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report. hw932053 . 1996 - 03 . Final Report SVE Remed 3-6-96 .pdf

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Project Site numbers will be proceeded by the following:

Municipal Brownfields - B
Superfund - HW
Spills - SP
ERP - E
VCP - V
BCP - C

932053

TOTAL ENVIRONMENTAL SOLUTIONS

rewei

An SAIC company

r.e. wright environmental, inc.

March 6, 1996

Ms. Carol A. Dickerson
Hydrogeological Associate
Zeneca, Inc.
Environmental Services and Operations
1800 Concord Pike
Wilmington, DE 19850-5438

Re: Final Report - SVE Remediation
Stauffer Management Company
Lewistown, New York
Site ID No. 932053
Area B - North Landfill
REWEI Project 95517

Dear Ms. Dickerson:

R. E. Wright Environmental, Inc. (REWEI) is submitting this report to Stauffer Management Company (SMC) to document the remediation of contaminated subsurface soils at the above-referenced site. This report summarizes the details and data collected during the North Landfill remediation. This project consisted of pre-remediation soil sampling, the installation of a soil vacuum extraction (SVE) remediation system, start-up and operation of the SVE system, shutdown of the SVE system, and the collection of post-remediation confirmatory soil samples. The goal of the soil remediation project was to reduce the total concentration of the Site Specific Priority List (SSPL) compounds to below the predetermined cleanup goal of 10 milligrams per kilogram (mg/kg).

PROJECT BACKGROUND

In August 1994, a soil vapor survey (SVS) was conducted by TreaTek-CRA Company at the North Landfill on a nominal 25-foot grid. Results of the SVS demonstrated that elevated levels of SSPL compounds were detected in one of the soil gas samples. A confirmatory boring (S-BH-22) was drilled and sampled to determine the actual levels of

SSPL compounds in the soil at this SVS location (Figure 1). The results of the laboratory analysis from this soil boring indicated that the total concentration of SSPL compounds present in the soil were greater than 10 mg/kg, hence soil remediation was deemed necessary. However, since a relatively small volume of soil was impacted by SSPL compounds (as indicated by the SVS) and the soil concentrations were less than 50 mg/kg, SMC believed that a temporary SVE system would effectively remediate the landfill. A remedial design for such a system was submitted to and approved by NYSDEC.

PRE-REMEDIATION SOIL SAMPLING

As an initial step, REWEI was selected to install and operate the North Landfill system. To characterize the subsurface soils in Area B of the North Landfill, four soil borings (EWB-1, PMB-1, PMB-2, and PMB-3) were drilled and sampled using hollow stem auger (HSA) drilling and sampling techniques on August 2 and 3, 1995 (Figure 1). Soil borings EWB-1 and PMB-1 were drilled to a maximum depth of 14.5 feet below grade level (bgl) and 11.8 feet bgl, respectively, due to bedrock refusal, while both PMB-2 and PMB-3 were drilled to 12 feet bgl without encountering bedrock. One soil sample each from PMB-1, PMB-2, and PMB-3 was collected and submitted for laboratory analysis. The selected sample was collected from the soil zone which exhibited the highest volatile organic compound (VOC) concentrations as detected by a photoionization detector (PID). Two soil samples were collected from EWB-1 due to elevated PID readings (over 100 parts per million [ppm] organic vapors) in the soils from 8 through 14.5 feet bgl. All five soil samples were transported under the proper chain-of-custody to Advanced Environmental Services (AES) for analysis of the SSPL compounds by United States Environmental Protection Agency (EPA) Method SW846 8240.

After sampling, the soil vapor extraction well (EWB-1) and soil vapor monitoring piezometers (PMB-1, PMB-2, and PMB-3) were installed. Well logs and construction details for each boring are attached in Appendix A.

SOIL SAMPLING RESULTS

A summary of the pre-remediation laboratory results are shown on Table 1, and copies of the original laboratory reports are attached as Appendix B. Three of the five soil samples collected (PWB-1 and both of the samples collected from EWB-1) contained quantifiable concentrations of SSPL compounds. The soil samples collected from PMB-2 and PMB-3 each contained unquantifiable concentrations of all of the SSPL compounds. Tetrachloroethane (PCE) and trichloroethane (TCE) were the most commonly detected

compounds, with PCE being detected in all three samples and TCE being detected in two of the samples. The highest PCE and TCE concentrations were both detected in the sample collected from PWB-1 (8 to 10 feet bgl) at 5.5 mg/kg and 9.4 mg/kg, respectively. Chloroform (2.5 mg/kg) in EWB-1 (10 to 14 feet bgl) and carbon disulfide (0.23 mg/kg) in PWB-1 (8 to 10 feet bgl) were the only other SSPL compounds that were detected.

SOIL REMEDIATION BY VACUUM EXTRACTION

REWEI constructed and installed a trailer-mounted SVE system at the site, as specified by the remedial design (Figure 2). The remediation system consisted of a single extraction well (EWB-1) piped to a MDS™ positive-displacement rotary lobe-type vacuum blower fitted with a straight-through type silencer housed inside a trailer. A moisture separator with a six-gallon-capacity holding tank was fitted in line between the extraction well and the blower to protect the blower from water damage. Since the soils being remediated are within a former landfill, a Mine Safety Appliances Company (MSA) Model 5100 explosion proof methane gas monitor was installed to protect against any possible explosion hazard (Figure 2). The extracted soil vapor was cooled through the moisture separator, methane monitor, and blower, and two 250-pound granular-activated carbon (GAC) filters in series prior to being discharged to the atmosphere. Electrical power was supplied to the remediation trailer by a temporary feed from the main on-site remediation system.

REMEDIATION SYSTEM STARTUP AND MONITORING

The SVE remediation system was started on September 7, 1995, and was monitored and sampled daily for the initial week. Thereafter, the system was monitored daily during the work week and sampled weekly. Monitoring included the measurement of the SVE flow rates, vacuum pressure, temperature, atmospheric barometric pressure, and measuring for VOC breakthrough of the GAC filters and the soil vapor concentrations in all of the SVE piezometers and the extraction well using a PID. In addition, SUMMA canisters were collected from the soil vapor being extracted from EWB-1 and submitted to Performance Analytical, Inc., (PAI) for analysis of VOCs by Gas Chromatography/Mass Spectrometry by EPA Method TO-14.

The raw field monitoring data collected during the operation of the SVE system is attached in Appendix C. Table 2 summarizes the total SSPL compound concentrations, cumulative recovery, and percent reduction while Table 2A separates each of the SSPL compounds into individual concentrations and cumulative recovery. Copies of the

original soil vapor analysis laboratory reports are attached in Appendix D. The system was operated from its start-up on September 7, 1995, until the system was shut down on November 13, 1995, due to the fact that SVE performance criteria had been met:

1. The SSPL soil gas concentrations had been reduced by over 75 percent (from the initial concentration of 257,600 micrograms per cubic meter [$\mu g/m^3$] to 43,460 $\mu g/m^3$ total SSPL compounds).

2. Over 1,000 soil vapor volumes had been removed.

The rotary lobe blower applied an average vacuum pressure of 16 inches of water column (WC) on the extraction well with an average air flow rate of 120 cubic feet per minute (cfm) during its operation.

SVE SYSTEM SHUTDOWN

After the system was shut down on November 13, 1995, the subsurface was allowed to stabilize for 14 days. On November 27, 1995, the system was restarted for the purpose of collecting a confirmatory soil gas sample. The analytical results from the November 27, 1995, sampling indicated that the total SSPL concentrations had increased by 20 percent, with the PCE concentrations increasing by 23 percent and the TCE concentrations increasing by 16 percent. Since the total SSPL concentrations showed an increase since the shutdown, the SVE system was restarted on November 30, 1995, and monitored until December 8, 1995, when the system was again shut down due to the reduction in SSPL soil gas concentrations by 88.6 percent from the original concentrations. On December 18, 1995, after 10 days of shutdown, the system was again restarted for the purpose of collecting a confirmatory gas sample. The results of this confirmatory sample showed that total SSPL concentrations were below the levels detected during the original shutdown on November 9, 1995, showing an 85.3 percent SSPL removal from the original concentrations.

The total quantity of each individual compound was calculated by multiplying the compounds loading rate (in pounds per day) by the elapsed time (in days). The loading rate was calculated by the following formula:

$$\underset{\text{(pounds per day)}}{\text{Loading Rate}} = \underset{(\mu g/m^3)}{\text{compound concentration}} * \underset{\text{(unit conversion)}}{8.9\text{x}10^{-8}} * \underset{\text{(cubic feet per minute)}}{\text{Air Flow Rate}}$$

Table 3 summarizes the quantity of each VOC recovered by the SVE. A total of 55 pounds of VOCs were recovered by the SVE system, 43 pounds of which were SSPL compounds (Figure 3) with the majority of the SSPL recovery, 32.5 pounds, being PCE (Figure 4). Due to the quantity of SSPL compounds removed and the reduction of soil vapor concentrations by over 70 percent, it was believed that these observed reductions would correlate to reductions in the SSPL concentrations in the soil.

POST-REMEDIATION CONFIRMATORY SOIL SAMPLING

To confirm whether the soil cleanup objectives had been achieved, three soil borings were installed on December 21, 1995, to collect confirmatory soil samples (Figure 5). Soil boring logs for these borings are attached as Appendix E. One boring (EWBP-1) was drilled adjacent to the existing SVE extraction well. The second boring (PMBP-1) was drilled adjacent to the 10-foot monitoring probe, and the third boring (PMBP-2) was drilled 25 feet from the existing extraction well. One soil sample was collected for laboratory analysis from each of the three borings from the soil sample interval exhibiting the highest PID reading. All three soil samples were transported to AES for analysis for SSPL compounds by EPA Method SW846-8240.

SOIL SAMPLING RESULTS

The results of the confirmatory post-remediation soil sampling are summarized on Table 4, and copies of the original laboratory reports are attached as Appendix F. The initial analytical laboratory reports (December 29, 1995) for EWBP-1 (12 to 15 feet bgl) noted that the sample contained numerous "yellow particles" (assumed to be sulfur) and showed non-detectable concentrations for all of the SSPL compounds with the exception of PCE (59 mg/kg) and TCE (1.6 mg/kg). Upon receipt of the laboratory report, REWEI immediately requested that the sample, which was retained under refrigeration by the laboratory, be reanalyzed due to suspected interference with the EPA method produced by these "yellow particles." After the re-analysis of EWBP-1 (12 to 15 feet bgl) on January 2, 1996, all three of the samples indicated that the SVE remediation system had been effective in removing SSPL compounds from the subsurface soils and reduced the total SSPL concentrations below the 10 mg/kg action level. EWBP-1 contained the greatest concentrations of SSPL compounds of the three soil samples, with a total SSPL concentration of 4.7 mg/kg. PMBP-1 and PMBP-2 contained 0.08 mg/kg and 1.3 mg/kg of total SSPL compounds, respectively.

With the results of the confirmatory soil samples all being below the site action level of 10 mg/kg total SSPL compounds and the total quantity of SSPLs recovered by the SVE

being approximately 43 pounds, it appears that the SVE system was effective in removing the majority of the SSPL compounds from the subsurface soils at the site.

REWEI is pleased to provide these environmental services to SMC. If you have any questions or comments regarding this draft report prior to finalization, please feel free to contact the undersigned.

Respectfully submitted,

R. E. WRIGHT ENVIRONMENTAL, INC.

Marc A. Reeves
Project Scientist

Lawrence J. DeFluri
Project Manager

LJD:lh
Attachment

TABLE 1

STAUFFER MANAGEMENT COMPANY
Niagara Falls Landfill B - SVE System
Pre-Remediation Soil Sampling Results

REWEI Project 95517

	All units are in micrograms per kilogram (µg/kg)									
	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroform	Methylene Chloride	Tetrachloroethane	Toluene	Trichloroethane	Chlorobenzene	Total SSPL Compounds
EWB-1 (6-8' bgl)	BQL	BQL	BQL	BQL	BQL	5,200	BQL	BQL	BQL	5,200
EWB-1 (10-14' bgl)	BQL	230	BQL	BQL	BQL	1,000	BQL	80	BQL	1,310
PWB-1 (8-10' bgl)	BQL	BQL	BQL	2,500	BQL	5,500	BQL	9,400	BQL	17,400
PWB-2 (6-8' bgl)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
PWB-3 (8-10' bgl)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

BQL - Below the laboratory's quantifiable limits

Table 2

Stauffer Management Company
S. M. C. Niagra Falls, NY
Landfill B- Soil Vapor Extraction System

Date	Time	*Elapsed Time (Days)	Total SSPL Concentration (ug/M3)	Total SSPL Cumulative Recovery (Pounds)	Total SSPL Reduction (%)
09/07/95	11:15	0.01	257,600	0.038	0.00%
09/07/95	18:45	0.22	193,850	0.473	24.75%
09/08/95	10:45	0.67	135,900	1.123	47.24%
09/14/95	10:45	5	95,180	5.219	63.05%
09/21/95	10:45	9	93,970	9.937	63.52%
09/28/95	10:45	14	86,220	14.265	66.53%
10/05/95	10:45	19	128,300	20.707	50.19%
10/12/95	10:45	23	55,000	23.468	78.65%
10/19/95	10:45	28	54,980	26.229	78.66%
10/26/95	11:30	33	53,800	28.942	79.11%
11/02/95	09:15	37	62,220	32.024	75.85%
11/09/95	10:00	42	53,460	34.720	79.25%
11/27/95	16:00	45	66,930	36.760	74.02%
12/01/95	12:50	57	38,070	41.639	85.22%
12/08/95	09:30	61	29,330	43.082	88.61%
12/18/95	16:45	61	37,780	43.164	85.33%

* The elapsed time was calculated by multiplying the actual elapsed time since the startup of the system by 2/3 due to blower outages caused by exessive moisture levels in the separation tank.

Note: The average airflow rate of the reediation system was 120 cubic feet per minute.

Table 2A

Stauffer Management Company
S. M. C. Niagra Falls, NY
Landfill B- Soil Vapor Extraction System

Date	Time	*Elapsed Time (Days)	Benzene Concentration (ug/M3)	Benzene Cumulative Recovery (Pounds)	Carbon Disulfide Concentration (ug/M3)	Carbon Disulfide Cumulative Recovery (Pounds)	Carbon Tetrachloride Concentration (ug/M3)	Carbon Tetrachloride Cumulative Recovery (Pounds)	Chloroform Concentration (ug/M3)	Chloroform Cumulative Recovery (Pounds)	Methylene Chloride Concentration (ug/M3)	Methylene Chloride Cumulative Recovery (Pounds)
09/07/95	11:15	0.01	170	0.000	2200	0.000	3200	0.000	5600	0.001	240	0.000
09/07/95	18:45	0.22	140	0.000	3400	0.008	2900	0.007	4100	0.010	160	0.000
09/08/95	10:45	0.67	130	0.001	3800	0.026	3000	0.021	3700	0.028	140	0.001
09/14/95	10:45	5	110	0.006	5200	0.250	4800	0.228	2800	0.148	120	0.006
09/21/95	10:45	9	140	0.013	8900	0.697	6900	0.574	3100	0.304	140	0.013
09/28/95	10:45	14	ND	0.013	6900	1.043	4900	0.820	2900	0.449	ND	0.013
10/05/95	10:45	19	ND	0.013	7600	1.425	7500	1.197	3200	0.610	ND	0.013
10/12/95	10:45	23	ND	0.013	4600	1.656	4400	1.418	2300	0.726	ND	0.013
10/19/95	10:45	28	120	0.019	2900	1.801	3500	1.594	1500	0.801	160	0.021
10/26/95	11:30	33	550	0.046	2600	1.932	3600	1.775	1400	0.872	ND	0.021
11/02/95	09:15	37	520	0.072	2700	2.066	4000	1.973	1300	0.936	400	0.041
11/09/95	10:00	42	780	0.112	2300	2.182	3900	2.170	1400	1.006	280	0.055
11/27/95	16:00	45	ND	0.112	1000	2.213	5800	2.347	2100	1.071	430	0.068
12/01/95	12:50	57	ND	0.112	870	2.324	2800	2.706	1400	1.250	ND	0.068
12/08/95	09:30	61	ND	0.112	890	2.368	1600	2.784	840	1.291	ND	0.068
12/18/95	16:45	61	ND	0.112	680	2.369	2200	2.789	1000	1.293	ND	0.068

Cumulative SSPL VOC's Recovered: 43.16 Pounds
Cumulative Additional VOC's Recovered: 11.60 Pounds
Total VOC's Recovered: 54.76 Pounds

* The elapsed time was calculated by multiplying the actual elapsed time since the startup of the system by 2/3 due to blower outages caused by exessive moisture levels in the separation tank.
Note: The average airflow rate of the reediation system was 120 cubic feet per minute.

Date	Tetrachloroethene		Toluene		Trichloroethene		Chlorobenzene	
	Concentration (ug/M3)	Cumulative Recovery (Pounds)	Concentration (ug/M3)	Cumulative Recovery (Pounds)	Concentration (ug/M3)	Cumulative Recovery (Pounds)	Concentration (ug/M3)	Cumulative Recovery (Pounds)
09/07/95	210000	0.031	190	0.000	36000	0.005	ND	0
09/07/95	160000	0.390	150	0.000	23000	0.057	ND	0
09/08/95	110000	0.916	130	0.001	15000	0.129	ND	0
09/14/95	73000	4.057	150	0.007	9000	0.516	ND	0
09/21/95	67000	7.421	190	0.017	7600	0.898	ND	0
09/28/95	63000	10.584	520	0.043	8000	1.299	ND	0
10/05/95	99000	15.555	ND	0.043	11000	1.851	ND	0
10/12/95	38000	17.463	ND	0.043	5700	2.138	ND	0
10/19/95	42000	19.571	ND	0.043	4800	2.379	ND	0
10/26/95	41000	21.639	150	0.051	4500	2.606	ND	0
11/02/95	44000	23.818	3100	0.204	6200	2.913	ND	0
11/09/95	40000	25.836	ND	0.204	4800	3.155	ND	0
11/27/95	52000	27.421	ND	0.204	5600	3.325	ND	0
12/01/95	30000	31.265	ND	0.204	3000	3.710	ND	0
12/08/95	24000	32.446	ND	0.204	2000	3.808	ND	0
12/18/95	31000	32.514	ND	0.204	2900	3.815	ND	0

TABLE 3

STAUFFER MANAGEMENT COMPANY
NIAGARA FALLS - LANDFILL B SVE SYSTEM
TOTAL QUANTITY OF VOC COMPOUNDS RECOVERED

REWEI Project 95517

Compound		Total Quantity Recovered (Pounds)
SSPL Compounds	Benzene	0.112
	Carbon Disulfide	2.37
	Carbon Tetrachloride	2.79
	Chloroform	1.29
	Methylene Chloride	0.068
	Tetrachloroethene	32.5
	Toluene	0.204
	Trichloroethene	3.82
	Chlorobenzene	0
	SSPL Total	43.2
Non-SSPL Compounds	Vinyl Chloride	0.655
	Acetone	0.041
	Trichlorofloromethane	0.023
	1,1-Dichloromethane	0.114
	trans-1,2-Dichloroethene	0.133
	cis-1,2-Dichloroethene	8.94
	1,1-Dichloroethane	0.484
	2-Butone	0.004
	1,1,1-Trichloroethane	0.134
	Ethylbenzene	0.382
	m,p-xylenes	0.573
	o-xylenes	0.115
	Non-SSPL Total	11.6
	VOC total	54.8

TABLE 4

STAUFFER MANAGEMENT COMPANY
Niagara Falls Landfill B - SVE System
Post-Remediation Soil Sampling Results

REWEI Project 95517

	All units are in micrograms per kilogram (µg/kg)									
	Benzene	Carbon Disulfide	Carbon Tetrachloride	Chloroform	Methylene Chloride	Tetrachloroethane	Toluene	Trichloroethane	Chlorobenzene	Total SSPL Compounds
EWBP-1 (12-15' bgl)	ND	ND	ND	ND	ND	59,000	ND	1,600**	ND	60,600
	ND	70**	250**	130**	ND	3,900	ND	98**	220**	4,668
PMBP-1 (10-14' bgl)	ND	ND	ND	ND	ND	77**	ND	ND	ND	77**
PMBP-2 (10-12' bgl)	ND	180**	490	270**	270**	130**	ND	ND	ND	1,340

** - Estimated result, above the detection limit but not quantifiable.

ND - Compound was not detected

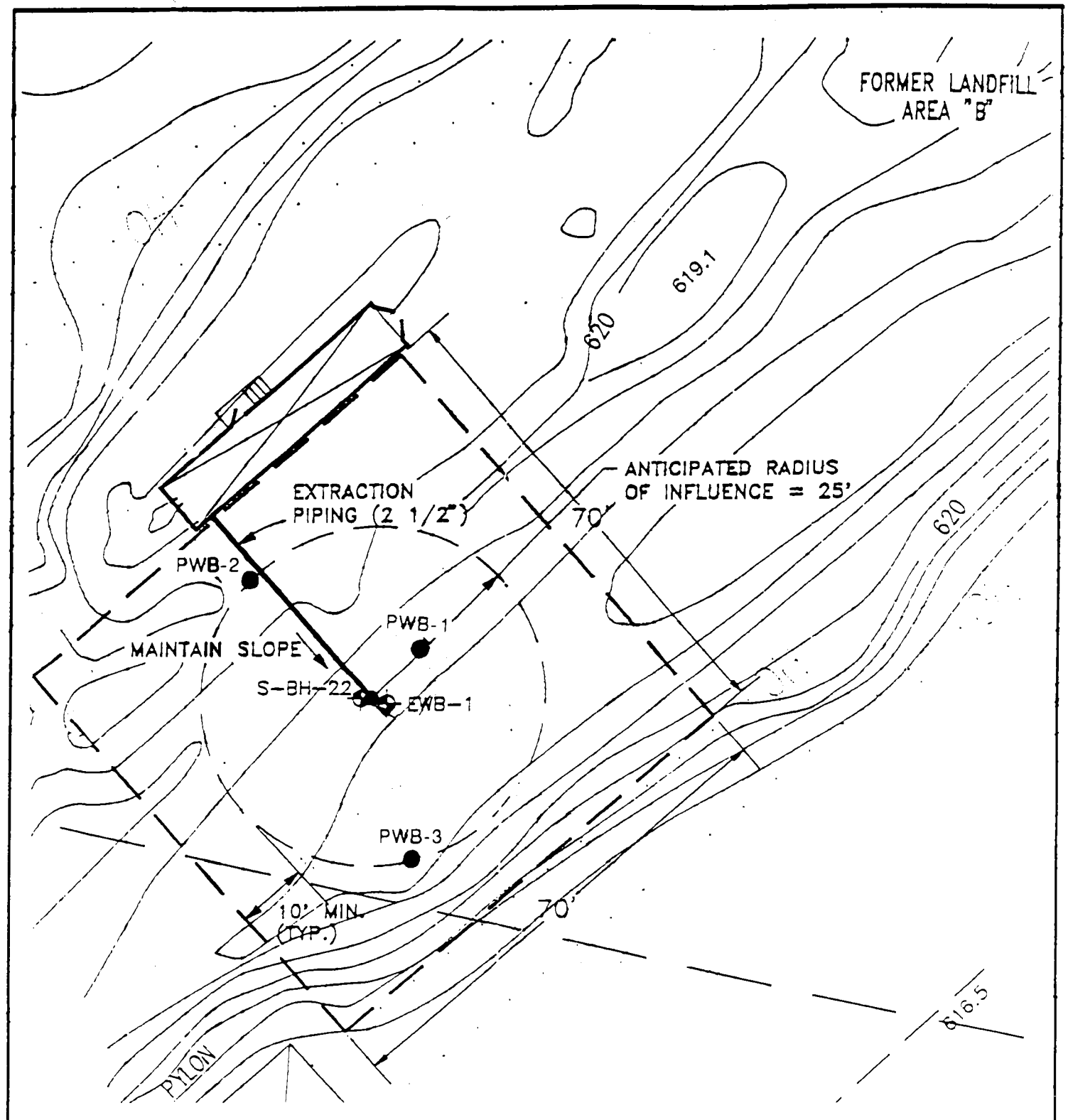


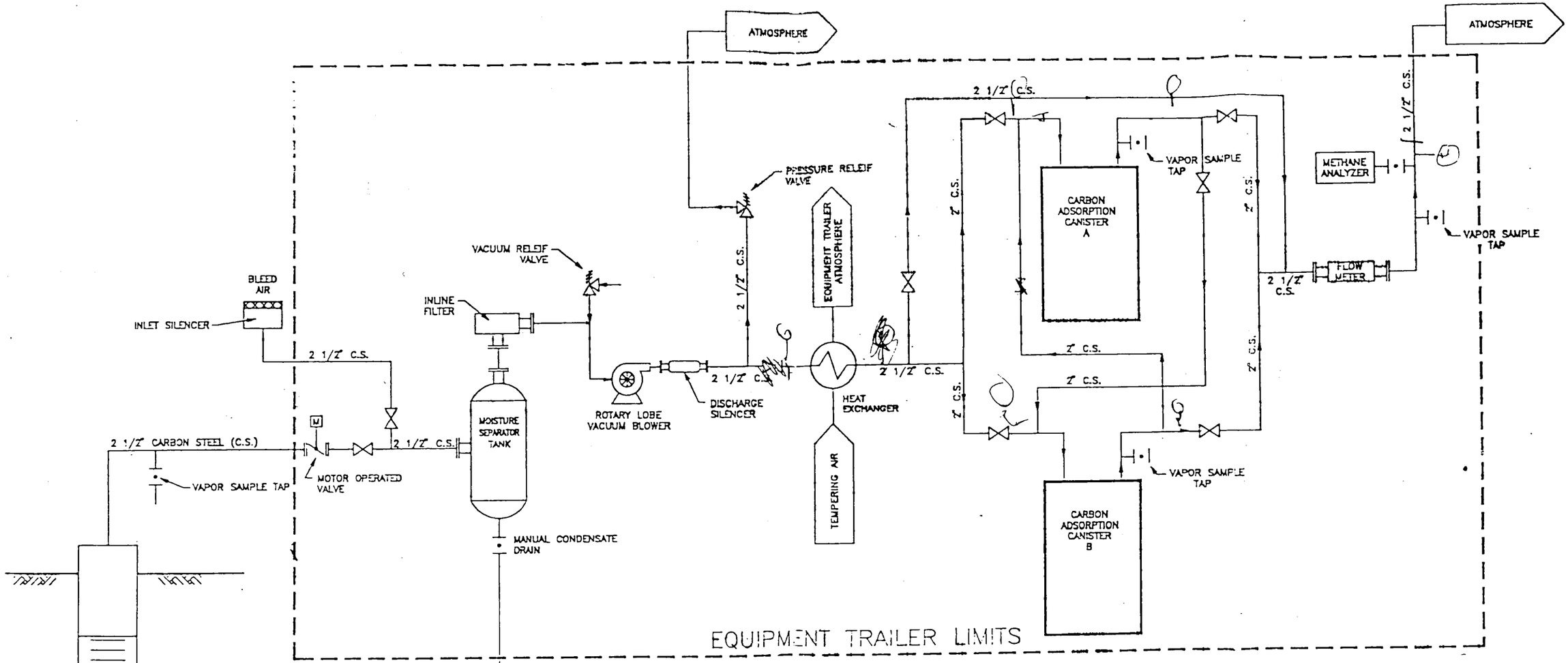
FIGURE 1

STAUFFER MANAGEMENT COMPANY
NIAGRA FALLS, NY

PREREMEDIATION SOIL BORING LOCATIONS
AREA B- NORTH LANDFILL

drawn SS	checked	drawing no.
date	approved	

r.e. wright environmental, inc.
total environmental solutions
middletown, pa exton, pa westminster, md va beach, va



LIST OF MAJOR EQUIPMENT

ITEM	DESCRIPTION
Moisture Separator Tank	EG&G Rotron MS300PS, 2.5" Inlet, 4.5" outlet, 300 CFM Max., 10 gal. liquid capacity w/out carry over, 3/4" drain fitting, SPDT XP float switch
Rotary Lobe Vacuum Blower	M-D Pneumatics Model 3206-81L3 "Gas Tight" operating at 2366 RPM for performance of 90 SCFM @ 3.5"HG Inlet Vac. and 1.5 PSIG Discharge Press. Complete w/ 5HP, TEXP, 460V/3ph/60Hz motor and V-Belt drive
Heat Exchanger	Air technologies Air to Air Heat Exchanger Model SO6 with .75 HP, TEXP Motor thermostatically controlled, 1100 cfm ambient air flow, 100 deg. F. delta temperature drop @ 90 SCFM
Carbon Adsorption Canisters (A&B)	Calgon High Flow Ventsorb, carbon steel construction, 6" inlet/outlet connections, 400 SCFM max. capacity.
Flow Meter	Erdco variable area direct reading flow meter (indicator only), 0-150 SCFM calibrated to anticipated temperature and pressure, (pending specific selection)
Methane Gas Analyzer	MSA 510: General Gas Monitor, calibrated to % LEL methane (non-gas discriminating), w/ alarm relay output and local indicator, coupled with remote sampling system

FIGURE 2

Job No. 4E14039	SIMPLIFIED PROCESS FLOW DIAGRAM AREA B SOIL VAPOR EXTRACTION SYSTEM NIAGARA FALLS SITE REMEDIATION STAUFFER MANAGEMENT CO.
Prepared by: TP	
Date: 03/10/1995	

C:\ACAD12\PIDB

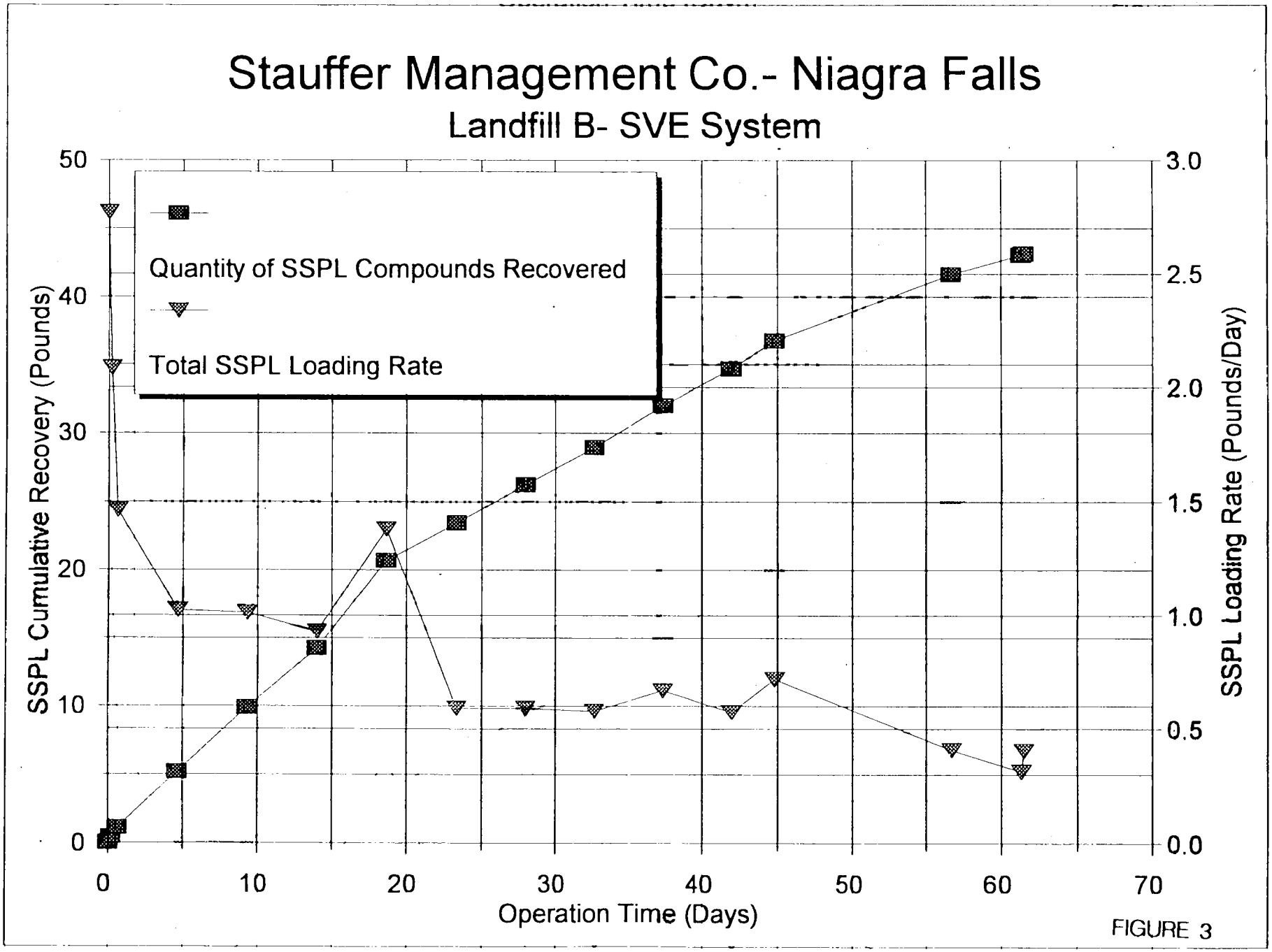

Stauffer Management Co.- Niagra Falls
Landfill B- SVE System
Quantity of SSPL Compounds Recovered
Total SSPL Loading Rate
SSPL Cumulative Recovery (Pounds)
SSPL Loading Rate (Pounds/Day)
Operation Time (Days)
0
10
20
30
40
50
60
70
0.0
0.5
1.0
1.5
2.0
2.5
3.0

FIGURE 3

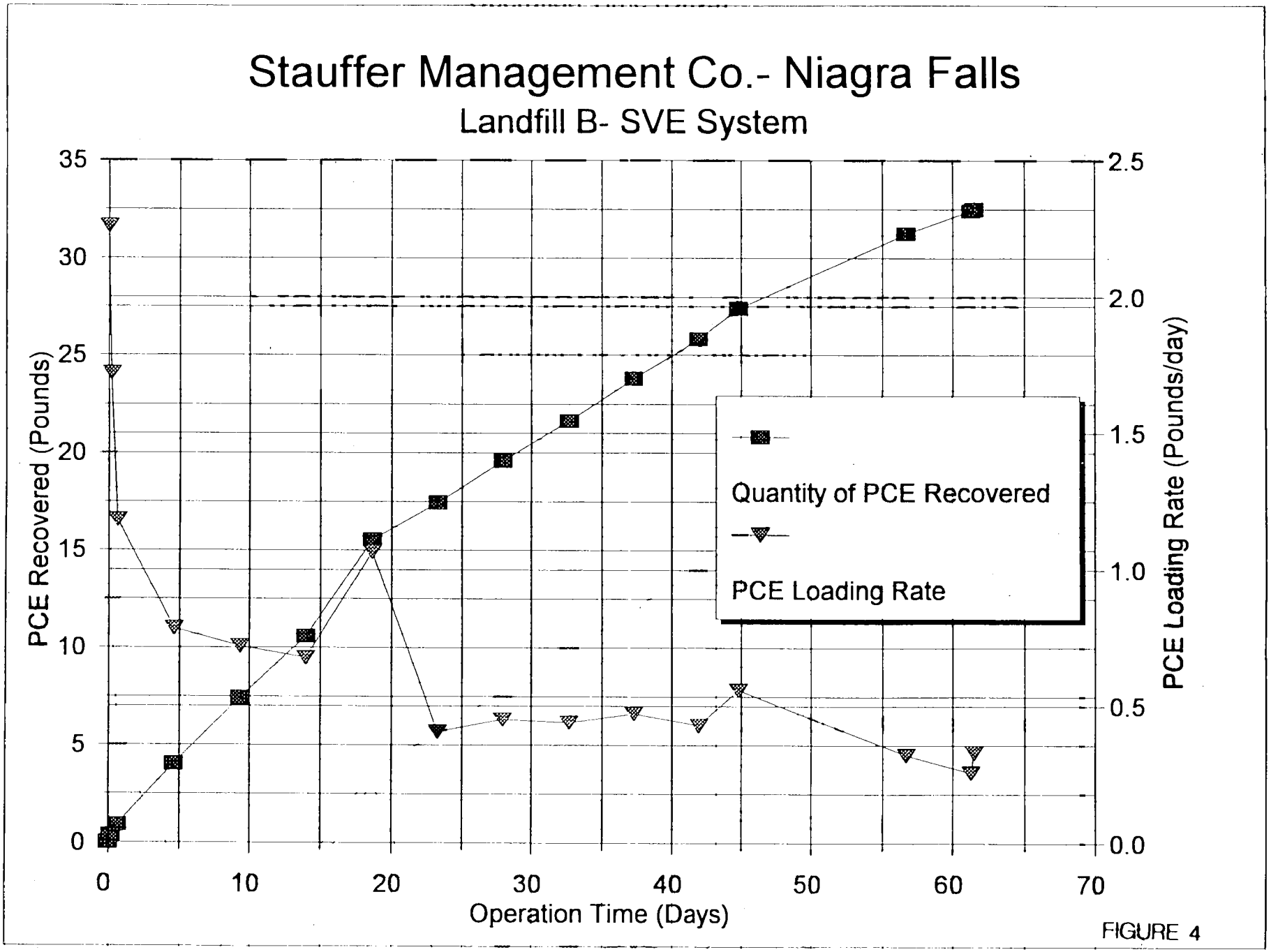

Stauffer Management Co.- Niagra Falls
Landfill B- SVE System
PCE Recovered (Pounds)
PCE Loading Rate (Pounds/day)
Operation Time (Days)
Quantity of PCE Recovered
PCE Loading Rate
0
5
10
15
20
25
30
35
0.0
0.5
1.0
1.5
2.0
2.5
0
10
20
30
40
50
60
70

FIGURE 4

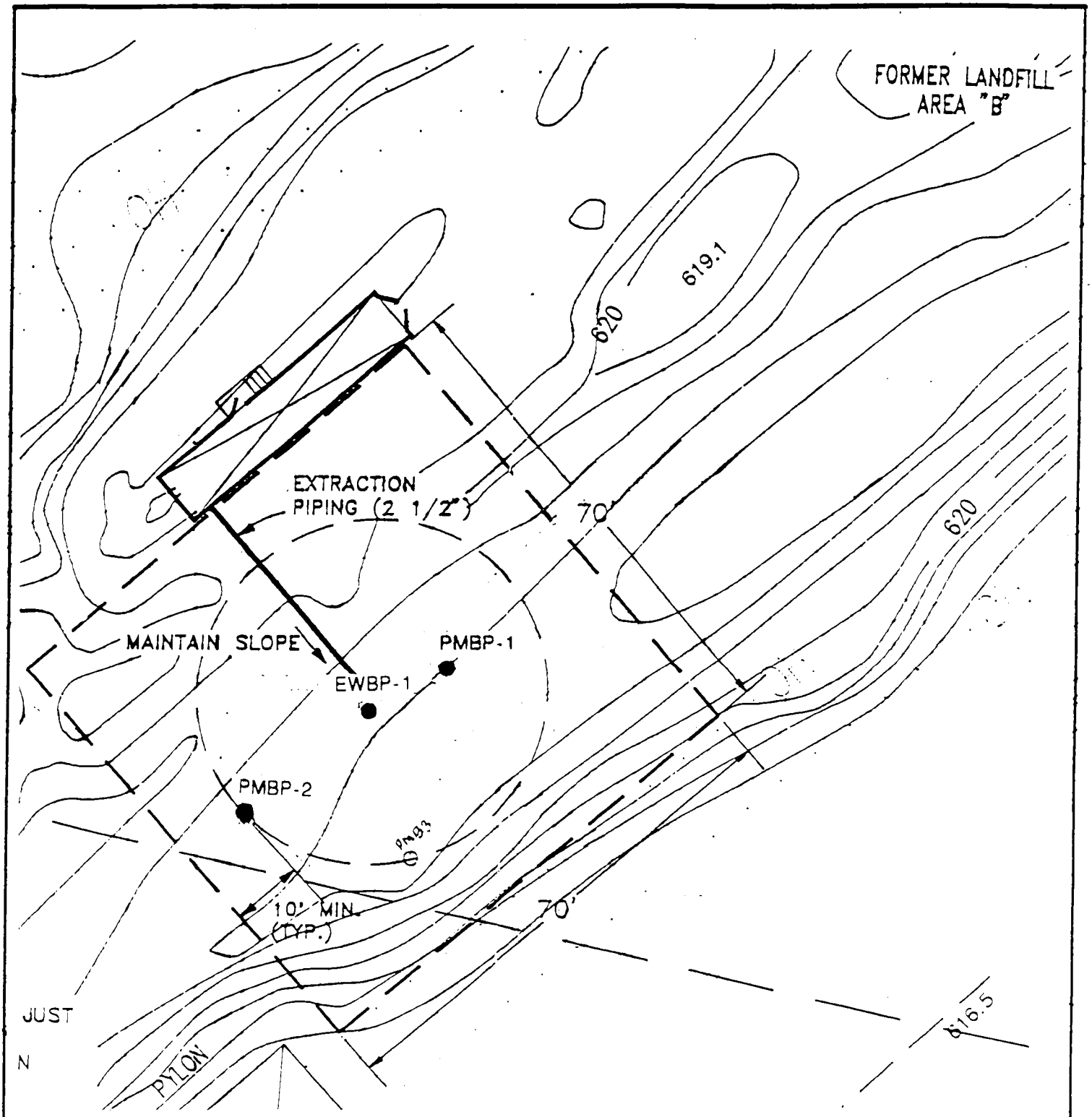


FIGURE 5

STAUFFER MANAGEMENT COMPANY NIAGRA FALLS, NY			
POSTREMEDIATION SOIL BORING LOCATIONS AREA B- NORTH LANDFILL			
total environmental solutions	drawn SS	checked	drawing no.
	date	approved	
r.e. wright environmental, inc. total environmental solutions middletown, pa exton, pa westminster, md va beach, va			

APPENDIX A

APPENDIX A

Pre-Remediation Soil Boring and Well Construction Logs

75017

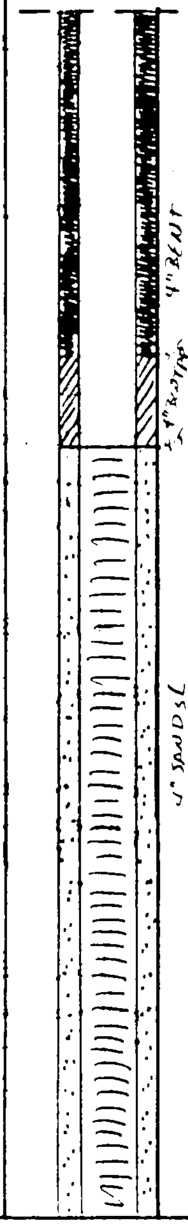
SOIL BORING LOG

Client Stauffer Mgt Co./Niagara Falls
Project No. 95287 **Phase** 3 **Task** 1

Boring No. EWB-1 **Piezometer No.**
Location North Landfill
Surface Elev. **Page** of 1

Depth Feet	Blow Counts	Recovery/RQD.	Overburden/Lithologic Description	PID	Graphic Log	Depth Feet	Well Construction Details
				PPM			T.O.C. Elev.
	Ground Surface						
0	3-5-5-9		CLAY moderate brown, topsoil, roots, dry, trace gravel, blocky	3			HSA to refusal (bedrock) continuous split spoon head space collected w/a PID 4" Galvanized riser and screen (20 slot)
2	5-4-6-4		Same as above pale brown	4			
4	1-1-4-4	50	CLAY pale brown with black mottles/concretions trace gravel/sand, medium stiff, silt lamina	4			Well head piping/construction complete at a later date
6	5-4-6-8	60	Same as above 6.75 Fly ash yellowish gray 7.75 gravely silt, variable red brick?	62			Sample collected 6-8' and 10-14'
8	Weight of Rods	<5	VOID? only return was in the shoe, black clayey gravel w/wood	122			
10	weight of Hammer		CLAYEY GRAVEL wet to very moist w/manmade fabric (firehose?) the spoon fell to 14'	125			
12							

Well Construction Graphic



Driller SJB (TONY/TONY)
Logged By LEW
Drilling Started 8/2/95
Drilling Completed 8/2/95
Well Construction 8/2/95
Well Developed —
Water Bearing Zones —

Blown/Bailed Yield —
Well Casing 4" Dia. +2 To 4.5
Casing Type Galvanized
Well Screen 4" Dia. 4.5 To 14.5
Screen Type Galvanized
Slot Size 20
Drilling Mud N/A —
Grout Type 0-3.5

Bentonite Seal 14.5-15.5 3.5-4.5
Filter Pack Qty. —
Filter Pack Type Morrie
Static Water Level MSL
Date
Notes: because of possible voids it took ~ 12 bags of sand to complete the well

Form #WL - SC - 1 (10/88)

SOIL BORING LOG

Client: Stawla Mgt Co / Niagara Falls
Project No. 95287 Phase 3 Task 1

Boring No. EWB-1 Piezometer No.
Location
Surface Elev. Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
				ppm				T.O.C. Elev.
12	Ground Surface							
14	8-8-8-9	50	CLAYEY SAND pale brown non cohesive sylteric fabric	100				
16			15' CLAY light brown w/ trace gravel/sand very moist					

Driller SJB (TONY/TONY)
Logged By BEW
Drilling Started 8/2/95
Drilling Completed 8/2/95
Well Construction 8/2/95
Well Developed —
Water Bearing Zones —

Blown/Bailed Yield —
Well Casing 4" Dia. +2 To 4.5
Casing Type Galvanized
Well Screen 4" Dia. 4.5 To 14.5
Screen Type Galvanized
Slot Size 20
Drilling Mud N/A —
Grout Type —

Bentonite Seal 3.5-4.5 14.5-15.5
Filter Pack Qty.
Filter Pack Type Morrie #0
Static Water Level MSL
Date
Notes: Sample

Form #WL - SC - 1 (10/88)

SOIL BORING LOG

Client: Stanley Mgt Co./Niagara Falls
Project No. 95287 Phase 3 Task 1

Boring No PMB-1 Piezometer No.
Location
Surface El.
Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID	Graphic	Well Construction Graphic	Depth Feet	Well Construction Details
				ppm				T.O.C. Elev.
	Ground Surface							
0	5-4-4-8	80	CLAY light brown, dry, trace gravel/sand, occasional mottle/concretion of dusky yellow clay, med. stiff	4				HSA to refusal (bedrock) headspace collected with PID 1" PVC riser and screen (20 slot) continuous split spoon
2	8-8-5-5	50	Same as above	5				
4	4-4-5-8	75	CLAY moderate brown medium stiff, trace gravel/sand slightly moist blocky, varriable mottles/concreations	5				
6		75	6-7' Same as above 7-8' CLAY with black 'sand' (man made, ash?), sand is slightly moist very fine to fine grained with silt and clay	5				
8	6-4-4-4	20	.75" thin seam < .75" of dark yellowish orange 'fibrous' material	20				
10		0	Same as above with wood in shoe No return	–				
12			refusal at 11'10"					

Driller SJB (TONY/TONY)
Logged By BEW
Drilling Started 8/2/95
Drilling Completed 8/2/95
Well Construction 8/2/95
Well Developed –
Water Bearing Zones –

Blown/Balled Yield –
Well Casing 1" Dia. +2 To 2
Casing Type PVC
Well Screen 1" Dia. 2 To 11'10"
Screen Type PVC
Slot Size 20 slot
Drilling Mud N/A –
Grout Type 0-1

Bentonite Seal 1-2
Filter Pack Qty.
Filter Pack Type Morrie #0
Static Water Level MSL
Date
Notes: 8-10 sample sent to Lab PMB1-8-10

SOIL BORING LOG

Client: Stauter Mgt Co./Niagara Falls

Project No. Phase Task

Boring No. PMB-2 Piezometer No.

Location

Surface Elev. Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
				PPm				T.O.C. Elev.
	Ground Surface							
0	3-5-7-6	70	CLAY light Brown, some gravel, 1" seam of sandy SILT w/clay, variable mottles, Dry	11				A HSA to 12' BGS. Continous split spoon sampling 1" pvc riser and screen (20 slot)
2	11-7-6-5	60	Same as above Clay	26				
4	6-6-4-4	50	Same as above CLAY	21				
			5' SILTY CLAY moderate Yellowish brown with trace gravel					
6	5-5-3-3	50	CLAY moderate brown highly varriable w/mottles/ concretions of clay. Trace rounded gravel, slightly moist	25				
8	1-1-2-3	50	CLAY same as above	16				
			9' granular carbon verfine to fine grained, non cohiesive					
10	1-1-2-1		Same as above wet	28				
12			TD=12'					

Driller SJB (TONY/TONY)

Logged By BEW

Drilling Started 8/3/95

Drilling Completed 8/3/95

Well Construction 8/3/95

Well Developed —

Water Bearing Zones —

Blown/Bailed Yield —

Well Casing 1" Dia. +2 To 2

Casing Type PVC

Well Screen 1" Dia. 2 To 12

Screen Type PVC

Slot Size 20

Drilling Mud N/A —

Grout Type —

Bentonite Seal —

Filter Pack Qty. —

Filter Pack Type Morrie Sand #0

Static Water Level — MSL

Date

Notes: The 6-8' sample was sent to the lab for analysis PMB2-6-8

Form #WL - SC - 1 (10/88)

SOIL BORING LOG

Client: Stawter Mgt Co./Niagara Falls
Project No. 95287 Phase 3 Task 1

Boring No. PMB-3 Piezometer No.
Location
Surface Elev. Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
				ppm				T.O.C. Elev.
0	Ground Surface							
	6-6-6-6	60	CLAY Light brown, roots highly variable with trace gravel, dry	22				HSA to 12' BGS continous split spoon. headspace collected with a PID 1" PVC riser and screen.
2	6-8-7-7	60	Same as above CLAY moderate brown with silty clay seam at 2.5" dry	26				
4	6-6-6-6		CLAY moderate brown, pale brown mottles, some gravel, dry	20				
6	8-12-6-16	50	Boulder/cobble 4" CLAY dark yellowish brown w/grayish brown mottles, slightly moist stiff	12				
8	10-16-16-20	20	CLAY moderate brown moist 'micro' mottles/concretions pale brown	28				
10	6-6-10-28		CLAY moderate brown 7/4 slightly moist lamina pale brown 11' moderate brown with grayish orange pink and pale yellow brown mottles	20				
12								

Driller SJB (TONY/TONY)
Logged By BEW
Drilling Started 8/3/95
Drilling Completed 8/3/95
Well Construction 8/3/95
Well Developed -
Water Bearing Zones

Blown/Balled Yield -
Well Casing 1" Dia. +2 To 2
Casing Type PVC
Well Screen 1" Dia. 2 To 12
Screen Type PVC
Slot Size 20
Drilling Mud N/A -
Grout Type 0-1

Bentonite Seal 1-2
Filter Pack Qty.
Filter Pack Type Morrie #0
Static Water Level MSL
Date
Notes: Sample collected 6-8'

Form #WL - SC - 1 (10/88)

APPENDIX B

APPENDIX B

Pre-Remediation Soil Sampling Laboratory Reports

R.E. WRIGHT ENVIRONMENTAL INC.

ZENECA/ NIAGARA FALLS

R.E. WRIGHT

Prepared By:

ADVANCED ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

August 18, 1995
REF: GIZ52U8

QA/QC VERIFICATION FOR PROJECT ID 52U8

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherance to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.

Susan Sprock

Organic Chemistry

W. Joseph McDougall

Quality Control

Frank J Lawrence

Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted.
Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

- BQL - Below Quantifiable Limits
- ND - None Detected
- NG - No Growth of Colonies
- NR - Not Requested

CLIENT: R.E. WRIGHT ENVIRONMENTAL INC.
SAMPLE ID: EWB1-6-8
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 08/03/95
SAMPLE TYPE: SOIL

AES CLIENT ID: REW1
AES SAMPLE ID: 52U8-1

PROJECT ID: 52U8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
		ppb		
Methylene chloride	BQL	µg/kg	500 *	SW 846 8240
Carbon disulfide	BQL	µg/kg	500	SW 846 8240
Chloroform	BQL	µg/kg	500	SW 846 8240
Carbon tetrachloride	BQL	µg/kg	500	SW 846 8240
Trichloroethene	BQL	µg/kg	500	SW 846 8240
Benzene	BQL	µg/kg	500	SW 846 8240
Tetrachloroethene	5200	µg/kg	500	SW 846 8240
Toluene	BQL	µg/kg	500	SW 846 8240
Chlorobenzene	BQL	µg/kg	500	SW 846 8240

* High limit due to sample matrix; dilution was required.

CLIENT: R.E. WRIGHT ENVIRONMENTAL INC.
SAMPLE ID: EWB1-10-14
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 08/03/95
SAMPLE TYPE: SOIL

AES CLIENT ID: REW1
AES SAMPLE ID: 52U8-2
PROJECT ID: 52U8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methylene chloride	BQL	µg/kg	50	SW 846 8240
Carbon disulfide	230	µg/kg	50	SW 846 8240
Chloroform	BQL	µg/kg	50	SW 846 8240
Carbon tetrachloride	BQL	µg/kg	50	SW 846 8240
Trichloroethene	80	µg/kg	50	SW 846 8240
Benzene	BQL	µg/kg	50	SW 846 8240
Tetrachloroethene	1000	µg/kg	50	SW 846 8240
Toluene	BQL	µg/kg	50	SW 846 8240
Chlorobenzene	BQL	µg/kg	50	SW 846 8240

CLIENT: R.E. WRIGHT ENVIRONMENTAL INC.
SAMPLE ID: PMB1-8-10
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 08/03/95
SAMPLE TYPE: SOIL

AES CLIENT ID: REW1
AES SAMPLE ID: 52U8-3

PROJECT ID: 52U8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methylene chloride	BQL	µg/kg	500 *	SW 846 8240
Carbon disulfide	BQL	µg/kg	500	SW 846 8240
Chloroform	2500	µg/kg	500	SW 846 8240
Carbon tetrachloride	BQL	µg/kg	500	SW 846 8240
Trichloroethene	9400	µg/kg	500	SW 846 8240
Benzene	BQL	µg/kg	500	SW 846 8240
Tetrachloroethene	5500	µg/kg	500	SW 846 8240
Toluene	BQL	µg/kg	500	SW 846 8240
Chlorobenzene	BQL	µg/kg	500	SW 846 8240

* High limit due to sample matrix; dilution was required.

CLIENT: R.E. WRIGHT ENVIRONMENTAL INC.
SAMPLE ID: PMB2-6-8
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 08/03/95
SAMPLE TYPE: SOIL

AES CLIENT ID: REW1
AES SAMPLE ID: 52U8-4

PROJECT ID: 52U8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methylene chloride	BQL	µg/kg	50	SW 846 8240
Carbon disulfide	BQL	µg/kg	50	SW 846 8240
Chloroform	BQL	µg/kg	50	SW 846 8240
Carbon tetrachloride	BQL	µg/kg	50	SW 846 8240
Trichloroethene	BQL	µg/kg	50	SW 846 8240
Benzene	BQL	µg/kg	50	SW 846 8240
Tetrachloroethene	BQL	µg/kg	50	SW 846 8240
Toluene	BQL	µg/kg	50	SW 846 8240
Chlorobenzene	BQL	µg/kg	50	SW 846 8240

CLIENT: R.E. WRIGHT ENVIRONMENTAL INC.
SAMPLE ID: PMB3-8-10
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 08/03/95
SAMPLE TYPE: SOIL

AES CLIENT ID: REW1
AES SAMPLE ID: 52U8-5

PROJECT ID: 52U8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methylene chloride	BQL	µg/kg	50	SW 846 8240
Carbon disulfide	BQL	µg/kg	50	SW 846 8240
Chloroform	BQL	µg/kg	50	SW 846 8240
Carbon tetrachloride	BQL	µg/kg	50	SW 846 8240
Trichloroethene	BQL	µg/kg	50	SW 846 8240
Benzene	BQL	µg/kg	50	SW 846 8240
Tetrachloroethene	BQL	µg/kg	50	SW 846 8240
Toluene	BQL	µg/kg	50	SW 846 8240
Chlorobenzene	BQL	µg/kg	50	SW 846 8240

Advanced Environmental Services

AES Job Code G12

Sample Traceability Report

AES Job No. 5208

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
5208-1	8-3-95	4100	49	—	—	—	8240	8-11-95	KR
5208-2	〃	〃	〃	—	—	—	〃	8-10-95	〃
5208-3	〃	〃	〃	—	—	—	〃	8-11-95	〃
5208-4	〃	〃	〃	—	—	—	〃	8-10-95	〃
5208-5	〃	〃	〃	—	—	—	〃	8-10-95	〃

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

ADVANCED ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304
(716) 283-3120
(800) 791-3120
FAX (716) 283-4727

CHAIN OF CUSTODY RECORD

PROJECT NAME: Zeneca/Niagara Falls RE Wright

SAMPLER'S SIGNATURE: Bruce Waggman

PROJECT I.D. #: 95287.GI

JOB CODE: 5248

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRESERVED	HNO3	H2SO4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
8/3/95		EWB1-8-8	X		Soil							X	1	TCL Volatiles EPA 8240
8/3/95		EWB1-10-14	X		Soil							X	1	Specific Scan please
8/3/95		PMB1-8-10	X		Soil							X	1	see attachment
8/3/95		PMB2-6-8	X		Soil							X	1	
8/3/95		PMB3-8-10	X		Soil							X	1	

TOTAL NUMBER OF CONTAINERS: 5

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
1. Bruce Waggman	8/7/95	10:05am	Wendy Herbst
2.			
3.			

APPENDIX C

APPENDIX C

SVE System Field Monitoring Data

95287\MONIDATA.TAB

WEEK OF SEPTEMBER 4, 1995

Monitoring Data for SVE System Landfill Area B							
Date:	9-7-95	9-7-95	9-7-95	9-7-95	9-8-95		
Time:	START-UP 1045	1115	1500	1845	1045		
Blower Vacuum ("WC)	15	15	15	17	15		
Influent Temp (°F)	< 129	< 129	< 129	< 129	< 129		
Flow Rate (CFM)	> 120	> 120	> 120	> 120	> 120		
Effluent Temp (°F)	< 194	< 194	< 194	< 194	< 194		
Discharge Pressure (psi)	1.0	1.0	0.9	0.9	0.9		
Barometric Pressure ("Hg)	29.99	29.99	29.99	29.99	30.03		
Wellhead Vacuum ("WC)	13	13	13	14	13		
Methane Analyzer	- - -	- - -	- - -	Removed	Removed		
VOC's (ppm)							
SVE Influent	180	154	147	101	129		
GAC A Effluent	0	0.9	0.8	0.0	4.1		
GAC B Effluent	0	0.9	1.0	0.0	3.3		
Backround	0	0.8	1.6	0	0		
VACUUM ("WC)							
PMB-1	5.30	5.40	5.40	5.40	5.50		
PMB-2	1.20	1.30	1.35	1.20	1.70		
PMB-3	0.040	0.035	0.055	0.045	0.065		
GENERAL NOTES:							
Leaks Detected	No	No	No	No	No		
Odors Detected	H_2S at effluent ≈ 5 min.	No	No	No	No		
Daily Precipitation	0	0	0	0	0.1		
Fault Activated	No	No	No	No	No		
Summa Canister Collected	No	YES (0.5 Hrs.)	No	YES (8.0 Hrs)	YES (24.0 Hrs)		

95287\MONIDATA.TAB

WEEK OF SEPTEMBER 11, 1995

Monitoring Data for SVE System Landfill Area B							
Date:	9/11/95	9/12/95	9/13/95	9/14/95			
Time:	0915	1330	★ 1500	1045			
Blower Vacuum ("WC)	15	14	13	13			
Influent Temp (°F)	< 129	< 129	< 129	< 129			
Flow Rate (CFM)	> 120	> 120	> 120	> 120			
Effluent Temp (°F)	< 194	< 194	< 194	< 194			
Discharge Pressure (psi)	0.9	0.9	0.9	0.9			
Barometric Pressure ("Hg)	30.28	30.22	29.98	29.90			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	Removed	Removed	Reinstalled 0	0			
VOC's (ppm)							
SVE Influent	180	45.4	85.7	81.9			
GAC A Effluent	0.5	5.3	5.5	5.4			
GAC B Effluent	0.9	5.5	2.6	4.5			
Backround	0	0	0.8	0			
VACUUM ("WC)							
PMB-1	5.40	5.70	5.60	5.60			
PMB-2	1.40	1.35	1.35	1.60			
PMB-3	0.045	0.045	0.045	0.045			
GENERAL NOTES:							
Leaks Detected	No	No	No	No			
Odors Detected	No	No	No	No			
Daily Precipitation	0	0	0	0			
Fault Activated	YES (moisture - ≈6 gal. removed)	No	No	No			
Summa Canister Collected	No	No	No	(7 DAYS) YES			

95287\MONIDATA.TAB

WEEK OF SEPTEMBER 18, 1995

Monitoring Data for SVE System Landfill Area B							
Date:	9/18/95	9/19/95	9/20/95	9/21/95			
Time:	1045	1045	1045	1045			
Blower Vacuum ("WC)	13	13	14	13			
Influent Temp (°F)	< 129	< 129	< 129	< 129			
Flow Rate (CFM)	> 120	> 120	> 120	> 120			
Effluent Temp (°F)	< 194	< 194	< 194	< 194			
Discharge Pressure (psi)	0.9	0.9	0.9	0.9			
Barometric Pressure ("Hg)	30.02	30.23	30.15	30.04			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	0	0	0	1			
VOC's (ppm)							
SVE Influent	80.6	68.7	59.7	68.8			
GAC A Effluent	4.1	4.8	4.7	4.2			
GAC B Effluent	2.3	2.1	2.7	2.3			
Backround	0	0.5	0.1	0.6			
VACUUM ("WC)							
PMB-1	5.60	5.70	5.70	5.70			
PMB-2	1.35	1.35	1.35	1.35			
PMB-3	0.075	0.055	0.075	0.000			
GENERAL NOTES:							
Leaks Detected	No	No	No	No			
Odors Detected	No	No	No	No			
Daily Precipitation	0	0					
Fault Activated	YES (moist. ~6 gal H2O removed)	No	No	No			
Summa Canister Collected	No	No	No	YES (14 DAYS)			

WEEK OF SEPTEMBER 25, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System Landfill Area B							
Date:	9/25/95	9/26/95	9/27/95	9/28/95			
Time:	1045	1100	1145	1045			
Blower Vacuum ("WC)	14	14	13	13			
Influent Temp (°F)	< 129	< 129	< 129	< 129			
Flow Rate (CFM)	> 120	> 120	> 120	> 120			
Effluent Temp (°F)	< 194	< 194	< 194	< 194			
Discharge Pressure (psi)	0.9	0.9	1.1	1.1			
Barometric Pressure ("Hg)	30.02	29.98	29.87	30.00			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	1	1	3	2			
VOC's (ppm)							
SVE Influent	88.6	76.4	85.0	68.5			
GAC A Effluent	10.5	29.3	4.4 ★	4.4			
GAC B Effluent	9.8	14.1	4.1 ★	1.9			
Background	2.6	1.5	1.8	0.0			
VACUUM ("WC)							
PMB-1	5.60	5.60	5.50	5.50			
PMB-2	1.25	1.25	1.25	1.25			
PMB-3	0.060	0	0.085	0.065			
GENERAL NOTES:							
Leaks Detected	NO	NO	NO	NO			
Odors Detected	NO	NO	NO	NO			
Daily Precipitation	0	0	0	0			
Fault Activated	YES - Moist. 0830	YES Moist. 0830	NO	YES 0830 Moist.			
Summa Canister Collected	NO	NO	NO	YES 21 DAYS			

★. Carbon Drums Changed 9/27/95 Before Readings Obtained

95287\MONIDATA.TAB

WEEK OF OCTOBER 2, 1995

Monitoring Data for SVE System Landfill Area B							
Date:	10/2/95	10/3/95	10/4/95	10/5/95		~~10/6/95~~	~~10/7/95~~
Time:	1400	1045	1045	1045		~~1045~~	
Blower Vacuum ("WC)	13	14	13	14			
Influent Temp (°F)	<129	<129	<129	<129			
Flow Rate (CFM)	>120	>120	>120	>120			
Effluent Temp (°F)	<194	<194	<194	<194			
Discharge Pressure (psi)	1.1	1.1	1.1	1.1			
Barometric Pressure ("Hg)	29.86	30.05	29.84	30.01			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	4	3	3	3			
VOC's (ppm)							
SVE Influent	89.9	67.1	72.2	71.5			
GAC A Effluent	6.0	4.2	6.9	11.7			
GAC B Effluent	4.3	1.5	4.3	8.4			
Backround	0.0	0.0	1.2	1.9			
VACUUM ("WC)							
PMB-1	5.50	5.50	5.50	5.50			
PMB-2	1.30	1.25	1.25	1.25			
PMB-3	0.075	0.065	0	0			
GENERAL NOTES:							
Leaks Detected	NO	NO	NO	NO			
Odors Detected	NO	NO	NO	NO			
Daily Precipitation	0	0	0.6	0			
Fault Activated	YES 0730 Moist	NO	YES 0745 Moist	YES 0715 moist			
Summa Canister Collected	NO	NO	NO	YES 28 DAYS			

WEEK OF OCTOBER 9, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System Landfill Area B							
Date:	10/9/95	10/10/95	10/11/95	10/12/95			
Time:	1045	1215	1045	1045			
Blower Vacuum ("WC)	13	13	14	14			
Influent Temp (°F)	<129	<129	<129	<129			
Flow Rate (CFM)	>120	>120	>120	>120			
Effluent Temp (°F)	<194	<194	<194	<194			
Discharge Pressure (psi)	1.0	1.1	1.1	1.1			
Barometric Pressure ("Hg)	30.12	30.15	30.08	30.15			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	3	4	4	4			
VOC's (ppm)							
SVE Influent	71.6	64.1	61.1	54.2			
GAC A Effluent	12.1	16.5	13.6	16.9			
GAC B Effluent	9.1	10.1	5.2	8.4			
Background	1.3	0.0	0.6	0.0			
VACUUM ("WC)							
PMB-1	5.50	5.50	5.50	5.50			
PMB-2	1.26	1.35	1.35	1.35			
PMB-3	0	0.075	0.105	0.100			
GENERAL NOTES:							
Leaks Detected	NO	NO	NO	NO			
Odors Detected	NO	NO	NO	NO			
Daily Precipitation	3.2"	0	0	0			
Fault Activated	YES Moist.	YES Moist.	NO	YES 0715 Moist.			
Summa Canister Collected	NO	NO	NO	YES - 5 WEEKS			

WEEK OF OCTOBER 16, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System							
Landfill Area B							
Date:	10/16/95	10/17/95	10/18/95	10/19/95			
Time:	1130	1045	1045	1045			
Blower Vacuum ("WC)	13	14	13	14			
Influent Temp (°F)	<129	<129	<129	<129			
Flow Rate (CFM)	>120	>120	>120	>120			
Effluent Temp (°F)	<194	<194	<194	<194			
Discharge Pressure (psi)	1.1	1.1	1.1	1.1			
Barometric Pressure ("Hg)	29.67	30.15	30.12	30.15			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	4	3	4	2			
VOC's (ppm)							
SVE Influent	58.9	60.9	57.3	54.4			
GAC A Effluent	13.7	15.8	19.1	20.1			
GAC B Effluent	7.2	7.9	11.1	15.1			
Background	1.1	0.7	0.5	0.8			
VACUUM ("WC)							
PMB-1	5.50	5.50	5.50	5.50			
PMB-2	1.35	1.35	1.35	1.35			
PMB-3	0.065	0.075	0.075	0.075			
GENERAL NOTES:							
Leaks Detected	NO	NO	NO	NO			
Odors Detected	NO	NO	NO	NO			
Daily Precipitation	0.4"	0	0	0			
Fault Activated	YES 0715 MOIST	YES 0715 MOIST	YES 0730 MOIST	YES 0700 MOIST			
Summa Canister Collected	NO	NO	NO	YES 6 WEEKS			

WEEK OF OCTOBER 23, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System Landfill Area B							
Date:	10/23/95	10/24/95	10/25/95	10/26/95	10/27/95	10/28/95	
Time:	1045	1000	0945	1130	1000	1000	
Blower Vacuum ("WC)	14	14	14	14	14	14	
Influent Temp (°F)	<129	<129	<129	<129	<129	<129	
Flow Rate (CFM)	>120	>120	>120	>120	>120	>120	
Effluent Temp (°F)	<194	<194	<194	<194	<194	<194	
Discharge Pressure (psi)	1.1	1.1	1.1	1.1	1.1	1.1	
Barometric Pressure ("Hg)	30.04	30.03	30.04	30.06	29.69	29.41	
Wellhead Vacuum ("WC)	16	16	16	16	16	16	
Methane Analyzer	4	4	3	4	3	4	
VOC's (ppm)							
SVE Influent	50.4	53.4	50.7*	48.2*	42.2*	44.9	
GAC A Effluent	17.6	26.8	29.7*	34.1*	46.5*	16.6	
GAC B Effluent	14.2	22.5	22.9*	23.5*	45.3*	9.1	
Background	0.6	1.5	0.8*	0.4*	0.2*	0.0	
VACUUM ("WC)							
PMB-1	5.40	5.50	5.50	5.50	5.50	5.40	
PMB-2	1.35	1.35	1.35	1.35	1.35	1.30	
PMB-3	0	0.065	0.065	0.075	0.065	0.055	
GENERAL NOTES:							
Leaks Detected	No	No	No	No	No	No	
Odors Detected	No	No	No	No	No	No	
Daily Precipitation	Accumulated 1.45	0	0.1	0	0	0.1	
Fault Activated	YES 0715 Moist	No	No	YES 0715 Moist	YES 0645 Moist	YES 0650 Moist	
Summa Canister Collected	No	No	No	YES 7 WEEKS	No	No	

* Readings taken with HNU PID while REMEDI's sent back for Servicing. (LAT)

WEEK OF OCTOBER 30, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System Landfill Area B							
Date:	10/30/95	10/31/95	11/1/95	11/2/95			
Time:	1015	0955	1030	0915			
Blower Vacuum ("WC)	14	14	14	14			
Influent Temp (°F)	<129	<129	<129	<129			
Flow Rate (CFM)	>120	>120	>120	>120			
Effluent Temp (°F)	<194	<194	<194	<194			
Discharge Pressure (psi)	1.1	1.1	1.1	1.1			
Barometric Pressure ("Hg)	30.11	30.29	30.31	30.08			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	5	3	3	4			
VOC's (ppm)							
SVE Influent	49.2	40.8	39.5	45.3			
GAC A Effluent	20.6	19.5	17.4	28.4			
GAC B Effluent	11.7	14.3	12.4	19.5			
Background	0.2	0.0	0.0	0.0			
VACUUM ("WC)							
PMB-1	5.40	5.40	5.30	5.30			
PMB-2	1.25	1.25	1.25	1.25			
PMB-3	0.045	0.065	0.075	0.065			
GENERAL NOTES:							
Leaks Detected	No	No	No	No			
Odors Detected	No	No	No	No			
Daily Precipitation	0.2	0	0.05	0.4			
Fault Activated	YES 0650 MoiST.	YES 0700 MoiST	YES 0745 MoiST.	YES 0700 MoiST			
Summa Canister Collected	No	No	No	YES 8 WEEKS			

WEEK OF NOVEMBER 6, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System Landfill Area B							
Date:	11/6/95	11/7/95	11/8/95	11/9/95			
Time:	1030	1045	1045	1000			
Blower Vacuum ("WC)	14	14	14	14			
Influent Temp (°F)	<129	<129	<129	<129			
Flow Rate (CFM)	>120	>120	>120	>120			
Effluent Temp (°F)	<194	<194	<194	<194			
Discharge Pressure (psi)	1.1	1.1	1.1	1.1			
Barometric Pressure ("Hg)	30.20	29.91	29.67	29.77			
Wellhead Vacuum ("WC)	16	16	16	16			
Methane Analyzer	4	4	3	3			
VOC's (ppm)							
SVE Influent	49.1	46.0	39.7	35.2			
GAC A Effluent	17.9	17.3	13.5	11.2			
GAC B Effluent	9.1	10.1	5.7	4.1			
Background	0.0	0.0	0.1	0.5			
VACUUM ("WC)							
PMB-1	5.40	5.30	5.40	5.30			
PMB-2	1.25	1.20	1.25	0.0			
PMB-3	0.055	0.0	0.065	0.0			
GENERAL NOTES:							
Leaks Detected	NO	NO	NO	NO			
Odors Detected	NO	NO	NO	NO			
Daily Precipitation	0	0.4	0	0			
Fault Activated	YES 0700 MOIST.	YES 0730 MOIST.	YES 0730 MOIST.	YES 0700 MOIST.			
Summa Canister Collected	NO	NO	NO	YES 9 WEEKS			
ADDITIONAL FAULT ACTIVATED	NO	YES 1045 METHANE	NO	YES 9 WEEKS			

WEEK OF NOVEMBER 13, 1995

95287\MONIDATA.TAB

Monitoring Data for SVE System Landfill Area B							
Date:	11/13/95						
Time:	0700						
Blower Vacuum ("WC)	*						
Influent Temp (°F)	*						
Flow Rate (CFM)	*						
Effluent Temp (°F)	*						
Discharge Pressure (psi)	*						
Barometric Pressure ("Hg)	*						
Wellhead Vacuum ("WC)	*						
Methane Analyzer	*						
VOC's (ppm)							
SVE Influent	*						
GAC A Effluent	*						
GAC B Effluent	*						
Background	*						
VACUUM ("WC)							
PMB-1	*						
PMB-2	*						
PMB-3	*						
GENERAL NOTES:							
Leaks Detected	*						
Odors Detected	*						
Daily Precipitation	*						
Fault Activated	YES 0700 MOIST.						
Summa Canister Collected	NO						

* LANDFILL B's SVE SYSTEM WAS DOWN AT 0700 ON MONDAY, NOV. 13, 1995 BECAUSE OF MOISTURE FAULT ACTIVATION. THE SYSTEM WAS LEFT DOWN AND WILL REMAIN SHUT DOWN FOR A TWO WEEK PERIOD. THE WATER WAS REMOVED AND A SMALL HEATER WAS TURNED ON INSIDE THE SYSTEM (TRAILER) L.A.T.

APPENDIX D

APPENDIX D

Extraction Well Soil Vapor Laboratory Reports

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	09/28/95
Address:	3240 Schoolhouse Road	Date Received:	09/15/95
	Middletown, PA 17057	PAI Project No:	P95-8830
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

Four (4) Stainless Steel Summa Canisters labeled:

"SVE-0.5 Hrs" "SVE-8.0 Hrs" "SVE-24.0 Hrs" "SVE-7 Days (168 Hrs)"

The samples were received at the laboratory under chain of custody on September 15, 1995. The samples were received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The samples were analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Christopher Casteel
Manager of Technical Operations

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/24/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 9/28/95

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1139 • Fax 818 709-2915

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/24/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/26/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/26/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RCa

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **SVE-0.5 HRS**
PAI Sample ID : **9504787**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/7/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/26/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0005 Liter(s)

Pi 1 = -0.2
Pf 1 = 3.0

D.F. = 1.22

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	50	ND	24
75-01-4	Vinyl Chloride	10,000	50	4,000	20
75-00-3	Chloroethane	ND	50	ND	19
74-83-9	Bromomethane	ND	50	ND	13
67-64-1	Acetone	ND	50	ND	21
75-69-4	Trichlorofluoromethane	1,100	50	200	9.0
75-35-4	1,1-Dichloroethene	1,500	50	370	13
75-09-2	Methylene chloride	240	50	71	15
75-15-0	Carbon Disulfide	2,200	50	720	16
76-13-1	Trichlorotrifluoroethane	ND	50	ND	6.6
156-60-5	trans-1,2-Dichloroethene	1,600	50	410	13
156-59-2	cis-1,2-Dichloroethene	130,000	50	33,000	13
75-34-3	1,1-Dichloroethane	4,500	50	1,100	12
1634-04-4	Methyl tert-Butyl Ether	ND	50	ND	14
108-05-4	Vinyl Acetate	ND	50	ND	14
78-93-3	2-Butanone	56	50	19	17
67-66-3	Chloroform	5,600	50	1,200	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	770	50	140	9.3
71-43-2	Benzene	170	50	55	16
56-23-5	Carbon Tetrachloride	3,200	50	520	8.0
78-87-5	1,2-Dichloropropane	ND	50	ND	11

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-0.5 HRS
PAI Sample ID : 9504787

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/7/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/26/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0005 Liter(s)

Pi 1 = -0.2
Pf 1 = 3.0
D.F. = 1.22

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	50	ND	7.5
79-01-6	Trichloroethene	36,000	50	6,700	9.4
10061-01-5	cis-1,3-Dichloropropene	ND	50	ND	11
108-10-1	4-Methyl-2-pentanone	ND	50	ND	12
10061-02-6	trans-1,3-Dichloropropene	ND	50	ND	11
79-00-5	1,1,2-Trichloroethane	ND	50	ND	9.3
108-88-3	Toluene	190	50	49	13
124-48-1	Dibromochloromethane	ND	50	ND	5.9
591-78-6	2-Hexanone	ND	50	ND	12
106-93-4	1,2-Dibromoethane	ND	50	ND	6.6
127-18-4	Tetrachloroethene	210,000	50	31,000	7.5
108-90-7	Chlorobenzene	ND	50	ND	11
100-41-4	Ethylbenzene	4,500	50	1,000	12
75-25-2	Bromoform	ND	50	ND	4.9
100-42-5	Styrene	ND	50	ND	12
1330-20-7	m,p-Xylenes	2,800	50	650	12
95-47-6	o-Xylene	540	50	120	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ND	7.4
541-73-1	1,3-Dichlorobenzene	ND	50	ND	8.4
106-46-7	1,4-Dichlorobenzene	ND	50	ND	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-8 HRS
PAI Sample ID : 9504788

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/7/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/27/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0005 Liter(s)

Pi 1 = 0.3
Pf 1 = 3.0

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	50	ND	24
75-01-4	Vinyl Chloride	6,100	50	2,400	20
75-00-3	Chloroethane	ND	50	ND	19
74-83-9	Bromomethane	ND	50	ND	13
67-64-1	Acetone	570	50	240	21
75-69-4	Trichlorofluoromethane	720	50	130	9.0
75-35-4	1,1-Dichloroethene	1,000	50	260	13
75-09-2	Methylene chloride	160	50	47	15
75-15-0	Carbon Disulfide	3,400	50	1,100	16
76-13-1	Trichlorotrifluoroethane	ND	50	ND	6.6
156-60-5	trans-1,2-Dichloroethene	960	50	250	13
156-59-2	cis-1,2-Dichloroethene	90,000	50	23,000	13
75-34-3	1,1-Dichloroethane	2,900	50	730	12
1634-04-4	Methyl tert-Butyl Ether	ND	50	ND	14
108-05-4	Vinyl Acetate	ND	50	ND	14
78-93-3	2-Butanone	120	50	42	17
67-66-3	Chloroform	4,100	50	840	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	690	50	130	9.3
71-43-2	Benzene	140	50	44	16
56-23-5	Carbon Tetrachloride	2,900	50	470	8.0
78-87-5	1,2-Dichloropropane	ND	50	ND	11

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-8 HRS
PAI Sample ID : 9504788

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/7/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/27/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0005 Liter(s)

Pi 1 = 0.3
Pf 1 = 3.0

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	50	ND	7.5
79-01-6	Trichloroethene	23,000	50	4,400	9.4
10061-01-5	cis-1,3-Dichloropropene	ND	50	ND	11
108-10-1	4-Methyl-2-pentanone	ND	50	ND	12
10061-02-6	trans-1,3-Dichloropropene	ND	50	ND	11
79-00-5	1,1,2-Trichloroethane	ND	50	ND	9.3
108-88-3	Toluene	150	50	39	13
124-48-1	Dibromochloromethane	ND	50	ND	5.9
591-78-6	2-Hexanone	ND	50	ND	12
106-93-4	1,2-Dibromoethane	ND	50	ND	6.6
127-18-4	Tetrachloroethene	160,000	50	23,000	7.5
108-90-7	Chlorobenzene	ND	50	ND	11
100-41-4	Ethylbenzene	3,100	50	710	12
75-25-2	Bromoform	ND	50	ND	4.9
100-42-5	Styrene	ND	50	ND	12
1330-20-7	m,p-Xylenes	2,200	50	500	12
95-47-6	o-Xylene	470	50	110	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ND	7.4
541-73-1	1,3-Dichlorobenzene	ND	50	ND	8.4
106-46-7	1,4-Dichlorobenzene	ND	50	ND	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-24 HRS
PAI Sample ID : 9504789

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/8/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/26/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0010 Liter(s)

Pi 1 = 0.1
Pf 1 = 3.0

D.F. = 1.20

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	50	ND	24
75-01-4	Vinyl Chloride	4,200	50	1,600	20
75-00-3	Chloroethane	ND	50	ND	19
74-83-9	Bromomethane	ND	50	ND	13
67-64-1	Acetone	600	50	250	21
75-69-4	Trichlorofluoromethane	450	50	80	9.0
75-35-4	1,1-Dichloroethene	780	50	200	13
75-09-2	Methylene chloride	140	50	41	15
75-15-0	Carbon Disulfide	3,800	50	1,200	16
76-13-1	Trichlorotrifluoroethane	ND	50	ND	6.6
156-60-5	trans-1,2-Dichloroethene	690	50	180	13
156-59-2	cis-1,2-Dichloroethene	54,000	50	14,000	13
75-34-3	1,1-Dichloroethane	2,300	50	580	12
1634-04-4	Methyl tert-Butyl Ether	ND	50	ND	14
108-05-4	Vinyl Acetate	ND	50	ND	14
78-93-3	2-Butanone	140	50	47	17
67-66-3	Chloroform	3,700	50	760	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	610	50	110	9.3
71-43-2	Benzene	130	50	40	16
56-23-5	Carbon Tetrachloride	3,000	50	490	8.0
78-87-5	1,2-Dichloropropane	ND	50	ND	11

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-24 HRS
PAI Sample ID : 9504789

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/8/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/26/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0010 Liter(s)

Pi 1 = 0.1
Pf 1 = 3.0

D.F. = 1.20

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	50	ND	7.5
79-01-6	Trichloroethene	15,000	50	2,800	9.4
10061-01-5	cis-1,3-Dichloropropene	ND	50	ND	11
108-10-1	4-Methyl-2-pentanone	ND	50	ND	12
10061-02-6	trans-1,3-Dichloropropene	ND	50	ND	11
79-00-5	1,1,2-Trichloroethane	ND	50	ND	9.3
108-88-3	Toluene	130	50	36	13
124-48-1	Dibromochloromethane	ND	50	ND	5.9
591-78-6	2-Hexanone	ND	50	ND	12
106-93-4	1,2-Dibromoethane	ND	50	ND	6.6
127-18-4	Tetrachloroethene	110,000	50	16,000	7.5
108-90-7	Chlorobenzene	ND	50	ND	11
100-41-4	Ethylbenzene	2,200	50	520	12
75-25-2	Bromoform	ND	50	ND	4.9
100-42-5	Styrene	ND	50	ND	12
1330-20-7	m,p-Xylenes	1,900	50	430	12
95-47-6	o-Xylene	430	50	99	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ND	7.4
541-73-1	1,3-Dichlorobenzene	ND	50	ND	8.4
106-46-7	1,4-Dichlorobenzene	ND	50	ND	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RCT

Date : 9/28/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-7 Days (168 HRS)
PAI Sample ID : 9504790

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/14/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/26/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0010 Liter(s)

Pi 1 = 0.0
Pf 1 = 3.0

D.F. = 1.20

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	50	ND	24
75-01-4	Vinyl Chloride	1,700	50	680	20
75-00-3	Chloroethane	ND	50	ND	19
74-83-9	Bromomethane	ND	50	ND	13
67-64-1	Acetone	340	50	140	21
75-69-4	Trichlorofluoromethane	210	50	38	9.0
75-35-4	1,1-Dichloroethene	450	50	120	13
75-09-2	Methylene chloride	120	50	34	15
75-15-0	Carbon Disulfide	5,200	50	1,700	16
76-13-1	Trichlorotrifluoroethane	ND	50	ND	6.6
156-60-5	trans-1,2-Dichloroethene	480	50	120	13
156-59-2	cis-1,2-Dichloroethene	32,000	50	8,300	13
75-34-3	1,1-Dichloroethane	1,300	50	330	12
1634-04-4	Methyl tert-Butyl Ether	ND	50	ND	14
108-05-4	Vinyl Acetate	ND	50	ND	14
78-93-3	2-Butanone	71	50	24	17
67-66-3	Chloroform	2,800	50	590	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	470	50	87	9.3
71-43-2	Benzene	110	50	35	16
56-23-5	Carbon Tetrachloride	4,800	50	770	8.0
78-87-5	1,2-Dichloropropane	ND	50	ND	11

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-7 Days (168 HRS)
PAI Sample ID : 9504790

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/14/95
Date Received : 9/15/95
Date Analyzed : 9/24/95 ;9/26/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0010 Liter(s)

Pi 1 = 0.0
Pf 1 = 3.0

D.F. = 1.20

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	50	ND	7.5
79-01-6	Trichloroethene	9,000	50	1,700	9.4
10061-01-5	cis-1,3-Dichloropropene	ND	50	ND	11
108-10-1	4-Methyl-2-pentanone	ND	50	ND	12
10061-02-6	trans-1,3-Dichloropropene	ND	50	ND	11
79-00-5	1,1,2-Trichloroethane	ND	50	ND	9.3
108-88-3	Toluene	150	50	39	13
124-48-1	Dibromochloromethane	ND	50	ND	5.9
591-78-6	2-Hexanone	ND	50	ND	12
106-93-4	1,2-Dibromoethane	ND	50	ND	6.6
127-18-4	Tetrachloroethene	73,000	50	11,000	7.5
108-90-7	Chlorobenzene	ND	50	ND	11
100-41-4	Ethylbenzene	1,200	50	280	12
75-25-2	Bromoform	ND	50	ND	4.9
100-42-5	Styrene	ND	50	ND	12
1330-20-7	m,p-Xylenes	1,400	50	330	12
95-47-6	o-Xylene	380	50	89	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ND	7.4
541-73-1	1,3-Dichlorobenzene	ND	50	ND	8.4
106-46-7	1,4-Dichlorobenzene	ND	50	ND	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 9/28/95

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Performance Analytical Inc.
Environmental Testing and Consulting

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name: SMC - Niagra Falls	Address/Phone: 3240 Schoolhouse Rd, Middletown, PA 17057; 717-944-5501	ANALYSES	PAI Project No.: P958830	
Project Location: Landfill B	Client Project No.: 95287			
Contact: Larry J. DeFluri	Sampler (Signature): Peter Cagnetti	P.O. No.		

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	TO14						Expected Turnaround Time	Remarks
SVE- 0.5 Hrs	9-7-95	1045	9504787	Soil Gas	X						STD. TAT	177
SVE-8.0 HRS	9-7-95	1845	9504788	Soil Gas	X						STD	191
SVE-24.0 HRS	9-8-95	1045	9504789	Soil Gas	X						STD	468
SVE-7 DAYS (168 HRS)	9-14-95	1045	9504790	Soil Gas	X						STD	20

NOTE: Original laboratory report to be sent to Mr. Larry DeFluri, R.E. Wright Environmental, Inc., 3240 Schoolhouse Road, Middletown, PA 17057, Telephone No. (717) 944-5501

Copy of Report Should be Sent to Ms. Carol Dickerson, Zeneca, Inc., Concord ~~Bldg.~~ PLAZA, Hanby Bldg., Wilmington, DE 19897, Telephone No. (302) 886-5123

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee A. Thomas	9-14-95	1130	Robert D. [illegible]	9/15/95	9:00 A.M.

Disposal Method

Disposed by: (Signature)	Date	Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	09/29/95
Address:	3240 Schoolhouse Road	Date Received:	09/22/95
	Middletown, PA 17057	PAI Project No:	P95-8863
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-14 Days"

The sample was received at the laboratory under chain of custody on September 22, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Christopher Casteel
Manager of Technical Operations

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/24/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 9/28/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/24/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SLB

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/26/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SLG

Date : 9/28/95

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1139 • Fax 818 709-2915

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 9/26/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-14 Days
PAI Sample ID : 9504893

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/21/95
Date Received : 9/22/95
Date Analyzed : 9/24/95 ;9/27/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0010 Liter(s)

Pi 1 = 0.0
Pf 1 = 3.0

D.F. = 1.20

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	50	ND	24
75-01-4	Vinyl Chloride	1,200	50	490	20
75-00-3	Chloroethane	ND	50	ND	19
74-83-9	Bromomethane	ND	50	ND	13
67-64-1	Acetone	310	50	130	21
75-69-4	Trichlorofluoromethane	190	50	34	9.0
75-35-4	1,1-Dichloroethene	410	50	100	13
75-09-2	Methylene chloride	140	50	42	15
75-15-0	Carbon Disulfide	8,900	50	2,900	16
76-13-1	Trichlorotrifluoroethane	ND	50	ND	6.6
156-60-5	trans-1,2-Dichloroethene	490	50	120	13
156-59-2	cis-1,2-Dichloroethene	25,000	50	6,400	13
75-34-3	1,1-Dichloroethane	1,200	50	300	12
1634-04-4	Methyl tert-Butyl Ether	ND	50	ND	14
108-05-4	Vinyl Acetate	ND	50	ND	14
78-93-3	2-Butanone	ND	50	ND	17
67-66-3	Chloroform	3,100	50	640	10
107-06-2	1,2-Dichloroethane	ND	50	ND	12
71-55-6	1,1,1-Trichloroethane	490	50	91	9.3
71-43-2	Benzene	140	50	44	16
56-23-5	Carbon Tetrachloride	6,900	50	1,100	8.0
78-87-5	1,2-Dichloropropane	ND	50	ND	11

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SL

Date : 9/28/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : **SVE-14 Days**
PAI Sample ID : **9504893**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/21/95
Date Received : 9/22/95
Date Analyzed : 9/24/95 ;9/27/95
Volume(s) Analyzed : 0.020 Liter(s)
0.0010 Liter(s)

Pi 1 = 0.0
Pf 1 = 3.0

D.F. = 1.20

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	50	ND	7.5
79-01-6	Trichloroethene	7,600	50	1,400	9.4
10061-01-5	cis-1,3-Dichloropropene	ND	50	ND	11
108-10-1	4-Methyl-2-pentanone	ND	50	ND	12
10061-02-6	trans-1,3-Dichloropropene	ND	50	ND	11
79-00-5	1,1,2-Trichloroethane	ND	50	ND	9.3
108-88-3	Toluene	190	50	50	13
124-48-1	Dibromochloromethane	ND	50	ND	5.9
591-78-6	2-Hexanone	ND	50	ND	12
106-93-4	1,2-Dibromoethane	ND	50	ND	6.6
127-18-4	Tetrachloroethene	67,000	50	10,000	7.5
108-90-7	Chlorobenzene	ND	50	ND	11
100-41-4	Ethylbenzene	1,100	50	240	12
75-25-2	Bromoform	ND	50	ND	4.9
100-42-5	Styrene	ND	50	ND	12
1330-20-7	m,p-Xylenes	1,500	50	340	12
95-47-6	o-Xylene	410	50	94	12
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	ND	7.4
541-73-1	1,3-Dichlorobenzene	ND	50	ND	8.4
106-46-7	1,4-Dichlorobenzene	ND	50	ND	8.4
95-50-1	1,2-Dichlorobenzene	ND	50	ND	8.4

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 9/28/95

Performance Analytical Inc.
Environmental Testing and Consulting

20954 Osborne Street
Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	PAI Project No.
SMC - NIAGARA FALLS	3240 Schoolhouse Road. Middletown, PA 17057	P95-8863
Project Location	**Client Project No.**	
Landfill B	95287	
Contact	**Sampler (Signature)**	**P.O. No.**
Larry J. De Fluri	Lee A. Thomas	

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T014	Expected Turnaround Time	Remarks
SVE - 14 DAYS	9/21/95	1045	9504893	Soil GAS	X	Std. Time	49

ANALYSES

Notes: ① Original lab report to be Sent to Mr. Larry De Fluri, R.E. Wright Environmental, Inc., 3240 Schoolhouse Road, Middletown, PA 17057, Telephone No. (717) 944-5501.

② Copy of report Should be Sent to Ms. Carol Dickerson, Zeneca Inc. Concord Plaza, Hanby Bldg., Wilmington, DE 19897, Telephone No. (302) 886-5123.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee A. Thomas	9-21-95	1250	Robert De Lo	9/22/95	9:00 AM
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method	
Disposed by: (Signature)	Date / Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	10/04/95
Address:	3240 Schoolhouse Road	Date Received:	09/29/95
	Middletown, PA 17057	PAI Project No:	P95-8896
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-21 Days"

The sample was received at the laboratory under chain of custody on September 29, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Christopher Casteel
Manager of Technical Operations

Reviewed and Approved:

Michael Tuday
Laboratory Director

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/3/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 10/4/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/3/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RCs

Date : 10/4/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **SVE - 21 Days**
PAI Sample ID : **9504984**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/28/95
Date Received : 9/29/95
Date Analyzed : 10/3/95
Volume(s) Analyzed : 0.001 Liter(s)

Pi 1 = 0.2
Pf 1 = 2.5

D.F. = 1.15

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1,000	ND	150
79-01-6	Trichloroethene	8,000	1,000	1,500	190
10061-01-5	cis-1,3-Dichloropropene	ND	1,000	ND	220
108-10-1	4-Methyl-2-pentanone	ND	1,000	ND	240
10061-02-6	trans-1,3-Dichloropropene	ND	1,000	ND	220
79-00-5	1,1,2-Trichloroethane	ND	1,000	ND	190
108-88-3	Toluene	520 TR	1,000	140 TR	270
124-48-1	Dibromochloromethane	ND	1,000	ND	120
591-78-6	2-Hexanone	ND	1,000	ND	240
106-93-4	1,2-Dibromoethane	ND	1,000	ND	130
127-18-4	Tetrachloroethene	63,000	1,000	9,400	150
108-90-7	Chlorobenzene	ND	1,000	ND	220
100-41-4	Ethylbenzene	580 TR	1,000	130 TR	230
75-25-2	Bromoform	ND	1,000	ND	98
100-42-5	Styrene	ND	1,000	ND	240
1330-20-7	m,p-Xylenes	840 TR	1,000	190 TR	230
95-47-6	o-Xylene	ND	1,000	ND	230
79-34-5	1,1,2,2-Tetrachloroethane	ND	1,000	ND	150
541-73-1	1,3-Dichlorobenzene	ND	1,000	ND	170
106-46-7	1,4-Dichlorobenzene	ND	1,000	ND	170
95-50-1	1,2-Dichlorobenzene	ND	1,000	ND	170

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 10/4/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE - 21 Days
PAI Sample ID : 9504984

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 9/28/95
Date Received : 9/29/95
Date Analyzed : 10/3/95
Volume(s) Analyzed : 0.001 Liter(s)

Pi 1 = 0.2
Pf 1 = 2.5

D.F. = 1.15

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1,000	ND	490
75-01-4	Vinyl Chloride	1,600	1,000	630	390
75-00-3	Chloroethane	ND	1,000	ND	380
74-83-9	Bromomethane	ND	1,000	ND	260
67-64-1	Acetone	ND	1,000	ND	420
75-69-4	Trichlorofluoromethane	ND	1,000	ND	180
75-35-4	1,1-Dichloroethene	ND	1,000	ND	250
75-09-2	Methylene chloride	ND	1,000	ND	290
75-15-0	Carbon Disulfide	6,900	1,000	2,200	320
76-13-1	Trichlorotrifluoroethane	ND	1,000	ND	130
156-60-5	trans-1,2-Dichloroethene	ND	1,000	ND	250
156-59-2	cis-1,2-Dichloroethene	21,000	1,000	5,300	250
75-34-3	1,1-Dichloroethane	1,100	1,000	270	250
1634-04-4	Methyl tert-Butyl Ether	ND	1,000	ND	280
108-05-4	Vinyl Acetate	ND	1,000	ND	280
78-93-3	2-Butanone	ND	1,000	ND	340
67-66-3	Chloroform	2,900	1,000	600	210
107-06-2	1,2-Dichloroethane	ND	1,000	ND	250
71-55-6	1,1,1-Trichloroethane	ND	1,000	ND	190
71-43-2	Benzene	ND	1,000	ND	310
56-23-5	Carbon Tetrachloride	4,900	1,000	790	160
78-87-5	1,2-Dichloropropane	ND	1,000	ND	220

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 10/4/95

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Performance Analytical Inc.
Environmental Testing and Consulting

20954 Osborne Street
Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	PAI Project No.
SMC - NIAGARA FALLS	(717) 944-5501 3240 Schoolhouse Road Middletown, PA 17057	P958896
Project Location	**Client Project No.**	
LANDFILL B	95287	
Contact	**Sampler (Signature)**	**P.O. No.**
Larry J. DeFluri	Lee A. Thomas	

ANALYSES: T-014

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE - 21 DAYS	9/28/95	1045	9504984	Soil Gas	X	Std. Time	11

Notes &

① Original lab report to be Sent to Mr. Larry DeFluri, R.E. Wright Environmental, Inc. 3240 Schoolhouse Road, Middletown, PA 17057, Telephone No. (717) 944-5501.

② Copy of report Should be Sent to Ms Carol Dickerson, Zeneca, Inc., Concord Plaza, Hanby Bldg, Wilmington, DE 19897, Telephone No. (302) 886-5123.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee A. Thomas	9-28-95	1158	Robert D. Lee	9/29/95	9:00 AM
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	10/18/95
Address:	3240 Schoolhouse Road	Date Received:	10/06/95
	Middletown, PA 17057	PAI Project No:	P95-8930
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B

One (1) Stainless Steel Summa Canister labeled: "SVE-28 Days"

The sample was received at the laboratory under chain of custody on October 6, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Finnigan Model 4500 GC/MS/DS interfaced to a Tekmar 5010 Automatic Desorber. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Kathleen Aguilera
Analytical Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1139 • Fax 818 709-2915

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Kathleen Aguilera
Instrument : Finnigan 4500C/Tekmar 5010
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/10/95
Volume(s) Analyzed : 1.00 (Liter)

Pi 1 = 0.0 Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m3	REPORTING LIMIT ug/m3	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	5.0	ND	2.4
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-00-3	Chloroethane	ND	5.0	ND	1.9
74-83-9	Bromomethane	ND	5.0	ND	1.3
67-64-1	Acetone	ND	20	ND	8.4
75-69-4	Trichlorofluoromethane	ND	5.0	ND	0.90
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene chloride	ND	5.0	ND	1.5
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6
76-13-1	Trichlorotrifluoroethane	ND	5.0	ND	0.66
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ND	1.3
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ND	1.3
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
1634-04-4	Methyl tert-Butyl Ether	ND	5.0	ND	1.4
108-05-4	Vinyl Acetate	ND	10	ND	2.8
78-93-3	2-Butanone	ND	10	ND	3.4
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
78-87-5	1,2-Dichloropropane	ND	5.0	ND	1.1

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 10/17/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Kathleen Aguilera
Instrument : Finnigan 4500C/Tekmar 5010
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/10/95
Volume(s) Analyzed : 1.00 (Liter)

Pi 1 = 0.0 Pf 1 = 0.0
D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m3	REPORTING LIMIT ug/m3	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	5.0	ND	0.75
79-01-6	Trichloroethene	ND	5.0	ND	0.94
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ND	1.1
108-10-1	4-Methyl-2-pentanone	ND	10	ND	2.4
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ND	1.1
79-00-5	1,1,2-Trichloroethane	ND	5.0	ND	0.93
108-88-3	Toluene	ND	5.0	ND	1.3
124-48-1	Dibromochloromethane	ND	5.0	ND	0.59
591-78-6	2-Hexanone	ND	10	ND	2.4
106-93-4	1,2-Dibromoethane	ND	5.0	ND	0.66
127-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
100-41-4	Ethylbenzene	ND	5.0	ND	1.2
75-25-2	Bromoform	ND	5.0	ND	0.49
100-42-5	Styrene	ND	5.0	ND	1.2
1330-20-7	m- & p-Xylenes	ND	5.0	ND	1.2
95-47-6	o-Xylene	ND	5.0	ND	1.2
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ND	0.74
541-73-1	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-46-7	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SC

Date : 10/17/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Finnigan 4500C/Tekmar 5010
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/11/95
Volume(s) Analyzed : 1.00 (Liter)

Pi 1 = 0.0 Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m3	REPORTING LIMIT ug/m3	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	5.0	ND	2.4
75-01-4	Vinyl Chloride	ND	5.0	ND	2.0
75-00-3	Chloroethane	ND	5.0	ND	1.9
74-83-9	Bromomethane	ND	5.0	ND	1.3
67-64-1	Acetone	ND	20	ND	8.4
75-69-4	Trichlorofluoromethane	ND	5.0	ND	0.90
75-35-4	1,1-Dichloroethene	ND	5.0	ND	1.3
75-09-2	Methylene chloride	ND	5.0	ND	1.5
75-15-0	Carbon Disulfide	ND	5.0	ND	1.6
76-13-1	Trichlorotrifluoroethane	ND	5.0	ND	0.66
156-60-5	trans-1,2-Dichloroethene	ND	5.0	ND	1.3
156-59-2	cis-1,2-Dichloroethene	ND	5.0	ND	1.3
75-34-3	1,1-Dichloroethane	ND	5.0	ND	1.2
1634-04-4	Methyl tert-Butyl Ether	ND	5.0	ND	1.4
108-05-4	Vinyl Acetate	ND	10	ND	2.8
78-93-3	2-Butanone	ND	10	ND	3.4
67-66-3	Chloroform	ND	5.0	ND	1.0
107-06-2	1,2-Dichloroethane	ND	5.0	ND	1.2
71-55-6	1,1,1-Trichloroethane	ND	5.0	ND	0.93
71-43-2	Benzene	ND	5.0	ND	1.6
56-23-5	Carbon Tetrachloride	ND	5.0	ND	0.80
78-87-5	1,2-Dichloropropane	ND	5.0	ND	1.1

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SLG

Date : 10/17/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Finnigan 4500C/Tekmar 5010
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/11/95
Volume(s) Analyzed : 1.00 (Liter)

Pi 1 = 0.0 Pf 1 = 0.0
D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m3	REPORTING LIMIT ug/m3	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	5.0	ND	0.75
79-01-6	Trichloroethene	ND	5.0	ND	0.94
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	ND	1.1
108-10-1	4-Methyl-2-pentanone	ND	10	ND	2.4
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	ND	1.1
79-00-5	1,1,2-Trichloroethane	ND	5.0	ND	0.93
108-88-3	Toluene	ND	5.0	ND	1.3
124-48-1	Dibromochloromethane	ND	5.0	ND	0.59
591-78-6	2-Hexanone	ND	10	ND	2.4
106-93-4	1,2-Dibromoethane	ND	5.0	ND	0.66
127-18-4	Tetrachloroethene	ND	5.0	ND	0.75
108-90-7	Chlorobenzene	ND	5.0	ND	1.1
100-41-4	Ethylbenzene	ND	5.0	ND	1.2
75-25-2	Bromoform	ND	5.0	ND	0.49
100-42-5	Styrene	ND	5.0	ND	1.2
1330-20-7	m- & p-Xylenes	ND	5.0	ND	1.2
95-47-6	o-Xylene	ND	5.0	ND	1.2
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	ND	0.74
541-73-1	1,3-Dichlorobenzene	ND	5.0	ND	0.84
106-46-7	1,4-Dichlorobenzene	ND	5.0	ND	0.84
95-50-1	1,2-Dichlorobenzene	ND	5.0	ND	0.84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : (SB)

Date : 10/17/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE - 28 DAYS
PAI Sample ID : 9505136

Test Code : GC/MS EPA TO-14
Analyst : Kathleen Aguilera
Instrument : Finnigan 4500C/Tekmar 5010
Matrix : Summa Canister

Date Sampled : 10/5/95
Date Received : 10/6/95
Date Analyzed : 10/10-11/95
Volume(s) Analyzed : 0.010 (Liter)
0.0020 (Liter)

Pi 1 = 0.4 Pf 1 = 2.8
D.F. = 1.16

CAS #	COMPOUND	RESULT ug/m3	REPORTING LIMIT ug/m3	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	1,600	500	610	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	2,000	ND	840
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	ND	500	ND	150
75-15-0	Carbon Disulfide	7,600	500	2,400	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	510	500	130	130
156-59-2	cis-1,2-Dichloroethene	23,000	500	5,900	130
75-34-3	1,1-Dichloroethane	1,000	500	260	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	1,000	ND	280
78-93-3	2-Butanone	ND	1,000	ND	340
67-66-3	Chloroform	3,200	500	660	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	540	500	100	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	7,500	500	1,200	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 10/17/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE - 28 DAYS
PAI Sample ID : 9505136

Test Code : GC/MS EPA TO-14
Analyst : Kathleen Aguilera
Instrument : Finnigan 4500C/Tekmar 5010
Matrix : Summa Canister

Date Sampled : 10/5/95
Date Received : 10/6/95
Date Analyzed : 10/10-11/95
Volume(s) Analyzed : 0.010 (Liter)
0.0020 (Liter)

Pi 1 = 0.4 Pf 1 = 2.8
D.F. = 1.16

CAS #	COMPOUND	RESULT ug/m3	REPORTING LIMIT ug/m3	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	11,000	500	2,000	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	1,000	ND	240
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	1,000	ND	240
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	99,000	500	15,000	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	1,500	500	340	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m- & p-Xylenes	2,300	500	530	120
95-47-6	o-Xylene	760	500	170	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SB

Date : 10/17/95

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Performance Analytical Inc.
Environmental Testing and Consulting

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
SMC - NIAGARA FALLS	(717) 944-5501 3240 Schoolhouse Road Middletown, PA 17057		P958930
Project Location: LANDFILL B	Client Project No.		
Contact: Larry J. DeFluri	Sampler (Signature): Lee A. Thomas	P.O. No.	

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE - 28 DAYS	10/5/95		9505136	Soil Gas	X	Std. Time	14

NOTES:

① Original lab report to be Sent to Mr. Larry DeFluri, Middletown, PA

② Copy of lab report to be Sent to Ms. Carol Dickerson, Wilmington, DE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee A. Thomas	10-5-95	0900	[signature]	10/6/95	9:00 a.m.
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	10/24/95
Address:	3240 Schoolhouse Road	Date Received:	10/13/95
	Middletown, PA 17057	PAI Project No:	P95-8971
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-35 Days (5 Weeks)"

The sample was received at the laboratory under chain of custody on October 13, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Christopher Casteel
Manager of Technical Operations

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/17/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 10/23/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/17/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 10/23/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/20/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : BG

Date : 10/23/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/20/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SLG

Date : 10/23/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-35 Days (5 Weeks)
PAI Sample ID : 9505382

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/12/95
Date Received : 10/13/95
Date Analyzed : 10/17/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.5

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	1,100	500	440	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	ND	500	ND	150
75-15-0	Carbon Disulfide	4,600	500	1,500	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	380 TR	500	97 TR	130
156-59-2	cis-1,2-Dichloroethene	16,000	500	4,000	130
75-34-3	1,1-Dichloroethane	770	500	190	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	2,300	500	470	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	4,400	500	700	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 10/23/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-35 Days (5 Weeks)
PAI Sample ID : 9505382

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/12/95
Date Received : 10/13/95
Date Analyzed : 10/17/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.5

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	5,700	500	1,100	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	38,000	500	5,700	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	300 TR	500	70 TR	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	530	500	120	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 10/23/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-35 Days (5 Weeks)
PAI Sample ID : 9505382 Dup

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/12/95
Date Received : 10/13/95
Date Analyzed : 10/20/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.5

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	1,100	500	430	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	ND	500	ND	150
75-15-0	Carbon Disulfide	4,800	500	1,600	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	400 TR	500	100 TR	130
156-59-2	cis-1,2-Dichloroethene	17,000	500	4,200	130
75-34-3	1,1-Dichloroethane	850	500	210	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	2,300	500	480	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	4,400	500	700	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 10/23/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-35 Days (5 Weeks)
PAI Sample ID : 9505382 Dup

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/12/95
Date Received : 10/13/95
Date Analyzed : 10/20/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.5
D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	5,800	500	1,100	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	42,000	500	6,300	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	270 TR	500	62 TR	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	520	500	120	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 10/22/95

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Performance Analytical Inc.
Environmental Testing and Consulting

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	PAI Project No.
SMC - NIAGARA FALLS	(717) 944-5501 R.E. Wright Environmental, Inc. 3240 Schoolhouse Road Middletown, PA 17057	P958971
Project Location	**Client Project No.**	
LANDFILL B	REWEI Proj # 95287	
Contact	**Sampler (Signature)**	**P.O. No.**
Larry J. DeFluri	Lee Q. Thomas	

ANALYSES: T-014

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE-35 Days (5 weeks)	10/12/95	1045	9505382	Soil Gas	X	Std. Time	196

NOTES:

① Original lab report to be Sent to Mr. Larry DeFluri, Middletown, PA

② Copy of lab report to be Sent to Ms Carol Dickerson, Wilmington, DE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee Q. Thomas	10/12/95	1130	[illegible]	10/13/95	9:00 A.M.
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

NOV 6 C 1995

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	11/01/95
Address:	3240 Schoolhouse Road	Date Received:	10/20/95
	Middletown, PA 17057	PAI Project No:	P95-9003
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-42 Days (6 Weeks)"

The sample was received at the laboratory under chain of custody on October 20, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Christopher Casteel
Manager of Technical Operations

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/23/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RS

Date : 11/1/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 10/23/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SLG

Date : 11/1/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-42 Days (6 Weeks)
PAI Sample ID : 9505530

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/19/95
Date Received : 10/20/95
Date Analyzed : 10/23/95
Volume(s) Analyzed : 0.005 Liter(s)
0.001 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	200	ND	98
75-01-4	Vinyl Chloride	820	200	330	79
75-00-3	Chloroethane	ND	200	ND	76
74-83-9	Bromomethane	ND	200	ND	52
67-64-1	Acetone	130 TR	200	54 TR	84
75-69-4	Trichlorofluoromethane	ND	200	ND	36
75-35-4	1,1-Dichloroethene	170 TR	200	44 TR	51
75-09-2	Methylene chloride	160 TR	200	47 TR	58
75-15-0	Carbon Disulfide	2,900	200	920	64
76-13-1	Trichlorotrifluoroethane	ND	200	ND	26
156-60-5	trans-1,2-Dichloroethene	290	200	74	51
156-59-2	cis-1,2-Dichloroethene	9,800	200	2,500	51
75-34-3	1,1-Dichloroethane	550	200	140	50
1634-04-4	Methyl tert-Butyl Ether	ND	200	ND	56
108-05-4	Vinyl Acetate	ND	200	ND	57
78-93-3	2-Butanone	ND	200	ND	68
67-66-3	Chloroform	1,500	200	310	41
107-06-2	1,2-Dichloroethane	ND	200	ND	50
71-55-6	1,1,1-Trichloroethane	260	200	49	37
71-43-2	Benzene	120 TR	200	37 TR	63
56-23-5	Carbon Tetrachloride	3,500	200	570	32
78-87-5	1,2-Dichloropropane	ND	200	ND	44

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : JG

Date : 11/1/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-42 Days (6 Weeks)
PAI Sample ID : 9505530

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/19/95
Date Received : 10/20/95
Date Analyzed : 10/23/95
Volume(s) Analyzed : 0.005 Liter(s)
0.001 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	200	ND	30
79-01-6	Trichloroethene	4,800	200	900	38
10061-01-5	cis-1,3-Dichloropropene	ND	200	ND	44
108-10-1	4-Methyl-2-pentanone	ND	200	ND	49
10061-02-6	trans-1,3-Dichloropropene	ND	200	ND	44
79-00-5	1,1,2-Trichloroethane	ND	200	ND	37
108-88-3	Toluene	ND	200	ND	53
124-48-1	Dibromochloromethane	ND	200	ND	24
591-78-6	2-Hexanone	ND	200	ND	49
106-93-4	1,2-Dibromoethane	ND	200	ND	26
127-18-4	Tetrachloroethene	42,000	200	6,200	30
108-90-7	Chlorobenzene	ND	200	ND	44
100-41-4	Ethylbenzene	360	200	82	46
75-25-2	Bromoform	ND	200	ND	20
100-42-5	Styrene	ND	200	ND	47
1330-20-7	m,p-Xylenes	590	200	140	46
95-47-6	o-Xylene	190 TR	200	44 TR	46
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	ND	29
541-73-1	1,3-Dichlorobenzene	ND	200	ND	34
106-46-7	1,4-Dichlorobenzene	ND	200	ND	34
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SG

Date : 11/1/95

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Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
SMC - NIAGARA FALLS	(717) 944-5501 R.E. Wright Environmental, Inc 3240 Schoolhouse Road Middletown, PA 17057		P959003
Project Location: LANDFILL B	Client Project No.: REWEI PROJ # 95287		
Contact: Larry J. DeFluri	Sampler (Signature): Lee Q. Thomas	P.O. No.	

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE-42 DAYS (6 WEEKS)	10/19/95	1045	9505530	Soil Gas	X	Std. Time	63

Notes:
① Original lab report to be sent to Mr. Larry DeFluri, Middletown, PA
② Copy of lab report to be sent to Ms. Carol Dickerson, Wilmington, DE.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee Q. Thomas	10/19/95	1115	Robert DeFlo	10/20/95	9:00 A.M
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

NOV 1 8 1995

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	11/09/95
Address:	3240 Schoolhouse Road	Date Received:	10/27/95
	Middletown, PA 17057	PAI Project No:	P95-9039
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-49 Days (7 Weeks)"

The sample was received at the laboratory under chain of custody on October 27, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Christopher Casteel
Manager of Technical Operations

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/2/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 11/7/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/2/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 11/7/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-49 Days (7 Weeks)
PAI Sample ID : 9505635

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/26/95
Date Received : 10/27/95
Date Analyzed : 11/2/95
Volume(s) Analyzed : 0.0050 Liter(s)
0.0025 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	200	ND	98
75-01-4	Vinyl Chloride	590	200	230	79
75-00-3	Chloroethane	ND	200	ND	76
74-83-9	Bromomethane	ND	200	ND	52
67-64-1	Acetone	ND	200	ND	84
75-69-4	Trichlorofluoromethane	ND	200	ND	36
75-35-4	1,1-Dichloroethene	ND	200	ND	51
75-09-2	Methylene chloride	ND	200	ND	58
75-15-0	Carbon Disulfide	2,600	200	850	64
76-13-1	Trichlorotrifluoroethane	ND	200	ND	26
156-60-5	trans-1,2-Dichloroethene	240	200	62	51
156-59-2	cis-1,2-Dichloroethene	9,600	200	2,400	51
75-34-3	1,1-Dichloroethane	520	200	130	50
1634-04-4	Methyl tert-Butyl Ether	ND	200	ND	56
108-05-4	Vinyl Acetate	ND	200	ND	57
78-93-3	2-Butanone	ND	200	ND	68
67-66-3	Chloroform	1,400	200	290	41
107-06-2	1,2-Dichloroethane	ND	200	ND	50
71-55-6	1,1,1-Trichloroethane	290	200	53	37
71-43-2	Benzene	550	200	170	63
56-23-5	Carbon Tetrachloride	3,600	200	580	32
78-87-5	1,2-Dichloropropane	ND	200	ND	44

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 11/7/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-49 Days (7 Weeks)
PAI Sample ID : 9505635

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 10/26/95
Date Received : 10/27/95
Date Analyzed : 11/2/95
Volume(s) Analyzed : 0.0050 Liter(s)
0.0025 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	200	ND	30
79-01-6	Trichloroethene	4,500	200	850	38
10061-01-5	cis-1,3-Dichloropropene	ND	200	ND	44
108-10-1	4-Methyl-2-pentanone	ND	200	ND	49
10061-02-6	trans-1,3-Dichloropropene	ND	200	ND	44
79-00-5	1,1,2-Trichloroethane	ND	200	ND	37
108-88-3	Toluene	150 TR	200	39 TR	53
124-48-1	Dibromochloromethane	ND	200	ND	24
591-78-6	2-Hexanone	ND	200	ND	49
106-93-4	1,2-Dibromoethane	ND	200	ND	26
127-18-4	Tetrachloroethene	41,000	200	6,100	30
108-90-7	Chlorobenzene	ND	200	ND	44
100-41-4	Ethylbenzene	340	200	78	46
75-25-2	Bromoform	ND	200	ND	20
100-42-5	Styrene	ND	200	ND	47
1330-20-7	m,p-Xylenes	600	200	140	46
95-47-6	o-Xylene	180 TR	200	42 TR	46
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	ND	29
541-73-1	1,3-Dichlorobenzene	ND	200	ND	34
106-46-7	1,4-Dichlorobenzene	ND	200	ND	34
95-50-1	1,2-Dichlorobenzene	ND	200	ND	34

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 11/7/95

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Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
SMC- NIAGARA FALLS	(717) 944-5501 R.E. Wright Environmental, Inc 3240 Schoolhouse Road Middletown, PA 17057		P959039
Project Location: LANDFILL B	Client Project No.: REWEL PROJ. # 95287		
Contact: Larry J. DeFluri	Sampler (Signature): Lee A. Thomas	P.O. No.	

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE - 49 Days (7 weeks)	10/26/95	1205	950636-35	Soil Gas		Std. Time	16

Notes:
(1) Original lab report to be Sent to Mr. Larry DeFluri, Middletown, PA.
(2) Copy of lab report to be Sent to Ms. Carol Dickerson, Wilmington, DE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee A. Thomas	10/26/95	1230	Kathleen D Lo	10/27/95	9:00 AM
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Disposal Method					
Disposed by: (Signature)	Date	Time			

White Copy : Accompanies Samples
Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	11/21/95
Address:	3240 Schoolhouse Road	Date Received:	11/03/95
	Middletown, PA 17057	PAI Project No:	P95-9063
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-56 Days (8 Weeks)"

The sample was received at the laboratory under chain of custody on November 3, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Christopher Casteel
Manager of Technical Operations

Reviewed and Approved:

Michael Tuday
Laboratory Director

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/17/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SLE

Date : 11/21/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/17/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SK

Date : 11/21/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-56 Days (8 Weeks)
PAI Sample ID : 9505711

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/2/95
Date Received : 11/3/95
Date Analyzed : 11/17/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.0
Pf 1 = 2.5
D.F. = 1.17

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	760	500	300	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	400 TR	500	120 TR	150
75-15-0	Carbon Disulfide	2,700	500	870	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
156-59-2	cis-1,2-Dichloroethene	10,000	500	2,600	130
75-34-3	1,1-Dichloroethane	650	500	160	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	1,300	500	270	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	280 TR	500	52 TR	93
71-43-2	Benzene	520	500	160	160
56-23-5	Carbon Tetrachloride	4,000	500	640	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 11/20/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-56 Days (8 Weeks)
PAI Sample ID : 9505711

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/2/95
Date Received : 11/3/95
Date Analyzed : 11/17/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.0
Pf 1 = 2.5

D.F. = 1.17

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	6,200	500	1,200	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	3,100	500	820	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	44,000	500	6,600	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	1,400	500	320	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	1,100	500	250	120
95-47-6	o-Xylene	360 TR	500	84 TR	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SS

Date : 11/21/95

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Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	11/16/95
Address:	3240 Schoolhouse Road	Date Received:	11/10/95
	Middletown, PA 17057	PAI Project No:	P95-9090
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-63 Days (9 Weeks)"

The sample was received at the laboratory under chain of custody on November 10, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Christopher Casteel
Manager of Technical Operations

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/13/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 11/15/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/13/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 11/15/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-63 Days (9 Weeks)
PAI Sample ID : 9505819

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/9/95
Date Received : 11/10/95
Date Analyzed : 11/13/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.9
Pf 1 = 3.0

D.F. = 1.13

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	680	500	270	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	280 TR	500	83 TR	150
75-15-0	Carbon Disulfide	2,300	500	730	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
156-59-2	cis-1,2-Dichloroethene	9,200	500	2,400	130
75-34-3	1,1-Dichloroethane	510	500	130	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	1,400	500	300	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	310 TR	500	57 TR	93
71-43-2	Benzene	780	500	240	160
56-23-5	Carbon Tetrachloride	3,900	500	630	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 11/15/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-63 Days (9 Weeks)
PAI Sample ID : 9505819

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/9/95
Date Received : 11/10/95
Date Analyzed : 11/13/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.9
Pf 1 = 3.0

D.F. = 1.13

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	4,800	500	910	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	40,000	500	6,000	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	330 TR	500	77 TR	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	580	500	130	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 11/15/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-63 Days (9 Weeks)
PAI Sample ID : 9505819 Dup

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/9/95
Date Received : 11/10/95
Date Analyzed : 11/13/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.9
Pf 1 = 3.0

D.F. = 1.13

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	670	500	260	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	300 TR	500	86 TR	150
75-15-0	Carbon Disulfide	2,200	500	710	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
156-59-2	cis-1,2-Dichloroethene	9,000	500	2,300	130
75-34-3	1,1-Dichloroethane	460 TR	500	110 TR	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	1,500	500	310	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	290 TR	500	54 TR	93
71-43-2	Benzene	740	500	230	160
56-23-5	Carbon Tetrachloride	4,000	500	640	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 11/15/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-63 Days (9 Weeks)
PAI Sample ID : 9505819 Dup

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/9/95
Date Received : 11/10/95
Date Analyzed : 11/13/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.9
Pf 1 = 3.0

D.F. = 1.13

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	4,700	500	880	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	39,000	500	5,800	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	300 TR	500	69 TR	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	600	500	140	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 11/15/95

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Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	11/30/95
Address:	3240 Schoolhouse Road	Date Received:	11/28/95
	Middletown, PA 17057	PAI Project No:	P95-9164
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE-Restart (11/27/95)"

The sample was received at the laboratory under chain of custody on November 28, 1995. The sample was received intact. The client requested and received 24 hour rush results. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Christopher Casteel
Manager of Technical Operations

Reviewed and Approved:

Michael Tuday
Laboratory Director

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/29/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : (86)

Date : 11/29/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 11/29/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SC

Date : 11/29/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-Restart (11/27/95)
PAI Sample ID : 9506040

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/27/95
Date Received : 11/28/95
Date Analyzed : 11/29/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.6

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	1,300	500	500	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	430 TR	500	120 TR	150
75-15-0	Carbon Disulfide	1,000	500	330	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	350 TR	500	89 TR	130
156-59-2	cis-1,2-Dichloroethene	13,000	500	3,400	130
75-34-3	1,1-Dichloroethane	690	500	170	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	2,100	500	430	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	5,800	500	930	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 11/29/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-Restart (11/27/95)
PAI Sample ID : 9506040

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/27/95
Date Received : 11/28/95
Date Analyzed : 11/29/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.6

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	5,600	500	1,000	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	52,000	500	7,800	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	550	500	130	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	910	500	210	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : SS

Date : 11/29/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-Restart (11/27/95)
PAI Sample ID : 9506040 Dup

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/27/95
Date Received : 11/28/95
Date Analyzed : 11/29/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.6
D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	1,200	500	490	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	420 TR	500	120 TR	150
75-15-0	Carbon Disulfide	950	500	310	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	370 TR	500	95 TR	130
156-59-2	cis-1,2-Dichloroethene	13,000	500	3,300	130
75-34-3	1,1-Dichloroethane	680	500	170	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	2,100	500	440	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	5,500	500	880	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 11/30/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **SVE-Restart (11/27/95)**
PAI Sample ID : **9506040 Dup**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 11/27/95
Date Received : 11/28/95
Date Analyzed : 11/29/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = -0.1
Pf 1 = 2.6

D.F. = 1.18

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	5,200	500	970	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	52,000	500	7,700	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	610	500	140	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	950	500	220	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : _____

Date : 11/30/95

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Performance Analytical Inc.
Environmental Testing and Consulting

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	PAI Project No.
SMC - NIAGARA FALLS	(717) 944-5501	P 95 9164
Project Location	**Client Project No.**	
LANDFILL B	REWEI PROJ. # 95287	
Contact	**Sampler (Signature)**	**P.O. No.**
Larry J. DeFluri	Lee A. Thomas	

ANALYSES: T-014

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE - RESTART (11/27/95)	11/27/95	1600	9506040	Soil Gas	X	24 Hrs. Rapid Turnaround (as per Conversation with M. Tuday & L. Thomas on 11/27/95)	51

NOTES:
(1) Test results to be faxed to Larry DeFluri at Construction Site, Lewiston, NY (716) 285-4269
(2) Original lab report to be Sent to Larry DeFluri at Middletown, PA
(3) Copy of lab report to be Sent to Ms Carol Dickerson, Wilmington, DE.
(4) Canister's bottom ring welds were broken when received.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lee A. Thomas	11/27/95	1630	[signature]	11/28/95	9:00 AM
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	12/08/95
Address:	3240 Schoolhouse Road	Date Received:	12/04/95
	Middletown, PA 17057	PAI Project No:	P95-9193
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE - 12 Weeks"

The sample was received at the laboratory under chain of custody on December 4, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5989 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Christopher Casteel
Manager of Technical Operations

Reviewed and Approved:

Michael Tuday
Laboratory Director

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 12/4/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	1.0	ND	0.49
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
75-00-3	Chloroethane	ND	1.0	ND	0.38
74-83-9	Bromomethane	ND	1.0	ND	0.26
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene chloride	ND	1.0	ND	0.29
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
67-66-3	Chloroform	ND	1.0	ND	0.21
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.19
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 12/8/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 12/4/95
Volume(s) Analyzed : 1.000 Liter(s)

Pi 1 = 0.0
Pf 1 = 0.0

D.F. = 1.00

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.19
108-88-3	Toluene	ND	1.0	ND	0.27
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
591-78-6	2-Hexanone	ND	1.0	ND	0.24
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.24
1330-20-7	m,p-Xylenes	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 12/8/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **SVE-12 Weeks**
PAI Sample ID : **9506143**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 12/1/95
Date Received : 12/4/95
Date Analyzed : 12/5/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	510	500	200	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	ND	500	ND	150
75-15-0	Carbon Disulfide	870	500	280	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
156-59-2	cis-1,2-Dichloroethene	7,300	500	1,900	130
75-34-3	1,1-Dichloroethane	460 TR	500	120 TR	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	1,400	500	290	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	2,800	500	450	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 12/8/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **SVE-12 Weeks**
PAI Sample ID : **9506143**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 12/1/95
Date Received : 12/4/95
Date Analyzed : 12/5/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	3,000	500	570	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	30,000	500	4,500	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	ND	500	ND	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	360 TR	500	83 TR	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RC

Date : 12/8/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R. E. Wright Environmental, Inc.**

Client Sample ID : **SVE-12 Weeks**
PAI Sample ID : **9506143 Dup**

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 12/1/95
Date Received : 12/4/95
Date Analyzed : 12/5/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	470 TR	500	190 TR	200
75-00-3	Chloroethane	ND	500	ND	190
74-83-9	Bromomethane	ND	500	ND	130
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	90
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene chloride	ND	500	ND	150
75-15-0	Carbon Disulfide	850	500	270	160
76-13-1	Trichlorotrifluoroethane	ND	500	ND	66
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
156-59-2	cis-1,2-Dichloroethene	7,100	500	1,800	130
75-34-3	1,1-Dichloroethane	510	500	130	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
67-66-3	Chloroform	1,300	500	270	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	93
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	2,800	500	450	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 12/8/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R. E. Wright Environmental, Inc.

Client Sample ID : SVE-12 Weeks
PAI Sample ID : 9506143 Dup

Test Code : GC/MS EPA TO-14
Analyst : Chris Casteel
Instrument : HP 5989A/Entech 7000
Matrix : Summa Canister

Date Sampled : 12/1/95
Date Received : 12/4/95
Date Analyzed : 12/5/95
Volume(s) Analyzed : 0.002 Liter(s)

Pi 1 = 0.2
Pf 1 = 3.0

D.F. = 1.19

CAS #	COMPOUND	RESULT (UG/M3)	REPORTING LIMIT (UG/M3)	RESULT (PPB)	REPORTING LIMIT (PPB)
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	2,900	500	550	94
10061-01-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	93
108-88-3	Toluene	ND	500	ND	130
124-48-1	Dibromochloromethane	ND	500	ND	59
591-78-6	2-Hexanone	ND	500	ND	120
106-93-4	1,2-Dibromoethane	ND	500	ND	66
127-18-4	Tetrachloroethene	28,000	500	4,200	75
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	ND	500	ND	120
75-25-2	Bromoform	ND	500	ND	49
100-42-5	Styrene	ND	500	ND	120
1330-20-7	m,p-Xylenes	380 TR	500	87 TR	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	74
541-73-1	1,3-Dichlorobenzene	ND	500	ND	84
106-46-7	1,4-Dichlorobenzene	ND	500	ND	84
95-50-1	1,2-Dichlorobenzene	ND	500	ND	84

TR = Detected Below Indicated Reporting Limit
ND = Not Detected

Verified by : RG

Date : 12/8/95

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
S.M.C. - NIAGARA FALLS	3240 Schoolhouse Rd. Middletown PA. 17057		P9591193
Project Location	**Client Project No.**		
LANDFILL B	95287		
Contact	**Sampler (Signature)**	**P.O. No.**	
LARRY J. DeFLORIS			

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014	Expected Turnaround Time	Remarks
SVE - 12 WEEKS	12/01/95	12:50	9506143	SOILGAS		1 WEEK	

NOTES:
PLEASE FAX Results to R.E. WRIGHT ATTN: LARRY DeFLORIS - Middletown, PA.

	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
		12/01			12/4/95	9:00 A.M.
	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	Disposal Method					
	Disposed by: (Signature)	Date	Time			

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	12/19/95
Address:	3240 Schoolhouse Road	Date Received:	12/11/95
	Middletown, PA 17057	PAI Project No:	P95-9235
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE - 13 Weeks"

The sample was received at the laboratory under chain of custody on December 11, 1995. The sample was received intact. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5972 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R.E. Wright Environmental, Inc.**

Client Sample ID : **N/A**
PAI Sample ID : **PAI Method Blank**

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 12/18/95
Volume(s) Analyzed : 1.000 (liters)

Pi 1 = N/A
Pf 1 = N/A

D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	1.0	ND	0.48
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
74-83-9	Bromomethane	ND	1.0	ND	0.26
75-00-3	Chloroethane	ND	1.0	ND	0.38
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene Chloride	ND	1.0	ND	0.29
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
67-66-3	Chloroform	ND	1.0	ND	0.20
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

ND = Not Detected **TR = Below Indicated Reporting Limit**

Verified By: RG **Date:** 12/19/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 12/18/95
Volume(s) Analyzed : 1.000 (liters)

Pi 1 = N/A
Pf 1 = N/A
D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-02-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-Pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18
108-88-3	Toluene	ND	1.0	ND	0.27
591-78-6	2-Hexanone	ND	1.0	ND	0.24
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
1330-20-7	m- & p-Xylene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

ND = Not Detected **TR = Below Indicated Reporting Limit**

Verified By: RG **Date:** 12/19/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE-13 Weeks
PAI Sample ID : 9506349

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : 12/8/95
Date Received : 12/11/95
Date Analyzed : 12/18/95
Volume(s) Analyzed : 0.002 (liters)

Pi 1 = 0.7
Pf 1 = 3.0

D.F. = 1.15

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	430 TR	500	170 TR	200
74-83-9	Bromomethane	ND	500	ND	130
75-00-3	Chloroethane	ND	500	ND	190
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	89
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene Chloride	ND	500	ND	140
76-13-1	Trichlorotrifluoroethane	ND	500	ND	65
75-15-0	Carbon Disulfide	890	500	290	160
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
75-34-3	1,1-Dichloroethane	260 TR	500	65 TR	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
156-59-2	cis-1,2-Dichloroethene	5,300	500	1,300	130
67-66-3	Chloroform	840	500	170	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	92
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	1,600	500	250	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

ND = Not Detected

TR = Below Indicated Reporting Limit

Verified By: RG **Date:** 12/19/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE-13 Weeks
PAI Sample ID : 9506349

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : 12/8/95
Date Received : 12/11/95
Date Analyzed : 12/18/95
Volume(s) Analyzed : 0.002 (liters)

Pi 1 = 0.7
Pf 1 = 3.0
D.F. = 1.15

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	2,000	500	380	93
10061-02-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-Pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	92
108-88-3	Toluene	ND	500	ND	130
591-78-6	2-Hexanone	ND	500	ND	120
124-48-1	Dibromochloromethane	ND	500	ND	59
106-93-4	1,2-Dibromoethane	ND	500	ND	65
127-18-4	Tetrachloroethene	24,000	500	3,500	74
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	ND	500	ND	120
1330-20-7	m- & p-Xylene	400 TR	500	92 TR	120
75-25-2	Bromoform	ND	500	ND	48
100-42-5	Styrene	ND	500	ND	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	73
541-73-1	1,3-Dichlorobenzene	ND	500	ND	83
106-46-7	1,4-Dichlorobenzene	ND	500	ND	83
95-50-1	1,2-Dichlorobenzene	ND	500	ND	83

ND = Not Detected **TR = Below Indicated Reporting Limit**

Verified By: RG **Date:** 12/19/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : **R.E. Wright Environmental, Inc.**

Client Sample ID : **SVE-13 Weeks**
PAI Sample ID : **9506349 (Laboratory Duplicate)**

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : 12/8/95
Date Received : 12/11/95
Date Analyzed : 12/18/95
Volume(s) Analyzed : 0.002 (liters)

Pi 1 = 0.7
Pf 1 = 3.0

D.F. = 1.15

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	410 TR	500	160 TR	200
74-83-9	Bromomethane	ND	500	ND	130
75-00-3	Chloroethane	ND	500	ND	190
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	89
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene Chloride	ND	500	ND	140
76-13-1	Trichlorotrifluoroethane	ND	500	ND	65
75-15-0	Carbon Disulfide	1,000	500	320	160
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
75-34-3	1,1-Dichloroethane	240 TR	500	60 TR	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
156-59-2	cis-1,2-Dichloroethene	4,400	500	1,100	130
67-66-3	Chloroform	780	500	160	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	92
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	1,400	500	230	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

ND = Not Detected

TR = Below Indicated Reporting Limit

Verified By: RG **Date:** 12/19/95

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Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE-13 Weeks
PAI Sample ID : 9506349 (Laboratory Duplicate)

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : 12/8/95
Date Received : 12/11/95
Date Analyzed : 12/18/95
Volume(s) Analyzed : 0.002 (liters)

Pi 1 = 0.7
Pf 1 = 3.0

D.F. = 1.15

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	1,900	500	350	93
10061-02-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-Pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	92
108-88-3	Toluene	ND	500	ND	130
591-78-6	2-Hexanone	ND	500	ND	120
124-48-1	Dibromochloromethane	ND	500	ND	59
106-93-4	1,2-Dibromoethane	ND	500	ND	65
127-18-4	Tetrachloroethene	21,000	500	3,100	74
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	ND	500	ND	120
1330-20-7	m- & p-Xylene	340 TR	500	78 TR	120
75-25-2	Bromoform	ND	500	ND	48
100-42-5	Styrene	ND	500	ND	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	73
541-73-1	1,3-Dichlorobenzene	ND	500	ND	83
106-46-7	1,4-Dichlorobenzene	ND	500	ND	83
95-50-1	1,2-Dichlorobenzene	ND	500	ND	83

ND = Not Detected

TR = Below Indicated Reporting Limit

Verified By: RG **Date:** 12/19/95

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Environmental Testing and Consulting

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Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name	Address/Phone	ANALYSES	PAI Project No.
SMC - NIAGARA FALLS	717-944-5501 R.E WRIGHT Environmental 3240 Schoolhouse Rd Middletown PA 17057		P959235
Project Location	**Client Project No.**		
Landfill B SVE System	REWAI Proj #95287		
Contact	**Sampler (Signature)**	**P.O. No.**	
Larry J. DeFluri	Scott R. [illegible]		

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	1-014	Expected Turnaround Time	Remarks
SVE - 13weeks	12-8-95	0930	7506349	Soil GAS	1	7day Turnaround	33

Notes

① Original Lab report to be sent To MR. Larry DeFluri Middletown, PA

② Copy of Lab Report to be sent To MS. Carol Dickerson Wilmington, DE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Scott R. [illegible]	12-8-95	10:00	[illegible]	12/11/95	9:00 A.M.
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Disposal Method

Disposed by: (Signature) | Date | Time

White Copy : Accompanies Samples

Yellow Copy : Sampler

Performance Analytical Inc.
Air Quality Laboratory

LABORATORY REPORT

Client:	R.E. WRIGHT ENVIRONMENTAL, INC.	Date of Report:	12/19/95
Address:	3240 Schoolhouse Road	Date Received:	12/19/95
	Middletown, PA 17057	PAI Project No:	P95-9284
Contact:	Mr. Larry DeFluri	Purchase Order:	Verbal

Client Project ID: Landfill B #95287

One (1) Stainless Steel Summa Canister labeled: "SVE

The sample was received at the laboratory under chain of custody on December 19, 1995. The sample was received intact. The client requested and received 24 hour rush results. The dates of analyses are indicated on the attached data sheets.

Volatile Organic Compound Analysis

The sample was analyzed for Volatile Organic Compounds by gas chromatography/mass spectrometry (GC/MS). The analyses were performed according to the methodology outlined in EPA Method TO-14 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, EPA 600/4-84-041, U.S. Environmental Protection Agency, Research Triangle Park, NC, April, 1984 and May, 1988. The analyses were performed by gas chromatography/mass spectrometry utilizing thermal desorption/cryogenic concentration. The instrumentation used for sample analysis was comprised of a Hewlett Packard Model 5972 GC/MS/DS interfaced to an Entech 7000 automated whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets.

Data Release Authorization:

Chris Parnell
Senior Chemist

Reviewed and Approved:

Michael Tuday
Laboratory Director

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 12/18/95
Volume(s) Analyzed : 1.000 (liters)

Pi 1 = N/A
Pf 1 = N/A
D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	1.0	ND	0.48
75-01-4	Vinyl Chloride	ND	1.0	ND	0.39
74-83-9	Bromomethane	ND	1.0	ND	0.26
75-00-3	Chloroethane	ND	1.0	ND	0.38
67-64-1	Acetone	ND	1.0	ND	0.42
75-69-4	Trichlorofluoromethane	ND	1.0	ND	0.18
75-35-4	1,1-Dichloroethene	ND	1.0	ND	0.25
75-09-2	Methylene Chloride	ND	1.0	ND	0.29
76-13-1	Trichlorotrifluoroethane	ND	1.0	ND	0.13
75-15-0	Carbon Disulfide	ND	1.0	ND	0.32
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ND	0.25
75-34-3	1,1-Dichloroethane	ND	1.0	ND	0.25
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	ND	0.28
108-05-4	Vinyl Acetate	ND	1.0	ND	0.28
78-93-3	2-Butanone	ND	1.0	ND	0.34
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ND	0.25
67-66-3	Chloroform	ND	1.0	ND	0.20
107-06-2	1,2-Dichloroethane	ND	1.0	ND	0.25
71-55-6	1,1,1-Trichloroethane	ND	1.0	ND	0.18
71-43-2	Benzene	ND	1.0	ND	0.31
56-23-5	Carbon Tetrachloride	ND	1.0	ND	0.16
78-87-5	1,2-Dichloropropane	ND	1.0	ND	0.22

ND = Not Detected **TR = Below Indicated Reporting Limit**

Verified By: RC **Date:** 12/19/95

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1139 • Fax 818 709-2915

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : N/A
PAI Sample ID : PAI Method Blank

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : N/A
Date Received : N/A
Date Analyzed : 12/18/95
Volume(s) Analyzed : 1.000 (liters)

Pi 1 = N/A
Pf 1 = N/A
D.F. = 1.00

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	1.0	ND	0.15
79-01-6	Trichloroethene	ND	1.0	ND	0.19
10061-02-5	cis-1,3-Dichloropropene	ND	1.0	ND	0.22
108-10-1	4-Methyl-2-Pentanone	ND	1.0	ND	0.24
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ND	0.22
79-00-5	1,1,2-Trichloroethane	ND	1.0	ND	0.18
108-88-3	Toluene	ND	1.0	ND	0.27
591-78-6	2-Hexanone	ND	1.0	ND	0.24
124-48-1	Dibromochloromethane	ND	1.0	ND	0.12
106-93-4	1,2-Dibromoethane	ND	1.0	ND	0.13
127-18-4	Tetrachloroethene	ND	1.0	ND	0.15
108-90-7	Chlorobenzene	ND	1.0	ND	0.22
100-41-4	Ethylbenzene	ND	1.0	ND	0.23
1330-20-7	m- & p-Xylene	ND	1.0	ND	0.23
75-25-2	Bromoform	ND	1.0	ND	0.10
100-42-5	Styrene	ND	1.0	ND	0.23
95-47-6	o-Xylene	ND	1.0	ND	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ND	0.15
541-73-1	1,3-Dichlorobenzene	ND	1.0	ND	0.17
106-46-7	1,4-Dichlorobenzene	ND	1.0	ND	0.17
95-50-1	1,2-Dichlorobenzene	ND	1.0	ND	0.17

ND = Not Detected **TR = Below Indicated Reporting Limit**

Verified By: RG **Date:** 12/19/95

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1139 • Fax 818 709-2915

Performance Analytical Inc.
Air Quality Laboratory

RE[illegible] 1225

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE
PAI Sample ID : 9506534

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : 12/18/95
Date Received : 12/19/95
Date Analyzed : 12/19/95
Volume(s) Analyzed : 0.002 (liters)
0.001 (liters)

Pi 1 = 0.4
Pf 1 = 2.2

D.F. = 1.12

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
74-87-3	Chloromethane	ND	500	ND	240
75-01-4	Vinyl Chloride	520	500	200	200
74-83-9	Bromomethane	ND	500	ND	130
75-00-3	Chloroethane	ND	500	ND	190
67-64-1	Acetone	ND	500	ND	210
75-69-4	Trichlorofluoromethane	ND	500	ND	89
75-35-4	1,1-Dichloroethene	ND	500	ND	130
75-09-2	Methylene Chloride	ND	500	ND	140
76-13-1	Trichlorotrifluoroethane	ND	500	ND	65
75-15-0	Carbon Disulfide	680	500	220	160
156-60-5	trans-1,2-Dichloroethene	ND	500	ND	130
75-34-3	1,1-Dichloroethane	320 TR	500	80 TR	120
1634-04-4	Methyl tert-Butyl Ether	ND	500	ND	140
108-05-4	Vinyl Acetate	ND	500	ND	140
78-93-3	2-Butanone	ND	500	ND	170
156-59-2	cis-1,2-Dichloroethene	7,100	500	1,800	130
67-66-3	Chloroform	1,000	500	210	100
107-06-2	1,2-Dichloroethane	ND	500	ND	120
71-55-6	1,1,1-Trichloroethane	ND	500	ND	92
71-43-2	Benzene	ND	500	ND	160
56-23-5	Carbon Tetrachloride	2,200	500	350	80
78-87-5	1,2-Dichloropropane	ND	500	ND	110

ND = Not Detected

TR = Below Indicated Reporting Limit

Verified By: RG **Date:** 12/19/95

Performance Analytical Inc.
Air Quality Laboratory

RESULTS OF ANALYSIS

Client : R.E. Wright Environmental, Inc.

Client Sample ID : SVE
PAI Sample ID : 9506534

Test Code : GC/MS EPA TO-14
Analyst : Chris Parnell
Instrument : Entech 7000/HP 5972 MSD
Matrix : Summa Canister

Date Sampled : 12/18/95
Date Received : 12/19/95
Date Analyzed : 12/19/95
Volume(s) Analyzed : 0.002 (liters)
0.001 (liters)

Pi 1 = 0.4
Pf 1 = 2.2
D.F. = 1.12

CAS #	COMPOUND	RESULT ug/m³	REPORTING LIMIT ug/m³	RESULT ppb	REPORTING LIMIT ppb
75-27-4	Bromodichloromethane	ND	500	ND	75
79-01-6	Trichloroethene	2,900	500	530	93
10061-02-5	cis-1,3-Dichloropropene	ND	500	ND	110
108-10-1	4-Methyl-2-Pentanone	ND	500	ND	120
10061-02-6	trans-1,3-Dichloropropene	ND	500	ND	110
79-00-5	1,1,2-Trichloroethane	ND	500	ND	92
108-88-3	Toluene	ND	500	ND	130
591-78-6	2-Hexanone	ND	500	ND	120
124-48-1	Dibromochloromethane	ND	500	ND	59
106-93-4	1,2-Dibromoethane	ND	500	ND	65
127-18-4	Tetrachloroethene	31,000	500	4,600	74
108-90-7	Chlorobenzene	ND	500	ND	110
100-41-4	Ethylbenzene	ND	500	ND	120
1330-20-7	m- & p-Xylene	510	500	120	120
75-25-2	Bromoform	ND	500	ND	48
100-42-5	Styrene	ND	500	ND	120
95-47-6	o-Xylene	ND	500	ND	120
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	ND	73
541-73-1	1,3-Dichlorobenzene	ND	500	ND	83
106-46-7	1,4-Dichlorobenzene	ND	500	ND	83
95-50-1	1,2-Dichlorobenzene	ND	500	ND	83

ND = Not Detected **TR = Below Indicated Reporting Limit**

Verified By: RG **Date:** 12/19/95

20954 Osborne Street, Canoga Park, CA 91304 • Phone 818 709-1339 • Fax 818 709-2915

Performance Analytical Inc.
Environmental Testing and Consulting

20954 Osborne Street
Canoga Park, California 91304
Phone 818 709-1139
Fax 818 709-2915

Chain of Custody Record
Analytical Services Request

Client/Project Name: SMC - NIAGARA FAllS	Address/Phone: 717-944-5501 R.E. WRIGHT 3240 School house Rd Middletown PA 17057
Project Location: LANdFill B	Client Project No.: REWAI Proj 95287
Contact: Larry DeFluri	Sampler (Signature): [signature]
P.O. No.:	PAI Project No.: P959284

ANALYSES: T-014

Sample Identification No.	Date	Time	Lab Sample No.	Type of Sample	T-014					Expected Turnaround Time	Remarks
SVE	12-18-95	1645	9506534	SOIL GAS						(24 hr Turnaround)	54

Notes
1. orginal lab report to be sent to Mr Larry Defluri Middletown
2. Copy of lab report to be sent to Ms Carol Dechusen - Wilmington

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12-18-95	17:00	[signature]	12/19/95	9:00 AM

Disposal Method:

Disposed by: (Signature) Date Time

White Copy : Accompanies Samples
Yellow Copy : Sampler

APPENDIX E

APPENDIX E

Post-Remediation Soil Boring Logs

SOIL BORING LOG

Client: Stauffer Mgt Co.

Project No. 95287 Phase Task

Boring No. AMBP-1 Piezometer No.

Location

Surface Elev. Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID (ppm)	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
								T.O.C. Elev.
	Ground Surface							
0			SILTY CLAY moderate brown trace sand, much roots/organic matter, slightly moist	5				
2	2-4-6-6		Same as above w/o organic matter trace gravel black, reddishish brown mottled concretions.	10.8				
4	6-7-6-7		SILTY CLAY dark yellowish brown w/ little carbon concretions. trace sand and gravel, dry.	14.7				
6	7-7-11-20		CLAY dusky brown, stiff varriable texture/concretions (reddish brown – light brown) trace carbon.	14.6				
8	16-17-18-18		CLAY pale brown w/ much silt. Stiff trace sand mottles of light olive gray clay	15.3				
10	10-10-11-16		CLAY moderate brown varriable texture w/ very pale orange, lt. brown concreations. some silt trace sand.	16.0				
12								

Driller SJB

Logged By BEW

Drilling Started

Drilling Completed

Well Construction NA

Well Developed NA

Water Bearing Zones NA

Blown/Balled Yield NA

Well Casing NA Dia. To

Casing Type NA

Well Screen NA Dia. To

Screen Type NA

Slot Size NA

Drilling Mud N/A NA

Grout Type NA

Bentonite Seal NA

Filter Pack Qty. NA

Filter Pack Type NA

Static Water Level NA MSL

Date

Notes:

SOIL BORING LOG

Client: Stauffer Mgt Co.

Project No. 95287 Phase Task

Boring No. EWBP-1 Piezometer No.

Location

Surface Elev.

Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID (ppm)	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
								T.O.C. Elev.
	Ground Surface							
0	6-5-8-8		SILTY CLAY light brown dry, trace sand, stiff, trace mottles (black, mod. brown)	11.6				
	10-10-16-12		Same as above	15.1				
3								
	4-6-11-10		CLAY moderate brown w/some silt, moist trace sand variable mottles (black, gray lt. brown)	16.2				
6	14-11-11-16		CLAY moderate brown with much sulfer and carbon (black) some sand and gravel, variable texture	17.1				
	8-9-6-5		Same as above	22.4				
9								
			VOID no return	-				
12	4-4-16-18		same as above w/less sulfer and carbon very moist	37				
	7-14-50/1		Same as above wet	73				
15								
18								

Driller STB

Logged By BEW

Drilling Started

Drilling Completed

Well Construction NA

Well Developed NA

Water Bearing Zones NA

Blown/Balled Yield NA

Well Casing NA Dia. To

Casing Type NA

Well Screen NA Dia. To

Screen Type NA

Slot Size NA

Drilling Mud N/A NA

Grout Type NA

Bentonite Seal NA

Filter Pack Qty. NA

Filter Pack Type NA

Static Water Level NA MSL

Date

Notes:

SOIL BORING LOG

Client: Stauter Mgt Co.

Project No. 95287 Phase Task

Boring No. PMBP-2 Piezometer No.

Location

Surface Elev.

Page of 1

Depth Feet	Blow Counts	Recovery/ RQD.	Overburden/Lithologic Description	PID (ppm)	Graphic Log	Well Construction Graphic	Depth Feet	Well Construction Details
								T.O.C. Elev.
	Ground Surface							
0	6-6-5-7		SILTY CLAY moderate brown, some carbon concretions	14.3				
2	5-6-8-6		Same as above with Pale orange and lt. brown variable concretions.	17.7				
4	5-5-7-12		SILTY CLAY moderate brown w/ some sulfer and carbon highly variable, moist	11.3				
6	11-9-7-9		Same as above w/much sulfer and carbon, moist	12.8				
8	4-4-4-3		Same as above	14.8				
10	4-4-4-4		Same as above	18.0				
12								

Driller STB

Logged By BEW

Drilling Started

Drilling Completed

Well Construction NA

Well Developed NA

Water Bearing Zones NA

Blown/Balled Yield NA

Well Casing NA Dia. To

Casing Type NA

Well Screen NA Dia. To

Screen Type NA

Slot Size NA

Drilling Mud N/A NA

Grout Type NA

Bentonite Seal NA

Filter Pack Qty. NA

Filter Pack Type NA

Static Water Level NA MSL

Date

Notes:

APPENDIX F

APPENDIX F

Post-Remediation Soil Sampling Laboratory Reports

R.E. WRIGHT CONSTRUCTION SITE

STAUFFER MANAGEMENT COMPANY

S. M. C. NIAGARA FALLS -95281

Prepared By:

ADVANCED ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

December 29, 1995
REF: GIZ541D

QA/QC VERIFICATION FOR PROJECT ID 541D

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherance to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.

Kellys-Ruppel

Organic Chemistry

W. Joseph McDougall

Quality Control

Frank J. Servant

Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted.
Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested

CLIENT: R.E. WRIGHT CONSTRUCTION SITE
SAMPLE ID: PMBP1-10-14
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/21/95 - 10:00
SAMPLE TYPE: SOIL

AES CLIENT ID: LARRY
AES SAMPLE ID: 541D-1

PROJECT ID: 541D

Analytical Parameters	Analytical Results	Units	Method Detection Limits	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	35	350 *	SW 846 8240
Carbon disulfide	ND	µg/kg	52.5	350	SW 846 8240
Carbon tetrachloride	ND	µg/kg	70	350	SW 846 8240
Chloroform	ND	µg/kg	35	350	SW 846 8240
Methylene chloride	ND	µg/kg	35	350	SW 846 8240
Tetrachloroethene	77 **	µg/kg	52.5	350	SW 846 8240
Toluene	ND	µg/kg	35	350	SW 846 8240
Trichloroethene	ND	µg/kg	52.5	350	SW 846 8240
Chlorobenzene	ND	µg/kg	1.5	10	SW 846 8240

* High limit due to sample matrix; dilution was required.
** Estimated result, above detection limit but not quantifiable.

CLIENT: R.E. WRIGHT CONSTRUCTION SITE
SAMPLE ID: EWBP1-12-15
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/21/95 - 10:45
SAMPLE TYPE: SOIL

AES CLIENT ID: LARRY
AES SAMPLE ID: 541D-2

PROJECT ID: 541D

Analytical Parameters	Analytical Results	Units	Method Detection Limits	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	300	3000 *	SW 846 8240
Carbon disulfide	ND	µg/kg	450	3000	SW 846 8240
Carbon tetrachloride	ND	µg/kg	600	3000	SW 846 8240
Chloroform	ND	µg/kg	300	3000	SW 846 8240
Methylene chloride	ND	µg/kg	300	3000	SW 846 8240
Tetrachloroethene	59000	µg/kg	450	3000	SW 846 8240
Toluene	ND	µg/kg	300	3000	SW 846 8240
Trichloroethene	1600 **	µg/kg	450	3000	SW 846 8240
Chlorobenzene	ND	µg/kg	450	3000	SW 846 8240

* High limit due to sample matrix; dilution was required.
** Estimated result, above detection limit but not quantifiable.

CLIENT: R.E. WRIGHT CONSTRUCTION SITE
SAMPLE ID: PMBP2-10-12
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/21/95 - 11:40
SAMPLE TYPE: SOIL

AES CLIENT ID: LARRY
AES SAMPLE ID: 541D-3

PROJECT ID: 541D

Analytical Parameters	Analytical Results	Units	Method Detection Limits	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	35	350 *	SW 846 8240
Carbon disulfide	180 **	µg/kg	52.5	350	SW 846 8240
Carbon tetrachloride	490	µg/kg	70	350	SW 846 8240
Chloroform	270 **	µg/kg	35	350	SW 846 8240
Methylene chloride	270 **	µg/kg	35	350	SW 846 8240
Tetrachloroethene	130 **	µg/kg	52.5	350	SW 846 8240
Toluene	ND	µg/kg	35	350	SW 846 8240
Trichloroethene	ND	µg/kg	52.5	350	SW 846 8240
Chlorobenzene	ND	µg/kg	1.5	10	SW 846 8240

* High limit due to sample matrix; dilution was required.
** Estimated result, above detection limit but not quantifiable.

CLIENT: R.E. WRIGHT CONSTRUCTION SITE AES CLIENT ID: LARRY
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE: PROJECT ID: 541D

Analytical Parameters	Analytical Results	Units	Method Detection Limits	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	1.0	10	SW 846 8240
Carbon disulfide	ND	µg/kg	1.5	10	SW 846 8240
Carbon tetrachloride	ND	µg/kg	2.0	10	SW 846 8240
Chloroform	ND	µg/kg	1.0	10	SW 846 8240
Methylene chloride	ND	µg/kg	1.0	10	SW 846 8240
Tetrachloroethene	ND	µg/kg	1.5	10	SW 846 8240
Toluene	ND	µg/kg	1.0	10	SW 846 8240
Trichloroethene	ND	µg/kg	1.5	10	SW 846 8240
Chlorobenzene	ND	µg/kg	1.5	10	SW 846 8240

CLIENT: R.E. WRIGHT CONSTRUCTION SITE

AES CLIENT ID: LARRY
PROJECT ID: 541D

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Benzene	SW 846 8240	---	Independent Standard	102
Toluene	SW 846 8240	---	Independent Standard	100
Trichloroethene	SW 846 8240	---	Independent Standard	88
Chlorobenzene	SW 846 8240	---	Independent Standard	88
1,1-Dichloroethene	SW 846 8240	---	Independent Standard	100

CLIENT: R.E. WRIGHT CONSTRUCTION SITE

AES CLIENT ID: LARRY
PROJECT ID: 541D

ACCURACY - SURROGATE RECOVERIES

Analytical Parameter(s)	Method	Sample ID	Acceptable Range	Percent Recovery
1,2-Dichloroethane-d4	SW 846 8240	541D-1	70-121	74
1,2-Dichloroethane-d4	SW 846 8240	541D-2	70-121	77
1,2-Dichloroethane-d4	SW 846 8240	541D-3	70-121	76
1,2-Dichloroethane-d4	SW 846 8240	BLANK	70-121	79
Toluene-d8	SW 846 8240	541D-1	81-117	101
Toluene-d8	SW 846 8240	541D-2	81-117	96
Toluene-d8	SW 846 8240	541D-3	81-117	98
Toluene-d8	SW 846 8240	BLANK	81-117	101
4-Bromofluorobenzene	SW 846 8240	541D-1	74-121	96
4-Bromofluorobenzene	SW 846 8240	541D-2	74-121	94
4-Bromofluorobenzene	SW 846 8240	541D-3	74-121	93
4-Bromofluorobenzene	SW 846 8240	BLANK	74-121	98

Advanced Environmental Services

Sample Traceability Report

AES Job Code 617

AES Job No. 541D

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
541D-1	12/21/95	4100	63	—	—	—	8240	12.29.95	MH
-2	12/21/95	〃	〃	—	—	—	〃	〃	〃
-3	12/21/95	〃	〃	—	—	—	〃	〃	〃

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

CHAIN OF CUSTODY RECORD

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304
(716) 283-3120
(800) 791-3120
FAX (716) 283-4727

PROJECT NAME: S.M.C. - Niagara Falls

PROJECT I.D. #: 95291

SAMPLER'S SIGNATURE: [signature]

JOB CODE: ~~FHE 26 5411~~ GJZ 5411D

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
12-21-95	10:00	PMBP1-10-14'	X		SOIL							X	1	~~TCL~~ TCL VOC's - 8240
12-21-95	10:45	EWBP1-12-15'	X		SOIL							X	1	PLEASE HAVE SAMPLES ANALYZED BY WEN - 12-27-95
12-21-95	11:40	PMBP2-10-12'	X		SOIL							X	1	

Fax 717-944-5201
~~Fax~~
Lucy

TOTAL NUMBER OF CONTAINERS

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: [signature]	12-21-95	12:55	[signature]
2. RELINQUISHED BY: [signature]	12/21/95	1750	Jeannie K Kennedy
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

R.E. WRIGHT CONSTRUCTION SITE

STAUFFER MANAGEMENT COMPANY

S. M. C. NIAGARA FALLS -95281

Prepared By:

ADVANCED ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

January 4, 1996
REF: GIZ6118

QA/QC VERIFICATION FOR PROJECT ID 6118

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherance to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.

Susan Sesocchi

Organic Chemistry

W. Joseph McDougall

Quality Control

Frank J. Serwono

Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted.
Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested

CLIENT: R.E. WRIGHT CONSTRUCTION SITE
SAMPLE ID: EWBP1-12-15
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/21/95 - 10:45
SAMPLE TYPE: SOIL

AES CLIENT ID: LARRY
AES SAMPLE ID: 6118-1

PROJECT ID: 6118

Analytical Parameters	Analytical Results	Units	Method Detection Limits	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	30 *	300 *	SW 846 8240
Carbon disulfide	70 **	µg/kg	45	300	SW 846 8240
Carbon tetrachloride	250 **	µg/kg	60	300	SW 846 8240
Chloroform	130 **	µg/kg	30	300	SW 846 8240
Methylene chloride	ND	µg/kg	30	300	SW 846 8240
Tetrachloroethene	3900	µg/kg	45	300	SW 846 8240
Toluene	ND	µg/kg	30	300	SW 846 8240
Trichloroethene	98 **	µg/kg	45	300	SW 846 8240
Chlorobenzene	220 **	µg/kg	45	300	SW 846 8240

* High limit due to sample matrix; dilution was required for all 8240 compounds.
** Estimated result, above detection limit but not quantifiable.

CLIENT: R.E. WRIGHT CONSTRUCTION SITE
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE:

AES CLIENT ID: LARRY

PROJECT ID: 6118

Analytical Parameters	Analytical Results	Units	Method Detection Limits	Practical Quantifiable Limit	Method
Benzene	ND	µg/kg	1.0	10	SW 846 8240
Carbon disulfide	ND	µg/kg	1.5	10	SW 846 8240
Carbon tetrachloride	ND	µg/kg	2.0	10	SW 846 8240
Chloroform	ND	µg/kg	1.0	10	SW 846 8240
Methylene chloride	ND	µg/kg	1.0	10	SW 846 8240
Tetrachloroethene	ND	µg/kg	1.5	10	SW 846 8240
Toluene	ND	µg/kg	1.0	10	SW 846 8240
Trichloroethene	ND	µg/kg	1.5	10	SW 846 8240
Chlorobenzene	ND	µg/L	1.5	10	SW 846 8240

CLIENT: R.E. WRIGHT CONSTRUCTION SITE

AES CLIENT ID: LARRY
PROJECT ID: 6118

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Benzene	SW 846 8240	---	Independent Standard	84
Toluene	SW 846 8240	---	Independent Standard	88
Trichloroethene	SW 846 8240	---	Independent Standard	86
Chlorobenzene	SW 846 8240	---	Independent Standard	90

CLIENT: R.E. WRIGHT CONSTRUCTION SITE

AES CLIENT ID: LARRY
PROJECT ID: 6118

ACCURACY - SURROGATE RECOVERIES

Analytical Parameter(s)	Method	Sample ID	Acceptable Range	Percent Recovery
1,2-Dichloroethane-d4	SW 846 8240	6118-1	70-121	99
1,2-Dichloroethane-d4	SW 846 8240	BLANK	70-121	99
Toluene-d8	SW 846 8240	6118-1	81-117	99
Toluene-d8	SW 846 8240	BLANK	81-117	103
4-Bromofluorobenzene	SW 846 8240	6118-1	74-121	99
4-Bromofluorobenzene	SW 846 8240	BLANK	74-121	100

Advanced Environmental Services

Sample Traceability Report

AES Job Code 612

AES Job No. 6118

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
6118-1	12-21-95	4100	1	—	—	—	8240	1-2-96	MM

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

CHAIN OF CUSTODY RECORD

GI2 6118

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304
(716) 283-3120
(800) 791-3120
FAX (716) 283-4727

PROJECT NAME: S.M.C. - Niagara Falls

PROJECT I.D. #: 95291

SAMPLER'S SIGNATURE: [signature]

JOB CODE: GI2 5411

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO3	H2SO4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
12-21-95	10:00	PMBP1-10-14'	X		SOIL							X	1	~~TCL/TAL~~ JSPL VOC's - 8240
12-21-95	10:45	EWBP1-12-15'	X		SOIL							X	1	
12-21-95	11:40	PMBP2-10-12'	X		SOIL							X	1	PLEASE HAVE SAMPLES ANALYZED BY WEN · 12-27-95

TOTAL NUMBER OF CONTAINERS

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

	DATE	TIME	
1. RELINQUISHED BY: [signature]	12-21-95	12:55	RECEIVED BY: [signature]
2. RELINQUISHED BY: [signature]	12/21/95	1750	RECEIVED BY: Jeannie K Kennedy
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY: