10**	**mg/L**	**SW846 6010B**
Manganese	**Dissolved**	**1.9**	**0.015**	**mg/L**	**SW846 6010B**
Mercury in Liquid Waste (Manual Cold-Vapor)					Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A
Mercury	**Dissolved**	**0.00010 B**	**0.00020**	**mg/L**	**SW846 7470A**
Dissolved Gases in Water					Reviewed
Ethane		ND	2.5	ug/L	RSK SOP-175
Ethene		ND	2.5	ug/L	RSK SOP-175
Methane		**520**	**2.5**	**ug/L**	**RSK SOP-175**
Volatile Organics by GC/MS					Reviewed
Benzene		**0.91 J**	**1.0**	**ug/L**	**SW846 8260B**
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B
Ethylbenzene		ND	1.0	ug/L	SW846 8260B
Methylene chloride		**2.8**	**1.0**	**ug/L**	**SW846 8260B**
Naphthalene		ND	1.0	ug/L	SW846 8260B
Tetrachloroethene		ND	1.0	ug/L	SW846 8260B
Toluene		ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane		ND	1.0	ug/L	SW846 8260B
Trichloroethene		ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B
Vinyl chloride		ND	1.0	ug/L	SW846 8260B
Xylenes (total)		ND	1.0	ug/L	SW846 8260B
Bromomethane		ND	1.0	ug/L	SW846 8260B
Chloroethane		ND	1.0	ug/L	SW846 8260B

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-2S				
Sample #: 006 Date Sampled: 12/11/02 17:20 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**3.8 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	**19**	**1.0**	**ug/L**	**SW846 8260B**
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**180**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**26.1**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A
Sulfate	ND	1.0	mg/L	MCAWW 300.0A
Total Organic Carbon	**6**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: MW-8S				
Sample #: 007 Date Sampled: 12/11/02 19:00 Date Received: 12/13/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	ND	0.010	mg/L	SW846 6010B

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-8S						
Sample #: 007 Date Sampled: 12/11/02 19:00 Date Received: 12/13/02 Matrix: WATER						
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.088 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**0.052 B**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**0.59**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.081 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**0.50**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	**Dissolved**	**0.000087 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	
Ethene		ND	0.50	ug/L	RSK SOP-175	
Methane		**0.58**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

Client Sample ID: MW-8S
Sample #: 007 Date Sampled: 12/11/02 19:00 Date Received: 12/13/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Methylene chloride	**2.6**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**2.2 J**	**10**	**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	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
2-Hexanone	ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B	
Styrene	ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	

J Estimated result. Result is less than RL.

Inorganic Analysis					Reviewed
Alkalinity	**190**	**5.0**	**mg/L**	**MCAWW 310.1**	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-8S						
Sample #: 007 Date Sampled: 12/11/02 19:00 Date Received: 12/13/02 Matrix: WATER						
Chloride						Reviewed
Chloride		**9.5**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		**1.5**	**0.10**	**mg/L**	**MCAWW 300.0A**	
Sulfate		**12.3**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**0.9 B**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: MW-8M						
Sample #: 008 Date Sampled: 12/11/02 19:10 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		ND	0.010	mg/L	SW846 6010B	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	**Dissolved**	**0.0024 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.68**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		ND	0.10	mg/L	SW846 6010B	
Manganese		**2.7**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.66**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**2.5**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000090 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000090 B**	**0.00020**	**mg/L**	**SW846 7470A**	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03
Project Number: ONALASKA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-8M				
Sample #: 008 Date Sampled: 12/11/02 19:10 Date Received: 12/13/02 Matrix: WATER				
Dissolved Gases in Water				Reviewed
Ethane	ND	0.50	ug/L	RSK SOP-175
Ethene	ND	0.50	ug/L	RSK SOP-175
Methane	**2.0**	**0.50**	**ug/L**	**RSK SOP-175**
Volatile Organics by GC/MS				Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	**3.2**	**1.0**	**ug/L**	**SW846 8260B**
Naphthalene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**2.9 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-8M					
Sample #: 008 Date Sampled: 12/11/02 19:10 Date Received: 12/13/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
cis-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B
2-Hexanone		ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone		ND	10	ug/L	SW846 8260B
Styrene		ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane		ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane		ND	1.0	ug/L	SW846 8260B
Inorganic Analysis					Reviewed
Alkalinity		**220**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride		**2.6**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A
Sulfate		**5.7**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon		**2**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: MW-12S					
Sample #: 009 Date Sampled: 12/11/02 18:20 Date Received: 12/13/02 Matrix: WATER					
Trace Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic		ND	0.010	mg/L	SW846 6010B
Cadmium		ND	0.0020	mg/L	SW846 6010B
Cobalt		ND	0.0070	mg/L	SW846 6010B
Lead		**0.0034**	**0.0030**	**mg/L**	**SW846 6010B**
Vanadium		ND	0.0070	mg/L	SW846 6010B
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B
Lead	**Dissolved**	**0.014**	**0.0030**	**mg/L**	**SW846 6010B**
Vanadium	**Dissolved**	**0.0011 B**	**0.0070**	**mg/L**	**SW846 6010B**
Inductively Coupled Plasma (ICP) Metals					Reviewed
Barium		**0.021 B**	**0.20**	**mg/L**	**SW846 6010B**

J Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-12S						
Sample #: 009 Date Sampled: 12/11/02 18:20 Date Received: 12/13/02 Matrix: WATER						
Iron		ND	0.10	mg/L	SW846 6010B	
Manganese		**0.0023 B**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.022 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	Dissolved	ND	0.015	mg/L	SW846 6010B	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	**Dissolved**	**0.00013 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	
Ethene		ND	0.50	ug/L	RSK SOP-175	
Methane		ND	0.50	ug/L	RSK SOP-175	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	
Methylene chloride		**2.7**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene		ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene		ND	1.0	ug/L	SW846 8260B	
Toluene		ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane		ND	1.0	ug/L	SW846 8260B	
Trichloroethene		ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B	
Vinyl chloride		ND	1.0	ug/L	SW846 8260B	
Xylenes (total)		ND	1.0	ug/L	SW846 8260B	
Bromomethane		ND	1.0	ug/L	SW846 8260B	
Chloroethane		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-12S				
Sample #: 009 Date Sampled: 12/11/02 18:20 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**3.0 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**170**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**24.3**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	**1.6**	**0.10**	**mg/L**	**MCAWW 300.0A**
Sulfate	**7.2**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**1**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: MW-4S				
Sample #: 010 Date Sampled: 12/12/02 09:30 Date Received: 12/13/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	**0.0089 B**	**0.010**	**mg/L**	**SW846 6010B**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-4S						
Sample #: 010 Date Sampled: 12/12/02 09:30 Date Received: 12/13/02 Matrix: WATER						
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	**Dissolved**	**0.0028 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.30**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**16.9**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**2.1**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.23**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**2.9**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**2.1**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	**Dissolved**	**0.000088 B**	**0.00020**	**mg/L**	**SW846 7470A**	

B Estimated result. Result is less than RL.

Dissolved Gases in Water					Reviewed
Ethane	ND	5.0	ug/L	RSK SOP-175	
Ethene	ND	5.0	ug/L	RSK SOP-175	
Methane	**1200**	**5.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	25	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	25	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	12	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	12	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	25	ug/L	SW846 8260B	
Ethylbenzene	**10 J**	**25**	**ug/L**	**SW846 8260B**	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-4S				
Sample #: 010 Date Sampled: 12/12/02 09:30 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Methylene chloride	ND	25	ug/L	SW846 8260B
Naphthalene	ND	25	ug/L	SW846 8260B
Tetrachloroethene	ND	25	ug/L	SW846 8260B
Toluene	ND	25	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	25	ug/L	SW846 8260B
Trichloroethene	ND	25	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	**540**	**25**	**ug/L**	**SW846 8260B**
1,3,5-Trimethylbenzene	**120**	**25**	**ug/L**	**SW846 8260B**
Vinyl chloride	ND	25	ug/L	SW846 8260B
Xylenes (total)	**29**	**25**	**ug/L**	**SW846 8260B**
Chloromethane	ND	25	ug/L	SW846 8260B
Bromomethane	ND	25	ug/L	SW846 8260B
Chloroethane	ND	25	ug/L	SW846 8260B
Acetone	ND	250	ug/L	SW846 8260B
Carbon disulfide	ND	25	ug/L	SW846 8260B
Chloroform	ND	25	ug/L	SW846 8260B
1,2-Dichloroethane	ND	25	ug/L	SW846 8260B
2-Butanone	ND	250	ug/L	SW846 8260B
Carbon tetrachloride	ND	25	ug/L	SW846 8260B
Bromodichloromethane	ND	25	ug/L	SW846 8260B
1,2-Dichloropropane	ND	25	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	25	ug/L	SW846 8260B
Dibromochloromethane	ND	25	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	25	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	25	ug/L	SW846 8260B
Bromoform	ND	25	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	250	ug/L	SW846 8260B
2-Hexanone	ND	250	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	25	ug/L	SW846 8260B
Chlorobenzene	ND	25	ug/L	SW846 8260B
Styrene	ND	25	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**280**	**5.0**	**mg/L**	**MCAWW 310.1**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-4S					
Sample #: 010 Date Sampled: 12/12/02 09:30 Date Received: 12/13/02 Matrix: WATER					
Chloride					Reviewed
Chloride		**13.5**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A
Sulfate		**0.98 B**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon		**5**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: MW-4S DUP					
Sample #: 011 Date Sampled: 12/12/02 09:35 Date Received: 12/13/02 Matrix: WATER					
Trace Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic		**0.0090 B**	**0.010**	**mg/L**	**SW846 6010B**
Cadmium		ND	0.0020	mg/L	SW846 6010B
Cobalt		ND	0.0070	mg/L	SW846 6010B
Lead		ND	0.0030	mg/L	SW846 6010B
Vanadium		ND	0.0070	mg/L	SW846 6010B
Arsenic	**Dissolved**	**0.0024 B**	**0.010**	**mg/L**	**SW846 6010B**
Cadmium	**Dissolved**	**0.00029 B**	**0.0020**	**mg/L**	**SW846 6010B**
Cobalt	**Dissolved**	**0.00095 B**	**0.0070**	**mg/L**	**SW846 6010B**
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B
Inductively Coupled Plasma (ICP) Metals					Reviewed
Barium		**0.32**	**0.20**	**mg/L**	**SW846 6010B**
Iron		**17.2**	**0.10**	**mg/L**	**SW846 6010B**
Manganese		**2.1**	**0.015**	**mg/L**	**SW846 6010B**
Barium	**Dissolved**	**0.25**	**0.20**	**mg/L**	**SW846 6010B**
Iron	**Dissolved**	**3.9**	**0.10**	**mg/L**	**SW846 6010B**
Manganese	**Dissolved**	**2.0**	**0.015**	**mg/L**	**SW846 6010B**
Mercury in Liquid Waste (Manual Cold-Vapor)					Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A
Mercury	**Dissolved**	**0.00018 B**	**0.00020**	**mg/L**	**SW846 7470A**

B Estimated result. Result is less than RL.

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03
Project Number: ONALASKA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-4S DUP				
Sample #: 011 Date Sampled: 12/12/02 09:35 Date Received: 12/13/02 Matrix: WATER				
Dissolved Gases in Water				Reviewed
Ethane	ND	5.0	ug/L	RSK SOP-175
Ethene	ND	5.0	ug/L	RSK SOP-175
Methane	**750**	**5.0**	**ug/L**	**RSK SOP-175**
Volatile Organics by GC/MS				Reviewed
Benzene	ND	25	ug/L	SW846 8260B
1,1-Dichloroethane	ND	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	12	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	12	ug/L	SW846 8260B
1,1-Dichloroethene	ND	25	ug/L	SW846 8260B
Ethylbenzene	ND	25	ug/L	SW846 8260B
Methylene chloride	ND	25	ug/L	SW846 8260B
Naphthalene	ND	25	ug/L	SW846 8260B
Tetrachloroethene	ND	25	ug/L	SW846 8260B
Toluene	ND	25	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	25	ug/L	SW846 8260B
Trichloroethene	ND	25	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	**570**	**25**	**ug/L**	**SW846 8260B**
1,3,5-Trimethylbenzene	**130**	**25**	**ug/L**	**SW846 8260B**
Vinyl chloride	ND	25	ug/L	SW846 8260B
Xylenes (total)	**27**	**25**	**ug/L**	**SW846 8260B**
Bromomethane	ND	25	ug/L	SW846 8260B
Chloroethane	ND	25	ug/L	SW846 8260B
Chloromethane	ND	25	ug/L	SW846 8260B
Acetone	ND	250	ug/L	SW846 8260B
Bromodichloromethane	ND	25	ug/L	SW846 8260B
Bromoform	ND	25	ug/L	SW846 8260B
2-Butanone	ND	250	ug/L	SW846 8260B
Carbon disulfide	ND	25	ug/L	SW846 8260B
Carbon tetrachloride	ND	25	ug/L	SW846 8260B
Chlorobenzene	ND	25	ug/L	SW846 8260B
Dibromochloromethane	ND	25	ug/L	SW846 8260B
Chloroform	ND	25	ug/L	SW846 8260B
1,2-Dichloroethane	ND	25	ug/L	SW846 8260B
1,2-Dichloropropane	ND	25	ug/L	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.

Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-4S DUP				
Sample #: 011 Date Sampled: 12/12/02 09:35 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
cis-1,3-Dichloropropene	ND	25	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	25	ug/L	SW846 8260B
2-Hexanone	ND	250	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	250	ug/L	SW846 8260B
Styrene	ND	25	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	25	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	25	ug/L	SW846 8260B
Inorganic Analysis				Reviewed
Alkalinity	**280**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**13.5**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A
Sulfate	**0.92 B**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**6**	**1**	**mg/L**	**MCAWW 415.1**

B Estimated result. Result is less than RL.

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-15M					
Sample #: 012 Date Sampled: 12/12/02 11:10 Date Received: 12/13/02 Matrix: WATER					
Trace Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic		**0.0054 B**	**0.010**	**mg/L**	**SW846 6010B**
Cadmium		**0.00031 B**	**0.0020**	**mg/L**	**SW846 6010B**
Cobalt		**0.0012 B**	**0.0070**	**mg/L**	**SW846 6010B**
Lead		**0.0049**	**0.0030**	**mg/L**	**SW846 6010B**
Vanadium		ND	0.0070	mg/L	SW846 6010B
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B
Cobalt	**Dissolved**	**0.00082 B**	**0.0070**	**mg/L**	**SW846 6010B**
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B
Inductively Coupled Plasma (ICP) Metals					Reviewed
Barium		**0.86**	**0.20**	**mg/L**	**SW846 6010B**

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-15M					
Sample #: 012 Date Sampled: 12/12/02 11:10 Date Received: 12/13/02 Matrix: WATER					
Iron		**1.1**	**0.10**	**mg/L**	**SW846 6010B**
Manganese		**3.6**	**0.015**	**mg/L**	**SW846 6010B**
Barium	**Dissolved**	**0.84**	**0.20**	**mg/L**	**SW846 6010B**
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B
Manganese	**Dissolved**	**3.6**	**0.015**	**mg/L**	**SW846 6010B**
Mercury in Liquid Waste (Manual Cold-Vapor)					Reviewed
Mercury		**0.000092 B**	**0.00020**	**mg/L**	**SW846 7470A**
Mercury	**Dissolved**	**0.000095 B**	**0.00020**	**mg/L**	**SW846 7470A**
Dissolved Gases in Water					Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175
Ethene		ND	0.50	ug/L	RSK SOP-175
Methane		**12**	**0.50**	**ug/L**	**RSK SOP-175**
Volatile Organics by GC/MS					Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane		**1.0**	**1.0**	**ug/L**	**SW846 8260B**
cis-1,2-Dichloroethene		**0.56**	**0.50**	**ug/L**	**SW846 8260B**
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B
Ethylbenzene		ND	1.0	ug/L	SW846 8260B
Methylene chloride		**3.0**	**1.0**	**ug/L**	**SW846 8260B**
Naphthalene		ND	1.0	ug/L	SW846 8260B
Tetrachloroethene		ND	1.0	ug/L	SW846 8260B
Toluene		ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane		ND	1.0	ug/L	SW846 8260B
Trichloroethene		ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B
Vinyl chloride		ND	1.0	ug/L	SW846 8260B
Xylenes (total)		ND	1.0	ug/L	SW846 8260B
Bromomethane		ND	1.0	ug/L	SW846 8260B
Chloroethane		ND	1.0	ug/L	SW846 8260B

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-15M				
Sample #: 012 Date Sampled: 12/12/02 11:10 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Inorganic Analysis				Reviewed
Alkalinity	**240**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**5.2**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	**0.030 B**	**0.10**	**mg/L**	**MCAWW 300.0A**
Sulfate	**2.4**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**

B Estimated result. Result is less than RL.

Client Sample ID: MW-6M				
Sample #: 013 Date Sampled: 12/12/02 12:05 Date Received: 12/13/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	**0.0024 B**	**0.010**	**mg/L**	**SW846 6010B**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-6M						
Sample #: 013 Date Sampled: 12/12/02 12:05 Date Received: 12/13/02 Matrix: WATER						
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	**Dissolved**	**0.0034 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.00078 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.75**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		ND	0.10	mg/L	SW846 6010B	
Manganese		**1.7**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.71**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**1.6**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000097 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000090 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	
Ethene		ND	0.50	ug/L	RSK SOP-175	
Methane		**1.1**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-6M				
Sample #: 013 Date Sampled: 12/12/02 12:05 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Methylene chloride	**2.1**	**1.0**	**ug/L**	**SW846 8260B**
Naphthalene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**2.1 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**100**	**5.0**	**mg/L**	**MCAWW 310.1**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-6M						
Sample #: 013 Date Sampled: 12/12/02 12:05 Date Received: 12/13/02 Matrix: WATER						
Chloride						Reviewed
Chloride		**6.0**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A	
Sulfate		**0.42 B**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**4**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: MW-6S						
Sample #: 014 Date Sampled: 12/12/02 12:20 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		ND	0.010	mg/L	SW846 6010B	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0022 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0013 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.17 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**0.065 B**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**2.7**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.13 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**1.6**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	**Dissolved**	**0.000090 B**	**0.00020**	**mg/L**	**SW846 7470A**	

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-6S					
Sample #: 014 Date Sampled: 12/12/02 12:20 Date Received: 12/13/02 Matrix: WATER					
Dissolved Gases in Water					Reviewed
Ethane	ND	0.50	ug/L	RSK SOP-175	
Ethene	ND	0.50	ug/L	RSK SOP-175	
Methane	**2.9**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	**0.55 J**	**1.0**	**ug/L**	**SW846 8260B**	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**2.2**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**2.6 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-6S					
Sample #: 014 Date Sampled: 12/12/02 12:20 Date Received: 12/13/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
cis-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B
2-Hexanone		ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone		ND	10	ug/L	SW846 8260B
Styrene		ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane		ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane		ND	1.0	ug/L	SW846 8260B
Inorganic Analysis					Reviewed
Alkalinity		**160**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride		**6.7**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N		ND	0.10	mg/L	MCAWW 300.0A
Sulfate		**4.0**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon		**6**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: PZ-4					
Sample #: 015 Date Sampled: 12/12/02 13:00 Date Received: 12/13/02 Matrix: WATER					
Trace Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic		ND	0.010	mg/L	SW846 6010B
Cadmium		ND	0.0020	mg/L	SW846 6010B
Cobalt		**0.0010 B**	**0.0070**	**mg/L**	**SW846 6010B**
Lead		ND	0.0030	mg/L	SW846 6010B
Vanadium		ND	0.0070	mg/L	SW846 6010B
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B
Lead	**Dissolved**	**0.0016 B**	**0.0030**	**mg/L**	**SW846 6010B**
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B
Inductively Coupled Plasma (ICP) Metals					Reviewed
Barium		**0.12 B**	**0.20**	**mg/L**	**SW846 6010B**

J Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03
Project Number: ONALASKA

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-4						
Sample #: 015 Date Sampled: 12/12/02 13:00 Date Received: 12/13/02 Matrix: WATER						
Iron		ND	0.10	mg/L	SW846 6010B	
Manganese		**2.6**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.063 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**1.3**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000088 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000090 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	
Ethene		ND	0.50	ug/L	RSK SOP-175	
Methane		ND	0.50	ug/L	RSK SOP-175	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	
Methylene chloride		**2.6**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene		ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene		ND	1.0	ug/L	SW846 8260B	
Toluene		ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane		ND	1.0	ug/L	SW846 8260B	
Trichloroethene		ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B	
Vinyl chloride		ND	1.0	ug/L	SW846 8260B	
Xylenes (total)		ND	1.0	ug/L	SW846 8260B	
Bromomethane		ND	1.0	ug/L	SW846 8260B	
Chloroethane		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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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.

Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: PZ-4				
Sample #: 015 Date Sampled: 12/12/02 13:00 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**3.5 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**130**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**5.5**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A
Sulfate	**4.2**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**5**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: PZ-5				
Sample #: 016 Date Sampled: 12/12/02 10:25 Date Received: 12/13/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	ND	0.010	mg/L	SW846 6010B

(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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-5						
Sample #: 016 Date Sampled: 12/12/02 10:25 Date Received: 12/13/02 Matrix: WATER						
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		**0.0011 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	**Dissolved**	**0.00078 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.091 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**0.13**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**0.18**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.086 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**0.080**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000098 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.00011 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	1.0	ug/L	RSK SOP-175	
Ethene		ND	1.0	ug/L	RSK SOP-175	
Methane		**130**	**1.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

Client Sample ID: PZ-5
Sample #: 016 Date Sampled: 12/12/02 10:25 Date Received: 12/13/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Methylene chloride	**2.5**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**3.0 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
2-Hexanone	ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B	
Styrene	ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	

J Estimated result. Result is less than RL.

Inorganic Analysis					Reviewed
Alkalinity	**260**	**5.0**	**mg/L**	**MCAWW 310.1**	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-5						
Sample #: 016 Date Sampled: 12/12/02 10:25 Date Received: 12/13/02 Matrix: WATER						
Chloride						Reviewed
Chloride		**9.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		**0.48**	**0.10**	**mg/L**	**MCAWW 300.0A**	
Sulfate		**5.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**2**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: MW-5S						
Sample #: 017 Date Sampled: 12/12/02 14:15 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.0098 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0025 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0026 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.18 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**10.2**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**1.6**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.15 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**2.2**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**1.6**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000088 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-5S					
Sample #: 017 Date Sampled: 12/12/02 14:15 Date Received: 12/13/02 Matrix: WATER					
Dissolved Gases in Water					Reviewed
Ethane	ND	5.0	ug/L	RSK SOP-175	
Ethene	ND	5.0	ug/L	RSK SOP-175	
Methane	**130**	**5.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	7.7	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	7.7	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	3.8	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	3.8	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	7.7	ug/L	SW846 8260B	
Ethylbenzene	**6.2 J**	**7.7**	**ug/L**	**SW846 8260B**	
Methylene chloride	**3.9 J**	**7.7**	**ug/L**	**SW846 8260B**	
Naphthalene	**6.2 J**	**7.7**	**ug/L**	**SW846 8260B**	
Tetrachloroethene	ND	7.7	ug/L	SW846 8260B	
Toluene	ND	7.7	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	7.7	ug/L	SW846 8260B	
Trichloroethene	ND	7.7	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	**210**	**7.7**	**ug/L**	**SW846 8260B**	
1,3,5-Trimethylbenzene	**47**	**7.7**	**ug/L**	**SW846 8260B**	
Vinyl chloride	ND	7.7	ug/L	SW846 8260B	
Xylenes (total)	**12**	**7.7**	**ug/L**	**SW846 8260B**	
Bromomethane	ND	7.7	ug/L	SW846 8260B	
Chloroethane	ND	7.7	ug/L	SW846 8260B	
Chloromethane	ND	7.7	ug/L	SW846 8260B	
Acetone	ND	77	ug/L	SW846 8260B	
Bromodichloromethane	ND	7.7	ug/L	SW846 8260B	
Bromoform	ND	7.7	ug/L	SW846 8260B	
2-Butanone	ND	77	ug/L	SW846 8260B	
Carbon disulfide	ND	7.7	ug/L	SW846 8260B	
Carbon tetrachloride	ND	7.7	ug/L	SW846 8260B	
Chlorobenzene	ND	7.7	ug/L	SW846 8260B	
Dibromochloromethane	ND	7.7	ug/L	SW846 8260B	
Chloroform	ND	7.7	ug/L	SW846 8260B	
1,2-Dichloroethane	ND	7.7	ug/L	SW846 8260B	
1,2-Dichloropropane	ND	7.7	ug/L	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.

Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-5S					
Sample #: 017 Date Sampled: 12/12/02 14:15 Date Received: 12/13/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
cis-1,3-Dichloropropene	ND	7.7	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	7.7	ug/L	SW846 8260B	
2-Hexanone	ND	77	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	77	ug/L	SW846 8260B	
Styrene	ND	7.7	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	7.7	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	7.7	ug/L	SW846 8260B	
J Estimated result. Result is less than RL.					
Inorganic Analysis					Reviewed
Alkalinity	**140**	**5.0**	**mg/L**	**MCAWW 310.1**	
Chloride	**5.8**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N	**0.10**	**0.10**	**mg/L**	**MCAWW 300.0A**	
Sulfate	**0.34 B**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon	**5**	**1**	**mg/L**	**MCAWW 415.1**	
B Estimated result. Result is less than RL.					
Client Sample ID: TRIP					
Sample #: 018 Date Sampled: 12/12/02 14:15 Date Received: 12/13/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**2.0**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: TRIP				
Sample #: 018 Date Sampled: 12/12/02 14:15 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Client Sample ID: MW-14S				
Sample #: 019 Date Sampled: 12/12/02 15:00 Date Received: 12/13/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	ND	0.010	mg/L	SW846 6010B
Cadmium	**0.00045 B**	**0.0020**	**mg/L**	**SW846 6010B**
Cobalt	**0.0052 B**	**0.0070**	**mg/L**	**SW846 6010B**
Lead	ND	0.0030	mg/L	SW846 6010B

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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.

Lot #: A2L130219 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-14S						
Sample #: 019 Date Sampled: 12/12/02 15:00 Date Received: 12/13/02 Matrix: WATER						
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0052 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.18 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**11.6**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**3.7**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.15 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**4.9**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**3.4**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000088 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.000095 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	5.0	ug/L	RSK SOP-175	
Ethene		ND	5.0	ug/L	RSK SOP-175	
Methane		**450**	**5.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	
Methylene chloride		**2.1**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene		**5.0**	**1.0**	**ug/L**	**SW846 8260B**	
Tetrachloroethene		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: MW-14S				
Sample #: 019 Date Sampled: 12/12/02 15:00 Date Received: 12/13/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	**1.7**	**1.0**	**ug/L**	**SW846 8260B**
1,3,5-Trimethylbenzene	**0.64 J**	**1.0**	**ug/L**	**SW846 8260B**
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	**1.4**	**1.0**	**ug/L**	**SW846 8260B**
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**4.3 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**210**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**5.0**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	**0.010 B**	**0.10**	**mg/L**	**MCAWW 300.0A**
Sulfate	**3.0**	**1.0**	**mg/L**	**MCAWW 300.0A**

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-14S						
Sample #: 019 Date Sampled: 12/12/02 15:00 Date Received: 12/13/02 Matrix: WATER						
Total Organic Carbon						Reviewed
Total Organic Carbon		**14**	**1**	**mg/L**	**MCAWW 415.1**	
B Estimated result. Result is less than RL.						
Client Sample ID: PZ-1						
Sample #: 020 Date Sampled: 12/12/02 15:30 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.0029 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		**0.0013 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	**Dissolved**	**0.0011 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.024 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		ND	0.10	mg/L	SW846 6010B	
Manganese		**0.19**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.022 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**0.18**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		**0.000091 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Mercury	**Dissolved**	**0.00010 B**	**0.00020**	**mg/L**	**SW846 7470A**	
B Estimated result. Result is less than RL.						
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-1					
Sample #: 020 Date Sampled: 12/12/02 15:30 Date Received: 12/13/02 Matrix: WATER					
Dissolved Gases in Water					Reviewed
Ethene	ND	0.50	ug/L	RSK SOP-175	
Methane	**6.6**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**3.4**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	ND	10	ug/L	SW846 8260B	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 **Date Reported:** 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: PZ-1					
Sample #: 020 Date Sampled: 12/12/02 15:30 Date Received: 12/13/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
2-Hexanone	ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B	
Styrene	ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Inorganic Analysis					Reviewed
Alkalinity	**120**	**5.0**	**mg/L**	**MCAWW 310.1**	
Chloride	**9.4**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N	**0.23**	**0.10**	**mg/L**	**MCAWW 300.0A**	
Sulfate	**1.6**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon	**3**	**1**	**mg/L**	**MCAWW 415.1**	

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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-13						
Sample #: 001 Date Sampled: 12/12/02 19:00 Date Received: 12/14/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.0033 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0043 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0045 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.28**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**4.7**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**24.3**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.22**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**21.1**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	
Dissolved Gases in Water						Reviewed
Ethane		ND	2.5	ug/L	RSK SOP-175	
Ethene		ND	2.5	ug/L	RSK SOP-175	
Methane		**300**	**2.5**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

Client Sample ID: AW-13
Sample #: 001 Date Sampled: 12/12/02 19:00 Date Received: 12/14/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Volatile Organics by GC/MS				Reviewed
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	**3.6**	**1.0**	**ug/L**	**SW846 8260B**
Naphthalene	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	**2.0**	**1.0**	**ug/L**	**SW846 8260B**
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**2.5 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

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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.

Lot #: A2L140130 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-13						
Sample #: 001 Date Sampled: 12/12/02 19:00 Date Received: 12/14/02 Matrix: WATER						
Inorganic Analysis						Reviewed
Alkalinity		550	5.0	mg/L	MCAWW 310.1	
Chloride		2.6	2.0	mg/L	MCAWW 300.0A	
Nitrate as N		0.20	0.10	mg/L	MCAWW 300.0A	
Sulfate		3.1	1.0	mg/L	MCAWW 300.0A	
Total Organic Carbon		5	1	mg/L	MCAWW 415.1	
Client Sample ID: AW-13 DUP						
Sample #: 002 Date Sampled: 12/12/02 19:05 Date Received: 12/14/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		ND	0.010	mg/L	SW846 6010B	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0044 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0043 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		0.27	0.20	mg/L	SW846 6010B	
Iron		5.1	0.10	mg/L	SW846 6010B	
Manganese		23.7	0.015	mg/L	SW846 6010B	
Barium	**Dissolved**	0.23	0.20	mg/L	SW846 6010B	
Iron	**Dissolved**	0.062 B	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	22.1	0.015	mg/L	SW846 6010B	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	

B Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

Client Sample ID: AW-13 DUP
Sample #: 002 Date Sampled: 12/12/02 19:05 Date Received: 12/14/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Dissolved Gases in Water					Reviewed
Ethane	ND	1.0	ug/L	RSK SOP-175	
Ethene	ND	1.0	ug/L	RSK SOP-175	
Methane	**340**	**1.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**3.6**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	**1.8**	**1.0**	**ug/L**	**SW846 8260B**	
1,3,5-Trimethylbenzene	**1.1**	**1.0**	**ug/L**	**SW846 8260B**	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**5.9 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	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.

Lot #: A2L140130 ONALASKA LANDFILL Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-13 DUP						
Sample #: 002 Date Sampled: 12/12/02 19:05 Date Received: 12/14/02 Matrix: WATER						
Volatile Organics by GC/MS						Reviewed
cis-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene		ND	1.0	ug/L	SW846 8260B	
2-Hexanone		ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone		ND	10	ug/L	SW846 8260B	
Styrene		ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane		ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane		ND	1.0	ug/L	SW846 8260B	
Inorganic Analysis						Reviewed
Alkalinity		**550**	**5.0**	**mg/L**	**MCAWW 310.1**	
Chloride		**2.3**	**2.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N		**0.28**	**0.10**	**mg/L**	**MCAWW 300.0A**	
Sulfate		**2.7**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon		**4**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: AW-28						
Sample #: 003 Date Sampled: 12/12/02 20:00 Date Received: 12/14/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.0026 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0064 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0063 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.26**	**0.20**	**mg/L**	**SW846 6010B**	

J Estimated result. Result is less than RL.

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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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: AW-28					
Sample #: 003 Date Sampled: 12/12/02 20:00 Date Received: 12/14/02 Matrix: WATER					
Iron		**9.8**	**0.10**	**mg/L**	**SW846 6010B**
Manganese		**5.0**	**0.015**	**mg/L**	**SW846 6010B**
Barium	**Dissolved**	**0.21**	**0.20**	**mg/L**	**SW846 6010B**
Iron	**Dissolved**	**2.3**	**0.10**	**mg/L**	**SW846 6010B**
Manganese	**Dissolved**	**4.6**	**0.015**	**mg/L**	**SW846 6010B**
Mercury in Liquid Waste (Manual Cold-Vapor)					Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A
Mercury	**Dissolved**	**0.000096 B**	**0.00020**	**mg/L**	**SW846 7470A**
Dissolved Gases in Water					Reviewed
Ethane		ND	5.0	ug/L	RSK SOP-175
Ethene		ND	5.0	ug/L	RSK SOP-175
Methane		**1200**	**5.0**	**ug/L**	**RSK SOP-175**
Volatile Organics by GC/MS					Reviewed
Benzene		ND	1.2	ug/L	SW846 8260B
1,1-Dichloroethane		ND	1.2	ug/L	SW846 8260B
cis-1,2-Dichloroethene		ND	0.62	ug/L	SW846 8260B
trans-1,2-Dichloroethene		ND	0.62	ug/L	SW846 8260B
1,1-Dichloroethene		ND	1.2	ug/L	SW846 8260B
Ethylbenzene		ND	1.2	ug/L	SW846 8260B
Methylene chloride		**4.6**	**1.2**	**ug/L**	**SW846 8260B**
Naphthalene		ND	1.2	ug/L	SW846 8260B
Tetrachloroethene		ND	1.2	ug/L	SW846 8260B
Toluene		**0.83 J**	**1.2**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane		ND	1.2	ug/L	SW846 8260B
Trichloroethene		ND	1.2	ug/L	SW846 8260B
1,2,4-Trimethylbenzene		**45**	**1.2**	**ug/L**	**SW846 8260B**
1,3,5-Trimethylbenzene		**21**	**1.2**	**ug/L**	**SW846 8260B**
Vinyl chloride		ND	1.2	ug/L	SW846 8260B
Xylenes (total)		**2.9**	**1.2**	**ug/L**	**SW846 8260B**
Bromomethane		ND	1.2	ug/L	SW846 8260B
Chloroethane		ND	1.2	ug/L	SW846 8260B

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: AW-28				
Sample #: 003 Date Sampled: 12/12/02 20:00 Date Received: 12/14/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.2	ug/L	SW846 8260B
Acetone	**5.4 J**	**12**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.2	ug/L	SW846 8260B
Bromoform	ND	1.2	ug/L	SW846 8260B
2-Butanone	ND	12	ug/L	SW846 8260B
Carbon disulfide	ND	1.2	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.2	ug/L	SW846 8260B
Chlorobenzene	ND	1.2	ug/L	SW846 8260B
Dibromochloromethane	ND	1.2	ug/L	SW846 8260B
Chloroform	ND	1.2	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.2	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.2	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.2	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.2	ug/L	SW846 8260B
2-Hexanone	ND	12	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	12	ug/L	SW846 8260B
Styrene	ND	1.2	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.2	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.2	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**370**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**10.8**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	**1.1**	**0.10**	**mg/L**	**MCAWW 300.0A**
Sulfate	**1.4**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**9**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: AW-25				
Sample #: 004 Date Sampled: 12/12/02 17:20 Date Received: 12/14/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	**0.0034 B**	**0.010**	**mg/L**	**SW846 6010B**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-25						
Sample #: 004 Date Sampled: 12/12/02 17:20 Date Received: 12/14/02 Matrix: WATER						
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		**0.0049 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0044 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.43**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**13.8**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**6.6**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.30**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**1.8**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**5.5**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	
Dissolved Gases in Water						Reviewed
Ethane		ND	5.0	ug/L	RSK SOP-175	
Ethene		ND	5.0	ug/L	RSK SOP-175	
Methane		**570**	**5.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	7.8	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	7.8	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	3.9	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	3.9	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	7.8	ug/L	SW846 8260B	
Ethylbenzene		ND	7.8	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: AW-25				
Sample #: 004 Date Sampled: 12/12/02 17:20 Date Received: 12/14/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Methylene chloride	**5.1 J**	**7.8**	**ug/L**	**SW846 8260B**
Naphthalene	**4.5 J**	**7.8**	**ug/L**	**SW846 8260B**
Tetrachloroethene	ND	7.8	ug/L	SW846 8260B
Toluene	ND	7.8	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	7.8	ug/L	SW846 8260B
Trichloroethene	ND	7.8	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	**240**	**7.8**	**ug/L**	**SW846 8260B**
1,3,5-Trimethylbenzene	**38**	**7.8**	**ug/L**	**SW846 8260B**
Vinyl chloride	ND	7.8	ug/L	SW846 8260B
Xylenes (total)	**5.6 J**	**7.8**	**ug/L**	**SW846 8260B**
Bromomethane	ND	7.8	ug/L	SW846 8260B
Chloroethane	ND	7.8	ug/L	SW846 8260B
Chloromethane	ND	7.8	ug/L	SW846 8260B
Acetone	ND	78	ug/L	SW846 8260B
Bromodichloromethane	ND	7.8	ug/L	SW846 8260B
Bromoform	ND	7.8	ug/L	SW846 8260B
2-Butanone	ND	78	ug/L	SW846 8260B
Carbon disulfide	ND	7.8	ug/L	SW846 8260B
Carbon tetrachloride	ND	7.8	ug/L	SW846 8260B
Chlorobenzene	ND	7.8	ug/L	SW846 8260B
Dibromochloromethane	ND	7.8	ug/L	SW846 8260B
Chloroform	ND	7.8	ug/L	SW846 8260B
1,2-Dichloroethane	ND	7.8	ug/L	SW846 8260B
1,2-Dichloropropane	ND	7.8	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	7.8	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	7.8	ug/L	SW846 8260B
2-Hexanone	ND	78	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	78	ug/L	SW846 8260B
Styrene	ND	7.8	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	7.8	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	7.8	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**520**	**5.0**	**mg/L**	**MCAWW 310.1**

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: AW-25					
Sample #: 004 Date Sampled: 12/12/02 17:20 Date Received: 12/14/02 Matrix: WATER					
Chloride					Reviewed
Chloride		**2.1**	**2.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N		**0.97**	**0.10**	**mg/L**	**MCAWW 300.0A**
Sulfate		**4.4**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon		**7**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: AW-20					
Sample #: 005 Date Sampled: 12/12/02 17:30 Date Received: 12/14/02 Matrix: WATER					
Trace Inductively Coupled Plasma (ICP) Metals					Reviewed
Arsenic		**0.0088 B**	**0.010**	**mg/L**	**SW846 6010B**
Cadmium		**0.00037 B**	**0.0020**	**mg/L**	**SW846 6010B**
Cobalt		**0.011**	**0.0070**	**mg/L**	**SW846 6010B**
Lead		ND	0.0030	mg/L	SW846 6010B
Vanadium		ND	0.0070	mg/L	SW846 6010B
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B
Cobalt	**Dissolved**	**0.011**	**0.0070**	**mg/L**	**SW846 6010B**
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B
Inductively Coupled Plasma (ICP) Metals					Reviewed
Barium		**0.29**	**0.20**	**mg/L**	**SW846 6010B**
Iron		**23.3**	**0.10**	**mg/L**	**SW846 6010B**
Manganese		**17.0**	**0.015**	**mg/L**	**SW846 6010B**
Barium	**Dissolved**	**0.16 B**	**0.20**	**mg/L**	**SW846 6010B**
Iron	**Dissolved**	**3.3**	**0.10**	**mg/L**	**SW846 6010B**
Manganese	**Dissolved**	**14.1**	**0.015**	**mg/L**	**SW846 6010B**
Mercury in Liquid Waste (Manual Cold-Vapor)					Reviewed
Mercury		**0.000087 B**	**0.00020**	**mg/L**	**SW846 7470A**
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A

B Estimated result. Result is less than RL.

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-20					
Sample #: 005 Date Sampled: 12/12/02 17:30 Date Received: 12/14/02 Matrix: WATER					
Dissolved Gases in Water					Reviewed
Ethane	ND	5.0	ug/L	RSK SOP-175	
Ethene	ND	5.0	ug/L	RSK SOP-175	
Methane	**1600**	**5.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**3.4**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	**0.64 J**	**1.0**	**ug/L**	**SW846 8260B**	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	**22**	**1.0**	**ug/L**	**SW846 8260B**	
1,3,5-Trimethylbenzene	**17**	**1.0**	**ug/L**	**SW846 8260B**	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	**1.1**	**1.0**	**ug/L**	**SW846 8260B**	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**3.6 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: AW-20				
Sample #: 005 Date Sampled: 12/12/02 17:30 Date Received: 12/14/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Inorganic Analysis				Reviewed
Alkalinity	**600**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**1.8**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A
Sulfate	**1.1**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**15**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: AW-9				
Sample #: 006 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	ND	0.010	mg/L	SW846 6010B
Cadmium	ND	0.0020	mg/L	SW846 6010B
Cobalt	ND	0.0070	mg/L	SW846 6010B
Lead	ND	0.0030	mg/L	SW846 6010B
Vanadium	ND	0.0070	mg/L	SW846 6010B
Arsenic Dissolved	ND	0.010	mg/L	SW846 6010B
Cadmium Dissolved	ND	0.0020	mg/L	SW846 6010B
Cobalt Dissolved	ND	0.0070	mg/L	SW846 6010B
Lead Dissolved	ND	0.0030	mg/L	SW846 6010B
Vanadium Dissolved	ND	0.0070	mg/L	SW846 6010B
Inductively Coupled Plasma (ICP) Metals				Reviewed
Barium	**0.072 B**	**0.20**	**mg/L**	**SW846 6010B**

J Estimated result. Result is less than RL.

(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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-9						
Sample #: 006 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER						
Iron		**0.067 B**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**0.041**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.064 B**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	Dissolved	ND	0.10	mg/L	SW846 6010B	
Manganese	**Dissolved**	**0.040**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	
Ethene		ND	0.50	ug/L	RSK SOP-175	
Methane		**260**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	
Methylene chloride		**3.8**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene		ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene		ND	1.0	ug/L	SW846 8260B	
Toluene		ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane		ND	1.0	ug/L	SW846 8260B	
Trichloroethene		ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene		**1.6**	**1.0**	**ug/L**	**SW846 8260B**	
1,3,5-Trimethylbenzene		ND	1.0	ug/L	SW846 8260B	
Vinyl chloride		ND	1.0	ug/L	SW846 8260B	
Xylenes (total)		ND	1.0	ug/L	SW846 8260B	
Bromomethane		ND	1.0	ug/L	SW846 8260B	
Chloroethane		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

(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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
Client Sample ID: AW-9				
Sample #: 006 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER				
Volatile Organics by GC/MS				Reviewed
Chloromethane	ND	1.0	ug/L	SW846 8260B
Acetone	**2.9 J**	**10**	**ug/L**	**SW846 8260B**
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	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
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B

J Estimated result. Result is less than RL.

Inorganic Analysis				Reviewed
Alkalinity	**220**	**5.0**	**mg/L**	**MCAWW 310.1**
Chloride	**3.1**	**1.0**	**mg/L**	**MCAWW 300.0A**
Nitrate as N	**0.42**	**0.10**	**mg/L**	**MCAWW 300.0A**
Sulfate	**3.5**	**1.0**	**mg/L**	**MCAWW 300.0A**
Total Organic Carbon	**1**	**1**	**mg/L**	**MCAWW 415.1**
Client Sample ID: AW-1				
Sample #: 007 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER				
Trace Inductively Coupled Plasma (ICP) Metals				Reviewed
Arsenic	ND	0.010	mg/L	SW846 6010B

(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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-1						
Sample #: 007 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER						
Cadmium		**0.0032**	**0.0020**	**mg/L**	**SW846 6010B**	
Cobalt		**0.0043 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	Dissolved	ND	0.010	mg/L	SW846 6010B	
Cadmium	Dissolved	ND	0.0020	mg/L	SW846 6010B	
Cobalt	**Dissolved**	**0.0045 B**	**0.0070**	**mg/L**	**SW846 6010B**	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.25**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**4.5**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**6.0**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.21**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**2.9**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**5.3**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	Dissolved	ND	0.00020	mg/L	SW846 7470A	
Dissolved Gases in Water						Reviewed
Ethane		ND	5.0	ug/L	RSK SOP-175	
Ethene		ND	5.0	ug/L	RSK SOP-175	
Methane		**1500**	**5.0**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene		ND	1.0	ug/L	SW846 8260B	
Ethylbenzene		ND	1.0	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

(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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

Client Sample ID: AW-1
Sample #: 007 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Volatile Organics by GC/MS					Reviewed
Methylene chloride	**3.8**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	**25**	**1.0**	**ug/L**	**SW846 8260B**	
1,3,5-Trimethylbenzene	**22**	**1.0**	**ug/L**	**SW846 8260B**	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	**4.0**	**1.0**	**ug/L**	**SW846 8260B**	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	**6.0 J**	**10**	**ug/L**	**SW846 8260B**	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	SW846 8260B	
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
2-Hexanone	ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B	
Styrene	ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	

J Estimated result. Result is less than RL.

Inorganic Analysis					Reviewed
Alkalinity	**290**	**5.0**	**mg/L**	**MCAWW 310.1**	

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SEVERN TRENT LABORATORIES, INC.

PRELIMINARY DATA SUMMARY

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ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L140130 Date Reported: 2/25/03

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: AW-1					
Sample #: 007 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER					
Chloride					Reviewed
Chloride	**2.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	
Sulfate	**9.1**	**1.0**	**mg/L**	**MCAWW 300.0A**	
Total Organic Carbon	**6**	**1**	**mg/L**	**MCAWW 415.1**	
Client Sample ID: TRIP					
Sample #: 008 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
Benzene	ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene	ND	0.50	ug/L	SW846 8260B	
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B	
Ethylbenzene	ND	1.0	ug/L	SW846 8260B	
Methylene chloride	**1.9**	**1.0**	**ug/L**	**SW846 8260B**	
Naphthalene	ND	1.0	ug/L	SW846 8260B	
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B	
Toluene	ND	1.0	ug/L	SW846 8260B	
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B	
Trichloroethene	ND	1.0	ug/L	SW846 8260B	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B	
Vinyl chloride	ND	1.0	ug/L	SW846 8260B	
Xylenes (total)	ND	1.0	ug/L	SW846 8260B	
Chloromethane	ND	1.0	ug/L	SW846 8260B	
Acetone	ND	10	ug/L	SW846 8260B	
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B	
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
Bromomethane	ND	1.0	ug/L	SW846 8260B	
Chloroethane	ND	1.0	ug/L	SW846 8260B	
Bromoform	ND	1.0	ug/L	SW846 8260B	
2-Butanone	ND	10	ug/L	SW846 8260B	
Carbon disulfide	ND	1.0	ug/L	SW846 8260B	
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B	
Chlorobenzene	ND	1.0	ug/L	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.

ENSR Consulting & Engineering

Lot #: A2L140130 — ONALASKA LANDFILL — Date Reported: 2/25/03

Project Number: ONALASKA

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: TRIP					
Sample #: 008 Date Sampled: 12/12/02 18:00 Date Received: 12/14/02 Matrix: WATER					
Volatile Organics by GC/MS					Reviewed
Dibromochloromethane	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	
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B	
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B	
2-Hexanone	ND	10	ug/L	SW846 8260B	
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B	
Styrene	ND	1.0	ug/L	SW846 8260B	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B	
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B	

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.

ENSR Consulting & Engineering
ONALASKA LANDFILL
Project Number: ONALASKA

Lot #: A2L130219 Date Reported: 2/25/03

PARAMETER		RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD	
Client Sample ID: MW-1M						
Sample #: 001 Date Sampled: 12/11/02 13:10 Date Received: 12/13/02 Matrix: WATER						
Trace Inductively Coupled Plasma (ICP) Metals						Reviewed
Arsenic		**0.014**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium		ND	0.0020	mg/L	SW846 6010B	
Cobalt		ND	0.0070	mg/L	SW846 6010B	
Lead		ND	0.0030	mg/L	SW846 6010B	
Vanadium		ND	0.0070	mg/L	SW846 6010B	
Arsenic	**Dissolved**	**0.0024 B**	**0.010**	**mg/L**	**SW846 6010B**	
Cadmium	**Dissolved**	**0.00029 B**	**0.0020**	**mg/L**	**SW846 6010B**	
Cobalt	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Lead	Dissolved	ND	0.0030	mg/L	SW846 6010B	
Vanadium	Dissolved	ND	0.0070	mg/L	SW846 6010B	
Inductively Coupled Plasma (ICP) Metals						Reviewed
Barium		**0.32**	**0.20**	**mg/L**	**SW846 6010B**	
Iron		**8.7**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese		**1.7**	**0.015**	**mg/L**	**SW846 6010B**	
Barium	**Dissolved**	**0.22**	**0.20**	**mg/L**	**SW846 6010B**	
Iron	**Dissolved**	**0.10**	**0.10**	**mg/L**	**SW846 6010B**	
Manganese	**Dissolved**	**1.5**	**0.015**	**mg/L**	**SW846 6010B**	
Mercury in Liquid Waste (Manual Cold-Vapor)						Reviewed
Mercury		ND	0.00020	mg/L	SW846 7470A	
Mercury	**Dissolved**	**0.00011 B**	**0.00020**	**mg/L**	**SW846 7470A**	
Dissolved Gases in Water						Reviewed
Ethane		ND	0.50	ug/L	RSK SOP-175	
Ethene		ND	0.50	ug/L	RSK SOP-175	
Methane		**9.9**	**0.50**	**ug/L**	**RSK SOP-175**	
Volatile Organics by GC/MS						Reviewed
Benzene		ND	1.0	ug/L	SW846 8260B	
1,1-Dichloroethane		ND	1.0	ug/L	SW846 8260B	
cis-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	
trans-1,2-Dichloroethene		ND	0.50	ug/L	SW846 8260B	

B Estimated result. Result is less than RL.

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Chain of Custody Record

SEVERN TRENT SERVICES — **Severn Trent Laboratories, Inc.**

STL-4124 (0901)

Client: ENSR	Project Manager: Peter Moore	Date: 12-11-02	Chain of Custody Number: 118612
Address: 4500 Park Glen Road	Telephone Number (Area Code)/Fax Number: 952-924-0117 952-924-0312	Lab Number:	Page 1 of 2
City: St Louis Park / State: MN / Zip Code: 55416	Site Contact: Peter Moore	Lab Contact: Dave Hutton	
Project Name and Location (State): Camlaske Landfill	Carrier/Waybill Number: Fed Ex 828099703465		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: VOCs (Full List)	Total Metals	Dissolved Metals	Sulfide, Nitrate, Sulfate, Alk.	Methane, Ethane, Ethene	TOC	Special Instructions/ Conditions of Receipt
MW-1M	12-11-02	~~13:10~~ ~~13:00~~		X			2	2	1	5			X	X	X	X	X	X	- Nitrate Sample has 48 hr hold
MW-1S		13:35																	
PZ-02		15:35																	
PZ-03		16:10																	- Please Filter Dissolved Metal Sample
MW-2M		17:05																	
MW-2S		17:20																	
MW-8S		19:00																	
MW-8M		19:10																	NO TOC on PZ-3
MW-12S		18:20																	
MW-4S	12/12/02	930		X			2	2	1	5			X	X	X	X	X	X	
MW-4S Dup		935																	
MW-4S MS		940																	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other PSR Requirements
Nitrate Early

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/12/02	17:00	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: Some of the 40ml Vials were initially Mislabeled But Corrected. Please pay Attention to Any Changes on the

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ENSR	Project Manager: Peter Moore	Date: 12-12-02	Chain of Custody Number: 118611
Address: 4500 Park Glen Road Suite 210	Telephone Number (Area Code)/Fax Number: 952 924 0117 952 924 0317	Lab Number:	Page 2 of 2
City: St. Louis Park / State: MN / Zip Code: 55416	Site Contact: Peter Moore	Lab Contact: Dave Heaken	
Project Name and Location (State): ONALASKA Landfill	Carrier/Waybill Number: Fed Ex 828099703465		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOCs (Full List)	Total Metals	Dissolved Metals	Chloride, Nitrate, Sulfate, Alk	RSK	TOC	Special Instructions/ Conditions of Receipt
MW-15M	12-12-02	11:10		X			2	2	1	5			X	X	X	X	X	X	Nitrate Sample has 48 hour TAT
MW-6M		12:05																	
MW-6S		12:20																	
PZ-4		13:00																	Please Filter Dissolved Metal Sample
PZ-5		10:25																	
MW-5S		14:15																	
TRIP										1			X						
MW-14S		15:00											X	X	X	X	X	X	
PZ-1		15:30																	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [ ] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [X] 24 Hours ASAP ONLY [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other PCR Requirements

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	12/12/02	12:00	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: ENSR	Project Manager: Peter Moore	Date: 12-12-02	Chain of Custody Number: 118616
Address: 4500 Park Glen Rd, Suite 210	Telephone Number (Area Code)/Fax Number: 952-924-0117 / 952-924-0317	Lab Number:	Page 1 of 1
City: St Louis Park; State: MN; Zip Code: 55416	Site Contact: Peter Moore	Lab Contact: Dan Heaton	
Project Name and Location (State): Onalaska Landfill	Carrier/Waybill Number: 820899703476		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs (full list)	Total Metals	Dissolved Metals	Cr6, Fe2, sulfide, alk	Dissolve Gases (RSK)	TOC	Special Instructions/ Conditions of Receipt
AW-13	12-12-02	19:00		X									X	X	X	X	X	X	Matrix Sample
AW-13 Dup	12-12-02	19:05																	Has 48 hour TAT
AW-28		20:00																	
AW-25		17:20																	Please Filter
AW-20		17:30																	Dissolved Metal
AW-9		18:00																	Sample
AW-1		18:00																	
TRIP													X						

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [X] 24 Hours (FAXED ONLY) [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other DR Requirements

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Dan Moore	12/13/02	17:00	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report: CANARY - Stays with the Sample; PINK - Field Copy