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ENGINEERING
INCORPORATED

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May 16, 1996

Mr. Ron Dilahunt
Wisconsin Department of Natural Resources
Southeast District Office
2300 North Dr. Martin Luther King, Jr. Drive
P.O. Box 12436
Milwaukee, WI 53212

Dear Mr. Dilahunt:

RE: Air Emissions Calculations for Soil and Groundwater Remediation Systems
Chrysler Corporation, Kenosha Main Plant
Triad Engineering Project No. W943324.16

This letter was prepared to summarize air emissions calculations for existing soil and groundwater treatment systems at the Chrysler Corporation (Chrysler) Main Plant property located in Kenosha, Wisconsin. Based on the calculated emission rates, the active remediation systems appear to be within the Wisconsin Department of Natural Resources' (WDNR's) air emissions requirements for the site. The following table summarizes air emission sources which include groundwater treatment (air stripper) and soil vapor extraction (SVE) systems, specific recovery locations for each system, general site locations, and the approximate starting date of each treatment system.

Kenosha Main Plant Soil and Groundwater Remediation Systems

Air Emission Source	Recovery Location(s)	General Site Location and Area	Starting Date
Air Stripper	Sump 4 & 5	North Area	4/94
Air Stripper	Sumps 6	North Area	4/94
Air Stripper	Sump 9	North Area	3/95
SVE System	Sump 9	North Area	3/95
Air Stripper	Sumps 7, 8, 14, & 15	Area 2 (South Area)	3/95
Air Stripper	Sumps 10, 11, 12, & 13	Area 3 (South Area)	3/95
SVE System (Main)	Sumps 11 & 12 SVE wells 1 through 6, 10, 11, & 13	Area 3 Remediation Building (South Area)	9/95
SVE System (Trailer)	Sump 10, SVE wells 7, 8, 9, & 12	Area 3 Remediation Trailer (South Area)	9/95

The locations listed above are presented on Figure 1.

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A summary of total estimated hourly volatile organic compound (VOC) and yearly benzene emission rates from the eight operating treatment systems is provided in Attachment 1. Attachment 2 contains the data used to estimate the emissions from the groundwater treatment systems. Attachment 3 summarizes the analytical data for air samples collected from the Sump 9 and Area 3 SVE systems exhaust. Attachment 4 includes air emissions calculations for the Sump 9 and Area 3 SVE systems. Laboratory documentation is provided in Attachment 5. Further detail is provided in the following sections.

EXISTING TREATMENT SYSTEMS

North Area.

Two groundwater treatment systems (two air strippers; one connected to Sumps 4 and 5 and one connected to Sump 6) are located in the North Area of the Chrysler Kenosha Main Plant site (Figure 1). Updated historical tables (Tables 1 and 2) showing emission calculations for the latest groundwater sampling event (March 1996) at these two systems are included in Attachment 2.

One additional North Area groundwater and soil treatment system consists of an air stripper and SVE unit connected to Sump 9. Air emissions from the Sump 9 air stripper and SVE unit were calculated using groundwater influent and effluent monitoring data and air sample analytical data. Table 3 (Attachment 2) shows the emission calculations for the air stripper. Attachments 3 and 4 show the analytical results for the air samples collected at the SVE exhaust and the corresponding calculations.

South Area.

Two treatment systems are located in the South Area of the Kenosha Main Plant site. The first treatment systems include the Area 3 air stripper connected to Sumps 10, 11, 12, and 13 and two SVE units. The SVE system consists of 16 extraction points, one skid-mounted (main) SVE unit, and one trailer-mounted (trailer) SVE unit (Figure 1). The SVE system started operation in September 1995. Air samples were collected during start-up at the following frequency: one sample per day for the first three days, one sample per week for the next 3 weeks, and one sample per month for three additional months. Air samples will continue to be collected on a monthly basis. Air emissions for the two Area 3 SVE units were calculated using air sample analytical data. Attachments 3 and 4 show the analytical results for the air sample collected at the SVE exhaust and the corresponding calculations.

The second treatment system is the Area 2 air stripper connected to Sumps 7, 8, 14, and 15. Air emissions for the Area 2 and Area 3 air strippers were calculated using groundwater influent and effluent monitoring data. Table 4 and Table 5 (Attachment 2) presents the emissions calculations for the two air strippers.

SUMMARY AND PERFORMANCE MONITORING SCHEDULE

Based on the calculated emission rates, the eight active treatment systems are within WDNR air emissions requirements for the site. Continued remedial system sampling will include collecting one monthly air sample from each SVE system discharge. The air samples will be analyzed for VOCs (601/602 compounds) using analytical method AM4.02. In addition, one influent water sample from each sump and one effluent water sample from each of the air stripper systems will be collected on a quarterly schedule. The water samples will by analyzed for VOCs (EPA Method 8021), gasoline range organics (GRO; WDNR Modified GRO Method), and diesel range organics (DRO; WDNR Modified DRO Method).

Any required system modifications or additional sampling will be completed, if necessary, based on future calculated emission rates. Air emission reports for the treatment systems will be submitted to the WDNR.

If you have any questions or need additional information, please do not hesitate to contact either of the undersigned at (414) 291-8840.

Sincerely,

TRIAD ENGINEERING INC.

Ross M. Creighton, PG
Project Manager/Hydrogeologist

TRIAD ENGINEERING INC.

Richard J. Binder, PG, CGWP
Senior Hydrogeologist

Attachments

c: Mr. Curtis Chapman/Chrysler Pollution Prevention and Remediation – Detroit
Mr. John Bugno/Chrysler Pollution Prevention and Remediation – Kenosha
Ms. Pam Mylotta/WDNR

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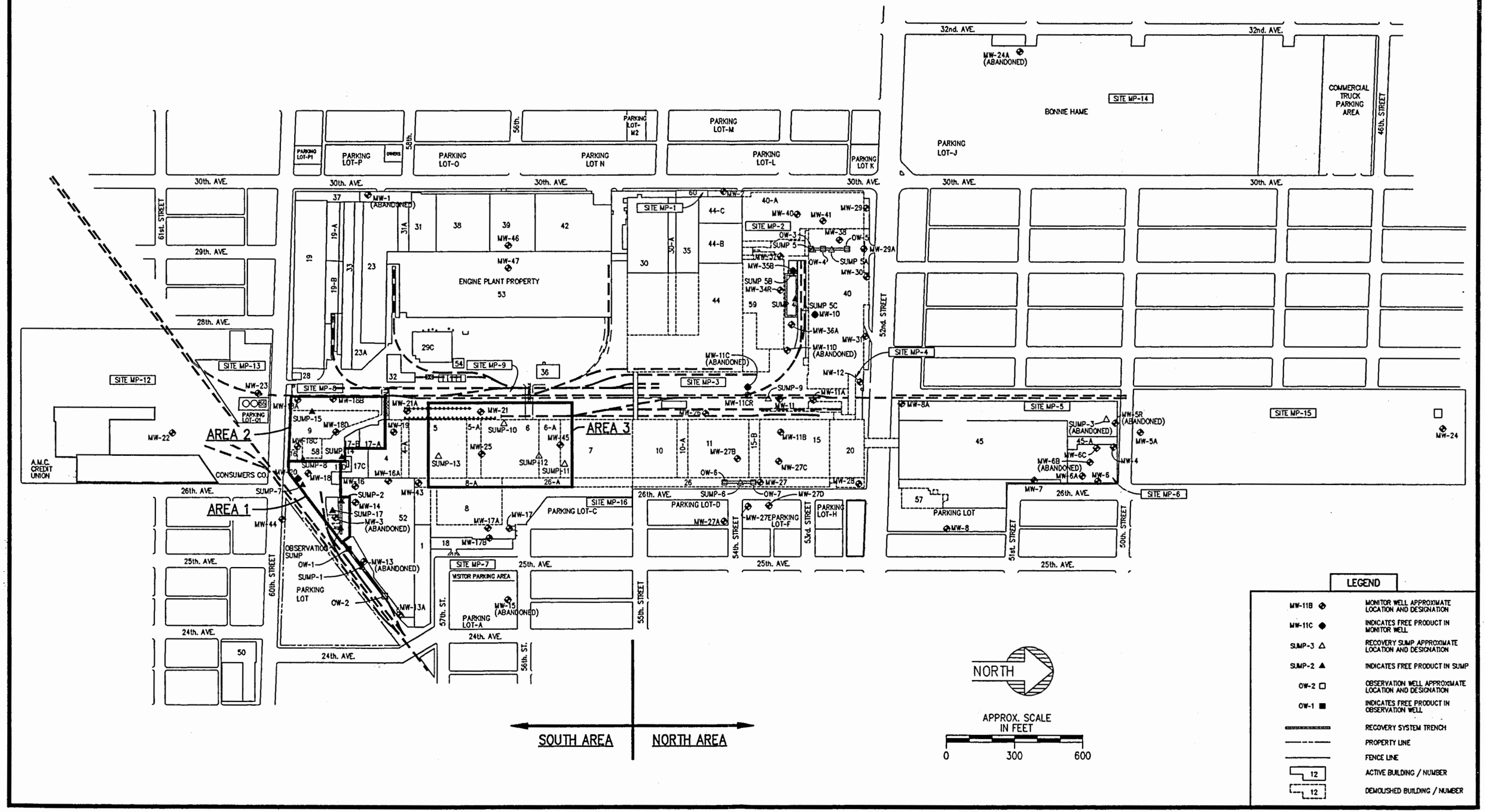

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FIGURE 1
CHRYSLER KENOSHA MAIN PLANT
FACILITY LAYOUT

ATTACHMENT 1

SUMMARY OF TOTAL ESTIMATED HOURLY VOC AND YEARLY BENZENE EMISSION RATES

ATTACHMENT 1
SUMMARY OF ESTIMATED AIR EMISSIONS
FOR CHRYSLER CORPORATION
KENOSHA MAIN PLANT

	VOC EMISSIONS lbs/hr	BENZENE EMISSIONS lbs/yr
	March 1996 Data	March 1996 Data
Sumps 4 & 5 Air Stripper	0.007	18.86
Sump 6 Air Stripper	0.001	0.237
Sump 9 Air Stripper	0.00001	1.284
Sump 9 SVE	0.0089	25.45
Sumps 7, 8, 14, 15 Area 2 - Air Stripper	0.002	0.980
Sumps 10, 11, 12, 13 Area 3 - Air Stripper	0.0098	40.051
Area 3 Trailer SVE	0.0023	0.583
Area 3 Main SVE	0.0033	11.02
TOTAL (for 8 Treatment Systems)	**0.034**	**98.46**
WDNR Discharge Limit	**5.7**	**300**

Note: Air stripper system emission values are average cumulative values from the system groundwater influent- and effluent-monitoring data collected since the start-up of each system. Air stripper influent concentration values used to calculate the emissions shown on this table are weighted averages based on influent loading from each groundwater recovery sump contributing to each respective air stripper treatment system.

ATTACHMENT 2

SUMMARY OF DATA USED TO ESTIMATE GROUNDWATER TREATMENT SYSTEM (AIR STRIPPER) EMISSIONS

ATTACHMENT 2

Table 1
Chrysler Corporation
Kenosha Main Plant
Sumps 4 and 5 Groundwater Treatment System

Date	Sump 4					Sump 5				
	Influent		Flow			Influent		Flow		
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)
04/21/94	Started the System									
04/22/94	7.300	16.650	9,081	6.31	9,081	0.006	1.600	34,973	24.29	34,973
06/07/94	5.700	15.860	82,656	1.25	91,737	5.400	14.920	78,799	1.19	113,772
08/24/94	3.940	11.230	166,298	1.48	258,035	0.035	17.360	154,158	1.37	267,930
12/08/94	3.180	7.455	228,826	1.50	486,861	2.550	7.326	171,096	1.12	439,026
03/15/95	2.657	5.946	125,374	0.90	612,235	0.044	36.633	141,180	1.01	580,206
06/23/95	2.657	5.946	134,016	0.93	746,251	0.044	36.633	202,862	1.41	783,068
09/19/95	2.400	5.100	126,381	1.00	872,632	2.100	13.900	126,103	1.00	909,171
12/07/95	2.0000	5.1200	106,053	0.93	978,685	2.100	5.710	62,524	0.55	971,695
03/14/96	2.0000	5.1200	51,791	0.37	1,030,476	0.000	34.250	54,251	0.38	1,025,946

Date	Sumps 4 and 5 Composite												
	Sump 4&5 Weighted Average		Flow			Effluent		Percent Removal		Benzene Emissions (lbs)		Benzene Emiss	VOC Emiss
	Benzene mg/L	Total VOCs mg/L	Flow for the Period (Gallons	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Benzene	Total VOCs	For Reporting Period	Cumulative	For Reporting Period (lbs/yr)	For Reporting Period (lbs/hr)
04/21/94													
04/22/94	1.5095	4.7023	44,054	30.59	44,054	0.150	0.460	90.06%	90.22%	0.499	0.499	179.812	0.065
06/07/94	5.5536	15.4012	161,455	2.44	205,509	0.017	0.087	99.69%	99.44%	7.455	7.955	62.264	0.019
08/24/94	2.0613	14.1789	320,456	2.85	525,965	0.069	0.403	96.65%	97.16%	5.325	13.279	38.553	0.020
12/08/94	2.9105	7.3998	399,922	2.62	925,887	0.159	0.528	94.54%	92.86%	9.177	22.456	35.149	0.009
03/15/95	1.2730	22.1993	266,554	1.91	1,192,441	0.436	4.372	65.75%	80.31%	1.861	24.317	26.771	0.017
06/23/95	1.2730	22.1993	336,878	2.34	1,529,319	0.002	0.011	99.84%	99.95%	3.571	27.888	23.512	0.026
09/19/95	2.2502	9.4952	252,484	1.99	1,781,803	0.031	0.046	98.62%	99.52%	4.673	32.561	22.761	0.009
12/07/95	2.0371	5.3388	168,577	1.48	1,950,380	0.031	0.123	98.48%	97.70%	2.820	35.381	21.443	0.004
03/14/96	0.9768	20.0229	106,042	0.75	2,056,422	0.000	0.108	100.00%	99.46%	0.864	36.245	18.856	0.007

Notes:
The system was down from 4/22/94 to 5/5/94, until initial sampling results were received.
VOC = Volatile Organic Compounds
No influent samples were collected on 6/23/95. Influent concentrations are assumed to be the same as detected during previous sampling event.
No influent samples were collected on 3/14/96 for Sump 4 due to repairs. Influent concentrations were assumed to be the same as detected during previous sampling event.

ATTACHMENT 2

Table 2
Chrysler Corporation
Kenosha Main Plant
Sump 6 Groundwater
Treatment System

Date	Influent		Flow			Effluent		Percent Removal		Benzene Emissions (lbs)		Benzene Emiss.	VOC Emiss
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Benzene	Total VOCs	For Reporting Period	Cumulative	For Reporting Period (lbs/yr)	For Reporting Period (lbs/hr)
04/21/94	Started the System												
04/22/94	0.0005	2.280	21,213	14.73	21,213	0.0005	0.0952	0.00%	95.82%	0.000	0.000	0.000	0.016
06/07/94	0.0005	4.480	211,108	3.19	232,321	0.0015	0.1249	ERR	97.21%	ERR	0.000	0.000	0.007
08/24/94	0.0012	2.440	365,734	3.26	598,055	0.0006	0.0047	50.00%	99.81%	0.002	0.002	0.005	0.004
12/06/94	0.0005	1.250	672,113	4.49	1,270,168	0.0005	0.0127	0.00%	98.98%	0.000	0.002	0.003	0.003
03/15/95	0.025	1.350	886,333	6.22	2,156,501	0.0005	0.0293	98.00%	97.83%	0.181	0.183	0.201	0.004
06/21/95	0.019	1.449	647,414	4.59	2,803,915	0.00038	0.0023	98.03%	99.84%	0.101	0.283	0.240	0.003
09/19/95	0.038	1.800	388,024	2.99	3,191,939	0.0008	0.0218	97.89%	98.79%	0.120	0.404	0.282	0.003
12/07/95	0.038	1.189	170,574	1.50	3,362,513	0.0008	0.0270	97.89%	97.73%	0.053	0.457	0.276	0.001
03/14/96	0.000	1.100	228,061	1.62	3,590,574	0.000	0.0525	100.00%	95.23%	0.000	0.457	0.237	0.001

Note: The system was down from 4/22/94 to 5/5/94, until the initial sampling results were received.
The percent removal of benzene for the sample collected 6/7/94 is shown as an error because the detected effluent concentration was higher than the detected influent concentration.
Benzene was not detected during the 6/21/95 event; the reported influent and effluent concentrations are one-half the reported detection limits.
VOC = Volatile Organic Compounds

ATTACHMENT 2

Table 3
Chrysler Corporation
Kenosha Main Plant
Sump 9 Groundwater
Treatment System

Date	Influent		Flow			Effluent		Percent Removal		Benzene Emissions (lbs)		Benzene Emiss.	VOC Emiss
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Benzene	Total VOCs	For Reporting Period	Cumulative	For Reporting Period (lbs/yr)	For Reporting Period (lbs/hr)
03/06/95	Started the System												
03/16/95	2.31	7.67	6,810	0.47	6,810	0.744	2.281	67.79%	70.26%	0.089	0.089	3.202	0.001
06/23/95	2.31	7.67	36,789	0.26	43,599	0.27	0.649	88.31%	91.54%	0.626	0.715	2.361	0.001
09/19/95	2.20	4.40	25,347	0.20	68,946	0.35	0.83	84.09%	81.14%	0.391	1.106	2.021	0.0004
12/07/95	2.00	3.23	14,204	0.12	83,150	0.26	0.459	87.00%	85.81%	0.206	1.312	1.711	0.0002
03/14/96	1.60	2.326	1,716	0.01	84,866	0.057	0.091	96.44%	96.09%	0.022	1.334	1.284	0.00001

Note: No influent samples were collected on 6/23/95. The influent concentrations are assumed to be the same as detected in the 3/16/95 samples.
VOC = Volatile Organic compound.

ATTACHMENT 2

Table 4
Chrysler Corporation
Kenosha Main Plant
Sumps 7, 8, 14, 15 Groundwater Treatment
System

Date	Sump 7					Sump 8					Sump 14				
	Influent		Flow			Influent		Flow			Influent		Flow		
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)
03/06/95	Started the System														
03/14/95	0.005	0.267	6,480	0.56	6,480	0.050	4.315	6,154	0.53	6,154	0.003	3.417	18,046	1.57	18,046
06/23/95	0.005	0.267	160,017	1.10	166,497	0.050	4.315	90,012	0.62	96,166	0.003	3.417	122,360	0.84	140,406
09/19/95	0.001	0.200	292,744	2.31	459,241	0.210	6.210	69,355	0.55	165,521	0.094	2.700	103,278	0.82	243,684
11/01/95	0.001	0.200	292,744	2.31	459,241	0.210	6.210	69,355	0.55	165,521	0.094	2.700	103,278	0.82	243,684
12/07/95	0.470	20.630	56,163	1.08	515,404	0.620	28.140	42,734	0.82	208,255	0.470	16.070	69,165	1.33	312,849
03/14/96	0.000	0.980	105,322	0.75	620,726	0.000	37.600	17,005	0.12	225,260	0.000	0.050	23,139	0.16	335,988

Date	Sump 15					Sumps 7, 8, 14, 15 Composite									
	Influent		Flow			Sumps 7,8,14,15 Wgt. Ave.		Flow			Effluent		Percent Removal		Benzene Emissions (lbs)	
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow for the Period (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Benzene	Total VOCs	For Reporting Period	Cumulative
03/06/95																
03/14/95	0.0005	0.423	1,250	0.11	1,250	0.0121	2.8336	31,930	2.77	31,930	0.0005	0.0058	95.86%	99.80%	0.003	0.003
06/23/95	0.0005	0.423	30,315	0.21	31,565	0.0140	2.1407	402,704	2.77	434,634	0.0004	0.0107	97.13%	99.50%	0.046	0.049
09/19/95	0.3100	12.100	23,410	0.18	54,975	0.0651	2.1509	488,787	3.86	923,421	0.2700	5.3100	ERR	ERR	ERR	0.049
11/01/95	0.310	12.100	23,410	0.18	54,975	0.0651	2.1509	488,787	3.86	923,421	0.0020	0.0456	96.93%	97.88%	0.257	0.306
12/07/95	0.005	0.237	21,040	0.41	76,015	0.4522	18.3903	189,102	3.65	1,112,523	0.0008	0.0025	99.82%	99.99%	0.712	1.018
03/14/96	0.000	0.011	16,614	0.12	92,629	0.0000	4.5899	162,080	1.15	1,274,603	0.0000	0.2770	100.00%	93.97%	0.000	1.018

Date	Benzene Emis.	VOC Emiss
	For Reporting Period (lbs/yr)	For Reporting Period (lbs/hr)
03/06/95		
03/14/95	0.139	0.004
06/23/95	0.161	0.003
09/19/95	0.089	ERR
11/01/95	0.459	0.008
12/07/95	1.327	0.034
03/14/96	0.980	0.002

Note: The system was down from 4/22/94 to 5/5/94, until the initial sampling results were received.
VOC = Volatile Organic Compounds
No influent samples collected on 6/23/95. Influent concentrations are assumed to be the same as detected on 3/14/95.
The percent removal of benzene and total VOC's for the sample collected on 9/19/95 is shown as an error because the detected effluent concentration was higher than the weighted detected influent concentration
Resampling of Sumps 7,8,14,15 composite effluent occurred on 11/1/95 due to the air strippers being deactivated and cleaned after the 9/19/95 sampling event.
No influent samples collected on 11/01/95. Influent concentrations assumed to be the same as on 9/19/95

ATTACHMENT 2

Table 5
Chrysler Corporation
Kenosha Main Plant
Sumps 10, 11, 12, 13 Groundwater Treatment System

Date	Sump 10					Sump 11					Sump 12				
	Influent		Flow			Influent		Flow			Influent		Flow		
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)
03/06/95	Started the System														
03/16/95	0.416	4.094	51,840	3.60	51,840	1.790	3.483	52,724	3.66	52,724	1.670	3.850	29,184	2.03	29,184
06/23/95	0.416	4.094	646,958	4.54	698,798	1.790	3.483	869,353	6.10	922,077	1.670	3.850	364,583	2.56	393,767
09/19/95	0.120	1.400	585,684	4.62	1,284,482	1.000	2.800	548,615	4.33	1,470,692	0.001	0.010	267,392	2.11	661,159
11/01/95	0.120	1.400	585,684	4.62	1,284,482	1.000	2.800	548,615	4.33	1,470,692	0.001	0.010	267,392	2.11	661,159
12/07/95	0.420	1.900	542,521	10.47	1,827,003	0.490	1.952	663,829	12.81	2,134,521	0.007	0.037	423,872	8.18	1,085,031
03/14/96	0.000	4.025	488,513	3.46	2,315,516	0.370	1.661	417,436	2.96	2,551,957	0.000	0.007	79,630	0.56	1,164,661

Date	Sump 13					Sumps 10, 11, 12, 13 Composite										
	Influent		Flow			Sumps 10, 11, 12, 13 Wgt. Ave.		Flow			Effluent		Percent Removal		Benzene Emissions (lbs)	
	Benzene mg/L	Total VOCs mg/L	Flow (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Flow for the Period (Gallons)	Average Flow Rate (GPM)	Cumulative Flow (Gallons)	Benzene mg/L	Total VOCs mg/L	Benzene	Total VOCs	For Reporting Period	Cumulative
03/06/95																
03/16/95	0.9890	2.093	38,089	2.65	38,089	1.1776	3.4216	171,837	11.93	171,837	0.0005	0.00801	99.96%	99.77%	1.687	1.687
06/23/95	0.9890	2.093	549,363	3.85	587,452	1.2252	3.3865	2,430,257	17.05	2,602,094	0.0030	0.0060	99.76%	99.82%	24.771	26.458
09/19/95	0.2200	3.792	188,516	1.49	775,968	0.4154	1.9328	1,590,207	12.55	4,192,301	0.2200	1.7030	47.04%	11.89%	2.592	29.050
11/01/95	0.2200	3.792	188,516	1.49	775,968	0.4154	1.9328	1,590,207	12.55	4,192,301	0.0080	0.0020	98.07%	99.90%	5.403	34.453
12/07/95	0.4500	1.771	331,222	6.39	1,107,190	0.3595	1.4932	1,961,444	37.84	6,153,745	0.0008	0.0016	99.78%	99.89%	5.868	40.321
03/14/96	0.000	0.815	301,542	2.14	1,408,732	0.1200	2.2577	1,287,121	9.12	7,440,866	0.000	0.108	100.00%	95.22%	1.288	41.609

Date	Benzene Emiss. For Reporting Period (lb/yr)	VOC Emiss For Reporting Period (lbs/hr)
03/06/95		
03/16/95	60.727	0.020
06/23/95	87.384	0.029
09/19/95	53.086	0.001
11/01/95	51.679	0.0248
12/07/95	52.592	0.0282
03/14/96	40.051	0.0098

Note: VOC = Volatile Organic Compounds
No influent samples collected 6/23/95. Influent concentrations assumed to be the sama as on 3/16/95.
No influent samples collected 11/09/95. Influent concentrations assumed to be the same as on 9/19/95
Air stripper effluent was resampled 11/01/95 because air stripper was deactivated and cleaned after the 9/19/95 event.

ATTACHMENT 3

SUMMARY OF DATA USED IN SVE EMISSION CALCULATIONS

ATTACHMENT 3

Chrysler Corporation
Kenosha Main Plant
Area 3 Main And Trailer SVE System Effluent Sample Results

	UNITS	MAIN-1 8/23/95	MAIN-2 8/24/95	TRAILER-1 8/24/95	MAIN-3 8/25/95	TRAILER-2 8/25/95	TRAILER-3 8/26/95	MAIN-4 8/31/95	TRAILER-4 8/31/95	MAIN-5 9/7/95	TRAILER-5 9/7/95	MAIN-6 9/14/95	TRAILER-6 9/14/95
1,1 dichloroethylene	ug/l	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2 dichloroethylene	ug/l	1.0	1.0	1.8	1.0	1.90	2.00	0.6	----	0.8	0.90	1.50	1.70
1,1 dichloroethane	ug/l	0.54	0.46	2.92	0.44	2.67	2.77	0.25	0.06	0.35	0.73	0.71	1.88
1,1,1 trichloroethane	ug/l	0.79	0.79	----	0.66	----	----	0.43	----	0.66	----	0.55	----
benzene	ug/l	0.80	0.70	----	0.6	----	----	0.4	----	0.80	----	1.8	----
trichloroethylene	ug/l	----	----	----	----	----	----	0.05	----	0.04	----	0.04	----
ethyl benzene	ug/l	----	----	----	----	----	----	----	----	----	----	----	----
TOTAL VOCs	ug/l	3.1	3.0	4.7	2.7	4.6	4.8	1.7	0.1	2.7	1.6	4.6	3.6

	UNITS	MAIN-7 10/4/95	TRAILER-7 10/4/95	MAIN-8 11/9/95	TRAILER-8 11/9/95	MAIN-9 12/6/95	TRAILER-9 12/6/95	MAIN-9 1/15/96	TRAILER-9 1/15/96	MAIN-10 2/9/96	TRAILER-10 2/9/96	MAIN-11 3/4/96	TRAILER-11 3/4/96
1,1 dichloroethylene	ug/l	----	----	----	----	----	----	----	----	----	----	----	----
trans-1,2 dichloroethylene	ug/l	0.70	1.50	1.40	1.60	1.70	1.50	----	----	----	1.70	1.10	1.00
1,1 dichloroethane	ug/l	0.69	1.74	0.61	1.37	0.81	1.03	----	----	0.33	0.57	0.26	0.32
1,1,1 trichloroethane	ug/l	1.11	----	0.94	0.05	0.75	----	----	----	0.07	----	0.08	----
benzene	ug/l	4.60	----	2.60	----	1.90	----	----	----	----	----	0.4	----
trichloroethylene	ug/l	0.03	----	0.03	----	0.03	----	----	----	0.13	----	0.17	----
ethyl benzene	ug/l	----	----	----	----	----	----	----	----	----	----	----	----
TOTAL VOCs	ug/l	7.1	3.2	5.6	3.0	5.2	2.5	0.0	0.0	0.4	2.3	2.0	1.3

ATTACHMENT 3

Chrysler Corporation
Kenosha Main Plant
Area 3 Main and Trailer SVE System Inffluent Sample Results

		MAIN-1	TRAILER-1	MAIN-2	TRAILER-2	MAIN-3	TRAILER-3	MAIN-4	TRAILER-4	MAIN-5	TRAILER-5
	UNITS	8/25/95	8/25/95	8/31/95	8/31/95	9/14/95	9/14/95	10/4/95	10/4/95	11/9/95	11/9/95
1,1 dichloroethylene	ug/l	2.64	----	0.46	----	0.32	----	0.13	----	0.13	----
trans-1,2 dichloroethylene	ug/l	1.6	1.2	----	----	----	1.10	0.40	0.40	0.70	1.30
1,1 dichloroethane	ug/l	18.15	3.27	5.52	1.83	4.75	1.10	3.08	0.77	2.87	3.54
1,1,1 trichloroethane	ug/l	71.39	----	17.79	----	16.62	0.03	10.98	0.04	15.31	0.05
benzene	ug/l	43.7	----	8.5	----	55.3	4.50	48.6	----	47.5	0.90
trichloroethylene	ug/l	0.16	----	2.90	----	1.24	0.04	0.31	0.15	0.28	----
ethyl benzene	ug/l	1.30	9.2	----	1.2	2.7	3.7	1.7	----	1.70	----
TOTAL VOCs	ug/l	138.94	13.67	35.17	3.03	80.93	10.47	65.20	1.36	68.49	5.79

		MAIN-6	TRAILER-6	MAIN-7	TRAILER-7	MAIN-10	TRAILER-10	MAIN-11	TRAILER-11		
	UNITS	12/6/95	12/6/95	1/15/96	1/15/96	2/9/96	2/9/96	3/4/96	3/4/96		
1,1 dichloroethylene	ug/l	0.25	---	---	---	----	----	----	----		
trans-1,2 dichloroethylene	ug/l	1.70	1.8	---	1.7	----	----	1.10	1.90		
1,1 dichloroethane	ug/l	3.58	4.15	---	---	0.32	----	0.24	1.83		
chloroform	ug/l	---	0.024	---	---	----	----	----	----		
1,1,1 trichloroethane	ug/l	21.25	0.04	---	---	0.09	0.03	0.08	0.03		
benzene	ug/l	63.60	0.80	---	---	----	----	0.4	----		
trichloroethylene	ug/l	0.55	0.07	---	---	----	0.05	0.17	0.03		
ethyl benzene	ug/l	3.50	---	---	---	----	----	----	----		
TOTAL VOCs	ug/l	94.43	6.88	0.00	1.70	0.41	0.08	1.99	3.79		

ATTACHMENT 3

Chrysler Corporation
Kenosha Main Plant
Sump 9 SVE Air Effluent Sample Results

DATE	3/14/95	3/15/95	3/16/95	3/23/95	3/30/95	4/6/95	5/8/95	6/7/95	7/17/95	10/4/95	11/9/95
SAMPLE NO.	1	2	3	4	5	6	7	8	9	10	11
Trans-1,2 DCE (ppmv)	0.37	0.25	0.31	0.37	0.67	0.21	0.42	NA	NA		
(mg/l)	0.00147	0.00099	0.00123	0.00147	0.00266	0.00083433	0.001669	0.0013	0.0007	0.0013	0.0017
1,1 DCA (ppmv)	0.41	0.38	0.41	0.31	0.42	0.36	0.23	NA	NA		
(mg/l)	0.00166	0.00154	0.00166	0.00125	0.0017	0.00146	0.000933	0.00073	0.00124	0.00081	0.00097
1,1,1 TCA (ppmv)	0.005	—	—	0.010	0.010	0.010	0.029	NA	NA		
(mg/l)	0.00003	—	—	0.00005	0.0005	0.0005	0.000159	0.00016	0.00038	0.00012	0.00007
Benzene (ppmv)	0.97	0.80	1.70	1.28	1.01	1.17	0.067	NA	NA		
(mg/l)	0.0031	0.0026	0.0054	0.0041	0.0032	0.0037	0.000215	0.0017	0.003	0.0012	0.0009
Toluene (ppmv)	1.05	0.44	0.67	0.71	0.62	0.7	0.69	NA	NA		
(mg/l)	0.00396	0.00166	0.0025	0.0027	0.0023	0.0026	0.002605	0.0026	0.0032	—	—
Ethylbenzene (ppmv)	0.2	—	0.16	0.16	0.15	0.18	0.09	—	—		
(mg/l)	0.00087	—	0.0007	0.0007	0.00065	0.00078	0.000392	NA	0.0003	—	—
1,2-Dichloroethane	—	—	—	—	—	—	0.03	—	—		
(mg/l)	—	—	—	—	—	—	0.000122	NA	NA	NA	NA
Total VOCs (mg/l)	0.01109	0.00679	0.01149	0.01027	0.01101	0.00987433	0.006093	0.00649	0.00882	0.00343	0.00364

DATE	12/6/95	1/15/96	2/9/96	3/4/96							
SAMPLE NO.	12	13	14	15							
Trans-1,2 DCE (mg/l)	0.0014	—	—	0.0016							
1,1 DCA (mg/l)	0.00092	—	0.00124	0.00075							
1,1,1 TCA (mg/l)	0.00047	—	0.00008	0.00003							
Benzene (mg/l)	0.0008	—	0.0015	0.0009							
Toluene (mg/l)	—	—	—	—							
Ethylbenzene (mg/l)	—	—	—	—							
1,2-Dichloroethane (mg/l)	—	—	—	—							
Total VOCs (mg/l)	0.0039	0.00	0.00282	0.00328							

Vacuum = 1.6 inches.
Flow Rate = 360 cfm

ATTACHMENT 4

SVE SYSTEMS AIR EMISSION CALCULATIONS

ATTACHMENT 4

Chrysler Corporation
Kenosha Main Plant
Sump 9 SVE Emission Calculations

Benzene Emission Rates (lbs/hr)

Sample No. 1,[3.747 x 10^{-3}(min xlbsx L)/(hr x ft^3 x mg)] (360 cfm)(0.0031 mg/l)

	=	0.0042 lbs/hr
No. 2	=	0.0035 lbs/hr
No. 3	=	0.0073 lbs/hr
No. 4	=	0.0055 lbs/hr
No. 5	=	0.0043 lbs/hr
No. 6	=	0.0050 lbs/hr
No. 7	=	0.0003 lbs/hr
No. 8	=	0.0023 lbs/hr
No. 9	=	0.0040 lbs/hr
No. 10	=	0.0016 lbs/hr
No. 11	=	0.0012 lbs/hr
No. 12	=	0.0011 lbs/hr
No. 13	=	0.0000 lbs/hr
No. 14	=	0.0020 lbs/hr
No.15	=	0.0012 lbs/hr
Average	=	0.0029 lbs/hr

Benzene Emission Rates (lbs/yr)

Sample No. 1, [32.82(min x lbs x L)/(year x ft^3 x mg)] (360 cfm)(0.0031 mg/l)

	=	36.63 lbs/yr
No. 2	=	30.72 lbs/yr
No. 3	=	63.80 lbs/yr
No. 4	=	48.44 lbs/yr
No. 5	=	37.81 lbs/yr
No. 6	=	43.72 lbs/yr
No. 7	=	2.53 lbs/yr
No. 8	=	20.09 lbs/yr
No. 9	=	35.45 lbs/yr
No. 10	=	14.18 lbs/yr
No. 11	=	10.63 lbs/yr
No. 12	=	9.45 lbs/yr
No. 13	=	0.00 lbs/yr
No. 14	=	17.72 lbs/yr
No.15	=	10.63 lbs/yr
Average	=	25.45 lbs/yr

Total VOCs Emission Rate (lbs/hour)

Sample No. 1, [3.747 x 10^{-3}(min xlbsx L)/ (hr x ft^3 x mg)] (360 cfm)(0.0111 mg/l)

	=	0.0150 lbs/hr
No. 2	=	0.0092 lbs/hr
No. 3	=	0.0155 lbs/hr
No. 4	=	0.0139 lbs/hr
No. 5	=	0.0149 lbs/hr
No. 6	=	0.0133 lbs/hr
No. 7	=	0.0082 lbs/hr
No. 8	=	0.0088 lbs/hr
No. 9	=	0.0119 lbs/hr
No. 10	=	0.0046 lbs/hr
No. 11	=	0.0049 lbs/hr
No. 12	=	0.0053 lbs/hr
No. 13	=	0.0000 lbs/hr
No. 14	=	0.0038 lbs/hr
No.15	=	0.0044 lbs/hr
Average	=	0.0089 lbs/hr

NOTE: Calculations are based on concentrations presented in Attachment 3.

ATTACHMENT 4

Chrysler Corporation
Kenosha Main Plant
Area 3 Main SVE Emission Calculations

Benzene Emission Rates (lbs/hr)

Sample No. 1,[3.747 x 10^{-3}(min xlbsx L)/(hr x ft^3 x mg)] (276 cfm)(0.0008 mg/l)

	=	0.00083 lbs/hr
Sample No. 1	=	0.00083 lbs/hr
Sample No. 2	=	0.00072 lbs/hr
Sample No. 3	=	0.00062 lbs/hr
Sample No. 4	=	0.00041 lbs/hr
Sample No. 5	=	0.00083 lbs/hr
Sample No. 6	=	0.00186 lbs/hr
Sample No. 7	=	0.00476 lbs/hr
Sample No. 8	=	0.00269 lbs/hr
Sample No. 9	=	0.00196 lbs/hr
Sample No. 10	=	0.00000 lbs/hr
Sample No. 11	=	0.00000 lbs/hr
Sample No. 12	=	0.00041 lbs/hr
	Average	0.00126 lbs/hr

Benzene Emission Rates (lbs/yr)

Sample No. 1, [32.82(min x lbs x L)/(year x ft^3 x mg)] (276 cfm)(0.0008 mg/l)

	=	7.247 lbs/yr
Sample No. 1	=	7.247 lbs/yr
Sample No. 2	=	6.341 lbs/yr
Sample No. 3	=	5.435 lbs/yr
Sample No. 4	=	3.623 lbs/yr
Sample No. 5	=	7.247 lbs/yr
Sample No. 6	=	16.30 lbs/yr
Sample No. 7	=	41.67 lbs/yr
Sample No. 8	=	23.55 lbs/yr
Sample No. 9	=	17.21 lbs/yr
Sample No. 10	=	0.00 lbs/yr
Sample No. 11	=	0.00 lbs/yr
Sample No. 12	=	3.62 lbs/yr
	Average	11.02 lbs/yr

Total VOCs Emission Rate (lbs/hour)

Sample No. 1, [3.747 x 10^{-3}(min xlbsx L)/ (hr x ft^3 x mg)] (276 cfm)(0.0031 mg/l)

	=	0.0032 lbs/hr
Sample No. 1	=	0.0032 lbs/hr
Sample No. 2	=	0.0031 lbs/hr
Sample No. 3	=	0.0028 lbs/hr
Sample No. 4	=	0.0018 lbs/hr
Sample No. 5	=	0.0028 lbs/hr
Sample No. 6	=	0.0048 lbs/hr
Sample No. 7	=	0.0073 lbs/hr
Sample No. 8	=	0.0058 lbs/hr
Sample No. 9	=	0.0054 lbs/hr
Sample No. 10	=	0.0000 lbs/hr
Sample No. 11	=	0.0004 lbs/hr
Sample No. 12	=	0.0021 lbs/hr
	Average	0.0033 lbs/hr

Note: Calculations are based on effluent concentrations presented in Attachment 3

ATTACHMENT 4

Chrysler corporation
Kenosha Main Plant
Area 3 Trailer SVE Emission Calculations

Benzene Emission Rates (lbs/hr)

Sample No. 1,[3.747 x 10^{-3}(min xlbsx L)/(hr x ft^3 x mg)] (237 cfm)(0.001 mg/l)

	=	0.0001 lbs/hr
Sample No. 1	=	0.0001 lbs/hr
Sample No. 2	=	0.0001 lbs/hr
Sample No. 3	=	0.0001 lbs/hr
Sample No. 4	=	0.0001 lbs/hr
Sample No. 5	=	0.0001 lbs/hr
Sample No. 6	=	0.0001 lbs/hr
Sample No. 7	=	0.0001 lbs/hr
Sample No. 8	=	0.0001 lbs/hr
Sample No. 9	=	0.0001 lbs/hr
Sample No. 10	=	0.0000 lbs/hr
Sample No. 11	=	0.0000 lbs/hr
Sample No. 12	=	0.0000 lbs/hr
	Average	0.0001 lbs/hr

Benzene Emission Rates (lbs/yr)

Sample No. 1, [32.82(min x lbs x L)/(year x ft^3 x mg)] (237 cfm)(0.0001 mg/l)

	=	0.778 lbs/yr
Sample No. 1	=	0.778 lbs/hr
Sample No. 2	=	0.778 lbs/hr
Sample No. 3	=	0.778 lbs/hr
Sample No. 4	=	0.778 lbs/hr
Sample No. 5	=	0.778 lbs/hr
Sample No. 6	=	0.778 lbs/hr
Sample No. 7	=	0.778 lbs/hr
Sample No. 8	=	0.778 lbs/hr
Sample No. 9	=	0.778 lbs/hr
Sample No. 10	=	0.000 lbs/hr
Sample No. 11	=	0.000 lbs/hr
Sample No. 11	=	0.000 lbs/hr
	Average	0.583 lbs/hr

Total VOCs Emission Rate (lbs/hour)

Sample No. 1, [3.747 x 10^{-3}(min xlbsx L)/ (hr x ft^3 x mg)] (237 cfm)(0.0047 mg/l)

	=	0.0042 lbs/hr
Sample No. 1	=	0.0042 lbs/hr
Sample No. 2	=	0.0041 lbs/hr
Sample No. 3	=	0.0043 lbs/hr
Sample No. 4	=	0.0001 lbs/hr
Sample No. 5	=	0.0014 lbs/hr
Sample No. 6	=	0.0032 lbs/hr
Sample No. 7	=	0.0028 lbs/hr
Sample No. 8	=	0.0027 lbs/hr
Sample No. 9	=	0.0022 lbs/hr
Sample No. 10	=	0.0000 lbs/hr
Sample No. 11	=	0.0020 lbs/hr
Sample No. 12	=	0.0012 lbs/hr
	Average	0.0023 lbs/hr

Note: Calculations are based on concentrations presented in Attachment 3
Benzene emissions were less than the detection limit; emissions were assumed to be half the detection limit.

ATTACHMENT 5

LABORATORY DOCUMENTATION

SVE SYSTEM AIR SAMPLE ANALYTICAL RESULTS

MICROSEEPS

University of Pittsburgh Applied Research Center
220 William Pitt Way, Pittsburgh, PA 15238
(412) 826-5245
FAX (412) 826-3433

April 15, 1996

Mr. Ross Creighton
Triad Engineering, Inc.
325 E. Chicago Street
Milwaukee, WI 53202

Dear Mr. Creighton:

Attached is the final data listing for the samples we received on April 9, 1996, your project #W963890.D.

Please give me call if you have questions or I can be of further assistance. Thank you for using MICROSEEPS.

Sincerely,

David J. Masdea

DJM/lsp

Attachment: TEI22-962293

MICROSEEPS

ANALYSIS OF VOLATILE ORGANICS IN GAS SAMPLES

Gas samples are received and secured in accordance with Microseeps documented sample receipt procedures. Analyses are performed using Microseeps Analytical Method AM4.03. Analytical method AM4.03 is a modification of USEPA Method 3810 (Headspace) and 8000 (Gas Chromatography). Modifications implemented are to accommodate the gas phase sample type only. All applicable quality control procedures are followed including continuing calibration check standards and laboratory blanks. Microseeps Analytical Method AM4.03 will be supplied upon request.

220 William Pitt Way, Pittsburgh, PA 15238 • Phone (412) 826-5245, Fax (412) 826-3433

MICROSEEPS

TEI22-962293

----- TRIAD ENGINEERING INC. ----

----- PROJECT LOC: CHRYSLER CORP., KENOSHA, WI. -----

----- PROJECT NO: W963890.D -----

----- 601/602 SCAN -----

----- CONCENTRATIONS IN ug/l OF SAMPLE GAS -----

COMPOUND NAME	SAMPLE ID AREA3-BLDG-EFF	SAMPLE ID AREA3-BLDG-INF	SAMPLE ID AREA3-TRAILER-EFF	SAMPLE ID AREA3-TRAILER-INF	LDLs
CHLOROMETHANE	<2	<2	<2	<2	2
VINYL CHLORIDE	<3	<3	<3	<3	3
BROMOMETHANE/CHLOROETHANE*	<3	<3	<3	<3	3
FLUOROTRICHLOROMETHANE	<.03	<.03	<.03	<.03	0.03
1,1 DICHLOROETHYLENE	<.04	<.04	<.04	<.04	0.04
METHYLENE CHLORIDE	<3	<3	<3	<3	3
TRANS-1,2 DICHLOROETHYLENE	1.1	1.3	1.1	1.9	0.4
1,1 DICHLOROETHANE	0.25	0.36	0.60	4.08	0.04
CHLOROFORM	<.02	<.02	<.02	<.02	0.02
1,1,1 TRICHLOROETHANE	0.10	0.14	<.03	0.03	0.03
CARBON TETRACHLORIDE	<.03	<.03	<.03	<.03	0.03
BENZENE	<.2	<.2	<.2	<.2	0.2
1,2 DICHLOROETHANE	<.04	<.04	<.04	<.04	0.04
TRICHLOROETHYLENE	0.19	0.23	<.03	0.05	0.03
1,2 DICHLOROPROPANE	<.05	<.05	<.05	<.05	0.05
BROMODICHLOROMETHANE	<.03	<.03	<.03	<.03	0.03
CIS-1,3 DICHLOROPROPYLENE	<.05	<.05	<.05	<.05	0.05
TOLUENE	<.2	<.2	<.2	<.2	0.2
TRANS-1,3 DICHLOROPROPYLENE	<.05	<.05	<.05	<.05	0.05
1,1,2 TRICHLOROETHANE	<.03	<.03	<.03	<.03	0.03
TETRACHLOROETHYLENE	<.03	<.03	<.03	<.03	0.03
CHLORODIBROMOMETHANE	<.04	<.04	<.04	<.04	0.04
CHLOROBENZENE	<.3	<.3	<.3	<.3	0.3
ETHYL BENZENE	<.3	<.3	<.3	<.3	0.3
BROMOFORM	<.05	<.05	<.05	<.05	0.05
1,1,2,2 TETRACHLOROETHANE	<.03	<.03	<.03	<.03	0.03
1,3 DICHLOROBENZENE	<.4	<.4	<.4	<.4	0.4
1,4 DICHLOROBENZENE	<.4	<.4	<.4	<.4	0.4
1,2 DICHLOROBENZENE	<.4	<.4	<.4	<.4	0.4
FILE NAME	W61 238	W61 239	W61 240	W61 241	
DATE SAMPLED	04/08/96	04/08/96	04/08/96	04/08/96	
DATE RECEIVED	04/09/96	04/09/96	04/09/96	04/09/96	
DATE ANALYZED	04/10/96	04/10/96	04/10/96	04/10/96	

* COMPOUNDS ELUTE TOGETHER ON ECD: VALUES REPRESENT EITHER OR A COMBINATION OF BOTH.

12-Apr-96

ANALYST INITIALS

LAB MANAGER INITIALS DM

MICROSEEPS

TE122-962293 ----- TRIAD ENGINEERING INC. ----

----- PROJECT LOC: CHRYSLER MAIN PLANT, KENOSHA, WI. -----

----- PROJECT NO: W963890.D -----

----- 601/602 SCAN -----

----- CONCENTRATIONS IN ug/l OF SAMPLE GAS -----

COMPOUND NAME	SAMPLE ID SUMP9-SVE-EFF	SAMPLE ID SUMP9-SVE-INF	LDLs
CHLOROMETHANE	<2	<2	2
VINYL CHLORIDE	<3	<3	3
BROMOMETHANE/CHLOROETHANE*	<3	<3	3
FLUOROTRICHLOROMETHANE	<.03	<.03	0.03
1,1 DICHLOROETHYLENE	<.04	<.04	0.04
METHYLENE CHLORIDE	<3	<3	3
TRANS-1,2 DICHLOROETHYLENE	1.5	1.3	0.4
1,1 DICHLOROETHANE	0.65	0.58	0.04
CHLOROFORM	<.02	<.02	0.02
1,1,1 TRICHLOROETHANE	0.03	<.03	0.03
CARBON TETRACHLORIDE	<.03	<.03	0.03
BENZENE	<.2	<.2	0.2
1,2 DICHLOROETHANE	<.04	<.04	0.04
TRICHLOROETHYLENE	<.03	<.03	0.03
1,2 DICHLOROPROPANE	<.05	<.05	0.05
BROMODICHLOROMETHANE	<.03	<.03	0.03
CIS-1,3 DICHLOROPROPYLENE	<.05	<.05	0.05
TOLUENE	<.2	<.2	0.2
TRANS-1,3 DICHLOROPROPYLENE	<.05	<.05	0.05
1,1,2 TRICHLOROETHANE	<.03	<.03	0.03
TETRACHLOROETHYLENE	<.03	<.03	0.03
CHLORODIBROMOMETHANE	<.04	<.04	0.04
CHLOROBENZENE	<.3	<.3	0.3
ETHYL BENZENE	<.3	<.3	0.3
BROMOFORM	<.05	<.05	0.05
1,1,2,2 TETRACHLOROETHANE	<.03	<.03	0.03
1,3 DICHLOROBENZENE	<.4	<.4	0.4
1,4 DICHLOROBENZENE	<.4	<.4	0.4
1,2 DICHLOROBENZENE	<.4	<.4	0.4
FILE NAME	W61 242	W61 243	
DATE SAMPLED	04/08/96	04/08/96	
DATE RECEIVED	04/09/96	04/09/96	
DATE ANALYZED	04/10/96	04/10/96	

* COMPOUNDS ELUTE TOGETHER ON ECD: VALUES REPRESENT EITHER OR A COMBINATION OF BOTH.

12-Apr-96 ANALYST INITIALS JM LAB MANAGER INITIALS DOM

MICROSEEPS

TEI22-962293

**** QUALITY CONTROL ****
----- TRIAD ENGINEERING INC. ----
----- PROJECT LOC: CHRYSLER CORP., KENOSHA, WI. -----
----- PROJECT NO: W963890.D -----
----- 601/602 SCAN -----
----- CONCENTRATIONS IN ug/l OF SAMPLE GAS -----

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
REFERENCE: W61A/B233

COMPOUND	BLANK	LOWER DETECTION LIMIT
CHLOROMETHANE	ND	2
VINYL CHLORIDE	ND	3
BROMOMETHANE/CHLOROETHANE*	ND	3
FLUOROTRICHLOROMETHANE	ND	0.03
1,1 DICHLOROETHYLENE	ND	0.04
METHYLENE CHLORIDE	ND	3
TRANS-1,2 DICHLOROETHYLENE	ND	0.4
1,1 DICHLOROETHANE	ND	0.04
CHLOROFORM	ND	0.02
1,1,1 TRICHLOROETHANE	ND	0.03
CARBON TETRACHLORIDE	ND	0.03
BENZENE	ND	0.2
1,2 DICHLOROETHANE	ND	0.04
TRICHLOROETHYLENE	ND	0.03
1,2 DICHLOROPROPANE	ND	0.05
BROMODICHLOROMETHANE	ND	0.03
CIS-1,3 DICHLOROPROPYLENE	ND	0.05
TOLUENE	ND	0.2
TRANS-1,3 DICHLOROPROPYLENE	ND	0.05
1,1,2 TRICHLOROETHANE	ND	0.03
TETRACHLOROETHYLENE	ND	0.03
CHLORODIBROMOMETHANE	ND	0.04
CHLOROBENZENE	ND	0.3
ETHYL BENZENE	ND	0.3
BROMOFORM	ND	0.05
1,1,2,2 TETRACHLOROETHANE	ND	0.03
1,3 DICHLOROBENZENE	ND	0.4
1,4 DICHLOROBENZENE	ND	0.4
1,2 DICHLOROBENZENE	ND	0.4

* COMPOUNDS ELUTE TOGETHER ON ECD - VALUES REPRESENT EITHER OR A COMBINATION OF BOTH.

12-Apr-96

ANALYST INITIALS JAM

LAB MANAGER INITIALS DOM

MICROSEEPS

TEI22-962293

**** QUALITY CONTROL ****
----- TRIAD ENGINEERING INC. ----
----- PROJECT LOC: CHRYSLER CORP., KENOSHA, WI. -----
----- PROJECT NO: W963890.D -----
----- 601/602 SCAN -----
----- CONCENTRATIONS IN ug/l OF SAMPLE GAS -----

CONTINUING CALIBRATION CHECK

STANDARDS: "624"(LEVEL 2), "624"(LEVEL 1), "VC-996"
REFERENCE: W61A/B235, W61B236, W61A237

COMPOUND	KNOWN	RESULT	PERCENT DIFFERENCE
CHLOROMETHANE	43	45	4.36
VINYL CHLORIDE	2551	2498	2.11
BROMOMETHANE/CHLOROETHANE*	9	10	9.00
FLUOROTRICHLOROMETHANE	4.31	4.50	4.38
1,1 DICHLOROETHYLENE	4.31	4.84	10.85
METHYLENE CHLORIDE	7	7	2.06
TRANS-1,2 DICHLOROETHYLENE	4.3	4.8	10.36
1,1 DICHLOROETHANE	4.30	4.73	9.01
CHLOROFORM	4.31	4.72	8.70
1,1,1 TRICHLOROETHANE	4.32	4.67	7.40
CARBON TETRACHLORIDE	4.31	4.56	5.52
BENZENE & 1,2-DCA**	7.7	7.8	0.78
1,2 DICHLOROETHANE	4.30	4.58	6.03
TRICHLOROETHYLENE	4.31	4.75	9.40
1,2 DICHLOROPROPANE	4.31	4.40	2.21
BROMODICHLOROMETHANE	4.31	4.74	9.07
CIS-1,3 DICHLOROPROPYLENE	4.32	4.83	10.55
TOLUENE	4.3	4.3	0.00
TRANS-1,3 DICHLOROPROPYLENE	4.32	4.67	7.41
1,1,2 TRICHLOROETHANE	4.31	4.97	13.31
TETRACHLOROETHYLENE	4.29	4.61	6.90
CHLORODIBROMOMETHANE	4.31	4.78	9.82
CHLOROBENZENE	4.3	4.3	0.32
ETHYL BENZENE	4.3	4.4	1.98
BROMOFORM	4.31	4.79	9.96
1,1,2,2 TETRACHLOROETHANE	4.31	4.75	9.41
1,3 DICHLOROBENZENE	4.3	4.4	0.83
1,4 DICHLOROBENZENE	4.3	4.6	6.13
1,2 DICHLOROBENZENE	4.3	4.1	5.26

* COMPOUNDS ELUTE TOGETHER ON ECD: VALUES REPRESENT EITHER OR A COMBINATION OF BOTH.
** COMPOUNDS ELUTE TOGETHER ON FID - VALUE REPRESENTS A COMBINATION OF BOTH.

12-Apr-96

ANALYST INITIALS

LAB MANAGER INITIALS DOM

MICROSEEPS

TEI22A-962293

----- TRIAD ENGINEERING INC. ----
----- PROJECT LOC: CHRYSLER CORP., KENOSHA, WI. -----
----- PROJECT NO: W963890.D -----
----- CONCENTRATIONS IN ug/L SAMPLE GAS -----

SAMPLE NAME	PENTANE	HEXANE	HEPTANE	BENZENE	OCTANE	TOLUENE	NONANE	ETHYL BENZENE	M&P XYLENE	O-XYLENE	DECANE	TOTAL C4-C12	FILE NAME	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED
A3-BLDG-EFF	10.19	4.63	1.49	0.22	<.30	<.30	<.30	<.30	<.30	<.30	<.30	93.59	W61A238	04/08/96	04/09/96	04/10/96
A3-BLDG-INF	12.29	5.62	2.65	0.27	0.36	<.30	<.30	<.30	<.30	<.30	<.30	109.51	W61A239	04/08/96	04/09/96	04/10/96
A3-TRAIL-EFF	0.57	2.51	5.08	<.30	<.30	<.30	<.30	<.30	<.30	<.30	<.30	125.27	W61A240	04/08/96	04/09/96	04/10/96
A3-TRAIL-INF	42.50	201.28	576.53	<.30	<.30	<.30	<.30	<.30	<.30	45.60	<.30	10887.99	W61A241	04/08/96	04/09/96	04/10/96
SVE-SUMP9-EFF	8.01	6.24	7.09	<.30	1.80	<.30	<.30	<.30	<.30	<.30	<.30	121.35	W61A242	04/08/96	04/09/96	04/10/96
SVE-SUMP9-INF	5.78	4.55	4.91	<.30	1.79	<.30	0.37	<.30	<.30	<.30	<.30	85.54	W61A243	04/08/96	04/09/96	04/10/96
LDLs FOR ABOVE SAMPLES	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30				

12-Apr-96

ANALYST INITIALS

LAB MANAGER INITIALS DOM

MICROSEEPS

TEI22-962293

**** QUALITY CONTROL ****

----- TRIAD ENGINEERING INC. ----
----- PROJECT LOC: CHRYSLER CORP., KENOSHA, WI. -----
----- PROJECT NO: W963890.D -----
----- CONCENTRATIONS IN ug/L SAMPLE GAS -----

CONTINUING CALIBRATION CHECK

STANDARDS: "L4"(LEVEL 4), "220"
REFERENCE: W61A234, W61A222

COMPOUND	KNOWN ug/L	RESULT ug/L	PERCENT DIFFERENCE
PENTANE	293.04	295.73	0.92
HEXANE	397.30	392.59	1.19
HEPTANE	2.96	2.81	5.00
BENZENE	3.78	3.62	4.07
OCTANE	3.04	2.85	6.31
TOLUENE	3.74	3.40	8.99
NONANE	3.10	2.86	7.80
ETHYL BENZENE	3.74	3.50	6.51
M&P XYLENE	7.46	7.12	4.49
O-XYLENE	3.74	3.62	3.23
DECANE	3.15	2.85	9.63

LABORATORY BLANK RESULTS

BLANK: N2 IN VIAL
REFERENCE: W61A233

COMPOUND	BLANK ug/L	LOWER DETECTION LIMIT ug/L
PENTANE	ND	0.30
HEXANE	ND	0.30
HEPTANE	ND	0.30
BENZENE	ND	0.30
OCTANE	ND	0.30
TOLUENE	ND	0.30
NONANE	ND	0.30
ETHYL BENZENE	ND	0.30
M&P XYLENE	ND	0.30
O-XYLENE	ND	0.30
DECANE	ND	0.30

12-Apr-96

ANALYST INITIALS

LAB MANAGER INITIALS DOM

MICROSEEPS, Inc.

220 William Pitt Way, Pittsburgh, PA 15238

Phone: (412) 826-5245 Fax: (412) 826-3433

CHAIN-OF-CUSTODY RECORD

Company Name: TRIAD Engineering, Inc
Address: 325 E. Chicago st. Milwaukee, WI. 53202
Proj. Manager: Ross Creighton
Proj. Location: CHRYSLER
Proj. Number: 963890.D
Phone # : (414) 291-8840 Fax # : (414) 291-8841

Sampler's signature :

Note: Enter proper letters in Requested Analyses columns below.

Note: If analysis D,E,or K is selected, scratch (option) NOT wanted.

Analysis Options

* A	C1 -C4	G	Chlorinated HC
* B	Hydrogen & Helium	H	BTEX
* C	Permanent Gases (CH4, CO, CO2, N2, O2)	J	BTEX & C5 - C10
D	Mercury (Soil) or (Air **)	K	TPH ~~(C5-C10)~~ or (C4 -C12)
E	TO-14 by GC/MS (Ambient) or (Source **)	L	C11 - C18
F	601 & 602 Compounds	Other	Specify below.

* An additional 22 ml vial of sample is required when requested in combination with another analysis.

** Available upon request.

Collection Date	Collection Time	Number of Containers	"Summa" # if Can. used	Sample Type	Sample Identification	Requested Analyses					(Other)	Remarks
4-8	1220	2		AIR	AREA3-Bldg-INT	F	J	K				
4-8	1228	2		AIR	AREA3-Bldg-EFF	F	J	K				
4-8	1238	2		AIR	AREA3-TRAILER-INT	F	J	K				
4-8	1243	2		AIR	AREA3-Trailer-EFF	F	J	K				
4-8	1257	2		AIR	SUMP9-SVE-INF	F	J	K				
4-8	1305	2		AIR	SUMP1-SVE-EFF	F	J	K				please report results in micrograms per liter

Results to : ROSS CREIGHTON

Invoice to :

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	TRIAD	4-8-96	15:25		MICROSEEPS	4/9/96	
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Laboratory to return YELLOW COPY : Laboratory PINK COPY : Submitter

AIR STRIPPER INFLUENT AND EFFLUENT SAMPLE ANALYTICAL RESULTS

Note: Data from samples Equipblk, MW-11, MW-18, MW-1018 Trip Blank, and Tripblk are not included, as they do not pertain to this investigation.

COMPUCHEM
ENVIRONMENTAL
CORPORATION

SDG Narrative
Case#32037
SDG# 00076
Contract# Wisconsin GRO

SAMPLES IDENTIFICATIONS:SUMP14INF(791520) SUMP12INF(791526) SUMP11INF(791525) SUMP10INF(791527) SUMP10123(791530) SUMP9EFF(791532) SUMP13INF(791533) SUMP45EFF(791537) SUMP6INF(791538) SUMP2INEF(791528) SUMP6EFF(791529) SUMP15INF(791536) SUMP78145(791534) SUMP5INF(791524) SUMP9INF(791531) SUMP8INF(791535)

This narrative covers sixteen(16)water samples received on March 15 for gasoline range organics(GRO) by the state of Wisconsin method with the exceptions and/or additions in the attached Project Profile Sheet(PPS) #405. The samples were received intact, properly refrigerated, and with proper documentation.

The samples were analyzed within holding times.

All of the samples contained GRO organics above the Method Required Detection Limit(MRQL).

The blanks associated with these samples met detection limit criteria,and the Lab Control Sample(BS)/Lab Control Sample Duplicate(BSD) both had acceptable recoveries(101% and 119%) and RPD agreement.
All other QC acceptance criteria(initial and continuing calibration) were met.

Samples 791527, 791534, 791524, 791531, and 791535 were diluted to bring higher levels of GRO organics into the upper linnear range of the calibration curve.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

Roy M. Sutton
Development Chemist
March 26, 1996

COMPUCHEM
ENVIRONMENTAL
CORPORATION

CASE SUMMARY NARRATIVE
CASE #32176 SDG #00008

SAMPLES: SUMP-7, SUMP-8, 781415

Attached are pertinent analytical data dealing with the analyses of three (3) water samples associated with case #32176, SDG #00008. The samples were received intact on April 15, 1996 in properly sealed shipping containers with the corresponding chains-of-custody. The samples were logged into the CompuChem Laboratory Management system and scheduled for the analyses of the Total Petroleum Hydrocarbons (TPH) as Diesel Fuel.

TPH
The samples listed above were extracted and analyzed within the required holding time. TPH as Diesel Fuel was observed in all three samples at concentrations above the reporting limits.

QC SUMMARY
The surrogates met recovery criteria for the TPH extracts. The associated Laboratory Control Sample (PLCS81), blank, initial calibration and continuing calibrations met Quality Control criteria.

Release of the data contained in the hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature:

Patricia B. Hopkins
Technical Reviewer
24 April 1996

COMPUCHEM
ENVIRONMENTAL
CORPORATION

SDG NARRATIVE

Case # 32037
SDG # 00040
Protocol SW-846

Sample Identifications: EQUIPBLK, MW-11, MW-18, MW1018, SUMP10123, SUMP10INF, SUMP11INF, SUMP12INF, SUMP13INF, SUMP14INF, SUMP2INEF, SUMP5INF, SUMP6EFF, SUMP78145, SUMP7INF, SUMP8INF, SUMP9EFF, SUMP9INF, TRIPBLANK, TRIPBLK

The twenty liquid samples listed above were received properly refrigerated, with proper documentation, in sealed shipping containers, on March 14 through March 15, 1996. A number of the sample containers were received broken. However, enough containers were received intact for the requested analyses to be performed. The samples were scheduled for the requested analyses of the volatile fractions. These samples were analyzed following SW-846 Method 8260 protocol, with the exceptions and/or additions described in the attached Project Profile Sheet (PPS) # 405.

All pertinent Quality Assurance notices are included in the narrative section or the sample data sections, and all pertinent Laboratory notices for Case # 32037, SDG # 00040 are included in the sample data sections.

VOLATILES:
Analysis holding time requirements were met for all of these samples. The pH values of these samples are tabulated on the attached batch sheets.

There were a number of chlorinated hydrocarbon and/or aromatic hydrocarbon analytes identified varying concentrations in almost all of these samples. Tentatively Identified Compounds (TIC's) were not reported for these samples.

In the initial analysis of 25 mL SUMP9EFF, the on-column amount of benzene exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The sample was reanalyzed using a smaller aliquot of raw sample to bring the on-column amount into range. Both analyses have been reported.

Except for EQUIPBLK, SUMP12INF, SUMP14INF, SUMP2INEF, and SUMP9INF, the samples were analyzed using less than the method-specified 25 ml sample due to the levels of organic material present.

All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria. The method blanks contained levels of the common laboratory solvent methylene chloride which were within allowable limits.

MW-18 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes as well as the associated Laboratory Control Samples met overall accuracy and precision criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data contained in the hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sarah A Hubbard

Sarah A. Hubbard
Technical Reviewer
March 22, 1996

Note: This report is paginated for reference and accountability.

CompuChem Environmental Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, flag each result with the specific data reporting qualifiers listed below. Up to five qualifiers may be reported on Form I for each compound. The qualifiers to be used are:

U – This flag indicates the compound was analyzed for but not detected. The CRQL shall be adjusted to reflect any dilution and/or percent moisture.

J – This flag indicates an estimated value. This flag is used (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, and (3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3J.

N – This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N flag is not used.

P – This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a P.

C – This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag; use a laboratory-defined flag instead (see the X qualifier).

B – This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag shall be used for a tentatively identified compound as well as for a positively identified target compound.

The combination of flags BU or UB is expressly prohibited. Blank contaminants are flagged B only when they are detected in the sample.

E – This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range, the sample or extract shall be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range shall have the

(con't.)

DATA REPORTING QUALIFIERS

concentration flagged with an E on Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the DL suffix appended to the sample number.

D – This flag is used for all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is reanalyzed at a higher dilution factor, as in the E flag, the DL suffix is appended to the sample number on Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

A – This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.

X – Other specific flags may be required to properly define the results. If used, the flags shall be fully described, with the description attached to the sample data summary package and the SDG Narrative. Begin by using X. If more than one flag is required, use Y and Z as needed. If more than five qualifiers are required for a sample result, use the X flag to represent a combination of several flags. For instance, the X flag might combine the A, B, and D flags for some samples. The laboratory-defined flags are limited to X, Y, and Z.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP45EFF

Project: KENOSHA ENG — Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00070

Matrix: (soil/water) WATER — Lab Sample ID: 791515

Sample wt/vol: 25.0 (g/mL) ML — Lab File ID: CN091515A56.D

Level: (low/med) LOW — Date Received: 03/15/96

% Moisture: not dec. _____ — Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) — Dilution Factor: 6.8

Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	7		U
75-00-3	Chloroethane	3		U
75-09-2	Methylene Chloride	100	3	JB
75-35-4	1,1-Dichloroethene	5		U
75-34-3	1,1-Dichloroethane	3		U
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	7		U
75-27-4	Bromodichloromethane	3		U
79-01-6	Trichloroethene	5	6	
124-48-1	Dibromochloromethane	3		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
127-18-4	Tetrachloroethene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	3		U
108-88-3	Toluene	5	10	
108-90-7	Chlorobenzene	3		U
100-41-4	Ethylbenzene	3		U
106-93-4	1,2-Dibromoethane	5		U
96-12-8	1,2-Dibromo-3-Chloropropane	10		U
75-69-4	Trichlorofluoromethane	7		U
594-20-7	2,2-Dichloropropane	3		U
98-82-8	Isopropyl Benzene	5		U
108-86-1	Bromobenzene	3		U
95-49-8	2-Chlorotoluene	3		U
106-43-4	4-Chlorotoluene	3		U
108-67-8	1,3,5-Trimethyl Benzene	3		U
98-06-6	tert-Butyl Benzene	5		U
95-63-6	1,2,4-Trimethyl Benzene	3		U
135-98-8	sec-Butyl Benzene	5		U
541-73-1	1,3-Dichlorobenzene	3		U
106-46-7	1,4-Dichlorobenzene	3		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP45EFF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00070

Matrix: (soil/water) WATER | Lab Sample ID: 791515

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091515A56.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 6.8

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	5		U
95-50-1	1,2-Dichlorobenzene	3		U
104-51-8	n-Butyl Benzene	5		U
120-82-1	1,2,4-Trichlorobenzene	3		U
87-68-3	Hexachlorobutadiene	5		U
91-20-3	Naphthalene	5		U
78-87-5	1,2-Dichloropropane	5		U
142-28-9	1,3-Dichloropropane	5		U
103-65-1	n-Propyl Benzene	5		U
74-87-3	Chloromethane	7		U
87-61-6	1,2,3-Trichlorobenzene	5		U
75-71-8	Dichlorodifluoromethane	7		U
1634-04-4	Methyl-tert-butyl ether	5		U
156-60-5	trans-1,2-Dichloroethene	5		U
156-59-2	cis-1,2-Dichloroethene	3	89	
1330-20-7	Xylene (total)	3		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump45eff

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791537

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	GRO	0.048	J

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.
SUMP45EFF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791553

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.30	JB

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP6EFF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791505

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091505C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.9

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	2		U
75-00-3	Chloroethane	1		U
75-09-2	Methylene Chloride	29		U
75-35-4	1,1-Dichloroethene	1		U
75-34-3	1,1-Dichloroethane	1	0.5	J
67-66-3	Chloroform	1		U
107-06-2	1,2-Dichloroethane	1		U
71-55-6	1,1,1-Trichloroethane	1		U
56-23-5	Carbon Tetrachloride	2		U
75-27-4	Bromodichloromethane	1		U
79-01-6	Trichloroethene	1	18	
124-48-1	Dibromochloromethane	1		U
79-00-5	1,1,2-Trichloroethane	1		U
71-43-2	Benzene	1		U
127-18-4	Tetrachloroethene	1		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
108-88-3	Toluene	1		U
108-90-7	Chlorobenzene	1		U
100-41-4	Ethylbenzene	1		U
106-93-4	1,2-Dibromoethane	1		U
96-12-8	1,2-Dibromo-3-Chloropropane	3		U
75-69-4	Trichlorofluoromethane	2		U
594-20-7	2,2-Dichloropropane	1		U
98-82-8	Isopropyl Benzene	1		U
108-86-1	Bromobenzene	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
108-67-8	1,3,5-Trimethyl Benzene	1		U
98-06-6	tert-Butyl Benzene	1		U
95-63-6	1,2,4-Trimethyl Benzene	1		U
135-98-8	sec-Butyl Benzene	1		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	1		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO

SUMP6EFF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791505

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091505C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.9

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	1		U
95-50-1	1,2-Dichlorobenzene	1		U
104-51-8	n-Butyl Benzene	1		U
120-82-1	1,2,4-Trichlorobenzene	1		U
87-68-3	Hexachlorobutadiene	1		U
91-20-3	Naphthalene	1		U
78-87-5	1,2-Dichloropropane	1		U
142-28-9	1,3-Dichloropropane	1		U
103-65-1	n-Propyl Benzene	1		U
74-87-3	Chloromethane	2		U
87-61-6	1,2,3-Trichlorobenzene	1		U
75-71-8	Dichlorodifluoromethane	2		U
1634-04-4	Methyl-tert-butyl ether	1		U
156-60-5	trans-1,2-Dichloroethene	2	1	J
156-59-2	cis-1,2-Dichloroethene	1	33	
108-38-3	m,p-Xylene	1		U
95-47-6	o-Xylene	1		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump6eff

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791529

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted:02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	----------GRO	0.036	J

1D

EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP6EFF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791545

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/25/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.051	JB

FORM I TPHE

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP9EFFRE

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791508

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR091508C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 2.6

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q.
75-01-4	Vinyl Chloride	3		U
75-00-3	Chloroethane	1		U
75-09-2	Methylene Chloride	39		U
75-35-4	1,1-Dichloroethene	2		U
75-34-3	1,1-Dichloroethane	2		U
67-66-3	Chloroform	2		U
107-06-2	1,2-Dichloroethane	2		U
71-55-6	1,1,1-Trichloroethane	2		U
56-23-5	Carbon Tetrachloride	3		U
75-27-4	Bromodichloromethane	1		U
79-01-6	Trichloroethene	2		U
124-48-1	Dibromochloromethane	1		U
79-00-5	1,1,2-Trichloroethane	2		U
71-43-2	Benzene	2	57	
127-18-4	Tetrachloroethene	2		U
79-34-5	1,1,2,2-Tetrachloroethane	1		U
108-88-3	Toluene	2	3	
108-90-7	Chlorobenzene	1		U
100-41-4	Ethylbenzene	2	10	
106-93-4	1,2-Dibromoethane	2		U
96-12-8	1,2-Dibromo-3-Chloropropane	4		U
75-69-4	Trichlorofluoromethane	3		U
594-20-7	2,2-Dichloropropane	1		U
98-82-8	Isopropyl Benzene	2		U
108-86-1	Bromobenzene	1		U
95-49-8	2-Chlorotoluene	1		U
106-43-4	4-Chlorotoluene	1		U
108-67-8	1,3,5-Trimethyl Benzene	1	2	
98-06-6	tert-Butyl Benzene	2		U
95-63-6	1,2,4-Trimethyl Benzene	1	4	
135-98-8	sec-Butyl Benzene	2		U
541-73-1	1,3-Dichlorobenzene	1		U
106-46-7	1,4-Dichlorobenzene	2		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP9EFFRE

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791508

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR091508C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 | ID: 0.53 (mm) | Dilution Factor: 2.6

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	2		U
95-50-1	1,2-Dichlorobenzene	1		U
104-51-8	n-Butyl Benzene	2		U
120-82-1	1,2,4-Trichlorobenzene	1		U
87-68-3	Hexachlorobutadiene	2		U
91-20-3	Naphthalene	2	5	
78-87-5	1,2-Dichloropropane	2		U
142-28-9	1,3-Dichloropropane	2		U
103-65-1	n-Propyl Benzene	2		U
74-87-3	Chloromethane	3		U
87-61-6	1,2,3-Trichlorobenzene	2		U
75-71-8	Dichlorodifluoromethane	3		U
1634-04-4	Methyl-tert-butyl ether	2		U
156-60-5	trans-1,2-Dichloroethene	3		U
156-59-2	cis-1,2-Dichloroethene	1		U
108-38-3	m,p-Xylene	2	8	
95-47-6	o-Xylene	1	2	

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump9eff

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 000786

Matrix: (soil/water) WATER Lab Sample ID: 791532

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____ PJ

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96 3/26/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	----------GRO	0.12	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.
SUMP9EFF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791548

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.45	JB

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP10123

Project: KENOSHA ENG

Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00040

Matrix: (soil/water) WATER

Lab Sample ID: 791506

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN091506C57.D

Level: (low/med) LOW

Date Received: 03/15/96

% Moisture: not dec. _____

Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm)

Dilution Factor: 25.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	25	39	
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	380	7	JB
75-35-4	1,1-Dichloroethene	19		U
75-34-3	1,1-Dichloroethane	19		U
67-66-3	Chloroform	19		U
107-06-2	1,2-Dichloroethane	19		U
71-55-6	1,1,1-Trichloroethane	19		U
56-23-5	Carbon Tetrachloride	25		U
75-27-4	Bromodichloromethane	12		U
79-01-6	Trichloroethene	19	270	
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	19		U
71-43-2	Benzene	19	50	
127-18-4	Tetrachloroethene	19		U
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-88-3	Toluene	19		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	19		U
106-93-4	1,2-Dibromoethane	19		U
96-12-8	1,2-Dibromo-3-Chloropropane	38		U
75-69-4	Trichlorofluoromethane	25		U
594-20-7	2,2-Dichloropropane	12		U
98-82-8	Isopropyl Benzene	19		U
108-86-1	Bromobenzene	12		U
95-49-8	2-Chlorotoluene	12		U
106-43-4	4-Chlorotoluene	12		U
108-67-8	1,3,5-Trimethyl Benzene	12		U
98-06-6	tert-Butyl Benzene	19		U
95-63-6	1,2,4-Trimethyl Benzene	12		U
135-98-8	sec-Butyl Benzene	19		U
541-73-1	1,3-Dichlorobenzene	12		U
106-46-7	1,4-Dichlorobenzene	19		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP10123

Project: KENOSHA ENG

Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00040

Matrix: (soil/water) WATER

Lab Sample ID: 791506

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN091506C57.D

Level: (low/med) LOW

Date Received: 03/15/96

% Moisture: not dec. _____

Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm)

Dilution Factor: 25.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	19		U
95-50-1	1,2-Dichlorobenzene	12		U
104-51-8	n-Butyl Benzene	19		U
120-82-1	1,2,4-Trichlorobenzene	12		U
87-68-3	Hexachlorobutadiene	19		U
91-20-3	Naphthalene	19		U
78-87-5	1,2-Dichloropropane	19		U
142-28-9	1,3-Dichloropropane	19		U
103-65-1	n-Propyl Benzene	19		U
74-87-3	Chloromethane	25		U
87-61-6	1,2,3-Trichlorobenzene	19		U
75-71-8	Dichlorodifluoromethane	25		U
1634-04-4	Methyl-tert-butyl ether	19		U
156-60-5	trans-1,2-Dichloroethene	25	49	
156-59-2	cis-1,2-Dichloroethene	12	330	
108-38-3	m,p-Xylene	19		U
95-47-6	o-Xylene	12		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump10123

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791530

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96 AF 3/26/96

Extraction: (SepF/Cont/Sonc) P&T Date Extracted: ~~02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.19	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.
SUMP10123

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791546

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/25/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.87	B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

781415

Project: KENOSHA ENG — Date Sampled: 04/12/96

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00001

Matrix: (soil/water) WATER — Lab Sample ID: 797134

Sample wt/vol: 25.0 (g/mL) ML — Lab File ID: CN097134B57.D

Level: (low/med) LOW — Date Received: 04/15/96

% Moisture: not dec. _____ — Date Analyzed: 04/18/96

GC Column:DB624 ID: 0.53 (mm) — Dilution Factor: 10.0

Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	100	19	J
75-00-3	Chloroethane	100		U
75-09-2	Methylene Chloride	100	7	JB
75-35-4	1,1-Dichloroethene	100		U
75-34-3	1,1-Dichloroethane	100	4	J
67-66-3	Chloroform	100		U
107-06-2	1,2-Dichloroethane	100		U
71-55-6	1,1,1-Trichloroethane	100		U
56-23-5	Carbon Tetrachloride	100		U
75-27-4	Bromodichloromethane	100		U
79-01-6	Trichloroethene	100	57	J
124-48-1	Dibromochloromethane	100		U
79-00-5	1,1,2-Trichloroethane	100		U
71-43-2	Benzene	100		U
127-18-4	Tetrachloroethene	100		U
79-34-5	1,1,2,2-Tetrachloroethane	100		U
108-88-3	Toluene	100		U
108-90-7	Chlorobenzene	100		U
100-41-4	Ethylbenzene	100		U
106-93-4	1,2-Dibromoethane	100		U
96-12-8	1,2-Dibromo-3-Chloropropane	100		U
75-69-4	Trichlorofluoromethane	100		U
594-20-7	2,2-Dichloropropane	100		U
98-82-8	Isopropyl Benzene	100		U
108-86-1	Bromobenzene	100		U
95-49-8	2-Chlorotoluene	100		U
106-43-4	4-Chlorotoluene	100		U
108-67-8	1,3,5-Trimethyl Benzene	100		U
98-06-6	tert-Butyl Benzene	100		U
95-63-6	1,2,4-Trimethyl Benzene	100		U
135-98-8	sec-Butyl Benzene	100		U
541-73-1	1,3-Dichlorobenzene	100		U
106-46-7	1,4-Dichlorobenzene	100		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

781415

Project: KENOSHA ENG | Date Sampled: 04/12/96

Lab Code: COMPU | Case No.: 32176 | SAS No.: | SDG No.: 00001

Matrix: (soil/water) WATER | Lab Sample ID: 797134

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN097134B57.D

Level: (low/med) LOW | Date Received: 04/15/96

% Moisture: not dec. _____ | Date Analyzed: 04/18/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 10.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	100		U
95-50-1	1,2-Dichlorobenzene	100		U
104-51-8	n-Butyl Benzene	100		U
120-82-1	1,2,4-Trichlorobenzene	100		U
87-68-3	Hexachlorobutadiene	100		U
91-20-3	Naphthalene	100		U
78-87-5	1,2-Dichloropropane	100		U
142-28-9	1,3-Dichloropropane	100		U
103-65-1	n-Propyl Benzene	100		U
74-87-3	Chloromethane	100		U
87-61-6	1,2,3-Trichlorobenzene	100		U
75-71-8	Dichlorodifluoromethane	100		U
1634-04-4	Methyl-tert-butyl ether	100		U
540-59-0	1,2-Dichloroethene (total)	100	190	
1330-20-7	Xylene (total)	300		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

781415

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 797154

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: TP58D232

Level: (low/med) LOW Date Received: 04/15/96

% Moisture: not dec. _____ Date Analyzed: 04/19/96

GC Column:RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.066	J

1D

EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

781415

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00008

Matrix: (soil/water) WATER Lab Sample ID: 797162

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 04/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	2.2	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP2INEF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791504

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: C2R91504A57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 | ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.9	JB
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.8		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
79-01-6	Trichloroethene	0.8		U
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8	0.9	
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.8	0.3	J
106-93-4	1,2-Dibromoethane	0.8		U
96-12-8	1,2-Dibromo-3-Chloropropane	2		U
75-69-4	Trichlorofluoromethane	1		U
594-20-7	2,2-Dichloropropane	0.5		U
98-82-8	Isopropyl Benzene	0.8	1	
108-86-1	Bromobenzene	0.5		U
95-49-8	2-Chlorotoluene	0.5		U
106-43-4	4-Chlorotoluene	0.5		U
108-67-8	1,3,5-Trimethyl Benzene	0.5	0.4	J
98-06-6	tert-Butyl Benzene	0.8		U
95-63-6	1,2,4-Trimethyl Benzene	0.5	0.3	J
135-98-8	sec-Butyl Benzene	0.8	1	
541-73-1	1,3-Dichlorobenzene	0.5		U
106-46-7	1,4-Dichlorobenzene	0.8		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP2INEF

Project: KENOSHA ENG Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00040

Matrix: (soil/water) WATER Lab Sample ID: 791504

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R91504A57.D

Level: (low/med) LOW Date Received: 03/15/96

% Moisture: not dec. _____ Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	0.8	0.6	J
95-50-1	1,2-Dichlorobenzene	0.5		U
104-51-8	n-Butyl Benzene	0.8		U
120-82-1	1,2,4-Trichlorobenzene	0.5		U
87-68-3	Hexachlorobutadiene	0.8		U
91-20-3	Naphthalene	0.8		U
78-87-5	1,2-Dichloropropane	0.8		U
142-28-9	1,3-Dichloropropane	0.8		U
103-65-1	n-Propyl Benzene	0.8	1	
74-87-3	Chloromethane	1		U
87-61-6	1,2,3-Trichlorobenzene	0.8		U
75-71-8	Dichlorodifluoromethane	1		U
1634-04-4	Methyl-tert-butyl ether	0.8		U
156-60-5	trans-1,2-Dichloroethene	1		U
156-59-2	cis-1,2-Dichloroethene	0.5		U
108-38-3	m,p-Xylene	0.8	0.3	J
95-47-6	o-Xylene	0.5		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump2inef

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791528

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	----------GRO	0.095	J

AJ 3/26/96

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP2INEF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791544

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/25/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	3.1	B

FORM I TPHE

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP5INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791499

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR091499C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 | ID: 0.53 (mm) | Dilution Factor: 1388.9

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	1400	1900	
75-00-3	Chloroethane	690		U
75-09-2	Methylene Chloride	21000	450	JB
75-35-4	1,1-Dichloroethene	1000		U
75-34-3	1,1-Dichloroethane	1000		U
67-66-3	Chloroform	1000		U
107-06-2	1,2-Dichloroethane	1000		U
71-55-6	1,1,1-Trichloroethane	1000		U
56-23-5	Carbon Tetrachloride	1400		U
75-27-4	Bromodichloromethane	690		U
79-01-6	Trichloroethene	1000	3900	
124-48-1	Dibromochloromethane	690		U
79-00-5	1,1,2-Trichloroethane	1000		U
71-43-2	Benzene	1000		U
127-18-4	Tetrachloroethene	1000		U
79-34-5	1,1,2,2-Tetrachloroethane	690		U
108-88-3	Toluene	1000	3200	
108-90-7	Chlorobenzene	690		U
100-41-4	Ethylbenzene	1000		U
106-93-4	1,2-Dibromoethane	1000		U
96-12-8	1,2-Dibromo-3-Chloropropane	2100		U
75-69-4	Trichlorofluoromethane	1400		U
594-20-7	2,2-Dichloropropane	690		U
98-82-8	Isopropyl Benzene	1000		U
108-86-1	Bromobenzene	690		U
95-49-8	2-Chlorotoluene	690		U
106-43-4	4-Chlorotoluene	690		U
108-67-8	1,3,5-Trimethyl Benzene	690		U
98-06-6	tert-Butyl Benzene	1000		U
95-63-6	1,2,4-Trimethyl Benzene	690		U
135-98-8	sec-Butyl Benzene	1000		U
541-73-1	1,3-Dichlorobenzene	690		U
106-46-7	1,4-Dichlorobenzene	1000		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP5INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791499

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR091499C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1388.9

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	1000		U
95-50-1	1,2-Dichlorobenzene	690		U
104-51-8	n-Butyl Benzene	1000		U
120-82-1	1,2,4-Trichlorobenzene	690		U
87-68-3	Hexachlorobutadiene	1000		U
91-20-3	Naphthalene	1000		U
78-87-5	1,2-Dichloropropane	1000		U
142-28-9	1,3-Dichloropropane	1000		U
103-65-1	n-Propyl Benzene	1000		U
74-87-3	Chloromethane	1400		U
87-61-6	1,2,3-Trichlorobenzene	1000		U
75-71-8	Dichlorodifluoromethane	1400		U
1634-04-4	Methyl-tert-butyl ether	1000		U
156-60-5	trans-1,2-Dichloroethene	1400		U
156-59-2	cis-1,2-Dichloroethene	690	28000	
108-38-3	m,p-Xylene	1000		U
95-47-6	o-Xylene	690		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump5inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791524

Sample wt/vol: 0.3 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	7.1	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP5INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791540

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	1.1	B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP6INF

Project: KENOSHA ENGINE | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00070

Matrix: (soil/water) WATER | Lab Sample ID: 791516

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091516A56.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 27.8

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	28		U
75-00-3	Chloroethane	14		U
75-09-2	Methylene Chloride	420	13	JB
75-35-4	1,1-Dichloroethene	21		U
75-34-3	1,1-Dichloroethane	14		U
67-66-3	Chloroform	21		U
107-06-2	1,2-Dichloroethane	21		U
71-55-6	1,1,1-Trichloroethane	21		U
56-23-5	Carbon Tetrachloride	28		U
75-27-4	Bromodichloromethane	14		U
79-01-6	Trichloroethene	21	570	
124-48-1	Dibromochloromethane	14		U
79-00-5	1,1,2-Trichloroethane	21		U
71-43-2	Benzene	21		U
127-18-4	Tetrachloroethene	21		U
79-34-5	1,1,2,2-Tetrachloroethane	14		U
108-88-3	Toluene	21		U
108-90-7	Chlorobenzene	14		U
100-41-4	Ethylbenzene	14		U
106-93-4	1,2-Dibromoethane	21		U
96-12-8	1,2-Dibromo-3-Chloropropane	42		U
75-69-4	Trichlorofluoromethane	28		U
594-20-7	2,2-Dichloropropane	14		U
98-82-8	Isopropyl Benzene	21		U
108-86-1	Bromobenzene	14		U
95-49-8	2-Chlorotoluene	14		U
106-43-4	4-Chlorotoluene	14		U
108-67-8	1,3,5-Trimethyl Benzene	14		U
98-06-6	tert-Butyl Benzene	21		U
95-63-6	1,2,4-Trimethyl Benzene	14		U
135-98-8	sec-Butyl Benzene	21		U
541-73-1	1,3-Dichlorobenzene	14		U
106-46-7	1,4-Dichlorobenzene	14		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP6INF

Project: KENOSHA ENGINE — Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00070

Matrix: (soil/water) WATER — Lab Sample ID: 791516

Sample wt/vol: 25.0 (g/mL) ML — Lab File ID: CN091516A56.D

Level: (low/med) LOW — Date Received: 03/15/96

% Moisture: not dec. _____ — Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) — Dilution Factor: 27.8

Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	21		U
95-50-1	1,2-Dichlorobenzene	14		U
104-51-8	n-Butyl Benzene	21		U
120-82-1	1,2,4-Trichlorobenzene	14		U
87-68-3	Hexachlorobutadiene	21		U
91-20-3	Naphthalene	21		U
78-87-5	1,2-Dichloropropane	21		U
142-28-9	1,3-Dichloropropane	21		U
103-65-1	n-Propyl Benzene	21		U
74-87-3	Chloromethane	28		U
87-61-6	1,2,3-Trichlorobenzene	21		U
75-71-8	Dichlorodifluoromethane	28		U
1634-04-4	Methyl-tert-butyl ether	21		U
156-60-5	trans-1,2-Dichloroethene	21	49	
156-59-2	cis-1,2-Dichloroethene	14	450	
1330-20-7	Xylene (total)	14		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump6inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791538

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.29	

1D

EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP6INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791554

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.24	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP-7

Project: KENOSHA ENG | Date Sampled: 04/12/96

Lab Code: COMPU | Case No.: 32176 | SAS No.: | SDG No.: 00001

Matrix: (soil/water) WATER | Lab Sample ID: 797129

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR097129C57.D

Level: (low/med) LOW | Date Received: 04/15/96

% Moisture: not dec. _____ | Date Analyzed: 04/18/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 31.2

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	310	73	J
75-00-3	Chloroethane	310		U
75-09-2	Methylene Chloride	310	21	JB
75-35-4	1,1-Dichloroethene	310		U
75-34-3	1,1-Dichloroethane	310	16	J
67-66-3	Chloroform	310		U
107-06-2	1,2-Dichloroethane	310		U
71-55-6	1,1,1-Trichloroethane	310		U
56-23-5	Carbon Tetrachloride	310		U
75-27-4	Bromodichloromethane	310		U
79-01-6	Trichloroethene	310	240	J
124-48-1	Dibromochloromethane	310		U
79-00-5	1,1,2-Trichloroethane	310		U
71-43-2	Benzene	310		U
127-18-4	Tetrachloroethene	310		U
79-34-5	1,1,2,2-Tetrachloroethane	310		U
108-88-3	Toluene	310		U
108-90-7	Chlorobenzene	310		U
100-41-4	Ethylbenzene	310		U
106-93-4	1,2-Dibromoethane	310		U
96-12-8	1,2-Dibromo-3-Chloropropane	310		U
75-69-4	Trichlorofluoromethane	310		U
594-20-7	2,2-Dichloropropane	310		U
98-82-8	Isopropyl Benzene	310		U
108-86-1	Bromobenzene	310		U
95-49-8	2-Chlorotoluene	310		U
106-43-4	4-Chlorotoluene	310		U
108-67-8	1,3,5-Trimethyl Benzene	310		U
98-06-6	tert-Butyl Benzene	310		U
95-63-6	1,2,4-Trimethyl Benzene	310		U
135-98-8	sec-Butyl Benzene	310		U
541-73-1	1,3-Dichlorobenzene	310		U
106-46-7	1,4-Dichlorobenzene	310		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP-7

Project: KENOSHA ENG | Date Sampled: 04/12/96

Lab Code: COMPU | Case No.: 32176 | SAS No.: | SDG No.: 00001

Matrix: (soil/water) WATER | Lab Sample ID: 797129

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR097129C57.D

Level: (low/med) LOW | Date Received: 04/15/96

% Moisture: not dec. _____ | Date Analyzed: 04/18/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 31.2

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	310		U
95-50-1	1,2-Dichlorobenzene	310		U
104-51-8	n-Butyl Benzene	310		U
120-82-1	1,2,4-Trichlorobenzene	310		U
87-68-3	Hexachlorobutadiene	310		U
91-20-3	Naphthalene	310		U
78-87-5	1,2-Dichloropropane	310		U
142-28-9	1,3-Dichloropropane	310		U
103-65-1	n-Propyl Benzene	310		U
74-87-3	Chloromethane	310		U
87-61-6	1,2,3-Trichlorobenzene	310		U
75-71-8	Dichlorodifluoromethane	310		U
1634-04-4	Methyl-tert-butyl ether	310		U
540-59-0	1,2-Dichloroethene (total)	310	630	
1330-20-7	Xylene (total)	940		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SUMP-7

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 797148

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: TP58D231

Level: (low/med) LOW Date Received: 04/15/96

% Moisture: not dec. _____ Date Analyzed: 04/19/96

GC Column:RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.35	

1D

EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP-7

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00008

Matrix: (soil/water) WATER Lab Sample ID: 797156

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 04/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	5.0	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP-8

Project: KENOSHA ENG | Date Sampled: 04/12/96

Lab Code: COMPU | Case No.: 32176 | SAS No.: | SDG No.: 00001

Matrix: (soil/water) WATER | Lab Sample ID: 797132

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: C3R97132C57.D

Level: (low/med) LOW | Date Received: 04/15/96

% Moisture: not dec. _____ | Date Analyzed: 04/18/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1250.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	12000	3000	J
75-00-3	Chloroethane	12000		U
75-09-2	Methylene Chloride	12000	1100	JB
75-35-4	1,1-Dichloroethene	12000		U
75-34-3	1,1-Dichloroethane	12000	500	J
67-66-3	Chloroform	12000		U
107-06-2	1,2-Dichloroethane	12000		U
71-55-6	1,1,1-Trichloroethane	12000		U
56-23-5	Carbon Tetrachloride	12000		U
75-27-4	Bromodichloromethane	12000		U
79-01-6	Trichloroethene	12000	9000	J
124-48-1	Dibromochloromethane	12000		U
79-00-5	1,1,2-Trichloroethane	12000		U
71-43-2	Benzene	12000		U
127-18-4	Tetrachloroethene	12000		U
79-34-5	1,1,2,2-Tetrachloroethane	12000		U
108-88-3	Toluene	12000		U
108-90-7	Chlorobenzene	12000		U
100-41-4	Ethylbenzene	12000		U
106-93-4	1,2-Dibromoethane	12000		U
96-12-8	1,2-Dibromo-3-Chloropropane	12000		U
75-69-4	Trichlorofluoromethane	12000		U
594-20-7	2,2-Dichloropropane	12000		U
98-82-8	Isopropyl Benzene	12000		U
108-86-1	Bromobenzene	12000		U
95-49-8	2-Chlorotoluene	12000		U
106-43-4	4-Chlorotoluene	12000		U
108-67-8	1,3,5-Trimethyl Benzene	12000		U
98-06-6	tert-Butyl Benzene	12000		U
95-63-6	1,2,4-Trimethyl Benzene	12000		U
135-98-8	sec-Butyl Benzene	12000		U
541-73-1	1,3-Dichlorobenzene	12000		U
106-46-7	1,4-Dichlorobenzene	12000		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP-8

Project: KENOSHA ENG Date Sampled: 04/12/96

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00001

Matrix: (soil/water) WATER Lab Sample ID: 797132

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C3R97132C57.D

Level: (low/med) LOW Date Received: 04/15/96

% Moisture: not dec. _____ Date Analyzed: 04/18/96

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1250.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	12000		U
95-50-1	1,2-Dichlorobenzene	12000		U
104-51-8	n-Butyl Benzene	12000		U
120-82-1	1,2,4-Trichlorobenzene	12000		U
87-68-3	Hexachlorobutadiene	12000		U
91-20-3	Naphthalene	12000		U
78-87-5	1,2-Dichloropropane	12000		U
142-28-9	1,3-Dichloropropane	12000		U
103-65-1	n-Propyl Benzene	12000		U
74-87-3	Chloromethane	12000		U
87-61-6	1,2,3-Trichlorobenzene	12000		U
75-71-8	Dichlorodifluoromethane	12000		U
1634-04-4	Methyl-tert-butyl ether	12000		U
540-59-0	1,2-Dichloroethene (total)	12000	24000	
1330-20-7	Xylene (total)	38000		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SUMP-8

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00005

Matrix: (soil/water) WATER Lab Sample ID: 797152

Sample wt/vol: 0.2 (g/ml) ML Lab File ID: TP58D236

Level: (low/med) LOW Date Received: 04/15/96

% Moisture: not dec. _____ Date Analyzed: 04/19/96

GC Column:RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	11	

1D

EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP-8

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32176 SAS No.: SDG No.: 00008

Matrix: (soil/water) WATER Lab Sample ID: 797160

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 04/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 04/16/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/19/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.69	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP9INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791507

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091507C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 100.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	100		U
75-00-3	Chloroethane	50		U
75-09-2	Methylene Chloride	1500	27	JB
75-35-4	1,1-Dichloroethene	75		U
75-34-3	1,1-Dichloroethane	75		U
67-66-3	Chloroform	75		U
107-06-2	1,2-Dichloroethane	75		U
71-55-6	1,1,1-Trichloroethane	75		U
56-23-5	Carbon Tetrachloride	100		U
75-27-4	Bromodichloromethane	50		U
79-01-6	Trichloroethene	75		U
124-48-1	Dibromochloromethane	50		U
79-00-5	1,1,2-Trichloroethane	75		U
71-43-2	Benzene	75	1600	
127-18-4	Tetrachloroethene	75		U
79-34-5	1,1,2,2-Tetrachloroethane	50		U
108-88-3	Toluene	75	81	
108-90-7	Chlorobenzene	50		U
100-41-4	Ethylbenzene	75	280	
106-93-4	1,2-Dibromoethane	75		U
96-12-8	1,2-Dibromo-3-Chloropropane	150		U
75-69-4	Trichlorofluoromethane	100		U
594-20-7	2,2-Dichloropropane	50		U
98-82-8	Isopropyl Benzene	75		U
108-86-1	Bromobenzene	50		U
95-49-8	2-Chlorotoluene	50		U
106-43-4	4-Chlorotoluene	50		U
108-67-8	1,3,5-Trimethyl Benzene	50	46	J
98-06-6	tert-Butyl Benzene	75		U
95-63-6	1,2,4-Trimethyl Benzene	50	83	
135-98-8	sec-Butyl Benzene	75		U
541-73-1	1,3-Dichlorobenzene	50		U
106-46-7	1,4-Dichlorobenzene	75		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP9INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791507

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091507C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 100.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	75		U
95-50-1	1,2-Dichlorobenzene	50		U
104-51-8	n-Butyl Benzene	75		U
120-82-1	1,2,4-Trichlorobenzene	50		U
87-68-3	Hexachlorobutadiene	75		U
91-20-3	Naphthalene	75		U
78-87-5	1,2-Dichloropropane	75		U
142-28-9	1,3-Dichloropropane	75		U
103-65-1	n-Propyl Benzene	75		U
74-87-3	Chloromethane	100		U
87-61-6	1,2,3-Trichlorobenzene	75		U
75-71-8	Dichlorodifluoromethane	100		U
1634-04-4	Methyl-tert-butyl ether	75		U
156-60-5	trans-1,2-Dichloroethene	100		U
156-59-2	cis-1,2-Dichloroethene	50		U
108-38-3	m,p-Xylene	75	180	
95-47-6	o-Xylene	50	29	J

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump9inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791531

Sample wt/vol: 1.0 (g/ml) ML Lab File ID: TP58D175

Level: (low/med) LOW Date Received: ~~02/22/95~~ 03/15/96 & 3/26/96

% Moisture: not dec. _____ Date Analyzed: 03/25/96

GC Column:RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	----------GRO	3.3	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP9INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791547

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	1.6	B

FORM I TPHE

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP10INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791503

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR091503C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 | ID: 0.53 (mm) | Dilution Factor: 100.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	100	770	
75-00-3	Chloroethane	50	44	J
75-09-2	Methylene Chloride	1500	31	JB
75-35-4	1,1-Dichloroethene	75		U
75-34-3	1,1-Dichloroethane	75	30	J
67-66-3	Chloroform	75		U
107-06-2	1,2-Dichloroethane	75		U
71-55-6	1,1,1-Trichloroethane	75		U
56-23-5	Carbon Tetrachloride	100		U
75-27-4	Bromodichloromethane	50		U
79-01-6	Trichloroethene	75	1700	
124-48-1	Dibromochloromethane	50		U
79-00-5	1,1,2-Trichloroethane	75		U
71-43-2	Benzene	75		U
127-18-4	Tetrachloroethene	75		U
79-34-5	1,1,2,2-Tetrachloroethane	50		U
108-88-3	Toluene	75		U
108-90-7	Chlorobenzene	50		U
100-41-4	Ethylbenzene	75		U
106-93-4	1,2-Dibromoethane	75		U
96-12-8	1,2-Dibromo-3-Chloropropane	150		U
75-69-4	Trichlorofluoromethane	100		U
594-20-7	2,2-Dichloropropane	50		U
98-82-8	Isopropyl Benzene	75		U
108-86-1	Bromobenzene	50		U
95-49-8	2-Chlorotoluene	50		U
106-43-4	4-Chlorotoluene	50		U
108-67-8	1,3,5-Trimethyl Benzene	50		U
98-06-6	tert-Butyl Benzene	75		U
95-63-6	1,2,4-Trimethyl Benzene	50		U
135-98-8	sec-Butyl Benzene	75		U
541-73-1	1,3-Dichlorobenzene	50		U
106-46-7	1,4-Dichlorobenzene	75		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP10INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791503

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CR091503C57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 100.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	75		U
95-50-1	1,2-Dichlorobenzene	50		U
104-51-8	n-Butyl Benzene	75		U
120-82-1	1,2,4-Trichlorobenzene	50		U
87-68-3	Hexachlorobutadiene	75		U
91-20-3	Naphthalene	75		U
78-87-5	1,2-Dichloropropane	75		U
142-28-9	1,3-Dichloropropane	75		U
103-65-1	n-Propyl Benzene	75		U
74-87-3	Chloromethane	100		U
87-61-6	1,2,3-Trichlorobenzene	75		U
75-71-8	Dichlorodifluoromethane	100		U
1634-04-4	Methyl-tert-butyl ether	75		U
156-60-5	trans-1,2-Dichloroethene	100	450	
156-59-2	cis-1,2-Dichloroethene	50	1000	
108-38-3	m,p-Xylene	75		U
95-47-6	o-Xylene	50		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump10inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791527

Sample wt/vol: 2.5 (g/ml) ML Lab File ID: TP58D174

Level: (low/med) LOW Date Received: ~~02/22/95~~ 03/15/96 AA 3/26/96

% Moisture: not dec. _____ Date Analyzed: 03/25/96

GC Column:RTX-502.2 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	-GRO	0.75	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP10INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791543

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/25/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	2.7	B

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP11INF

Project: KENOSHA ENG Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00040

Matrix: (soil/water) WATER Lab Sample ID: 791500

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN091500A57.D

Level: (low/med) LOW Date Received: 03/15/96

% Moisture: not dec. _____ Date Analyzed: 03/20/96

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 43.9

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	44	98	
75-00-3	Chloroethane	22		U
75-09-2	Methylene Chloride	660		U
75-35-4	1,1-Dichloroethene	33		U
75-34-3	1,1-Dichloroethane	33		U
67-66-3	Chloroform	33		U
107-06-2	1,2-Dichloroethane	33		U
71-55-6	1,1,1-Trichloroethane	33		U
56-23-5	Carbon Tetrachloride	44		U
75-27-4	Bromodichloromethane	22		U
79-01-6	Trichloroethene	33	310	
124-48-1	Dibromochloromethane	22		U
79-00-5	1,1,2-Trichloroethane	33		U
71-43-2	Benzene	33	370	
127-18-4	Tetrachloroethene	33		U
79-34-5	1,1,2,2-Tetrachloroethane	22		U
108-88-3	Toluene	33	18	J
108-90-7	Chlorobenzene	22		U
100-41-4	Ethylbenzene	33	13	J
106-93-4	1,2-Dibromoethane	33		U
96-12-8	1,2-Dibromo-3-Chloropropane	66		U
75-69-4	Trichlorofluoromethane	44		U
594-20-7	2,2-Dichloropropane	22		U
98-82-8	Isopropyl Benzene	33		U
108-86-1	Bromobenzene	22		U
95-49-8	2-Chlorotoluene	22		U
106-43-4	4-Chlorotoluene	22		U
108-67-8	1,3,5-Trimethyl Benzene	22		U
98-06-6	tert-Butyl Benzene	33		U
95-63-6	1,2,4-Trimethyl Benzene	22		U
135-98-8	sec-Butyl Benzene	33		U
541-73-1	1,3-Dichlorobenzene	22		U
106-46-7	1,4-Dichlorobenzene	33		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP11INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791500

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091500A57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/20/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 43.9

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	33		U
95-50-1	1,2-Dichlorobenzene	22		U
104-51-8	n-Butyl Benzene	33		U
120-82-1	1,2,4-Trichlorobenzene	22		U
87-68-3	Hexachlorobutadiene	33		U
91-20-3	Naphthalene	33		U
78-87-5	1,2-Dichloropropane	33		U
142-28-9	1,3-Dichloropropane	33		U
103-65-1	n-Propyl Benzene	33		U
74-87-3	Chloromethane	44		U
87-61-6	1,2,3-Trichlorobenzene	33		U
75-71-8	Dichlorodifluoromethane	44		U
1634-04-4	Methyl-tert-butyl ether	33		U
156-60-5	trans-1,2-Dichloroethene	44	13	J
156-59-2	cis-1,2-Dichloroethene	22	820	
108-38-3	m,p-Xylene	33	19	J
95-47-6	o-Xylene	22		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump11inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791525

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96 AT 3/26/96

Extraction: (SepF/Cont/Sonc) P&T Date Extracted: ~~02/24/95~~

Concentrated Extract Volume: _____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.67	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP11INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791541

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.098	JB

FORM I TPHE

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP12INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791502

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091502A57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/20/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	1	0.4	J
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.3	J
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.8	0.8	
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
79-01-6	Trichloroethene	0.8	0.3	J
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.8		U
106-93-4	1,2-Dibromoethane	0.8		U
96-12-8	1,2-Dibromo-3-Chloropropane	2		U
75-69-4	Trichlorofluoromethane	1		U
594-20-7	2,2-Dichloropropane	0.5		U
98-82-8	Isopropyl Benzene	0.8		U
108-86-1	Bromobenzene	0.5		U
95-49-8	2-Chlorotoluene	0.5		U
106-43-4	4-Chlorotoluene	0.5		U
108-67-8	1,3,5-Trimethyl Benzene	0.5		U
98-06-6	tert-Butyl Benzene	0.8		U
95-63-6	1,2,4-Trimethyl Benzene	0.5		U
135-98-8	sec-Butyl Benzene	0.8		U
541-73-1	1,3-Dichlorobenzene	0.5		U
106-46-7	1,4-Dichlorobenzene	0.8		U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP12INF

Project: KENOSHA ENG Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00040

Matrix: (soil/water) WATER Lab Sample ID: 791502

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN091502A57.D

Level: (low/med) LOW Date Received: 03/15/96

% Moisture: not dec. _____ Date Analyzed: 03/20/96

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	0.8		U
95-50-1	1,2-Dichlorobenzene	0.5		U
104-51-8	n-Butyl Benzene	0.8		U
120-82-1	1,2,4-Trichlorobenzene	0.5		U
87-68-3	Hexachlorobutadiene	0.8		U
91-20-3	Naphthalene	0.8		U
78-87-5	1,2-Dichloropropane	0.8		U
142-28-9	1,3-Dichloropropane	0.8		U
103-65-1	n-Propyl Benzene	0.8		U
74-87-3	Chloromethane	1		U
87-61-6	1,2,3-Trichlorobenzene	0.8		U
75-71-8	Dichlorodifluoromethane	1		U
1634-04-4	Methyl-tert-butyl ether	0.8		U
156-60-5	trans-1,2-Dichloroethene	1	2	
156-59-2	cis-1,2-Dichloroethene	0.5	3	
108-38-3	m,p-Xylene	0.8		U
95-47-6	o-Xylene	0.5		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump12inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791526

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/~~95 03/15/96 3/26/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	----------GRO	0.0075	J

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP12-INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00114

Matrix: (soil/water) WATER Lab Sample ID: 792945

Sample wt/vol: 500 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/22/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/28/96

Concentrated Extract Volume: 2500 (uL) Date Analyzed: 03/29/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.34	J
9999-99-3	TPH-Extract as Kerosene	0.50	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP13INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791509

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091509A57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 33.3

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	33		U
75-00-3	Chloroethane	17	10	J
75-09-2	Methylene Chloride	500	17	JB
75-35-4	1,1-Dichloroethene	25		U
75-34-3	1,1-Dichloroethane	25		U
67-66-3	Chloroform	25		U
107-06-2	1,2-Dichloroethane	25		U
71-55-6	1,1,1-Trichloroethane	25		U
56-23-5	Carbon Tetrachloride	33		U
75-27-4	Bromodichloromethane	17		U
79-01-6	Trichloroethene	25	510	
124-48-1	Dibromochloromethane	17		U
79-00-5	1,1,2-Trichloroethane	25		U
71-43-2	Benzene	25		U
127-18-4	Tetrachloroethene	25		U
79-34-5	1,1,2,2-Tetrachloroethane	17		U
108-88-3	Toluene	25		U
108-90-7	Chlorobenzene	17		U
100-41-4	Ethylbenzene	25		U
106-93-4	1,2-Dibromoethane	25		U
96-12-8	1,2-Dibromo-3-Chloropropane	50		U
75-69-4	Trichlorofluoromethane	33		U
594-20-7	2,2-Dichloropropane	17		U
98-82-8	Isopropyl Benzene	25		U
108-86-1	Bromobenzene	17		U
95-49-8	2-Chlorotoluene	17		U
106-43-4	4-Chlorotoluene	17		U
108-67-8	1,3,5-Trimethyl Benzene	17		U
98-06-6	tert-Butyl Benzene	25		U
95-63-6	1,2,4-Trimethyl Benzene	17		U
135-98-8	sec-Butyl Benzene	25		U
541-73-1	1,3-Dichlorobenzene	17		U
106-46-7	1,4-Dichlorobenzene	25		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP13INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791509

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091509A57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 33.3

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	25		U
95-50-1	1,2-Dichlorobenzene	17		U
104-51-8	n-Butyl Benzene	25		U
120-82-1	1,2,4-Trichlorobenzene	17		U
87-68-3	Hexachlorobutadiene	25		U
91-20-3	Naphthalene	25		U
78-87-5	1,2-Dichloropropane	25		U
142-28-9	1,3-Dichloropropane	25		U
103-65-1	n-Propyl Benzene	25		U
74-87-3	Chloromethane	33		U
87-61-6	1,2,3-Trichlorobenzene	25		U
75-71-8	Dichlorodifluoromethane	33		U
1634-04-4	Methyl-tert-butyl ether	25		U
156-60-5	trans-1,2-Dichloroethene	33	88	
156-59-2	cis-1,2-Dichloroethene	17	190	
108-38-3	m,p-Xylene	25		U
95-47-6	o-Xylene	17		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump13inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791533

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96 AF 3/26/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted:02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.18	

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP13INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791549

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.057	JB

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP14INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00040

Matrix: (soil/water) WATER | Lab Sample ID: 791498

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091498A57.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/20/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	1	0.7	J
75-00-3	Chloroethane	0.5	7	
75-09-2	Methylene Chloride	15	0.4	J
75-35-4	1,1-Dichloroethene	0.8	0.6	J
75-34-3	1,1-Dichloroethane	0.8	12	
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8	16	
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
79-01-6	Trichloroethene	0.8	4	
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.8		U
106-93-4	1,2-Dibromoethane	0.8		U
96-12-8	1,2-Dibromo-3-Chloropropane	2		U
75-69-4	Trichlorofluoromethane	1		U
594-20-7	2,2-Dichloropropane	0.5		U
98-82-8	Isopropyl Benzene	0.8		U
108-86-1	Bromobenzene	0.5		U
95-49-8	2-Chlorotoluene	0.5		U
106-43-4	4-Chlorotoluene	0.5		U
108-67-8	1,3,5-Trimethyl Benzene	0.5		U
98-06-6	tert-Butyl Benzene	0.8		U
95-63-6	1,2,4-Trimethyl Benzene	0.5		U
135-98-8	sec-Butyl Benzene	0.8		U
541-73-1	1,3-Dichlorobenzene	0.5		U
106-46-7	1,4-Dichlorobenzene	0.8		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP14INF

Project: KENOSHA ENG

Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00040

Matrix: (soil/water) WATER

Lab Sample ID: 791498

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: CN091498A57.D

Level: (low/med) LOW

Date Received: 03/15/96

% Moisture: not dec. _____

Date Analyzed: 03/20/96

GC Column:DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____(uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	0.8		U
95-50-1	1,2-Dichlorobenzene	0.5		U
104-51-8	n-Butyl Benzene	0.8		U
120-82-1	1,2,4-Trichlorobenzene	0.5		U
87-68-3	Hexachlorobutadiene	0.8		U
91-20-3	Naphthalene	0.8		U
78-87-5	1,2-Dichloropropane	0.8		U
142-28-9	1,3-Dichloropropane	0.8		U
103-65-1	n-Propyl Benzene	0.8		U
74-87-3	Chloromethane	1		U
87-61-6	1,2,3-Trichlorobenzene	0.8		U
75-71-8	Dichlorodifluoromethane	1		U
1634-04-4	Methyl-tert-butyl ether	0.8		U
156-60-5	trans-1,2-Dichloroethene	1	0.3	J
156-59-2	cis-1,2-Dichloroethene	0.5	9	
108-38-3	m,p-Xylene	0.8		U
95-47-6	o-Xylene	0.5		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump14inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791520

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96 & 3/26/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/22/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
----------	GRO	0.011	J

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP14INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791539

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	0.16	JB

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP15INF

Project: KENOSHA ENG | Date Sampled: 03/14/96

Lab Code: COMPU | Case No.: 32037 | SAS No.: | SDG No.: 00070

Matrix: (soil/water) WATER | Lab Sample ID: 791512

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: CN091512A56.D

Level: (low/med) LOW | Date Received: 03/15/96

% Moisture: not dec. _____ | Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0

Soil Extract Volume: _____(uL) | Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.6	JB
75-35-4	1,1-Dichloroethene	0.8		U
75-34-3	1,1-Dichloroethane	0.5		U
67-66-3	Chloroform	0.8		U
107-06-2	1,2-Dichloroethane	0.8		U
71-55-6	1,1,1-Trichloroethane	0.8		U
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
79-01-6	Trichloroethene	0.8	3	
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
127-18-4	Tetrachloroethene	0.8		U
79-34-5	1,1,2,2-Tetrachloroethane	0.5		U
108-88-3	Toluene	0.8		U
108-90-7	Chlorobenzene	0.5		U
100-41-4	Ethylbenzene	0.5		U
106-93-4	1,2-Dibromoethane	0.8		U
96-12-8	1,2-Dibromo-3-Chloropropane	2		U
75-69-4	Trichlorofluoromethane	1		U
594-20-7	2,2-Dichloropropane	0.5		U
98-82-8	Isopropyl Benzene	0.8		U
108-86-1	Bromobenzene	0.5		U
95-49-8	2-Chlorotoluene	0.5		U
106-43-4	4-Chlorotoluene	0.5		U
108-67-8	1,3,5-Trimethyl Benzene	0.5		U
98-06-6	tert-Butyl Benzene	0.8		U
95-63-6	1,2,4-Trimethyl Benzene	0.5		U
135-98-8	sec-Butyl Benzene	0.8		U
541-73-1	1,3-Dichlorobenzene	0.5		U
106-46-7	1,4-Dichlorobenzene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SUMP15INF

Project: KENOSHA ENG Date Sampled: 03/14/96

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00070

Matrix: (soil/water) WATER Lab Sample ID: 791512

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN091512A56.D

Level: (low/med) LOW Date Received: 03/15/96

% Moisture: not dec. _____ Date Analyzed: 03/21/96

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
99-87-6	p-Isopropyl Toluene	0.8		U
95-50-1	1,2-Dichlorobenzene	0.5		U
104-51-8	n-Butyl Benzene	0.8		U
120-82-1	1,2,4-Trichlorobenzene	0.5		U
87-68-3	Hexachlorobutadiene	0.8		U
91-20-3	Naphthalene	0.8	3	
78-87-5	1,2-Dichloropropane	0.8		U
142-28-9	1,3-Dichloropropane	0.8		U
103-65-1	n-Propyl Benzene	0.8		U
74-87-3	Chloromethane	1		U
87-61-6	1,2,3-Trichlorobenzene	0.8		U
75-71-8	Dichlorodifluoromethane	1		U
1634-04-4	Methyl-tert-butyl ether	0.8		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5	4	
1330-20-7	Xylene (total)	0.5		U

FORM 1
GC VOA ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

sump15inf

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00076

Matrix: (soil/water) WATER Lab Sample ID: 791536

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: ~~02/22/95~~ 03/15/96 3/26/96

Extraction: (SepF/Cont/Sonc) P&T ~~Date Extracted: 02/24/95~~

Concentrated Extract Volume:_____(uL) Date Analyzed: 03/23/96

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
	----------GRO	0.046	J

1D
EXTRACTABLE TPH ANALYSIS DATA SHEET

SAMPLE NO.

SUMP15INF

Lab Name: COMPUCHEM ENV. CORP. Contract:

Lab Code: COMPU Case No.: 32037 SAS No.: SDG No.: 00050

Matrix: (soil/water) WATER Lab Sample ID: 791552

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/15/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/21/96

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 03/24/96

Injection Volume: 4.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (mg/L or mg/Kg) MG/L	Q
9999-99-4	TPH-Extract as Diesel	26	B

FORM I TPHE

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CHRYSLER CORPORATION

WG 3840.E

Chain of Custody

No 10685 A

CompuChem Environmental Corporation
3306 Chapel Hill/Nelson Highway
P.O.Box 14998
Research Triangle Park, NC 27709-4998
Phone Number: 1-800-833-5097
Fax Number: (919) 406-1686

Project Name: Chrysler
Site Code:
Release Number:
Chrysler PM: Curt Chapman

Consultant PM: Ross Creighton
Address: Triad 325 E. Chicago
Milw, WI 53202
Phone: 414 291 8840 Fax:

Turnaround Time Request: Normal

Sampler(s): A.R.K. S-M-R

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes: S - Soil; SW - Surface Water; GW - Ground Water; A - Air; Sed. - Sediment; O - Other (specify) _____

Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	DRO (WDNR Modified) Amber: Liter Glass HCl	6 PAC (WDNR Modified) Amber 1 Liter Glass HCl	VOCs 8260 (Amber 40ml Glass) HCl	Lab Use Only: Volatiles pH <2	Metals pH <2	Cyanide pH >12	Other	Remarks
Sump-6 Effluent	3/14/96	1634	G	GW	5	X	X	X					All samples kept in coolers on ice and shipped the same
Sump 10,11,12,13 Effluent	3/14/96	406pm	G	GW	5	X	X	X	Trial acid broken				
Sump 9 Influent	3/14/96	1704	G	GW	5	X	X	X					
Sump 9 Effluent	3/14/96	1711	G	GW	5	X	X	X	Temp 4°C				
Sump 13 Influent	3/14/96	417pm	G	GW	5	X	X	X					
Sump 7,8,14,15 Effluent	3/14/96	255pm	G	GW	5	X	X	X	2 vials acid broken	No carbonates			
Sump 8 Influent	3/14/96	226pm	G	GW	5	X	X	X			pH ok		
Sump 15 Influent	3/14/96	243pm	G	GW	5	X	X	X					
Sump 4,5 Effluent	3/14/96	449pm	G	GW	5	X	X	X					
Sump 6 Influent	3/14/96	428pm	G	GW	5	X	X	X					

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Chrysler Level 3
CLP Deliverables
Other (specify):

Bottles Relinquished under Airbill No.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
[signature]	3/14/96	658p	[signature] Diane Ellsome	3/15/96	9:50a	(Yes) No
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact? Yes No

Samples Relinquished under Airbill No.

Temperature (corrected) ___ C

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 0
Created: July 17, 1995

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CHRYSLER CORPORATION

W963890.E

Chain of Custody

No 10686 A

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CompuChem Environmental Corporation
3306 Chapel Hill/Nelson Highway
P.O.Box 14998
Research Triangle Park, NC 27709-4998
Phone Number: 1-800-833-5097
Fax Number: (919) 406-1686

Project Name: Chrysler Sampling
Site Code:
Release Number:
Chrysler PM: Curt Chapman

Consultant PM: Ross Creighton
Address: Mad Eng 325 E. Chicago Milw WI 53202
Phone: 414 291 8840 Fax:

Turnaround Time Request: Normal

Sampler(s): A.R.K. J. MR.

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes: S - Soil; SW - Surface Water; GW - Ground Water; A - Air; Sed. - Sediment; O - Other (specify) _____

Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	ORD (VOA) Modified Amber Glass HCl	624 (VOA) Amber 60ml 16 ml Glass HCl	VOA (Amber 8260 60ml Glass) HCl	Lab Use Only: Volatiles pH<2	Metals pH<2	Cyanide pH>12	Other	Remarks
Sump 14 Influent	3/14/96	236pm	G	GW	5	X	X	X	1 vial acid broken				All Samples kept in cooler on ice and shipped the same
Sump 5 Influent	3/14/96	1628	G	GW	5	X	X	X	1 vial acid broken				
Sump 11 Influent	3/14/96	350pm	G	GW	5	X	X	X					
Sump 7 Influent	3/14/96	215pm	G	GW	5	X	X	X	3 vials acid broken				
Sump 12 Influent	3/14/96	358pm	G	GW	5	X	X	X	1L Amber broken 2 vials acid broken / Arr 4°C				
Sump 10 Influent	3/14/96	1537	G	GW	5	X	X	X	N/A air bubbles				
Sump 2 Inf-2EE	3/14/96	1506	G	GW	5	X	X	X	2 vials acid broken PH ok				

Data Package Deliverables: (circle)	Bottles Relinquished under Airbill No.			Samples Relinquished under Airbill No.			Temperature (corrected) ___ C
Chrysler Level 1	Relinquished by:	Date: 3/14/96	Time: 650pm	Received by: Diane Ellmore	Date: 3/15/96	Time: 9:50a	Custody Seal Intact? (Yes) No
Chrysler Level 2	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Chrysler Level 3							
CLP Deliverables	Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact? Yes No
Other (specify):							

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

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Revision No. 0
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CHRYSLER CORPORATION

Chain of Custody

№ 11295 A

CompuChem Environmental Corporation
3306 Chapel Hill/Nelson Highway
P.O.Box 14998
Research Triangle Park, NC 27709-4998
Phone Number: 1-800-833-5097
Fax Number: (919) 406-1686

Project Name: CHRYSLER
Site Code:
Release Number:
Chrysler PM: CURT CHAPMAN

Consultant PM: ROSS CREIGHTON TRIAD
Address: 325 East CHICAGO St. Milw. WI 53202
Phone: (414) 291-8840 Fax: (414) 291-8841

Turnaround Time Request: NORMAL

Sampler(s): ARK

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes: S - Soil; SW - Surface Water; GW - Ground Water; A - Air; Sed. - Sediment; O - Other (specify) ______

Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	DRO/AMBER GLASS 1L/WI DNR modified	GRO/3-40ml glass/WI DNR modified								Volatiles pH <2 (Lab Use Only)	Metals pH <2 (Lab Use Only)	Cyanide pH > 12 (Lab Use Only)	Other ___ (Lab Use Only)	Remarks
Sump 12-IWF	3-21-96	1416	G	GW	2	X													all samples
sump 7-IWF	3-21-96	1430	G	GW	3		X												kept in cooler
																			on ICE

Data Package Deliverables: (circle)
Chrysler Level 1 (circled)
Chrysler Level 2
Chrysler Level 3
CLP Deliverables
Other (specify):

Bottles Reliquished under Airbill No.
Samples Relinquished under Airbill No.
Temperature (corrected) 6 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Alan Holberg	3-21-96	17:54				Yes No
						Yes No
			Received for Laboratory by: Stephanie [illegible]	3-22-96	0945	Yes (circled) No

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2757

Distribution: White copy: Data package Yellow: Retained by laboratory Pink: Retained by sampler

Revision No. 0
Created: July 17, 1995

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CHRYSLER CORPORATION

Chain of Custody [redacted] No. 10210

CompuChem Environmental Corporation 3306 Chapel Hill/Nelson Highway P.O.Box 14998 Research Triangle Park, NC 27709-4998 Phone Number: 1-800-833-5097 Fax Number: (919) 406-1686	Project Name: CHRYSLER Site Code: Release Number: 963890.E Chrysler PM: CURT CHAPMAN	Consultant PM: ROSS CREIGHTON Address 325 E. CHICAGO ST MILWAUKEE, WI 53202 Phone: (414) 291-8840 Fax: 291-8844

Turnaround Time Request: RUSH

Sampler(s): ALAN KOLBERG

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes

S - Soil SW - Surface Water
GW - Ground Water A - Air
Sed. - Sediment
O - Other (specify) _____

Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC + WATER MODIFIED	GRO + WATER MODIFIED	DRO + SMMS + WATER MODIFIED	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
SUMP-7	4-12-96	1236	G	GW	6	X	X	X					
SUMP-8	4-12-96	1242	G	GW	6	X	X	X					
781415	4-12-96	1251	G	GW	6	X	X	X					SAMPLES STORED ON ICE IMMEDIATELY AFTER SAMPLING
TEMP BLANK	4-12-96				1								# OF CONTAINERS IS 6 FOR EACH SAMPLE I.D. 2VOC, 2GRO, 2DRO

Data Package Deliverables: (circle)
Chrysler Level 1
Chrysler Level 2
Chrysler Level 3
CLP Deliverables
Other (specify):

Bottles Relinquished under Airbill No.

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
ALAN KOLBERG	4-12-96	15:37				Yes No
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
						Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by:	Date:	Time:	Custody Seal Intact?
				4/15/96	1000	Yes No

Samples Relinquished under Airbill No.

Temperature (corrected) 4 C

Chrysler Corporation 800 Chrysler Drive, CIMS 482-00-51, Auburn Hills, Michigan 48326-2750

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