FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/19/98

Injection Volume: 2.0(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) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.39	JP
72-54-8	4,4'-DDD	7.7	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.67	JP
60-57-1	Dieldrin	0.49	JP
959-98-8	Endosulfan I	4.0	U
33213-65-9	Endosulfan II	7.7	U
1031-07-8	Endosulfan sulfate	1.5	JP
72-20-8	Endrin	7.7	U
7421-93-4	Endrin Aldehyde	7.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	11	JP
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	150	U
53494-70-5	Endrin Ketone	2.3	JP
12789-03-6	Technical Chlordane	190	U
465-73-6	Isodrin	1.9	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/19/98

Injection Volume: 2.0(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) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	0.26	JP
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.99	JP
72-54-8	4,4'-DDD	7.7	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.80	JP
60-57-1	Dieldrin	0.77	JP
959-98-8	Endosulfan I	4.0	U
33213-65-9	Endosulfan II	7.7	U
1031-07-8	Endosulfan sulfate	1.7	JP
72-20-8	Endrin	7.7	U
7421-93-4	Endrin Aldehyde	7.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	0.41	JPB
72-43-5	Methoxychlor	12	JP
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	150	U
53494-70-5	Endrin Ketone	3.1	JP
12789-03-6	Technical Chlordane	190	U
465-73-6	Isodrin	1.9	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKLH

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910369

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/19/98

Injection Volume: 2.0(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) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	3.4	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	6.6	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	10	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	0.25	JP
33213-65-9	Endosulfan II	6.6	U
1031-07-8	Endosulfan sulfate	6.6	U
72-20-8	Endrin	6.6	U
7421-93-4	Endrin Aldehyde	6.6	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	0.43	JP
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	90	U
12672-29-6	Aroclor-1248	90	U
11097-69-1	Aroclor-1254	90	U
11096-82-5	Aroclor-1260	130	U
53494-70-5	Endrin Ketone	17	U
12789-03-6	Technical Chlordane	170	U
465-73-6	Isodrin	1.7	U

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKLH

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Lab Sample ID: 910369 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 09/17/98

Date Analyzed (1): 09/19/98 Date Analyzed (2): 09/19/98

Time Analyzed (1): 1613 Time Analyzed (2): 1613

Instrument ID (1): VARIAN34 Instrument ID (2): VARIAN35

GC Column (1): CLPPEST1 ID: 0.53(mm) GC Column (2): CLPPEST2 ID: 0.53(m

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCSLH	910370	09/19/98	09/19/98
02	SP1-SB-1-4-6	910263	09/19/98	09/19/98
03	SP1-SB-1-4-6	910264	09/19/98	09/19/98
04	SP1-SB-1-4-6	910246	09/19/98	09/19/98
05	SP1-SB-2-4-5	910247	09/19/98	09/19/98
06	SP1-SB-3-4-5	910248	09/19/98	09/19/98
07				
08				
09				
10				
11				
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13				
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19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

FORM 2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

GC Column(1): CLPPEST1 ID: 0.53 (mm) GC Column(2): CLPPEST2 ID: 0.53 (m

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	TCX 1 %REC #	TCX 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKLH	137	95	70	81			0
02	PLCSLH	126	101	62	77			0
03	SP1-SB-1-4-6	141	108	81	83			0
04	SP1-SB-1-4-6	143	106	83	87			0
05	SP1-SB-1-4-6	139	105	87	92			0
06	SP1-SB-2-4-5	144	104	76	82			0
07	SP1-SB-3-4-5	160*	114	84	100			1
08								
09								
10								
11								
12								
13								
14								
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17								
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24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (DC (0-150)
S2 (TCX) = Tetrachloro-m-Xylene (0-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-1-4-6

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	31	0.0	30	97	34-132
gamma-BHC (Lindane)	77	0.88	5.0	5*	34-134
4,4'-DDT	77	0.0	78	101	23-134
Dieldrin	77	0.36	75	97	31-134
Endrin	77	0.0	99	128	42-139
Heptachlor	31	0.67	30	95	35-130

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	31	31	100	3	43	34-132
gamma-BHC (Lindane)	31	30	94	180*	43	34-134
4,4'-DDT	77	95	123	20	50	23-134
Dieldrin	77	76	98	1	38	31-134
Endrin	77	100	130	2	45	42-139
Heptachlor	31	32	101	6	31	35-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limits

COMMENTS: _____

FORM 3
SOIL PESTICIDE METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

COMPOUND	SPIKE ADDED (ug/Kg	CONCENTRATION (ug/Kg)	% REC #	QC. LIMITS REC.
Aldrin	27	24	89	34-132
gamma-BHC (Lindane)	27	23	85	34-134
4,4'-DDT	67	76	113	23-134
Dieldrin	67	60	90	31-134
Endrin	67	68	101	42-139
Heptachlor	27	24	89	35-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910246	SP1-SB-1-4-6	9/17/98
910247	SP1-SB-2-4-5	9/17/98
910248	SP1-SB-3-4-5	9/17/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 33825
SDG: 24901

SAMPLE IDENTIFICATIONS: SP1-SB-1-4-6, SP1-SB-2-4-5, SP1-SB-3-4-5

The three (3) soil samples listed above were received intact, properly refrigerated, with proper chain-of-custody (COC) documentation, on September 17, 1998. The samples were prepared and analyzed for the herbicide fractions following SW846 Method 8151A protocol, reporting the Appendix IX compound list.

HERBICIDE

Extraction and analysis holding time requirements were met for all of these samples. No herbicide target analytes were confirmed by dual column analysis at a concentration at the reporting limit in any of these samples.

All of the surrogates met recovery and retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. No herbicide target analytes were confirmed in the method blank.

SP1-SB-1-4-6 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Sample (LCS) did met all quality control 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 listed 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.

Stephanie W. Winfield 9-23-98
Stephanie W. Winfield
Technical Reviewer
September 23, 1998

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vugel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~8270~~	PCB's ~~8082~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis 9/17/98

Sampler(s): Dave B. Olson

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dave B. Olson	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:25 am	Yes No

Cooler ID # 68

Is RFA sampling complete? Yes 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

Complete per Gary Stanczuk 9/17/98

Samples placed in freezer ID 1 & 3 9/17/98 9:45 am

Revision No. 1

CompuChem Receiving Log

Client: Chugach/CRG
Order #: 33X25
Project: PRA 249
Quote #: 98-[illegible]
Account #: 5C112

Received on: 9/12/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8C13094 34C32
Subcontract Y (N)
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS (RFA) # 241 Page 1 of 1
Lab Instructions: RCRA list + CN / TCL ~~pc~~
list - req analysis / TCL list on all TCLP samples / ~~TCL list analyzed on soils~~ 9/17
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MK	
1	249001	1	SP1-SR-1-4-6	91024	1-4oz/2-8oz	RCRA list/CN/Hg/	4005,		9/15/98	SO	NA
2		2	SP1-SR-2-4 5	[illegible]		VOC/SV, Pest PCB/Herb	1357, [illegible]				
3		3	SP1-SR-3-4 5	[illegible]							
4	249002	4	SP2-SR-1	91023-1	1-4oz/2-8oz	[illegible]					
5	249003	5	TCC 1	91025 1	4-40mL vials	VOC	1356	1		WA	
6											
7											
8											
9											
10											
11											
12											
13						9/17/98					
14											
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Blank(s) Counter / Page / CCN's

DATA REPORTING QUALIFIERS

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

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

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 (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), 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.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. **If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

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 is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. 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 will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations 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.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.7	U
93-72-1	silvex	2.3	U
93-76-5	2,4,5-T	2.9	U

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.8	U
93-72-1	silvex	2.3	U
93-76-5	2,4,5-T	2.9	U

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.8	U
93-72-1	silvex	2.3	U
93-76-5	2,4,5-T	2.9	U

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

HBLKLG

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910368

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.0	U
93-72-1	silvex	2.0	U
93-76-5	2,4,5-T	2.5	U

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

HBLKLG

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Lab Sample ID: 910368 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 09/17/98

Date Analyzed (1): 09/22/98 Date Analyzed (2): 09/22/98

Time Analyzed (1): 1652 Time Analyzed (2): 1652

Instrument ID (1): VARIAN06 Instrument ID (2): VARIAN07

GC Column (1): RTX-35 ID: 0.53(mm) GC Column (2): RTX1701 ID: 0.53(m

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SP1-SB-1-4-6	910260	09/22/98	09/22/98
02	SP1-SB-1-4-6	910261	09/22/98	09/22/98
03	HLCSLG	910262	09/22/98	09/22/98
04	SP1-SB-1-4-6	910246	09/22/98	09/22/98
05	SP1-SB-2-4-5	910247	09/22/98	09/22/98
06	SP1-SB-3-4-5	910248	09/22/98	09/22/98
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

FORM 2
SOIL 8151 SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): RTX1701 ID: 0.53 (m

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	HBLKLG	73	71					0
02	SP1-SB-1-4-6	88	84					0
03	SP1-SB-1-4-6	84	78					0
04	HLCSLG	81	78					0
05	SP1-SB-1-4-6	77	76					0
06	SP1-SB-2-4-5	75	70					0
07	SP1-SB-3-4-5	88	80					0
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = DCAA (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL 8151 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix Spike - Sample No.: SP1-SB-1-4-6

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
2,4-D	77	0.0	83	108	30-150
silvex	15	0.0	15	100	30-150
2,4,5-T	15	0.0	14	93	30-150

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-D	77	67	87	22	40	30-150
silvex	15	13	87	14	40	30-150
2,4,5-T	15	13	87	7	40	30-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 3 outside limits
Spike Recovery: 0 out of 6 outside limits

COMMENTS: _____

FORM 3
SOIL 8151 METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

COMPOUND	SPIKE ADDED (ug/Kg	CONCENTRATION (ug/Kg)	% REC #	QC. LIMITS REC.
2,4-D	67	76	113	30-150
silvex	13	11	85	30-150
2,4,5-T	13	12	92	30-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

COMPUCHEM

a division of Liberty Analytical Corp.

Dayton Stockpile
REA TX-249 & 250
Metals

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910246	SP1-SB-1-4-6	9/17/98
910247	SP1-SB-2-4-5	9/17/98
910248	SP1-SB-3-4-5	9/17/98

TOTAL NUMBER OF SAMPLES = 3

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825 SAS No.: _____ SDG No.:24901_

SOW No.: SW846__

EPA Sample No.	Lab Sample ID
_SP1-SB-1-4-6_	_910246_____
_SP1-SB-1-4-6_	_910259_____
_SP1-SB-1-4-6_	_910257_____
_SP1-SB-1-4-6_	_910256_____
_SP1-SB-2-4-5_	_910247_____
_SP1-SB-3-4-5_	_910248_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:
____THE_FOLLOWING_ANALYTES_HAVE_BEEN_FLAGGED_WITH_AN_"E"_TO_INDICATE_____
____SERIAL_DILUTION_RESULTS_WHICH_WERE_OUTSIDE_CONTROL_LIMITS:_____
____CHROMIUM_LEAD_____

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 data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: John R. Cole for Name: Carol F. Yandell

Date: September 21, 1998 Title: Laboratory Manager

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE
CASE # 33825 SDG # 24901
PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of three (3) soil samples was received into the laboratory management system (LIMS) on September 17, 1998 intact and in good condition with Chain of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for the eight RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

SP1-SB-1-4-6 SP1-SB-2-4-5 SP1-SB-3-4-5

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSS & PBS) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = 910256 (ID = SP1-SB-1-4-6S) was found to be outside SW-846 control limits for mercury and selenium. The sample matrix spike duplicate, CCN = 910257 (ID = S) was found to be outside SW-846 control limits for mercury. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). Post-digestion spikes are not mandatory for mercury. The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = 910259 (ID = SP1-SB-1-4-6D) was inside SW-846 control limits for the requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 910246 (ID = SP1-SB-1-4-6L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were outside SW-846 control limits for chromium and lead, which are flagged with an "E" on all associated Form 1, the Cover Page and Form 9.

An "E" indicates that a chemical or physical interference effect was encountered during the analysis of the flagged analyte. As a result of this interference, all values for the analyte in the same matrix must be considered to be estimated quantities.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

This SDG package was processed using the Ward Scientific software. This software package has a seven character limitation on the Forms 13 and 14 -- any sample ID's which exceed seven characters are truncated from left to right on these forms.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Thomas R. Cole
Chemist II
September 21, 1998

Note: This report is paginated for reference and accountability.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

CompuChem Environmental Corportation

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). This flag also indicates the analyte was not detected, but the result is greater than or equal to the IDL.

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. when the serial dilution (a five fold dilution for CLP and a four fold dilution for SW-846 method 6010A) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. when the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indates the sample spike recovery is outside of control limits:

*: This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method of Standard Additions (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-83[illegible]-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 9/17/98 DE

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

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~8270~~	PCB's ~~8082~~	Herb/Pest	RCRA metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Sampler(s): Dave B. Olson

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dave B. Olson	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellwine	9/17/98	9:50 am	Yes No

Cooler ID # 68

Is RFA sampling complete? Yes No

Complete per Gary Stanczuk DE 9/17/98

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

Samples placed in storage 10 & 3 DE 9/17/98 9:45 am

Revision No. 1
Created: September 23, 1997

CompuChem Receiving Log

Client: Chrysler/LBG
Order #: 33[illegible]
Project: PRA 249
Quote #: 98-[illegible]
Account #: 50[illegible]

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094[illegible]
Subcontract Y / N
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # 249 Page 1 of 1
Lab Instructions: RCRA 1001 - CN / TCL
list - req analysis / TCLP list on all TCLP samples / ~~[illegible] analyzed as well~~ 9/17
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	249001	1	[illegible]-1-4-6	916[illegible]	1-4oz/2-8oz	RCRA 1001 CN/418.1 VOC, [illegible]	4005, 1357, [illegible]	[illegible]	9/15/98	50	NA
2	↓	2	[illegible]-2-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	[illegible]-3-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	249002	4	[illegible]-1	[illegible]-1	1-4oz/2-8oz	[illegible]	1139, 749, 1087, 4005, [illegible]	[illegible]	↓	↓	↓
5	249003	5	[illegible]	916251	4-40ml vials	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13						9/17/98					
14					[illegible]						
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's / Temperature(s) [illegible] °C

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL_ Lab Sample ID: 910246

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	53.7			P
7440-43-9	Cadmium	0.73			P
7440-47-3	Chromium	12.9		E	P
7439-92-1	Lead	26.4		E	P
7439-97-6	Mercury	0.06	U	N	CV
7782-49-2	Selenium	0.67		N	P
7440-22-4	Silver	0.07	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.88g__Dry:6.14g_____

Duplicate_(SP1-SB-1-4-6D)_____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL_ Lab Sample ID: 910247

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	8.5			P
7440-39-3	Barium___	51.1			P
7440-43-9	Cadmium__	1.7			P
7440-47-3	Chromium_	15.3		E	P
7439-92-1	Lead_____	17.9		E	P
7439-97-6	Mercury__	0.06	U	N	CV
7782-49-2	Selenium_	0.57	U	N	P
7440-22-4	Silver___	0.07	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.32g__Dry:5.61g_____

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL_ Lab Sample ID: 910248

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	7.1			P
7440-39-3	Barium___	50.5			P
7440-43-9	Cadmium__	1.0			P
7440-47-3	Chromium_	10.7		E	P
7439-92-1	Lead_____	17.7		E	P
7439-97-6	Mercury__	1.8		N	CV
7782-49-2	Selenium_	0.56	U	N	P
7440-22-4	Silver___	0.06	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.88g__Dry:6.11g_____

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	3.7	U	3.7	U	3.7	U	3.7	U	0.37	U	P
Barium	0.6	U	0.6	U	0.6	U	0.6	U	0.06	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.03	B	P
Chromium	0.7	U	0.7	U	0.7	U	0.7	U	0.07	U	P
Lead	1.6	U	1.6	U	1.6	U	1.6	U	0.16	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.05	U	CV
Selenium	5.2	U	5.2	U	5.2	U	5.2	U	0.52	U	P
Silver	-0.8	B	0.6	U	-0.6	B	0.6	U	0.06	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.6	U	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Chromium			0.7	U	0.7	U	0.7	U			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury			0.1	U	0.1	U	0.1	U			CV
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			0.6	U	0.6	U	0.6	U			P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.6	U	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Chromium			0.7	U	0.7	U	0.7	U			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury			0.1	U	0.1	U					CV
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			0.6	U	-0.7	B	-0.7	B			P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Preparation Blank Matrix (soil/water): _____.

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.8	B	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Chromium			0.7	U	0.7	U	0.7	U			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury											NR
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			-0.7	B	0.6	U	0.6	U			P

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	12.2607		6.9008		4.61	116.3		P
Barium	75-125	278.5467		53.6909		230.68	97.5		P
Cadmium	75-125	6.2480		0.7343		5.77	95.6		P
Chromium	75-125	33.5640		12.8604		23.07	89.7		P
Lead		22.9642		26.4245		2.31	-149.8		P
Mercury	75-125	0.7474		0.0577	U	0.58	128.9	N	CV
Selenium	75-125	1.4233		0.6716		1.15	65.4	N	P
Silver	75-125	5.3979		0.0692	U	5.77	93.6		P

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: _86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	10.6528		6.9008		4.61	81.4		P
Barium	75-125	273.4717		53.6909		230.68	95.3		P
Cadmium	75-125	6.0161		0.7343		5.77	91.5		P
Chromium	75-125	36.3899		12.8604		23.07	102.0		P
Lead		21.5571		26.4245		2.31	-210.7		P
Mercury	75-125	0.7318		0.0577	U	0.58	126.2	N	CV
Selenium	75-125	1.7555		0.6716		1.15	94.3		P
Silver	75-125	5.4325		0.0692	U	5.77	94.2		P

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Arsenic									NR
Barium									NR
Cadmium									NR
Chromium									NR
Lead									NR
Mercury									NR
Selenium		17.37		5.82		12.0	96.2		P
Silver									NR

Comments:

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic				163.0	163.3		102.0	225.0	100.2
Barium				195.0	192.3		128.0	261.0	98.6
Cadmium				114.0	110.7		84.9	142.0	97.1
Chromium				175.0	170.3		121.0	229.0	97.3
Lead				66.0	65.0		44.7	87.3	98.5
Mercury									
Selenium				123.0	118.4		91.4	155.0	96.3
Silver				57.2	56.3		40.8	73.5	98.4

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Solid LCS Source: EPA-LV_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic									
Barium									
Cadmium									
Chromium									
Lead									
Mercury				1.7	1.7		1.0	2.6	100.0
Selenium									
Silver									

Dayton Stockpile 98-249

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel

LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: VOC - [redacted] - RFA 249

Number of pages including the cover sheet 7

Message:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010246A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 13 Date Analyzed: 09/21/98

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

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	11		U
75-01-4	Vinyl Chloride	11		U
75-00-3	Chloroethane	11		U
75-09-2	Methylene Chloride	11	8	JB
75-35-4	1,1-Dichloroethene	11		U
75-34-3	1,1-Dichloroethane	11		U
67-66-3	Chloroform	11		U
107-06-2	1,2-Dichloroethane	11		U
71-55-6	1,1,1-Trichloroethane	11		U
56-23-5	Carbon Tetrachloride	11		U
75-27-4	Bromodichloromethane	11		U
10061-01-5	cis-1,3-Dichloropropene	11		U
79-01-6	Trichloroethene	11	5	J
124-48-1	Dibromochloromethane	11		U
79-00-5	1,1,2-Trichloroethane	11		U
71-43-2	Benzene	11		U
10061-02-6	trans-1,3-Dichloropropene	11		U
75-25-2	Bromoform	11		U
127-18-4	Tetrachloroethene	11	1	J
79-34-5	1,1,2,2-Tetrachloroethane	11		U
108-88-3	Toluene	11		U
108-90-7	Chlorobenzene	11		U
100-41-4	Ethylbenzene	11		U
100-42-5	Styrene	11		U
78-87-5	1,2-Dichloropropane	11		U
74-87-3	Chloromethane	11		U
67-64-1	Acetone	11	3	JB
108-10-1	4-Methyl-2-pentanone	11		U
78-93-3	2-butanone	11		U
540-59-0	1,2-Dichloroethene (total)	23		U
1330-20-7	Xylene (total)	11		U
591-78-6	2-Hexanone	11		U
75-15-0	Carbon Disulfide	11		U

FORM I VOA

MS/MSD ?

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910250

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010250A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 13 Date Analyzed: 09/21/98

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

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	11	71	
75-01-4	Vinyl Chloride	11	67	
75-00-3	Chloroethane	11	71	
75-09-2	Methylene Chloride	11	63	B
75-35-4	1,1-Dichloroethene	11	64	
75-34-3	1,1-Dichloroethane	11	65	
67-66-3	Chloroform	11	64	
107-06-2	1,2-Dichloroethane	11	58	
71-55-6	1,1,1-Trichloroethane	11	66	
56-23-5	Carbon Tetrachloride	11	67	
75-27-4	Bromodichloromethane	11	57	
10061-01-5	cis-1,3-Dichloropropene	11	55	
79-01-6	Trichloroethene	11	68	
124-48-1	Dibromochloromethane	11	56	
79-00-5	1,1,2-Trichloroethane	11	54	
71-43-2	Benzene	11	64	
10061-02-6	trans-1,3-Dichloropropene	11	54	
75-25-2	Bromoform	11	55	
127-18-4	Tetrachloroethene	11	61	
79-34-5	1,1,2,2-Tetrachloroethane	11	51	
108-88-3	Toluene	11	59	
108-90-7	Chlorobenzene	11	58	
100-41-4	Ethylbenzene	11	59	
100-42-5	Styrene	11	59	
78-87-5	1,2-Dichloropropane	11	57	
74-87-3	Chloromethane	11	66	
67-64-1	Acetone	11	62	B
108-10-1	4-Methyl-2-pentanone	11	50	
78-93-3	2-butanone	11	52	
540-59-0	1,2-Dichloroethene (total)	23	130	
591-78-6	2-Hexanone	11	49	
1330-20-7	Xylene (total)	11	190	
75-15-0	Carbon Disulfide	11	61	

FORM I VOA

MS/MSD ?

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910249

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010249A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 13 Date Analyzed: 09/21/98

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

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	11	66	
75-01-4	Vinyl Chloride	11	61	
75-00-3	Chloroethane	11	72	
75-09-2	Methylene Chloride	11	65	B
75-35-4	1,1-Dichloroethene	11	65	
75-34-3	1,1-Dichloroethane	11	68	
67-66-3	Chloroform	11	66	
107-06-2	1,2-Dichloroethane	11	56	
71-55-6	1,1,1-Trichloroethane	11	70	
56-23-5	Carbon Tetrachloride	11	71	
75-27-4	Bromodichloromethane	11	56	
10061-01-5	cis-1,3-Dichloropropene	11	52	
79-01-6	Trichloroethene	11	62	
124-48-1	Dibromochloromethane	11	54	
79-00-5	1,1,2-Trichloroethane	11	51	
71-43-2	Benzene	11	67	
10061-02-6	trans-1,3-Dichloropropene	11	50	
75-25-2	Bromoform	11	53	
127-18-4	Tetrachloroethene	11	62	
79-34-5	1,1,2,2-Tetrachloroethane	11	47	
108-88-3	Toluene	11	58	
108-90-7	Chlorobenzene	11	57	
100-41-4	Ethylbenzene	11	60	
100-42-5	Styrene	11	59	
78-87-5	1,2-Dichloropropane	11	56	
74-87-3	Chloromethane	11	60	
67-64-1	Acetone	11	61	B
108-10-1	4-Methyl-2-pentanone	11	46	
78-93-3	2-butanone	11	56	
540-59-0	1,2-Dichloroethene (total)	23	130	
591-78-6	2-Hexanone	11	46	
1330-20-7	Xylene (total)	11	190	
75-15-0	Carbon Disulfide	11	64	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-2-4-5

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010247A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 14 Date Analyzed: 09/21/98

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

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	12	9	JB
75-35-4	1,1-Dichloroethene	12		U
75-34-3	1,1-Dichloroethane	12		U
67-66-3	Chloroform	12		U
107-06-2	1,2-Dichloroethane	12		U
71-55-6	1,1,1-Trichloroethane	12		U
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	12	1	J
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	12		U
71-43-2	Benzene	12		U
10061-02-6	trans-1,3-Dichloropropene	12		U
75-25-2	Bromoform	12		U
127-18-4	Tetrachloroethene	12		U
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-88-3	Toluene	12		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	12		U
100-42-5	Styrene	12		U
78-87-5	1,2-Dichloropropane	12		U
74-87-3	Chloromethane	12		U
67-64-1	Acetone	12	2	JB
108-10-1	4-Methyl-2-pentanone	12		U
78-93-3	2-butanone	12		U
540-59-0	1,2-Dichloroethene (total)	23	4	J
1330-20-7	Xylene (total)	12		U
591-78-6	2-Hexanone	12		U
75-15-0	Carbon Disulfide	12		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 5.0 (g/mL) G Lab File ID: GH010248A57.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. 14 Date Analyzed: 09/21/98

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

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	12	9	JB
75-35-4	1,1-Dichloroethene	12		U
75-34-3	1,1-Dichloroethane	12	1	J
67-66-3	Chloroform	12		U
107-06-2	1,2-Dichloroethane	12		U
71-55-6	1,1,1-Trichloroethane	12		U
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	12	10	J
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	12		U
71-43-2	Benzene	12		U
10061-02-6	trans-1,3-Dichloropropene	12		U
75-25-2	Bromoform	12		U
127-18-4	Tetrachloroethene	12	1	J
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-88-3	Toluene	12		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	12		U
100-42-5	Styrene	12		U
78-87-5	1,2-Dichloropropane	12		U
74-87-3	Chloromethane	12		U
67-64-1	Acetone	12	4	JB
108-10-1	4-Methyl-2-pentanone	12		U
78-93-3	2-butanone	12		U
540-59-0	1,2-Dichloroethene (total)	23	3	J
1330-20-7	Xylene (total)	12		U
591-78-6	2-Hexanone	12		U
75-15-0	Carbon Disulfide	12		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

T00001

Trip blank

Project: RFA249 | Date Sampled: 09/15/98

Lab Code: COMPU | Case No.: 33825 | SAS No.: | SDG No.: 24901

Matrix: (soil/water) SOIL | Lab Sample ID: 910252

Sample wt/vol: 5.0 (g/mL) G | Lab File ID: GR010252A57.D

Level: (low/med) LOW | Date Received: 09/17/98

% Moisture: not dec. 0 | Date Analyzed: 09/21/98

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

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

CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene Chloride	10	10	B
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Dibromochloromethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
127-18-4	Tetrachloroethene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-88-3	Toluene	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U
78-87-5	1,2-Dichloropropane	10		U
74-87-3	Chloromethane	10		U
67-64-1	Acetone	10	2	JB
108-10-1	4-Methyl-2-pentanone	10		U
78-93-3	2-butanone	10		U
540-59-0	1,2-Dichloroethene (total)	20		U
1330-20-7	Xylene (total)	10		U
591-78-6	2-Hexanone	10		U
75-15-0	Carbon Disulfide	10		U

FORM I VOA

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: VOC - TCLP RFA 249

Number of pages including the cover sheet 2

Message:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN010251A56.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. _____ Date Analyzed: 09/19/98

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	50		U
75-35-4	1,1-Dichloroethene	50		U
67-66-3	Chloroform	50		U
107-06-2	1,2-Dichloroethane	50		U
56-23-5	Carbon Tetrachloride	50		U
79-01-6	Trichloroethene	50		U
71-43-2	Benzene	50		U
127-18-4	Tetrachloroethene	50		U
108-90-7	Chlorobenzene	50		U
78-93-3	2-butanone	50		U

FORM I VOA

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: SVOC - RFA249

Number of pages including the cover sheet 7

Message:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010246A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 13 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
95-48-7	2-Methylphenol	380		U
39638-32-9	Bis(2-chloroisopropyl)ether	380		U
106-44-5	4-Methylphenol	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
67-72-1	Hexachloroethane	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	1800		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	1800		U
131-11-3	Dimethylphthalate	380		U
208-96-8	Acenaphthylene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
99-09-2	3-Nitroaniline	1800		U

09/21/98 14:39

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-1-4-6

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010246A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 13 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380		U
51-28-5	2,4-Dinitrophenol	1800		U
100-02-7	4-Nitrophenol	1800		U
121-14-2	2,4-Dinitrotoluene	380		U
132-64-9	Dibenzofuran	380		U
84-66-2	Diethylphthalate	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
86-73-7	Fluorene	380		U
100-01-6	4-Nitroaniline	1800		U
534-52-1	4,6-Dinitro-2-methylphenol	1800		U
86-30-6	N-nitrosodiphenylamine (1)	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	1800		U
85-01-8	Phenanthrene	380	370	J
120-12-7	Anthracene	380	75	J
86-74-8	Carbazole	380	53	J
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380	610	
129-00-0	Pyrene	380	420	
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	760		U
117-81-7	bis(2-Ethylhexyl)phthalate	380		U
56-55-3	Benzo(a)anthracene	380	300	J
218-01-9	Chrysene	380	290	J
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380	380	
207-08-9	Benzo(k)fluoranthene	380	130	J
50-32-8	Benzo(a)pyrene	380	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	380	140	J
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380	140	J

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-2-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010247A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
95-48-7	2-Methylphenol	380		U
39638-32-9	Bis(2-chloroisopropyl)ether	380		U
106-44-5	4-Methylphenol	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
67-72-1	Hexachloroethane	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	1900		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	1900		U
131-11-3	Dimethylphthalate	380		U
208-96-8	Acenaphthylene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
99-09-2	3-Nitroaniline	1900		U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-2-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010247A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380		U
51-28-5	2,4-Dinitrophenol	1900		U
100-02-7	4-Nitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
132-64-9	Dibenzofuran	380		U
84-66-2	Diethylphthalate	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
86-73-7	Fluorene	380		U
100-01-6	4-Nitroaniline	1900		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
86-30-6	N-nitrosodiphenylamine (1)	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	1900		U
85-01-8	Phenanthrene	380	54	J
120-12-7	Anthracene	380		U
86-74-8	Carbazole	380		U
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380	100	J
129-00-0	Pyrene	380	70	J
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	770		U
117-81-7	bis(2-Ethylhexyl)phthalate	380		U
56-55-3	Benzo(a)anthracene	380	58	J
218-01-9	Chrysene	380	62	J
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380	76	J
207-08-9	Benzo(k)fluoranthene	380		U
50-32-8	Benzo(a)pyrene	380	54	J
193-39-5	Indeno(1,2,3-cd)pyrene	380		U
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380		U

(1) - Cannot be separated from Diphenylamine

100/005 図 09-17-98 14:40

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010248A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/18/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
108-95-2	Phenol	380		U
111-44-4	bis(2-Chloroethyl)ether	380		U
95-57-8	2-Chlorophenol	380		U
541-73-1	1,3-Dichlorobenzene	380		U
106-46-7	1,4-Dichlorobenzene	380		U
95-50-1	1,2-Dichlorobenzene	380		U
95-48-7	2-Methylphenol	380		U
39638-32-9	Bis(2-chloroisopropyl)ether	380		U
106-44-5	4-Methylphenol	380		U
621-64-7	N-Nitroso-di-n-propylamine	380		U
67-72-1	Hexachloroethane	380		U
98-95-3	Nitrobenzene	380		U
78-59-1	Isophorone	380		U
88-75-5	2-Nitrophenol	380		U
105-67-9	2,4-Dimethylphenol	380		U
111-91-1	bis(2-Chloroethoxy)methane	380		U
120-83-2	2,4-Dichlorophenol	380		U
120-82-1	1,2,4-Trichlorobenzene	380		U
91-20-3	Naphthalene	380		U
106-47-8	4-Chloroaniline	380		U
87-68-3	Hexachlorobutadiene	380		U
59-50-7	4-Chloro-3-methylphenol	380		U
91-57-6	2-Methylnaphthalene	380		U
77-47-4	Hexachlorocyclopentadiene	380		U
88-06-2	2,4,6-Trichlorophenol	380		U
95-95-4	2,4,5-Trichlorophenol	1900		U
91-58-7	2-Chloronaphthalene	380		U
88-74-4	2-Nitroaniline	1900		U
131-11-3	Dimethylphthalate	380		U
208-96-8	Acenaphthylene	380		U
606-20-2	2,6-Dinitrotoluene	380		U
99-09-2	3-Nitroaniline	1900		U

700/900 09/21/98 14:40

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-SB-3-4-5

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: GH010248A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: 14 decanted: (Y/N) N Date Extracted: 09/17/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/KG

CAS NO.	COMPOUND	DL	CONC	Q
83-32-9	Acenaphthene	380		U
51-28-5	2,4-Dinitrophenol	1900		U
100-02-7	4-Nitrophenol	1900		U
121-14-2	2,4-Dinitrotoluene	380		U
132-64-9	Dibenzofuran	380		U
84-66-2	Diethylphthalate	380		U
7005-72-3	4-Chlorophenyl-phenylether	380		U
86-73-7	Fluorene	380		U
100-01-6	4-Nitroaniline	1900		U
534-52-1	4,6-Dinitro-2-methylphenol	1900		U
86-30-6	N-nitrosodiphenylamine (1)	380		U
101-55-3	4-Bromophenyl-phenylether	380		U
118-74-1	Hexachlorobenzene	380		U
87-86-5	Pentachlorophenol	1900		U
85-01-8	Phenanthrene	380	150	J
120-12-7	Anthracene	380		U
86-74-8	Carbazole	380		U
84-74-2	Di-n-butylphthalate	380		U
206-44-0	Fluoranthene	380	250	J
129-00-0	Pyrene	380	180	J
85-68-7	Butylbenzylphthalate	380		U
91-94-1	3,3'-Dichlorobenzidine	770		U
117-81-7	bis(2-Ethylhexyl)phthalate	380		U
56-55-3	Benzo(a)anthracene	380	110	J
218-01-9	Chrysene	380	110	J
117-84-0	Di-n-octylphthalate	380		U
205-99-2	Benzo(b)fluoranthene	380	110	J
207-08-9	Benzo(k)fluoranthene	380	76	J
50-32-8	Benzo(a)pyrene	380	71	J
193-39-5	Indeno(1,2,3-cd)pyrene	380	47	J
53-70-3	Dibenzo(a,h)anthracene	380		U
191-24-2	Benzo(g,h,i)perylene	380	46	J

(1) - Cannot be separated from Diphenylamine

200/200 09/21/98 14:41

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: TCLP (SV & Pesticides) - RFA249

Number of pages including the cover sheet 3

Message:

Amended Pesticide results

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 100 (g/mL) ML Lab File ID: GJ010251A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/18/98

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/19/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	50		U
106-46-7	1,4-Dichlorobenzene	50		U
95-48-7	2-Methylphenol	50		U
108-39-4	3-Methylphenol	50		U
106-44-5	4-Methylphenol	50		U
67-72-1	Hexachloroethane	50		U
98-95-3	Nitrobenzene	50		U
87-68-3	Hexachlorobutadiene	50		U
88-06-2	2,4,6-Trichlorophenol	50		U
95-95-4	2,4,5-Trichlorophenol	250		U
121-14-2	2,4-Dinitrotoluene	50		U
118-74-1	Hexachlorobenzene	50		U
87-86-5	Pentachlorophenol	250		U

09/21/98 16:20 002/003

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/21/98

Injection Volume: 2.0(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) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.25	U
72-20-8	Endrin	1.0	U
76-44-8	Heptachlor	0.25	U
1024-57-3	Heptachlor Epoxide	0.25	U
72-43-5	Methoxychlor	2.5	U
8001-35-2	Toxaphene	25	U
12789-03-6	Technical Chlordane	25	U

003/003 Ω 09-21-98 16:20

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel

LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: Pesticides - RFA 249

Number of pages including the cover sheet 4

Message:

Amended Pest results. This is the last amendment. Herbs should be done by Wed.

Diane

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/19/98

Injection Volume: 2.0(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) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	3.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.88	JP
72-54-8	4,4'-DDD	7.6	U
72-55-9	4,4'-DDE	1.6	JP
50-29-3	4,4'-DDT	11	U
60-57-1	Dieldrin	0.36	JP
959-98-8	Endosulfan I	3.9	U
33213-65-9	Endosulfan II	0.98	J
1031-07-8	Endosulfan sulfate	7.6	U
72-20-8	Endrin	7.6	U
7421-93-4	Endrin Aldehyde	7.6	U
76-44-8	Heptachlor	0.67	JP
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	150	U
53494-70-5	Endrin Ketone	19	U
12789-03-6	Technical Chlordane	190	U
465-73-6	Isodrin	1.9	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/19/98

Injection Volume: 2.0(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) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.39	JP
72-54-8	4,4'-DDD	7.7	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.67	JP
60-57-1	Dieldrin	0.49	JP
959-98-8	Endosulfan I	4.0	U
33213-65-9	Endosulfan II	7.7	U
1031-07-8	Endosulfan sulfate	1.5	JP
72-20-8	Endrin	7.7	U
7421-93-4	Endrin Aldehyde	7.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	11	JP
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	150	U
53494-70-5	Endrin Ketone	2.3	JP
12789-03-6	Technical Chlordane	190	U
465-73-6	Isodrin	1.9	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont./Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/19/98

Injection Volume: 2.0 (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) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-84-6	alpha-BHC	0.26	JP
319-85-7	beta-BHC	4.0	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	0.99	JP
72-54-8	4,4'-DDD	7.7	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.80	JP
60-57-1	Dieldrin	0.77	JP
959-98-8	Endosulfan I	4.0	U
33213-65-9	Endosulfan II	7.7	U
1031-07-8	Endosulfan sulfate	1.7	JP
72-20-8	Endrin	7.7	U
7421-93-4	Endrin Aldehyde	7.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	0.41	JPB
72-43-5	Methoxychlor	12	JP
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	150	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	150	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	150	U
53494-70-5	Endrin Ketone	3.1	JP
12789-03-6	Technical Chlordane	190	U
465-73-6	Isodrin	1.9	U

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/23/98

To: Dane Olsen

LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: Herbicides - RFA 249

Number of pages including the cover sheet 4

Message:

Still need to send you a fax with TCLP herbicide data.

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910246

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.7	U
93-72-1	silvex	2.3	U
93-76-5	2,4,5-T	2.9	U

FORM I 8151

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910247

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.8	U
93-72-1	silvex	2.3	U
93-76-5	2,4,5-T	2.9	U

FORM I 8151

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910248

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/22/98

Injection Volume: 2.0(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) UG/KG	Q
94-75-7	2,4-D	5.8	U
93-72-1	silvex	2.3	U
93-76-5	2,4,5-T	2.9	U

FORM I 8151

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel

LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: RFA 249 - Metals

Number of pages including the cover sheet 4

Message:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL_ Lab Sample ID: 910246

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium	53.7			P
7440-43-9	Cadmium	0.73			P
7440-47-3	Chromium	12.9		E	P
7439-92-1	Lead	26.4		E	P
7439-97-6	Mercury	0.06	U	N	CV
7782-49-2	Selenium	0.67		N	P
7440-22-4	Silver	0.07	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

Undecanted Dry Weights____Container:1.31g__Wet:6.88g__Dry:6.14g_____

Duplicate_(SP1-SB-1-4-6D)_____

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901

Matrix (soil/water): SOIL_ Lab Sample ID: 910247

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.5			P
7440-39-3	Barium	51.1			P
7440-43-9	Cadmium	1.7			P
7440-47-3	Chromium	15.3		E	P
7439-92-1	Lead	17.9		E	P
7439-97-6	Mercury	0.06	U	N	CV
7782-49-2	Selenium	0.57	U	N	P
7440-22-4	Silver	0.07	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.32g__Dry:5.61g_____

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901_

Matrix (soil/water): SOIL_ Lab Sample ID: 910248

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	50.5			P
7440-43-9	Cadmium	1.0			P
7440-47-3	Chromium	10.7		E	P
7439-92-1	Lead	17.7		E	P
7439-97-6	Mercury	1.8		N	CV
7782-49-2	Selenium	0.56	U	N	P
7440-22-4	Silver	0.06	U		P

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW___ Clarity After: _____ Artifacts: _____

Comments:
Undecanted_Dry_Weights____Container:1.31g__Wet:6.88g__Dry:6.11g_____

FORM I - IN SW846

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: Cyanide - RFA 249

Number of pages including the cover sheet 5

Message:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910251

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _88.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.57	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
Undecanted_Dry_Weights____Container:1.30g__Wet:6.39g__Dry:5.79g_____
Duplicate_(SP1-CP-1D)_____

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910246

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.57	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights___Container:1.31g__Wet:6.88g__Dry:6.14g_____

Duplicate_(SP1-SB-1-4-6D)_____

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24901C

Matrix (soil/water): SOIL_ Lab Sample ID: 910247

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.57	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
Undecanted_Dry_Weights____Container:1.31g__Wet:6.32g__Dry:5.61g_____

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 249010

Matrix (soil/water): SOIL_ Lab Sample ID: 910248

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: _86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
	Cyanide	0.58	U		AS

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

Undecanted_Dry_Weights____Container:1.31g__Wet:6.88g__Dry:6.11g_____

FORM I - IN SW846

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: DRO - RFA249

Number of pages including the cover sheet 4

Message:

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-1-4-6

Lab Name: COMPUCHEM Contract:

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910755

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	57	U

FORM I 8015

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-2-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910763

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont./Sonc) SONC Date Extracted: 09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	58	U

FORM I 8015

FORM 1
8015 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-SB-3-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24901

Matrix: (soil/water) SOIL Lab Sample ID: 910764

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/21/98

Injection Volume: 4.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/KG	Q
9999-99-7	Diesel	58	U

FORM I 8015

COMPUCHEM

a division of Liberty Analytical Corp.

24/SEP/98

Dayton Stockpile
RFA 98-249 4250
Composite PCB
NOT TCLP!

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910251	SP1-CP-1	9/17/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 33825
SDG: 24902

SAMPLE IDENTIFICATION: SP1-CP-1

The one (1) soil sample listed above was received intact, properly refrigerated, with proper chain-of-custody (COC) documentation on September 17, 1998. The sample was prepared and analyzed following SW846 Method 8082 protocol for the PCB fraction.

PCBs

Extraction and analysis holding time requirements were met for this sample. No PCB target analytes were confirmed by dual column analysis at a concentration above the reporting limit in SP1-CP-1.

All of the surrogates met recovery and retention time criteria in the analyses of this sample and its associated quality control samples. The associated method blank met all quality control criteria. No PCBs were detected in the method blank.

SP1-CP-1 was used as the original to prepare the duplicate matrix spikes. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Sample (LCS) met all quality control 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 listed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the signature below.

Stephanie W. Winfield 9-21-98
Stephanie W. Winfield
Technical Reviewer
September 21, 1998

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vugel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~8270~~	PCB's ~~8080~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis 9/17/98

Sampler(s): Jane B. Olson

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C open & 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Jane B. Olson	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15 am	Yes 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

Complete per Gary Stanczuk 9/17/98

Samples placed in storage ID 1 & 3 9/17/98 9:45 am

Revision 01.1

CompuChem Receiving Log

Client: Chapman/LBG
Order #: 33X2F
Project: PFA 249
Quote #: 98-[illegible]
Account #: 50112

Received on: 9/12/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094246332
Subcontract Y / N
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # 249 Page 1 of 1
Lab Instructions: RCRA Met + CN / TCL
List - reg analysis / TCLP list on all TCLP samples / ~~Total Hg not analyzed be sure~~ 9/17/98
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	
1	24901	1	SP1-SB-1-4-6	910274	1-4oz/2-8oz	RCRA Met/CN/418.1 VOC/SV/Pest-PCB/Herb	4005, 1257, [illegible]	3,5,7,9,11,13,15	9/15/98	SO	NA
2		2	SP1-SB-2-4-5	[illegible]							
3		3	SP1-SB-3-4-5	[illegible]							
4	24902	4	SP1-SP-1	910281	1-4oz/2-8oz	RCRA Met/CN/418.1 VOC/SVOC/PCB/Herb	1137, 749, 1083, 4005, 2310, 1496, 1497, [illegible]	27, 29, 13 15 (2) [illegible]			
5	24903	5	TRIP01	910252	4-40mL vials	VOC	1356	1		WA	
6											
7											
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9/17/98

Logged In By: Dan Elmore
Order Entered By: Dan Elmore
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Blank(s) Counter / Page CCN's

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) SOIL Lab Sample ID: 910251

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/98

Injection Volume: 2.0(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) UG/KG	Q
12674-11-2------	Aroclor-1016	37	U
11104-28-2------	Aroclor-1221	49	U
11141-16-5------	Aroclor-1232	37	U
53469-21-9------	Aroclor-1242	26	U
12672-29-6------	Aroclor-1248	26	U
11097-69-1------	Aroclor-1254	26	U
11096-82-5------	Aroclor-1260	37	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKLE

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) SOIL Lab Sample ID: 910304

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:09/17/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/98

Injection Volume: 2.0(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) UG/KG	Q
12674-11-2	Aroclor-1016	32	U
11104-28-2	Aroclor-1221	42	U
11141-16-5	Aroclor-1232	32	U
53469-21-9	Aroclor-1242	22	U
12672-29-6	Aroclor-1248	22	U
11097-69-1	Aroclor-1254	22	U
11096-82-5	Aroclor-1260	32	U

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKLE

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab Sample ID: 910304 Lab File ID: _____

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 09/17/98

Date Analyzed (1): 09/18/98 Date Analyzed (2): 09/18/98

Time Analyzed (1): 2038 Time Analyzed (2): 2038

Instrument ID (1): HP17 Instrument ID (2): HP16

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(m

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCSLE	910305	09/18/98	09/18/98
02	SP1-CP-1MS	910285	09/18/98	09/18/98
03	SP1-CP-1MSD	910286	09/18/98	09/18/98
04	SP1-CP-1	910251	09/18/98	09/18/98
05				
06				
07				
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26				

COMMENTS: _____

FORM IV PEST

FORM 2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (m

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKLE	108	113	112	109			0
02	PLCSLE	103	109	112	111			0
03	SP1-CP-1MS	100	95	111	113			0
04	SP1-CP-1MSD	93	88	103	106			0
05	SP1-CP-1	99	98	106	112			0
06								
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ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (30-150)
S2 (DCB) = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix Spike - Sample No.: SP1-CP-1

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aroclor-1254	380	0.0	320	84	50-150

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1254	380	370	97	14	20	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL PESTICIDE METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

COMPOUND	SPIKE ADDED (uq/Kg	CONCENTRATION (ug/Kg)	% REC #	QC. LIMITS REC.
Aroclor-1254	330	270	82	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

COMPUCHEM
a division of Liberty Analytical Corp.

Dayton Stockpile
RFA 98-349 8250
Herbicides

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 3 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/23/98

To: Dave Olsen
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: TCLP Herbicide - RFA249

Number of pages including the cover sheet 2

Message:

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 200.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/23/98

Injection Volume: 2.0(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) UG/L	Q
94-75-7	2,4-D	7.5	U
93-76-5	2,4,5-T	2.5	U

FORM I 8151

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: TCLP Metal - RFA249

Number of pages including the cover sheet 2

Message:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Matrix (soil/water): WATER Lab Sample ID: 910251

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	3.7	U		P_
7440-39-3	Barium__	343			P_
7440-43-9	Cadmium__	4.4	B		P_
7440-47-3	Chromium_	1.2	B		P_
7439-92-1	Lead_____	12.1			P_
7439-97-6	Mercury__	0.10	U		CV
7782-49-2	Selenium_	20.5		N	P_
7440-22-4	Silver___	0.60	U		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

Duplicate_(SP1-CP-1D)

FORM I - IN SW846

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: PCB - RFA1249
Composite sample should be TCLP

Number of pages including the cover sheet 2

Message:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SP1-CP-1

Project: V118:8082_RTX17 Date Sampled: 15-SEP-1998

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) SOIL Lab Sample ID: 910251

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 09/17/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/18/98

Injection Volume: 2.0(uL) Dilution Factor: 1.0

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

CONCENTRATION UNITS:

CAS NO.	COMPOUND	DL	CONC	Q
12674-11-2------	Aroclor-1016	37	37	U
11104-28-2------	Aroclor-1221	49	49	U
11141-16-5------	Aroclor-1232	37	37	U
53469-21-9------	Aroclor-1242	26	26	U
12672-29-6------	Aroclor-1248	26	26	U
11097-69-1------	Aroclor-1254	26	26	U
11096-82-5------	Aroclor-1260	37	37	U

FORM I PEST

TOTAL PETROLEUM HYDROCARBONS IN SOIL ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	SP1-SB-1-4-6	910246	108	50.0
2.	SP1-SB-2-4-5	910247	93.2	50.0
3.	SP1-SB-3-4-5	910248	325	50.0
4.	SP1-CP-1	910251	120	50.0

This one was listed as a TPH analysis on TCLP extract

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem 12326 Date: 9/21/98

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: RFA 249 - 418.1 Results

Number of pages including the cover sheet 2

Message:

CompuChem
a Division of Liberty Analytical
501 Madison Ave.
Cary, NC 27513

FAX COVER SHEET

Date: 9/21/98

To: Ken Vogel
LBG

Fax: 651-490-1006

From: Diane Ellmore

Phone: 919-379-4011
Fax: 919-379-4040

RE: React/Corr/Ignit - RFA249

Number of pages including the cover sheet 5

Message:

CORROSIVITY BY PH ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (units)	REPORTING LIMIT (units)
1.	SP1-SB-1-4-6	910755	7.49	0.000
2.	SP1-SB-2-4-5	910763	8.12	0.000
3.	SP1-SB-3-4-5	910764	8.23	0.000

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulom / 02326 Date: 9/21/98

IGNITABILITY ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (F)	REPORTING LIMIT (F)
1.	SP1-SB-1-4-6	910755	NWR	140
2.	SP1-SB-2-4-5	910763	NWR	140
3.	SP1-SB-3-4-5	910764	NWR	140

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem / 2326 Date: 9/21/98

REACTIVE CYANIDE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	SP1-SB-1-4-6	910755	BRL	125
2.	SP1-SB-2-4-5	910763	BRL	125
3.	SP1-SB-3-4-5	910764	BRL	125

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Bulem 12326 Date: 9/21/98

REACTIVE SULFIDE ANALYSIS

SUMMARY REPORT

ITEM NO.	SAMPLE IDENTIFIER	COMPUCHEM NUMBER	CONCENTRATION (mg/kg)	REPORTING LIMIT (mg/kg)
1.	SP1-SB-1-4-6	910755	BRL	125
2.	SP1-SB-2-4-5	910763	BRL	125
3.	SP1-SB-3-4-5	910764	BRL	125

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S Bulem 12326 Date: 9/21/98

COMPUCHEM

a division of Liberty Analytical Corp.

Dayton Stockpile
RFA 98.249 8250
TCLP VOC's

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel. 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910251	SP1-CP-1	9/17/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN010251A56.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. _____ Date Analyzed: 09/19/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	50		U
75-35-4	1,1-Dichloroethene	50		U
67-66-3	Chloroform	50		U
107-06-2	1,2-Dichloroethane	50		U
56-23-5	Carbon Tetrachloride	50		U
79-01-6	Trichloroethene	50		U
71-43-2	Benzene	50		U
127-18-4	Tetrachloroethene	50		U
108-90-7	Chlorobenzene	50		U
78-93-3	2-butanone	50		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1MS

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910271

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN010271A56.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. _____ Date Analyzed: 09/19/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	50	520	
75-35-4	1,1-Dichloroethene	50	570	
67-66-3	Chloroform	50	580	
107-06-2	1,2-Dichloroethane	50	590	
56-23-5	Carbon Tetrachloride	50	630	
79-01-6	Trichloroethene	50	550	
71-43-2	Benzene	50	560	
127-18-4	Tetrachloroethene	50	610	
108-90-7	Chlorobenzene	50	640	
78-93-3	2-butanone	50	190	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1MSD

Project: RFA249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910272

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN010272A56.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: not dec. _____ Date Analyzed: 09/19/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	50	510	
75-35-4	1,1-Dichloroethene	50	560	
67-66-3	Chloroform	50	570	
107-06-2	1,2-Dichloroethane	50	580	
56-23-5	Carbon Tetrachloride	50	610	
79-01-6	Trichloroethene	50	530	
71-43-2	Benzene	50	550	
127-18-4	Tetrachloroethene	50	600	
108-90-7	Chlorobenzene	50	630	
78-93-3	2-butanone	50	190	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

ZHEBLKN4

Project: RFA249 Date Sampled: 00/00/00

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910303

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN010303A56.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. _____ Date Analyzed: 09/19/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
75-01-4	Vinyl Chloride	50		U
75-35-4	1,1-Dichloroethene	50		U
67-66-3	Chloroform	50		U
107-06-2	1,2-Dichloroethane	50		U
56-23-5	Carbon Tetrachloride	50		U
79-01-6	Trichloroethene	50		U
71-43-2	Benzene	50		U
127-18-4	Tetrachloroethene	50		U
108-90-7	Chlorobenzene	50		U
78-93-3	2-butanone	50	25	J

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKKQ

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab File ID: CB980919A56.D Lab Sample ID: VBLKKQ

Date Analyzed: 09/19/98 Time Analyzed: 1159

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS13	910273	CN010273A56.D	1344
02	ZHEBLKN4	910303	CN010303A56.D	1504
03	SP1-CP-1	910251	CN010251A56.D	1538
04	SP1-CP-1MS	910271	CN010271A56.D	1618
05	SP1-CP-1MSD	910272	CN010272A56.D	1657
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKKQ

Project: Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB980919A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 09/19/98

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	10		U
75-35-4	1,1-Dichloroethene	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
79-01-6	Trichloroethene	10		U
71-43-2	Benzene	10		U
127-18-4	Tetrachloroethene	10		U
108-90-7	Chlorobenzene	10		U
78-93-3	2-butanone	10		U

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

	SAMPLE NO.	SMC1 (DCE) #	SMC2 ( ) #	SMC3 (TOL) #	OTHER (BFB)	TOT OUT
01	SP1-CP-1	106	108	99	100	0
02	SP1-CP-1MS	102	106	97	98	0
03	SP1-CP-1MSD	104	107	97	99	0
04	VBLKKQ	105	102	106	105	0
05	VLCS13	100	104	98	97	0
06	ZHEBLKN4	104	104	98	98	0
07						
08						
09						
10						
11						
12						
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23						
24						
25						
26						
27						
28						
29						
30						

			QC LIMITS
SMC1	(DCE)	= 1,2-Dichloroethane-d4	(80-120)
SMC2	( )	= Dibromofluoromethane	(80-120)
SMC3	(TOL)	= Toluene-d8	(80-120)
OTHER	(BFB)	= Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix Spike - Sample No.: SP1-CP-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Vinyl Chloride	500.0	0.000	520.0	104	1-251
1,1-Dichloroethene	500.0	0.000	571.1	114	1-234
Chloroform	500.0	0.000	580.3	116	51-138
1,2-Dichloroethane	500.0	0.000	594.0	119	49-155
Carbon Tetrachloride	500.0	0.000	628.4	126	70-140
Trichloroethene	500.0	0.000	552.0	110	71-157
Benzene	500.0	0.000	562.0	112	37-151
Tetrachloroethene	500.0	0.000	608.6	122	64-148
Chlorobenzene	500.0	0.000	640.5	128	37-160
2-butanone	500.0	0.000	186.1	37	1-200

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl Chloride	500.0	505.7	101	3	20	1-251
1,1-Dichloroethene	500.0	564.4	113	1	20	1-234
Chloroform	500.0	565.9	113	3	20	51-138
1,2-Dichloroethane	500.0	584.3	117	2	20	49-155
Carbon Tetrachloride	500.0	612.3	122	3	20	70-140
Trichloroethene	500.0	532.1	106	4	20	71-157
Benzene	500.0	550.8	110	2	20	37-151
Tetrachloroethene	500.0	597.8	120	2	20	64-148
Chlorobenzene	500.0	630.5	126	2	20	37-160
2-butanone	500.0	189.8	38	3	20	1-200

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 10 outside limits
Spike Recovery: 0 out of 20 outside limits

COMMENTS: _____

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS13

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab Sample ID: 910273 LCS Lot No.: 47808A

Lab File ID: CN010273A56.D Date Analyzed: 09/19/98

Purge Volume: 5.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Carbon Tetrachloride	100.0	122.2	122	70-140
Tetrachloroethene	100.0	122.1	122	64-148
Benzene	100.0	111.5	112	37-151
1,2-Dichloroethane	100.0	113.5	114	49-155
Trichloroethene	100.0	107.2	107	71-157
2-butanone	100.0	43.09	43	1-200
Chloroform	100.0	113.5	114	51-138
Chlorobenzene	100.0	132.6	133	37-160
1,1-Dichloroethene	100.0	111.6	112	1-234
Vinyl Chloride	100.0	106.1	106	1-251

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 10 total.

COMMENTS:

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 15 cm of 2,6-diphenylene oxide polymer (Tenax) * 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of silica gel * 0.5 cm of glass wool at each end

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

DATA REPORTING QUALIFIERS

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

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

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 (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), 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.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

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 is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. 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 will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations 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.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 9/8/98 OE 9/17/98

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC's ~~8270~~	PCB's ~~8080~~	Herb/Pest	RCRA metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA metals + CN	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								*
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis OE 9/17/98

Sampler(s)
Dave B. Olson

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7°C open t OE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dave B. Olson	9/16/98	10:00				Yes No
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by: Diane Ellmore	Date: 9/17/98	Time: 9:15am	Custody Seal Intact? Yes 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

Complete per Gary Stanczuk OE 9/17/98

Samples placed in storage ID 1 & 3 OE 9/17/98 9:45am

Revision No. 8
Created September 23, 1996

WATER BATCH SHEET

RFA 249 - 48 HR TAT

Date Batched 9/17/98
Case 33825.24902
Instrument Code

LINKER W8247Z

TAT _____ SOW _____

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	910271		SS		–	1618	09.19.98	56	2347		899/645	of	of
2)	910272		SS		–	1657	↓	↓	↓			of	of
3)	910273	VLCS13	LCS		–	1344	09.19.98	56	2347			of	of
4)	910251	SPI-CP-1			7	1538	↓	↓	↓	10/2		of	of
5)	910303	ZHEBLKN4			5	1504	09.19.98	56	2347			of	of
6)												of	of
7)												of	of
8)												of	of
9)												of	of
10)												of	of
11)												of	of
12)												of	of
13)												of	of
14)												of	of
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16)												of	of
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21)												of	of
22)												of	of
23)												of	of

Relinquished By Ref 2 Date 09.19.98 Received By KP Date 09.19.98

Relinquished By KP Date 09.19.98 Received By Ref 2 Date 09.19.98

Relinquished By _____ Date _____ Received By _____ Date _____

Log Page Updated _____

CompuChem Receiving Log

Client: Chrysler/LTSG
Order #: 33825
Project: RFA 249
Quote #: 98-7031
Account #: 50112

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094340-32
Subcontract Y (N)
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS (RFA) # 249 Page 1 of 1
Lab Instructions: RCRA list + CN / TCL
list - req analysis / TCL list on all ~~TCL~~ samples / ~~Trace TCL not analyzed for soil~~ 9/17/98
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	[illegible]
1	24901	1	SP1-SB-1-4-6	916244	1-4oz/2-8oz	RCRA list/CN/918.1 VOC/SV/Pest/PCB/Herb	4005, 1357, [illegible]	[illegible]	9/15/98	SO	NA
2	↓	2	SP1-SB-2-4-5	916247	↓	↓	↓	↓	↓	↓	↓
3	↓	3	SP1-SB-3-4-5	916248	↓	↓	↓	↓	↓	↓	↓
4	24902	4	SP1-SP-1	916251	1-4oz/2-8oz	[illegible]	1137, 749, 1083, 4005, 2016, [illegible]	27, 29, 13, 15, [illegible]	↓	↓	↓
5	24903	5	TOC[illegible]1	916251	4-40 ml vials	VOC	1356	1	↓	WA	↓
6											
7											
8											
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10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

9/17/98

Logged In By: [signature]
Order Entered By: [signature]
Cyanide samples checked for sulfide and chlorine Y (NA)
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's

COMPUCHEM

a division of Liberty Analytical Corp.

24/SEP/98

Dayton Stockpile
RFA #12-241 & 250
TCLP Svcs

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910251	SP1-CP-1	9/17/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
A division of Liberty Analytical Corporation
501 MADISON AVE..
CARY, NC 27513
(919) 379-4100

SDG NARRATIVE

CASE #33825
SDG #24902
PROTOCOL : SW-846
METHOD : 8270

SAMPLE: SP1-CP-1

Attached are pertinent analytical data dealing with the analysis of one (1) soil sample associated with Case #33825, SDG #24902. The sample was received intact on September 17, 1998 in properly sealed shipping containers with the corresponding chains-of-custody. The sample was logged into the CompuChem Laboratory Management system and scheduled for the analysis of the semivolatile fraction by Method 8270.

SEMIVOLATILE
The semivolatile fraction was leached, extracted and analyzed within the required holding time. The sample was leached using the Toxicity Characteristic Leaching Procedure (TCLP). No target analytes were detected with concentrations above the reporting limits in the sample.

QC SUMMARY
The surrogates met recovery criteria for the semivolatile sample. The duplicate matrix spikes met accuracy and precision criteria, with one exception. The relative percent difference value for pentachlorophenol failed acceptance criteria in the comparison of the duplicate matrix spikes. The associated blanks, initial calibrations 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
Final Technical Reviewer
21 September 1998

DATA REPORTING QUALIFIERS

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

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

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 (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), 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.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

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 is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. 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 will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations 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.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

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X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

800-833-5097
[illegible]-334-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vugel
Phone: 651-490-1405 Fax: 651-490-1[illegible]

Gary Stanczuk 9/17/98 JS: TAT DE 9/17/98

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~8270~~	PCB's ~~8082~~	Herb/Pest	RCRA metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
CP-1	9/15/98	15:10	C	S	3							X	X	X					*Extract & Hold*
Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Bottles Relinquished under Airbill No. ~~801309434632~~
Samples Relinquished under Airbill No. 801309434632
Temperature (corrected) 3.7C DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Anne B. Olson	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15am	Yes No

Samples Intact? Yes 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

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45am

Revision No 1

[illegible] Crosslen / L-13G
[illegible] 33825
[illegible] RFA 249
[illegible] 98-7053
[illegible] 501113

Received on 9/17/98 # of COC's 1
Delivered by Federal Express
Freight # 8013094346332
Subcontract Y / N
TAT : Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # 249 Page 1 of 1
Lab Instructions : RCRA list + CN / TCL
list - reg analysis / TCL list on all TCLP
samples / ~~TCLP list not analyzed for soils~~ 9/17
Pick QC

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	[illegible]	[illegible]
24901	1	SP1-SB-1-4-6	916241	1-4oz/2-8oz	RCRA Metals/CN/418.1 VOC/SVOC/Pest/PCB/Herb	4005, 1357, 748, 20, 20, 479, 574, 1083	3, 5, 7, 9, 11, 13, 15	9/15/98	50	NA
	2	SP1-SB-2-4-5	916247							
	3	SP1-SB-3-4-5	916248							
24902	4	SP1-SP-1	916251	1-4oz/2-8oz	Metals/VOC/SVOC/Pest/Herb	1137, 749, 1083, 4005, 230	27, 29, 31, 35			
24903	5	TCC221	916251	4-40ml vials	VOC	1356	1		NA	

9/17/98

Logged In By : [illegible]
Order Entered By : [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s): Counter / Page / CCN's /
Temperature(s) [illegible] °C

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 100 (g/mL) ML Lab File ID: GJ010251A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/18/98

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/19/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	50		U
106-46-7	1,4-Dichlorobenzene	50		U
95-48-7	2-Methylphenol	50		U
108-39-4	3-Methylphenol	50		U
106-44-5	4-Methylphenol	50		U
67-72-1	Hexachloroethane	50		U
98-95-3	Nitrobenzene	50		U
87-68-3	Hexachlorobutadiene	50		U
88-06-2	2,4,6-Trichlorophenol	50		U
95-95-4	2,4,5-Trichlorophenol	250		U
121-14-2	2,4-Dinitrotoluene	50		U
118-74-1	Hexachlorobenzene	50		U
87-86-5	Pentachlorophenol	250		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1MS

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910274

Sample wt/vol: 100 (g/mL) ML Lab File ID: G2J10274A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/18/98

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/20/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	50	82	
106-46-7	1,4-Dichlorobenzene	50	110	
95-48-7	2-Methylphenol	50	130	
108-39-4	3-Methylphenol	50	120	
106-44-5	4-Methylphenol	50	120	
67-72-1	Hexachloroethane	50	110	
98-95-3	Nitrobenzene	50	140	
87-68-3	Hexachlorobutadiene	50	140	
88-06-2	2,4,6-Trichlorophenol	50	140	
95-95-4	2,4,5-Trichlorophenol	250	150	J
121-14-2	2,4-Dinitrotoluene	50	140	
118-74-1	Hexachlorobenzene	50	160	
87-86-5	Pentachlorophenol	250	110	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SP1-CP-1MSD

Project: YGQP9800249 Date Sampled: 09/15/98

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910275

Sample wt/vol: 100 (g/mL) ML Lab File ID: GJ010275A68.D

Level: (low/med) LOW Date Received: 09/17/98

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/18/98

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/19/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	50	110	
106-46-7	1,4-Dichlorobenzene	50	140	
95-48-7	2-Methylphenol	50	170	
108-39-4	3-Methylphenol	50	160	
106-44-5	4-Methylphenol	50	160	
67-72-1	Hexachloroethane	50	140	
98-95-3	Nitrobenzene	50	170	
87-68-3	Hexachlorobutadiene	50	170	
88-06-2	2,4,6-Trichlorophenol	50	190	
95-95-4	2,4,5-Trichlorophenol	250	190	J
121-14-2	2,4-Dinitrotoluene	50	190	
118-74-1	Hexachlorobenzene	50	200	
87-86-5	Pentachlorophenol	250	180	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SLCSLN

Project: YGQP9800249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910445

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ010445A68.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/18/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/19/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	10	11	
106-46-7	1,4-Dichlorobenzene	10	26	
95-48-7	2-Methylphenol	10	30	
108-39-4	3-Methylphenol	10	26	
106-44-5	4-Methylphenol	10	26	
67-72-1	Hexachloroethane	10	25	
98-95-3	Nitrobenzene	10	30	
87-68-3	Hexachlorobutadiene	10	31	
88-06-2	2,4,6-Trichlorophenol	10	33	
95-95-4	2,4,5-Trichlorophenol	50	34	J
121-14-2	2,4-Dinitrotoluene	10	34	
118-74-1	Hexachlorobenzene	10	32	
87-86-5	Pentachlorophenol	50	29	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLKLN

Project: YGQP9800249 Date Sampled: _____

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910444

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ010444A68.D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 09/18/98

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/19/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	10		U
106-46-7	1,4-Dichlorobenzene	10		U
95-48-7	2-Methylphenol	10		U
108-39-4	3-Methylphenol	10		U
106-44-5	4-Methylphenol	10		U
67-72-1	Hexachloroethane	10		U
98-95-3	Nitrobenzene	10		U
87-68-3	Hexachlorobutadiene	10		U
88-06-2	2,4,6-Trichlorophenol	10		U
95-95-4	2,4,5-Trichlorophenol	50		U
121-14-2	2,4-Dinitrotoluene	10		U
118-74-1	Hexachlorobenzene	10		U
87-86-5	Pentachlorophenol	50		U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TCLPBLKLD

Project: YGQP9800249 Date Sampled: 00/00/00

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910302

Sample wt/vol: 250 (g/mL) ML Lab File ID: GJ010302A68.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/18/98

Concentrated Extract Volume: 500(uL) Date Analyzed: 09/19/98

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
110-86-1	Pyridine	20		U
106-46-7	1,4-Dichlorobenzene	20		U
95-48-7	2-Methylphenol	20		U
108-39-4	3-Methylphenol	20		U
106-44-5	4-Methylphenol	20		U
67-72-1	Hexachloroethane	20		U
98-95-3	Nitrobenzene	20		U
87-68-3	Hexachlorobutadiene	20		U
88-06-2	2,4,6-Trichlorophenol	20		U
95-95-4	2,4,5-Trichlorophenol	100		U
121-14-2	2,4-Dinitrotoluene	20		U
118-74-1	Hexachlorobenzene	20		U
87-86-5	Pentachlorophenol	100		U

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLKLN

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab File ID: GJ010444A68.D Lab Sample ID: 910444

Instrument ID: 5972HP68 Date Extracted: 09/18/98

Matrix: (soil/water) WATER Date Analyzed: 09/19/98

Level:(low/med) LOW Time Analyzed: 1301

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSLN	910445	GJ010445A68.D	09/19/98
02	TCLPBLKLD	910302	GJ010302A68.D	09/19/98
03	SP1-CP-1	910251	GJ010251A68.D	09/19/98
04	SP1-CP-1MSD	910275	GJ010275A68.D	09/19/98
05	SP1-CP-1MS	910274	G2J10274A68.D	09/20/98
06				
07				
08				
09				
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30				

COMMENTS:

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

	SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 #	S8 #	TOT OUT
01	SBLKLN	59	59	62	25	37	63			0
02	SLCSLN	58	60	61	26	38	70			0
03	SP1-CP-1	65	64	63	41	51	73			0
04	SP1-CP-1MS	53	51	56	31	39	61			0
05	SP1-CP-1MSD	67	69	70	42	50	79			0
06	TCLPBLKLD	71	67	67	42	52	60			0
07										
08										
09										
10										
11										
12										
13										
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25										
26										
27										
28										
29										
30										

			QC LIMITS
S1	(NBZ)	= Nitrobenzene-d5	(35-114)
S2	(FBP)	= 2-Fluorobiphenyl	(43-116)
S3	(TPH)	= Terphenyl-d14	(33-141)
S4	(PHL)	= Phenol-d5	(10-110)
S5	(2FP)	= 2-Fluorophenol	(21-110)
S6	(TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix Spike - Sample No.: SP1-CP-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Pyridine	250.0	0.000	81.93	33	1-200
1,4-Dichlorobenzene	250.0	0.000	111.3	44	20-124
2-Methylphenol	250.0	0.000	129.4	52	1-200
3-Methylphenol	500.0	0.000	117.9	24	1-200
4-Methylphenol	500.0	0.000	117.9	24	1-200
Hexachloroethane	250.0	0.000	110.6	44	40-113
Nitrobenzene	250.0	0.000	137.3	55	35-180
Hexachlorobutadiene	250.0	0.000	135.1	54	24-116
2,4,6-Trichlorophenol	250.0	0.000	140.7	56	37-144
2,4,5-Trichlorophenol	250.0	0.000	150.9	60	37-144
2,4-Dinitrotoluene	250.0	0.000	138.6	55	39-139
Hexachlorobenzene	250.0	0.000	157.4	63	1-152
Pentachlorophenol	250.0	0.000	110.2	44	14-176

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Pyridine	250.0	114.2	46	33	40	1-200
1,4-Dichlorobenzene	250.0	143.3	57	26	40	20-124
2-Methylphenol	250.0	167.4	67	25	40	1-200
3-Methylphenol	500.0	155.5	31	25	40	1-200
4-Methylphenol	500.0	155.5	31	25	40	1-200
Hexachloroethane	250.0	135.4	54	20	40	40-113
Nitrobenzene	250.0	165.8	66	18	40	35-180
Hexachlorobutadiene	250.0	167.0	67	21	40	24-116
2,4,6-Trichlorophenol	250.0	193.7	77	32	40	37-144
2,4,5-Trichlorophenol	250.0	193.0	77	25	40	37-144
2,4-Dinitrotoluene	250.0	186.5	75	31	40	39-139
Hexachlorobenzene	250.0	195.3	78	21	40	1-152
Pentachlorophenol	250.0	182.3	73	50*	40	14-176

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 13 outside limits
Spike Recovery: 0 out of 26 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

SLCSLN

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab Sample ID: 910445 LCS Lot No.: 47543

Lab File ID: GJ010445A68.D Date Extracted: 09/18/98

LCS Aliquot: 1000 (uL) Date Analyzed: 09/19/98

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

injection Volume: 1.0 (uL) pH: ____

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Pyridine	50.00	11.46	23	1-200
1,4-Dichlorobenzene	50.00	26.43	53	20-124
2-Methylphenol	50.00	30.05	60	1-200
3-Methylphenol	100.0	26.00	26	1-200
4-Methylphenol	100.0	26.00	26	1-200
Hexachloroethane	50.00	24.89	50	40-113
Nitrobenzene	50.00	30.24	60	35-180
Hexachlorobutadiene	50.00	30.68	61	24-116
2,4,6-Trichlorophenol	50.00	33.20	66	37-144
2,4,5-Trichlorophenol	50.00	34.47	69	37-144
2,4-Dinitrotoluene	50.00	34.28	68	39-139
Hexachlorobenzene	50.00	32.02	64	1-152
Pentachlorophenol	50.00	28.55	57	14-176

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 13 total.

COMMENTS: _____

FORM III

COMPUCHEM

a division of Liberty Analytical Corp.

24/SEP/98

Dayton Stockpile
RFA 98-249 #250
TCLP Herbicides

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM

a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910251	SP1-CP-1	9/17/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, North Carolina 27513

SDG NARRATIVE

CASE: 33825
SDG: 24902

SAMPLE IDENTIFICATION: SP1-CP-1

The one (1) soil sample listed above was received intact, properly refrigerated, with proper chain-of-custody (COC) documentation, on September 17, 1998. The sample was prepared following Toxicity Characteristic Leaching Procedure (TCLP) protocol. The leachate was then extracted and analyzed for the herbicide fractions following SW846 Method 8151A protocol.

HERBICIDE

Leaching, extraction, and analysis holding time requirements were met for this sample. No herbicide target analytes were confirmed by dual column analysis at a concentration at the reporting limit in SP1-CP-1.

All of the surrogates met recovery and retention time criteria in the analyses of this sample and its associated quality control samples. The associated method blanks met all quality control criteria. No herbicide target analytes were confirmed in the leachate or extraction blank.

SP1-CP-1 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Sample (LCS) did met all quality control 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 listed 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.

Stephanie W. Winfield 9-24-98
Stephanie W. Winfield
Technical Reviewer
September 24, 1998

DATA REPORTING QUALIFIERS

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

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

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 (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), 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.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

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 is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. 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 will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations 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.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vugel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days
Per Gary Stanczuk 48/72 hr. TAT 9/17/98

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~8270~~	PCB's ~~8080~~	Herb /Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T0000i	9/15/98										X								

Per Gary Stanczuk, perform full analysis 9/17/98

Sampler(s)
Steve B. Olson
[illegible]

Cooler ID # 68
Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Steve B. Olson	9/16/98	10:00				Yes No
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by: Steve Ellmore	Date: 9/17/98	Time: 9:25 am	Custody Seal Intact? Yes 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

complete per Gary Stanczuk 9/17/98

Samples placed in direct [illegible] 9/17/98 9:45 am

Revision No. 1

Sample Receiving Log

Client: Chrysler/LLC
Order #: 33X25
Project: RFA 249
Quote #: 98-[illegible]
Account #: 50113

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8C130942942 32
Subcontract Y / N
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA # [illegible] Page 1 of 1
Lab Instructions: RCRA VOC + CN / TCL
list - req. analysis / TCL list on all TCLP samples ~~[illegible]~~ 9/17
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	[illegible]	[illegible]
1	24901	1	SP1-SB-1-4-6	91024-	1-4oz/2-8oz	PARAMETER/418.1 VOC/[illegible]	4005, 1357, [illegible]	[illegible]	9/15/98	50	NA
2	↓	2	SP1-SB-2-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
3	↓	3	SP1-SB-2-4-5	[illegible]	↓	↓	↓	↓	↓	↓	↓
4	24902	4	SP1-SB-1	91023-1	1-4oz/2-8oz	[illegible]	1132, 744, 1083, 4005, 2382, 1486, [illegible]	[illegible]	↓	↓	↓
5	24902	5	[illegible]	91025-1	4-[illegible]	[illegible]	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13						9/17/98					
14					[illegible]						
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Number Blank(s) Counter / Page / CCN's

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 200.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/23/98

Injection Volume: 2.0(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) UG/L	Q
94-75-7	2,4-D	7.5	U
93-76-5	2,4,5-T	2.5	U

Herbicides

FORM I 8151

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TCLPBLKLD

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910302

Sample wt/vol: 200.0 (g/ml) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/23/98

Injection Volume: 2.0(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) UG/L	Q
94-75-7	2,4-D	7.5	U
93-76-5	2,4,5-T	2.5	U

FORM 1
8151 ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

HBLKLP

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910448

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 5000(ul) Date Analyzed: 09/23/98

Injection Volume: 2.0(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) UG/L	Q
94-75-7	2,4-D	1.5	U
93-76-5	2,4,5-T	0.50	U

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

HBLKLP

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab Sample ID: 910448 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 09/18/98

Date Analyzed (1): 09/23/98 Date Analyzed (2): 09/23/98

Time Analyzed (1): 0233 Time Analyzed (2): 0233

Instrument ID (1): VARIAN06 Instrument ID (2): VARIAN07

GC Column (1): RTX-35 ID: 0.53(mm) GC Column (2): RTX1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	HLCSLP	910449	09/23/98	09/23/98
02	SP1-CP-1MS	910283	09/23/98	09/23/98
03	SP1-CP-1MSD	910284	09/23/98	09/23/98
04	TCLPBLKLD	910302	09/23/98	09/23/98
05	SP1-CP-1	910251	09/23/98	09/23/98
06				
07				
08				
09				
10				
11				
12				
13				
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21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

FORM 2
WATER 8151 SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): RTX1701 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	HBLKLP	102	102					0
02	HLCSLP	94	87					0
03	SP1-CP-1MS	85	76					0
04	SP1-CP-1MSD	84	71					0
05	TCLPBLKLD	71	62					0
06	SP1-CP-1	72	55					0
07								
08								
09								
10								
11								
12								
13								
14								
15								
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21								
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23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = DCAA (0-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
WATER 8151 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix Spike - Sample No.: SP1-CP-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
2,4-D	40	0.0	34	85	70-130
2,4,5-T	10	0.0	8.8	88	70-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-D	40	31	78	8	40	70-130
2,4,5-T	10	8.6	86	2	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER 8151 METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
2,4-D	8.0	7.8	98	70-130
2,4,5-T	2.0	1.9	95	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

COMPUCHEM

a division of Liberty Analytical Corp.

Dayton Stockpile
RFA 98-249 & 250
TCLP Pesticides

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910251	SP1-CP-1	9/17/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE

CASE: 33825
SDG: 24902

SAMPLE IDENTIFICATIONS: SP1-CP-1

The one (1) soil sample listed above was received intact, properly refrigerated, with proper chain-of-custody (COC) documentation, on September 17, 1998. The sample was prepared following Toxicity Characteristic Leaching Procedure (TCLP) protocol. The leachate was then extracted and analyzed for the pesticide fraction following SW846 Method 8081 protocol.

PESTICIDE

Leaching, extraction, and analysis holding time requirements were met for this sample. No pesticide target analytes were detected at a concentration above the reporting limit in SP1-CP-1.

These samples were analyzed on a single DB-608 column. If any target analytes had been detected, the sample would have been analyzed on a second, confirmation column.

All of the surrogates met recovery and retention time criteria in the analyses of this sample and its associated quality control samples. The associated method blank met all quality control criteria. No target analytes were detected in the method blank.

SP1-CP-1 was used as the original to prepare the duplicate matrix spikes. The associated duplicate matrix spikes met all advisory accuracy and precision criteria with one exception. The Relative Percent Difference (RPD) of toxaphene was flagged as an outlier in the comparison of the duplicate matrix spikes. The associated Laboratory Control Sample (LCS) met all quality control 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 listed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Stephanie W. Winfield 9-21-98
Stephanie W. Winfield
Technical Reviewer
September 21, 1998

DATA REPORTING QUALIFIERS

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

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

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 (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), 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.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : **This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)**

DATA REPORTING QUALIFIERS (continued)

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 is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. 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 will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations 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.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-83 -5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vugel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~PAH~~	PCB's ~~PAH~~	Herb/Pest	RCRA Metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/Pb	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					* Extract & Hold *
Trip Blank T00001	9/15/98										X								

Per Gary Stanczuk, perform full analysis DE 9/17/98

Sampler(s)
Dave B. Olson
[illegible]

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C DE 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dave B. Olson	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15am	Yes 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

Complete per Gary Stanczuk DE 9/17/98

Samples placed in storage ID 1 & 3 DE 9/17/98 9:45am

Revision No. 1

CompuChem Receiving Log

Client: Chrysler/LCG
Order #: 33825
Project: PPA 249
Quote #: 98-[illegible]
Account #: 50112

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094346312
Subcontract Y / N: N
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS / RFA #: 249 Page 1 of 1
Lab Instructions: RCRA 1001 + CN / TCL
list - req analysis / TCL list on all TCLP samples / ~~TCLP TB 1311 analyzed on soils~~ 9/17/98
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MA	[illegible]
1	24901	1	SP1-SB-1-4-6	916274	1-4oz/2-8oz	RCRA 1001 + CN / 418.1 VOC / SV / Pest / PCB / Herb	4005, 1357, 748, 2020, 479, 574, 1053	3, 5, 7, 9, 11, 13, 15	9/15/98	50	NA
2	↓	2	SP1-SB-2-4-5	916277	↓	↓	↓	↓	↓	↓	↓
3	↓	3	SP1-SB-3-4-5	916278	↓	↓	↓	↓	↓	↓	↓
4	24902	4	SP1-SP-1	916281	1-4oz/2-8oz	[illegible]	1139, 749, 1083, 4025, 2020, [illegible]	27, 29, 31, 35, 39, [illegible]	↓	↓	↓
5	24903	5	TRIP BLANK 1	916291	4-40mL vials	VOC	1356	1	↓	WA	↓
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Logged In By: [illegible]
Order Entered By: [illegible]
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's / Temperature(s) [illegible] °C

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910251

Sample wt/vol: 100.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 09/17/98

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 5000(uL) Date Analyzed: 09/21/98

Injection Volume: 2.0(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) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.25	U
72-20-8	Endrin	1.0	U
76-44-8	Heptachlor	0.25	U
1024-57-3	Heptachlor Epoxide	0.25	U
72-43-5	Methoxychlor	2.5	U
8001-35-2	Toxaphene	25	U
12789-03-6	Technical Chlordane	25	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TCLPBLKLD

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910302

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/21/98

Injection Volume: 2.0(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) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.050	U
72-20-8	Endrin	0.20	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	5.0	U
12789-03-6	Technical Chlordane	5.0	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKLO

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix: (soil/water) WATER Lab Sample ID: 910446

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

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:09/18/98

Concentrated Extract Volume: 10000(uL) Date Analyzed: 09/21/98

Injection Volume: 2.0(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) UG/L	Q
58-89-9	gamma-BHC (Lindane)	0.050	U
72-20-8	Endrin	0.20	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	5.0	U
12789-03-6	Technical Chlordane	5.0	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKLO

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Lab Sample ID: 910446 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 09/18/98

Date Analyzed (1): 09/21/98 Date Analyzed (2):

Time Analyzed (1): 0911 Time Analyzed (2):

Instrument ID (1): VARIAN02 Instrument ID (2):

GC Column (1): RTX-35 ID: 0.53(mm) GC Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	TCLPBLKLD	910302	09/21/98	
02	PLCSLO	910447	09/21/98	
03	SP1-CP-1MS	910281	09/21/98	
04	SP1-CP-1MSD	910282	09/21/98	
05	SP1-CP-1	910251	09/21/98	
06				
07				
08				
09				
10				
11				
12				
13				
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16				
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18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

FORM 2
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

GC Column(1): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	TCX %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	PBLKLO	89	92					0
02	TCLPBLKLD	144	117					0
03	PLCSLO	49	54					0
04	SP1-CP-1MS	59	51					0
05	SP1-CP-1MSD	60	51					0
06	SP1-CP-1	65	57					0
07								
08								
09								
10								
11								
12								
13								
14								
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16								
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26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (DC (30-150)
S2 (TCX) = Tetrachloro-m-Xylene (30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

Matrix Spike - Sample No.: SP1-CP-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	3.0	0.0	1.2	40	32-127
Heptachlor	3.0	0.0	1.6	53	34-111
Heptachlor Epoxide	3.0	0.0	1.6	53	37-142
Toxaphene	50	0.0	35	70	41-126

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	3.0	1.2	40	0	20	32-127
Heptachlor	3.0	1.6	53	0	20	34-111
Heptachlor Epoxide	3.0	1.6	53	0	20	37-142
Toxaphene	50	25	50	33*	20	41-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 4 outside limits
Spike Recovery: 0 out of 8 outside limits

COMMENTS: _____

FORM 3
WATER PESTICIDE METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM Contract: 501112

Lab Code: COMPU Case No.: 33825 SAS No.: SDG No.: 24902

COMPOUND	SPIKE ADDED (ug/L)	CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	3.0	1.2	40	32-127
Heptachlor	3.0	1.6	53	34-111
Heptachlor Epoxide	3.0	1.5	50	37-142
Toxaphene	50	26	52	41-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

COMPUCHEM
a division of Liberty Analytical Corp.

Dayton Stockpile
RFA 98-249 $250
TCLP metals

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33825

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Colleen Wilson

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

24/SEP/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
910251	SP1-CP-1	9/17/98

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825 SAS No.: _____ SDG No.:24902_

SOW No.: SW846__

EPA Sample No.	Lab Sample ID
_LEACHBLK_____	_910302_____
_SP1-CP-1_____	_910251_____
_SP1-CP-1D____	_910280_____
_SP1-CP-1S____	_910278_____
_SP1-CP-1S____	_910277_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

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 data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] for Name: Carol J. Goodell

Date: September 22, 1998 Title: Laboratory Manager

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

INORGANIC CASE SUMMARY NARRATIVE
CASE # 33825 SDG # 24902
PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of one (1) water sample was received into the laboratory management system (LIMS) on September 17, 1998 intact and in good condition with Chain of Custody (COC) records in order. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were analyzed for the eight TCLP metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) using analytical methods delineated in SW-846 (Third Edition)-Update III.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

SP1-CP-1

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, CCB) and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within SW-846 allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, CCN = 910277 (ID = SP1-CP-1S) was found to be outside SW-846 control limits for selenium. The reported concentration for this analyte is flagged with an "N" on all associated Form 1 and on Form 5a. The sample matrix spike duplicate, CCN = 910278 (ID = SP1-CP-1S) was found to be inside SW-846 control limits for the requested analytes.

An "N" indicates a matrix-related interference in the sample preparation procedure &/or analysis for the flagged analyte. This is normally the consequence of a relatively high anionic content in the sample or (for some sediments) an inconsistent sample matrix relative to that analyte.

SW-846 control limits for matrix spike recoveries are set at 75% to 125% of the analyte quantity added unless original sample concentrations exceed the true values of these "spikes" by a factor of four or more; in this case effected analytes are not flagged even if recoveries fall outside percentage recovery control limits.

Post-digestion spikes are mandatory for analytes demonstrating unsatisfactory matrix spike recoveries during ICP analysis (excluding silver). The results of such spikes are presented on Form 5b.

Unsatisfactory recovery of post-digestion spikes of this type do not have bearing upon the aforementioned "N" flags, but may indicate interference during analysis &/or a solution matrix which is hostile to the analyte in question.

Satisfactory recovery of an analyte in a post-digestion spike of this type implies interference by the required preparation procedure or in the sample matrix itself. Lack of uniformity for an analyte in sediments will also result in satisfactory recovery of post-digestion spikes after failure in the related matrix spike.

The sample matrix duplicate, CCN = 910280 (ID = SP1-CP-1D) was inside SW-846 control limits for the requested analytes.

SW-846 control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 910251 (ID = SP1-CP-1L) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were inside SW-846 control limits for all requested analytes.

SW-846 control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution-adjusted concentrations from the original values for all analyte concentrations with values greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

This SDG package was processed using the Ward Scientific software. This software package has a seven character limitation on the Forms 13 and 14 -- any sample ID's which exceed seven characters are truncated from left to right on these forms.

Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Thomas R. Cole
Chemist II
September 22, 1998

Note: This report is paginated for reference and accountability.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

CompuChem Environmental Corportation

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). This flag also indicates the analyte was not detected, but the result is greater than or equal to the IDL.

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. when the serial dilution (a five fold dilution for CLP and a four fold dilution for SW-846 method 6010A) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).
2. when the analytical spike recovery associated with the sample is below 40% after two successive dilutions by Graphite Furnace Atomic Absorption (GFAA).

M: This flag applies to GFAA analyses for concentrations greater than the Contract Required Detection Limit (CRDL). This flag is only used for GFAA if the analytical sample or analytical spike duplicate injection reading is not within 20% of the Relative Standard Deviation (RSD).

N: This flag indates the sample spike recovery is outside of control limits:

***:** This flag is used fo. dupiicate ai ilysis when the sample and the sample duplicate results are not within control limits.

S: This flag applies to GFAA analyses to indicate the reported value was determined by the Method of Standard Additions (MSA).

W: This flag applies to GFAA analyses when the post-digestion spike (analytical spike) is out of control limits (85% - 115%), while sample absorbance is less than 50% of "spike" absorbance ["spike" is defined as (absorbance or concentration of spike sample) minus (absorbance or concentration of the sample)].

+: This flag applies to GFAA analyses when the correlation coefficient for the MSA is less than 0.995 after two MSA analyses.

NOTE: Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

CHRYSLER CORPORATION

Chain-of-Custody

01529 A

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, Ohio
Site Code: SC001
RFA Number:
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham Inc.
Address: 1210 W. Co. Rd. E.
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

Per Gary Stanczuk 9/17/98 TAT

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

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	SVOC ~~8270~~	PCB's ~~8080~~	Herb/Pest	RCRA metals + CN	TPH 418.1	VOC's 8260	TCLP-SVOC/VOC/PCB	TCLP-Pest/Herb/TPH	TCLP-RCRA Metals + CN	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ___	Remarks
Soil Pile #1 SB-1 4-6'	9/15/98	14:00	G	S	3	X	X	X	X	X	X								
Soil Pile #1 SB-2 4-5'	9/15/98	14:30	G	S	3	X	X	X	X	X	X								
Soil Pile # SB-3 4-5'	9/15/98	15:00	G	S	3	X	X	X	X	X	X								*
Soil Pile #1 CP-1	9/15/98	15:10	C	S	3							X	X	X					Extract & Hold *
Trip Blank T0000i	9/15/98										X								

Per Gary Stanczuk, perform full analysis 9/17/98

Sampler(s)
Dave B. Olson

Cooler ID # 68

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. ~~801309434632~~

Samples Relinquished under Airbill No. 801309434632

Temperature (corrected) 3.7C 9/17/98 9:25 am

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Dave B. Olson	9/16/98	10:00				Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	9/17/98	9:15am	Yes 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

Complete per Gary Stanczuk 9/17/98

Samples placed in storage ID 1 & 3 9/17/98 9:45am

Revision No. 2
Created: September 23, 1996

CompuChem Receiving Log

Client: Chrysler/LRG
Order #: 33825
Project: RFA 249
Quote #: 98-7053
Account #: 50113

Received on: 9/17/98 # of COC's: 1
Delivered by: Federal Express
Freight #: 8013094246332
Subcontract Y (N)
TAT: Verbal 48/72 HR Hardcopy 10 day

PPS (RFA) # 249 Page 1 of 1
Lab Instructions: RCRA Met + CN / TCL
list - reg analysis / TCL list on all TCLP samples / ~~Total Cr was analyzed on soil~~ 9/17/98
Pick QC

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	
1	24901	1	SP1-SB-1-4-6	910247	1-4oz/2-8oz	RCRA Met/CN/Hg/Cr VOC/SV/Pest/PCB/Herb	4005, 1057, 748, 2020, 479, 594, 1055	3,5,7,9,11,12,13	9/15/98	50	NA
2		2	SP1-SB-2-4-5	910247							
3		3	SP1-SB-3-4-5	910248							
4	24903	4	SP1-SP-1	910251	1-4oz/2-4oz	RCRA Met/CN/Hg/Cr VOC/SVOC/Pest/Herb	1139, 749, 1083, 4005, 2356, 480, 487, 1151, 1152, 1154, 1040	27, 29, 13, 15, 31, 17, 18, 21, 22, 23			
5	24903	5	TCCP01	910252	4-40mL vials	VOC	1356	1		WA	
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Logged In By: Dan Elmore
Order Entered By: Dan Elmore
Cyanide samples checked for sulfide and chlorine Y (NA
Received in good condition Y / N
Holding Blank(s) Counter / Page / CCN's / Temperature(s) 2-7 °C

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

LEACHBLK

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Matrix (soil/water): WATER Lab Sample ID: 910302

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	4.1	B		P_
7440-39-3	Barium___	0.60	U		P_
7440-43-9	Cadmium__	0.50	B		P_
7440-47-3	Chromium_	0.70	U		P_
7439-92-1	Lead____	1.6	U		P_
7439-97-6	Mercury__	0.10	U		CV
7782-49-2	Selenium_	14.9		N	P_
7440-22-4	Silver___	0.60	U		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SP1-CP-1

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Matrix (soil/water): WATER Lab Sample ID: 910251

Level (low/med): LOW__ Date Received: 09/17/98

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic__	3.7	U		P_
7440-39-3	Barium___	343			P_
7440-43-9	Cadmium__	4.4	B		P_
7440-47-3	Chromium_	1.2	B		P_
7439-92-1	Lead_____	12.1			P_
7439-97-6	Mercury__	0.10	U		CV
7782-49-2	Selenium_	20.5		N	P_
7440-22-4	Silver___	0.60	U		P_

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

Duplicate_(SP1-CP-1D)

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	3.7	U	3.7	U	3.7	U	3.7	U	3.70	U	P
Barium	0.6	U	0.6	U	0.6	U	0.6	U	0.60	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.30	U	P
Chromium	0.7	U	0.7	U	0.7	U	0.7	U	0.70	U	P
Lead	1.6	U	1.6	U	1.6	U	1.6	U	1.60	U	P
Mercury	0.1	U	0.1	U	0.1	U			0.10	U	CV
Selenium	5.2	U	5.2	U	5.2	U	5.2	U	5.20	U	P
Silver	-0.8	B	0.6	U	-0.6	B	0.6	U	0.60	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.6	U	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Chromium			0.7	U	0.7	U	0.7	U			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury											NR
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			0.6	U	0.6	U	0.6	U			P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.6	U	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Chromium			0.7	U	0.7	U	0.7	U			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury											NR
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			0.6	U	-0.7	B	-0.7	B			P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic			3.7	U	3.7	U	3.7	U			P
Barium			0.8	B	0.6	U	0.6	U			P
Cadmium			0.3	U	0.3	U	0.3	U			P
Chromium			0.7	U	0.7	U	0.7	U			P
Lead			1.6	U	1.6	U	1.6	U			P
Mercury											NR
Selenium			5.2	U	5.2	U	5.2	U			P
Silver			-0.7	B	0.6	U	0.6	U			P

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic											NR
Barium											NR
Cadmium											NR
Chromium											NR
Lead											NR
Mercury											NR
Selenium	5.2	U	5.2	U	5.2	U	5.2	U			P
Silver											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24202_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic											NR
Barium											NR
Cadmium											NR
Chromium											NR
Lead											NR
Mercury											NR
Selenium			5.2	U							P
Silver											NR

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-CP-1S

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic__	75-125_	47.6800_	_	3.7000	U	40.00	119.2	_	P_
Barium___	75-125_	2259.0000_	_	343.5000	_	2000.00	95.8	_	P_
Cadmium__	75-125_	52.8800_	_	4.3930	B	50.00	97.0	_	P_
Chromium_	75-125_	189.4000_	_	1.1790	B	200.00	94.1	_	P_
Lead_____	75-125_	30.8500_	_	12.0600	_	20.00	93.9	_	P_
Mercury__	75-125_	1.0500_	_	0.1000	U	1.00	105.0	_	CV
Selenium_	75-125_	27.8300_	_	20.5200	_	10.00	73.1	N	P_
Silver___	75-125_	47.9800_	_	0.6000	U	50.00	96.0	_	P_

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-CP-1S

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Matrix (soil/water): WATER_ Level (low/med): LOW___

% Solids for Sample: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	45.8400		3.7000	U	40.00	114.6		P
Barium	75-125	2324.0000		343.5000		2000.00	99.0		P
Cadmium	75-125	53.8600		4.3930	B	50.00	98.9		P
Chromium	75-125	194.4000		1.1790	B	200.00	96.6		P
Lead	75-125	29.7000		12.0600		20.00	88.2		P
Mercury	75-125	1.0780		0.1000	U	1.00	107.8		CV
Selenium	75-125	31.8400		20.5200		10.00	113.2		P
Silver	75-125	49.3400		0.6000	U	50.00	98.7		P

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SP1-CP-1A

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Matrix (soil/water) : WATER_ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Arsenic									NR
Barium									NR
Cadmium									NR
Chromium									NR
Lead									NR
Mercury									NR
Selenium		68.60		20.52		40.0	120.2		P
Silver									NR

Comments:

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Solid LCS Source: _____

Aqueous LCS Source: PELMER_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	1000.0	986.10	98.6						
Barium	20000.0	19130.00	95.6						
Cadmium	500.0	491.10	98.2						
Chromium	1000.0	966.30	96.6						
Lead	300.0	298.90	99.6						
Mercury									
Selenium	500.0	504.00	100.8						
Silver	1000.0	958.40	95.8						

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846____

Lab Code: COMPU_ Case No.: 33825_ SAS No.: _____ SDG No.: 24902_

Solid LCS Source: _____

Aqueous LCS Source: IVT_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic									
Barium									
Cadmium									
Chromium									
Lead									
Mercury	3.0	3.10	103.5						
Selenium									
Silver									

COMPUCHEM

a division of Liberty Analytical Corp.

EPA Region 5 Records Ctr.
350042

RFA 97-230

DEC 16 1997

15/DEC/97

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Dayton - [illegible]

Subject: Report of Data - Account Number# 501112 Order# 3330

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

15/DEC/97

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
877361	WELLDEVH20	12/12/97

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

CompuChem Environmental
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:33309
SDG:23001
CONTRACT:501112

SAMPLE IDENTIFICATIONS: WELLDEVH2O

The one (1) water sample listed above was received intact,properly refrigerated on December 12,1997, with chain of custody documentation. The sample was prepared and analyzed following SW846 method 8260. This sample was submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for this sample. The sample was diluted 125:1 due to high levels of trichloroethene, tetrachloroethene, and cis-1,2-dichloroethene.

No Tentatively Identified Compound (TIC)data is provided as requested by the client.

All of the surrogates met recovery criteria and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria. The method blank contained methylene chloride below the reporting limit.

The associated Laboratory Control Sample(LCS) met all QC acceptance limits.

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 listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee,as verified by the following signature.

Roy M. Sutton
Development Chemist
December 15, 1997

CHRYSLER CORPORATION

Chain-of-Custody

00089 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal - Well Dvlpt. water Site Location: Dayton, OH Rep Site Code: SC001 RFA Number: YGAP 970C230-T Chrysler PM: Gary Stanczuk	Consultant: Leggette, Brashears & Graham, Inc. Address: 1210 W. County Rd E, Ste 200 St. Paul, MN 55112 Consultant PM: Ken Vogel Phone: (612) 490-1405 Fax: -1006

Turn-around Time Request:
- 24 calendar hrs.
- 48 calendar hrs.
- 10 days
- 28 days

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

Matrix Codes
- S - Soil
- SW - Surface Water
- GW - Groundwater
- A - Air
- Sed. - Sediment
- O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	Compound List-Parameter/Method/Bottle Type/Preservative: TCL VOC 8260 ug/ml - 40ml Vial vials	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
Well Development H2O Rep	12/1/97	0915	G	GW	3	✓					START/END SOC 230-A

Sampler(s): Kai Hansen

Cooler ID #

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. Fed Ex			Samples Relinquished under Airbill No. Fed Ex			Temperature (corrected) 3.0 C
Relinquished by: Kai Hansen	Date: 12/1/97	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Relinquished by:	Date:	Time:	Received for Laboratory by: Marlene DeSimone	Date: 12/2/97	Time: 10:15	Custody Seal Intact? Yes 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. 1
Created: September 23, 1997

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WELLDEVH20

Project: RFA230 Date Sampled: 11/12/97

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Matrix: (soil/water) WATER Lab Sample ID: 877361

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R77361A56.D

Level: (low/med) LOW Date Received: 12/12/97

% Moisture: not dec. _____ Date Analyzed: 12/12/97

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 125.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	62		U
75-01-4	Vinyl Chloride	120		U
75-00-3	Chloroethane	62		U
75-09-2	Methylene Chloride	1900	98	JB
75-35-4	1,1-Dichloroethene	94		U
75-34-3	1,1-Dichloroethane	62		U
67-66-3	Chloroform	94		U
107-06-2	1,2-Dichloroethane	94		U
71-55-6	1,1,1-Trichloroethane	94	59	J
56-23-5	Carbon Tetrachloride	120		U
75-27-4	Bromodichloromethane	62		U
10061-01-5	cis-1,3-Dichloropropene	62		U
79-01-6	Trichloroethene	94	2500	
124-48-1	Dibromochloromethane	62		U
79-00-5	1,1,2-Trichloroethane	94		U
71-43-2	Benzene	94		U
10061-02-6	trans-1,3-Dichloropropene	94		U
75-25-2	Bromoform	62		U
127-18-4	Tetrachloroethene	94	180	
79-34-5	1,1,2,2-Tetrachloroethane	62		U
108-88-3	Toluene	94		U
108-90-7	Chlorobenzene	62		U
100-41-4	Ethylbenzene	62		U
100-42-5	Styrene	62		U
78-87-5	1,2-Dichloropropane	94		U
74-87-3	Chloromethane	120		U
75-15-0	Carbon disulfide	62		U
67-64-1	Acetone	620		U
108-10-1	4-Methyl-2-pentanone	250		U
591-78-6	2-hexanone	250		U
78-93-3	2-butanone	380		U
156-60-5	trans-1,2-Dichloroethene	94		U
156-59-2	cis-1,2-Dichloroethene	62	520	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WELLDEVH20

Project: RFA230 Date Sampled: 11/12/97

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Matrix: (soil/water) WATER Lab Sample ID: 877361

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R77361A56.D

Level: (low/med) LOW Date Received: 12/12/97

% Moisture: not dec. _____ Date Analyzed: 12/12/97

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 125.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	62		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKUF

Project: RFA230 Date Sampled: _____

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB971212A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/97

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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.7	J
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
10061-01-5	cis-1,3-Dichloropropene	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		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKUF

Project: RFA230 Date Sampled: _____

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB971212A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/97

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
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS15

Lab Name: COMPUCHEM ENV. CORP. Contract: 501112

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Lab Sample ID: 877213 LCS Lot No.: SE94

Lab File ID: CN077213A56.D Date Analyzed: 12/12/97

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	5.67	113	20-150
1,1,2-Trichloroethane	5.00	5.58	112	20-150
1,2-Dichloroethane	5.00	5.76	115	20-150
Benzene	5.00	5.65	113	20-150
Bromodichloromethane	5.00	5.63	113	20-150
Bromoform	5.00	5.49	110	20-150
Bromomethane	5.00	6.02	120	20-150
Carbon Tetrachloride	5.00	5.53	110	20-150
Carbon disulfide	5.00	6.47	129	20-150
Chloroethane	5.00	5.91	118	20-150
Dibromochloromethane	5.00	5.46	109	20-150
Styrene	5.00	5.30	106	20-150
Tetrachloroethene	5.00	4.97	99	20-150
Trichloroethene	5.00	5.42	108	20-150
cis-1,2-Dichloroethene	5.00	5.96	119	20-150
cis-1,3-Dichloropropene	5.00	5.56	111	20-150
trans-1,2-Dichloroethene	5.00	5.52	110	20-150
trans-1,3-Dichloropropene	5.00	5.61	112	20-150
Xylene (total)	15.00	16.93	113	20-150
Methylene Chloride	5.00	5.92	118	20-300
2-butanone	25.00	37.16	149	20-300
2-hexanone	25.00	30.77	123	20-300
4-Methyl-2-pentanone	25.00	32.21	129	20-300
Acetone	25.00	30.96	124	20-300
1,1,2,2-Tetrachloroethane	5.00	5.60	112	20-150
1,1-Dichloroethane	5.00	5.58	112	20-150
1,1-Dichloroethene	5.00	5.53	110	20-150
1,2-Dichloropropane	5.00	5.56	111	20-150
Chlorobenzene	5.00	5.30	106	20-150
Chloroform	5.00	5.80	116	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A
WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS15

Lab Name: COMPUCHEM ENV. CORP. Contract: 501112

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Lab Sample ID: 877213 LCS Lot No.: SE94

Lab File ID: CN077213A56.D Date Analyzed: 12/12/97

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	6.02	120	20-150
Ethylbenzene	5.00	5.23	104	20-150
Toluene	5.00	5.39	108	20-150
Vinyl Chloride	5.00	5.98	120	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKUF

Lab Name: COMPUCHEM ENV. CORP. Contract: 501112

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Lab File ID: CB971212A56.D Lab Sample ID: VBLKUF

Date Analyzed: 12/12/97 Time Analyzed: 0942

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS15	877213	CN077213A56.D	1046
02	WELLDEVH20	877361	C2R77361A56.D	1505
03				
04				
05				
06				
07				
08				
09				
10				
11				
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30				

COMMENTS:

FORM IV VOA

RFA 97-230

Development water

COMPUCHEM

a division of Liberty Analytical Corp.

FAX COVER SHEET

DAYTON

Date: 10/15/97

To: Ken Vogel
LBG

Fax: 612-490-1006

From: Diane Ellmore

Phone: 919.379.4011

Fax: 919.379.4040

RE: RFA 230- Quick Turn

Number of pages including cover sheet 5

Message:

VBLKUE is the blank analyzed with the sample.

- Diane

501 Madison Avenue, Cary, NC 27513, Tel: 919.379.4100, Fax: 919.379.4050

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WELLDEVH20

Project: RFA230 Date Sampled: 11/12/97

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Matrix: (soil/water) WATER Lab Sample ID: 877361

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R77361A56.D

Level: (low/med) LOW Date Received: 12/12/97

% Moisture: not dec. _____ Date Analyzed: 12/12/97

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 125.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	62		U
75-01-4	Vinyl Chloride	120		U
75-00-3	Chloroethane	62		U
75-09-2	Methylene Chloride	1900	98	JB
75-35-4	1,1-Dichloroethene	94		U
75-34-3	1,1-Dichloroethane	62		U
67-66-3	Chloroform	94		U
107-06-2	1,2-Dichloroethane	94		U
71-55-6	1,1,1-Trichloroethane	94	59	J
56-23-5	Carbon Tetrachloride	120		U
75-27-4	Bromodichloromethane	62		U
10061-01-5	cis-1,3-Dichloropropene	62		U
79-01-6	Trichloroethene	94	2500	
124-48-1	Dibromochloromethane	62		U
79-00-5	1,1,2-Trichloroethane	94		U
71-43-2	Benzene	94		U
10061-02-6	trans-1,3-Dichloropropene	94		U
75-25-2	Bromoform	62		U
127-18-4	Tetrachloroethene	94	180	
79-34-5	1,1,2,2-Tetrachloroethane	62		U
108-88-3	Toluene	94		U
108-90-7	Chlorobenzene	62		U
100-41-4	Ethylbenzene	62		U
100-42-5	Styrene	62		U
78-87-5	1,2-Dichloropropane	94		U
74-87-3	Chloromethane	120		U
75-15-0	Carbon disulfide	62		U
67-64-1	Acetone	620		U
108-10-1	4-Methyl-2-pentanone	250		U
591-78-6	2-hexanone	250		U
78-93-3	2-butanone	380		U
156-60-5	trans-1,2-Dichloroethene	94		U
156-59-2	cis-1,2-Dichloroethene	62	520	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WELLDEVH20

Project: RFA230 Date Sampled: 11/12/97

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Matrix: (soil/water) WATER Lab Sample ID: 877361

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R77361A56.D

Level: (low/med) LOW Date Received: 12/12/97

% Moisture: not dec. _____ Date Analyzed: 12/12/97

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 125.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	62		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKUF

Project: RFA230 Date Sampled: _____

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB971212A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/97

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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.7	J
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
10061-01-5	cis-1,3-Dichloropropene	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		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKUF

Project: RFA230 Date Sampled: _____

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB971212A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/97

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
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

COMPUCHEM

a division of Liberty Analytical Corp.

RFA 97-230
Development H2O

15/DEC/97

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
877361	WELLDEVH20	12/12/97

TOTAL NUMBER OF SAMPLES = 1

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

CompuChem Environmental
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:33309
SDG:23001
CONTRACT:501112

SAMPLE IDENTIFICATIONS: WELLDEVH2O

The one (1) water sample listed above was received intact,properly refrigerated on December 12,1997, with chain of custody documentation. The sample was prepared and analyzed following SW846 method 8260. This sample was submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for this sample. The sample was diluted 125:1 due to high levels of trichloroethene, tetrachloroethene, and cis-1,2-dichloroethene.

No Tentatively Identified Compound (TIC)data is provided as requested by the client.

All of the surrogates met recovery criteria and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria. The method blank contained methylene chloride below the reporting limit.

The associated Laboratory Control Sample(LCS) met all QC acceptance limits.

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 listed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee,as verified by the following signature.

Roy M. Sutton
Development Chemist
December 15, 1997

CHRYSLER CORPORATION

Chain-of-Custody

00089 A

CompuChem 501 Madison Avenue Cary, NC 27513 Phone Number: 1-800-833-5097 Fax Number: (919) 379-4050	Project Name: Dayton Thermal - Well Dvlpt. Water Site Location: Dayton, OH Rep Site Code: SC001 RFA Number: YGQP 970C230-T Chrysler PM: Gary Stanczyk	Consultant: Leggette, Brashears & Graham, Inc. Address: 1210 W. County Rd E, Ste 700 St. Paul, MN 55112 Consultant PM: Ken Vogel Phone: (612) 490-1405 Fax: -1006

Turn-around Time Request:
- 24 calendar hrs.
- 48 calendar hrs.
- 10 days
- 28 days

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

Matrix Codes
- S - Soil
- SW - Surface Water
- GW - Groundwater
- A - Air
- Sed. - Sediment
- O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	TCL VOC 8260 µg/µs - 40ml Vial vials									Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other ____	Remarks
Well Development H_2O Rep	12/11/97	0915	G	GW	3	✓													START/END SOG 230-A

Lab Use Only

Sampler(s)	Bottles Relinquished under Airbill No. Fed Ex			Samples Relinquished under Airbill No. Fed Ex			Temperature (corrected) 3° C
Ki Hansen	Relinquished by: Ki Hansen	Date: 12/11/97	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID #	Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Is RFA sampling complete? Yes No	Relinquished by:	Date:	Time:	Received for Laboratory by: Marlene D. Smith	Date: 12/12/97	Time: 10:15	Custody Seal Intact? Yes 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. 1
Created September 23, 1997

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WELLDEVH20

Project: RFA230 | Date Sampled: 11/12/97

Lab Code: COMPU | Case No.: 33309 | SAS No.: | SDG No.: 23001

Matrix: (soil/water) WATER | Lab Sample ID: 877361

Sample wt/vol: 25.0 (g/mL) ML | Lab File ID: C2R77361A56.D

Level: (low/med) LOW | Date Received: 12/12/97

% Moisture: not dec. _____ | Date Analyzed: 12/12/97

GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 125.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	62		U
75-01-4	Vinyl Chloride	120		U
75-00-3	Chloroethane	62		U
75-09-2	Methylene Chloride	1900	98	JB
75-35-4	1,1-Dichloroethene	94		U
75-34-3	1,1-Dichloroethane	62		U
67-66-3	Chloroform	94		U
107-06-2	1,2-Dichloroethane	94		U
71-55-6	1,1,1-Trichloroethane	94	59	J
56-23-5	Carbon Tetrachloride	120		U
75-27-4	Bromodichloromethane	62		U
10061-01-5	cis-1,3-Dichloropropene	62		U
79-01-6	Trichloroethene	94	2500	
124-48-1	Dibromochloromethane	62		U
79-00-5	1,1,2-Trichloroethane	94		U
71-43-2	Benzene	94		U
10061-02-6	trans-1,3-Dichloropropene	94		U
75-25-2	Bromoform	62		U
127-18-4	Tetrachloroethene	94	180	
79-34-5	1,1,2,2-Tetrachloroethane	62		U
108-88-3	Toluene	94		U
108-90-7	Chlorobenzene	62		U
100-41-4	Ethylbenzene	62		U
100-42-5	Styrene	62		U
78-87-5	1,2-Dichloropropane	94		U
74-87-3	Chloromethane	120		U
75-15-0	Carbon disulfide	62		U
67-64-1	Acetone	620		U
108-10-1	4-Methyl-2-pentanone	250		U
591-78-6	2-hexanone	250		U
78-93-3	2-butanone	380		U
156-60-5	trans-1,2-Dichloroethene	94		U
156-59-2	cis-1,2-Dichloroethene	62	520	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WELLDEVH20

Project: RFA230 Date Sampled: 11/12/97

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Matrix: (soil/water) WATER Lab Sample ID: 877361

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R77361A56.D

Level: (low/med) LOW Date Received: 12/12/97

% Moisture: not dec. _____ Date Analyzed: 12/12/97

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 125.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	62		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKUF

Project: RFA230 Date Sampled: _____

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB971212A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/97

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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	0.7	J
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
10061-01-5	cis-1,3-Dichloropropene	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		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5		U
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLKUF

Project: RFA230 Date Sampled: _____

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

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

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CB971212A56.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/12/97

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
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS15

Lab Name: COMPUCHEM ENV. CORP. Contract: 501112

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Lab Sample ID: 877213 LCS Lot No.: SE94

Lab File ID: CN077213A56.D Date Analyzed: 12/12/97

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
1,1,1-Trichloroethane	5.00	5.67	113	20-150
1,1,2-Trichloroethane	5.00	5.58	112	20-150
1,2-Dichloroethane	5.00	5.76	115	20-150
Benzene	5.00	5.65	113	20-150
Bromodichloromethane	5.00	5.63	113	20-150
Bromoform	5.00	5.49	110	20-150
Bromomethane	5.00	6.02	120	20-150
Carbon Tetrachloride	5.00	5.53	110	20-150
Carbon disulfide	5.00	6.47	129	20-150
Chloroethane	5.00	5.91	118	20-150
Dibromochloromethane	5.00	5.46	109	20-150
Styrene	5.00	5.30	106	20-150
Tetrachloroethene	5.00	4.97	99	20-150
Trichloroethene	5.00	5.42	108	20-150
cis-1,2-Dichloroethene	5.00	5.96	119	20-150
cis-1,3-Dichloropropene	5.00	5.56	111	20-150
trans-1,2-Dichloroethene	5.00	5.52	110	20-150
trans-1,3-Dichloropropene	5.00	5.61	112	20-150
Xylene (total)	15.00	16.93	113	20-150
Methylene Chloride	5.00	5.92	118	20-300
2-butanone	25.00	37.16	149	20-300
2-hexanone	25.00	30.77	123	20-300
4-Methyl-2-pentanone	25.00	32.21	129	20-300
Acetone	25.00	30.96	124	20-300
1,1,2,2-Tetrachloroethane	5.00	5.60	112	20-150
1,1-Dichloroethane	5.00	5.58	112	20-150
1,1-Dichloroethene	5.00	5.53	110	20-150
1,2-Dichloropropane	5.00	5.56	111	20-150
Chlorobenzene	5.00	5.30	106	20-150
Chloroform	5.00	5.80	116	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

3A

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

VLCS15

Lab Name: COMPUCHEM ENV. CORP. Contract: 501112

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Lab Sample ID: 877213 LCS Lot No.: SE94

Lab File ID: CN077213A56.D Date Analyzed: 12/12/97

Purge Volume: 25.0 (mL) Dilution Factor: 1.0

COMPOUND	AMOUNT ADDED (ug/L)	AMOUNT RECOVERED (ug/L)	%REC #	QC LIMITS
Chloromethane	5.00	6.02	120	20-150
Ethylbenzene	5.00	5.23	104	20-150
Toluene	5.00	5.39	108	20-150
Vinyl Chloride	5.00	5.98	120	20-150

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 34 total.

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKUF

Lab Name: COMPUCHEM ENV. CORP. Contract: 501112

Lab Code: COMPU Case No.: 33309 SAS No.: SDG No.: 23001

Lab File ID: CB971212A56.D Lab Sample ID: VBLKUF

Date Analyzed: 12/12/97 Time Analyzed: 0942

GC Column:DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: F50056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS15	877213	CN077213A56.D	1046
02	WELLDEVH20	877361	C2R77361A56.D	1505
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

COMPUCHEM
a division of Liberty Analytical Corp.

DEC 16 1997

15/DEC/97

RFA 97-230

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33309

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 1 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Dayton
Development
Water

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel: 919-379-4100 ■ Fax: 919-379-4050

COMPUCHEM

a division of Liberty Analytical Corp.

ENTERED IN DATABASE
BY/DATE DVS 10/29/98
CHECKED BY DVS/DVS
DATE 11/3/98

EPA Region 5 Records Ctr.
350043

OCT 28 1998

27/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

Subject: Report of Data - Account Number# 501112 Order# 33902

ATTN: MR. KEN VOGEL

Enclosed are the results of analytical work performed in accordance with the referenced account number.

This report covers 20 sample(s) appearing on the attached listing.

Thank you for selecting CompuChem Environmental for your sample analysis. If you should have questions or require additional analytical services please contact your representative at 1-800-833-5097.

Sincerely,

Diane Ellmore

CompuChem Environmental
a division of Liberty Analytical

Attachment

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

COMPUCHEM
a division of Liberty Analytical Corp.

27/OCT/98

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

ACCOUNT #: 501112

CC#	SAMPLE-ID	RECEIPT DATE
914747	TBLK101498	10/17/98
914750	PZ-12I	10/17/98
914751	PZ-12D	10/17/98
914752	MW-15S	10/17/98
914753	E101498-2	10/17/98
914754	MW-11S	10/17/98
914755	MW-11SDUP	10/17/98
914756	MWB-3	10/17/98
914757	MWC-3	10/17/98
914759	PZ-14I	10/17/98
914760	MWA-2	10/17/98
914761	PZ-16D	10/17/98
914762	MWB-6	10/17/98
914763	MW-8S	10/17/98
914764	E101598-3	10/17/98
914765	PZ-8I	10/17/98
914766	PZ-8D	10/17/98
914767	PZ-9D	10/17/98
914768	MW-10S	10/17/98
914769	PZ-10I	10/17/98

TOTAL NUMBER OF SAMPLES = 20

501 Madison Avenue ■ Cary, N.C. 27513 ■ Tel 919-379-4100 ■ Fax 919-379-4050

CompuChem
a Division of Liberty Analytical
501 N. Madison Avenue
Cary, NC 27513

SDG NARRATIVE
CASE:33902
SDG:25402
CONTRACT:501112

SAMPLE IDENTIFICATIONS: TBLK101498 PZ-12I PZ-12D PZ-14I PZ-16D PZ-8I PZ-8D PZ-9D PZ-10I MW-15S MW-11S MW-11SDUP MWB-3 MWC-3 MWA-2 MWB-6 MW-8S MW-10S E101498-2 E101598-3

The twenty(20) water samples listed above were received intact, properly refrigerated,with proper chain of custody(COC) documentation on October 17,1998. The samples were prepared and analyzed following SW846 method 8260 25ml purge. All of these samples were submitted for volatile only analysis.

VOLATILES:

Analysis holding time requirements were met for these samples. The majority of samples contained one or more of the target analytes 1,1,1-trichloroethane, trichloroethene, tetrachloroethene, acetone, 1,1-dichlorethene, 1,1-dichloroethane and cis-1,2-dichloroethene. Sixteen out of the twenty submitted samples were diluted due to one or more of these target analytes.

Samples PZ-12I, PZ-8I, PZ-8D, PZ-9D, and MWA-2 were all analyzed at dilutions, and further dilutions were necessary to bring all analytes into calibration range. We have reported two analyses for these samples so that the most TCL data would be provided.

Sample PZ-16D was originally analyzed at a 83:1 dilution based on screen data, however 1,1,1-trichloroethane was not in the upper half of the calibration range. The sample was reanalyzed at a lesser dilution of 25:1 from a second bottle, however this analyte response did not respond linearly as expected. We conclude that the results are due to sample inhomogeneity, and we have reported both analyses. Sample PZ-14I was initially analyzed neat and trichloroethene exceeded the calibration range. A reanalysis at a 8.3:1 dilution brought this analyte into range. We are reporting both analyses so that no TCL data would be lost due to dilution.

No Tentatively Identified Compound (TIC) data is provided as requested by the client.

All of the surrogates met recovery criteria with the exception that one or more surrogates failed high for recovery in samples PZ-12I and PZ-8D. The reanalyis, however met all surrogate recoveries and we have reported both analyses.
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 and all contained methylene chloride below the reporting limit.

The associated Laboratory Control Samples(LCS's) met all QC acceptance limits.

The duplicate matrix spikes generated from MWA-2 met all QC precision and accuracy criteria with exceptions. Three out of thirty four advisory RPD limits were exceeded.

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 listed above. Release of the data contained in this hardcopy data

package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Roy Sutton

Roy M. Sutton
Development Chemist
October 27, 1998

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
Supelco	SPB-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5	0.32	1.0	30
Hewlett Packard	HP5-MS	0.25	0.25	30

TRAP

GC/MS Volatiles Laboratory	
	* 15 cm of 2,6-diphenylene oxide polymer (Tenax) * 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of silica gel * 0.5 cm of glass wool at each end

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These adjustments are performed by the data reviewer, GC/MS operator, or GC chemist. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration of each compound to demonstrate the accuracy of that process. Adjustments are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count as possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - *Denotes that an alternate peak has been chosen within the retention time window from that chosen by the* software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that the data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

With the introduction of the current EPA CLP SOW (Document Number OLM03.0, plus revisions) additional explanations for manual editing/integration are required. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC data packages.

Robert E. Meierer
Vice President

Revision 4 (10/8/97)

DATA REPORTING QUALIFIERS

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

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL) (or Reporting Limit) will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1.0 is assumed for the TIC analyte,

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 (or Reporting Limit) but greater than zero, and

3. When the retention time data indicates the presence of a compound that meets the pesticide/Aroclor or other GC or HPLC identification criteria, and the result is less than the CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search. For generic characterization of a TIC such as 'chlorinated hydrocarbon', the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), 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.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

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 is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. 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 will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range will have the concentration flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on Form I for the more diluted sample, and **all** reported concentrations 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.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Form Is are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A : This flag indicates that a TIC is a suspected aldol-condensation product.

S : This flag indicates that an analyte was detected by a single column GC analysis but the result was below the Reporting Limit. This flag is only used when clients request a second (confirmation) column analysis after detecting an analyte above the Reporting Limit in the initial, single column analysis. This flag alerts the data user that only an analyte was detected below the Reporting Limit and a second (confirmation) analysis was not performed.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y and Z.

CHRYSLER CORPORATION

Chain-of-Custody

03732 A

4th Quarter GW Sampling

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: DAYTON THERMAL PROD
Site Location: Dayton, OH
Site Code: SC001
RFA Number: YGQP9800254-T
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1213 W. Co Rd. E
St Paul, Mn. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

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

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
GW - Groundwater
Sed. - Sediment
O - Other (specify)
SW - Surface Water
A - Air

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260									Lab Use Only: Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other	Remarks
E101498-1	10/14/98	8:30	G	GW	3	X													Equipment Blank
MW6-1		8:40			3	X													
MW8-1		8:50			3	X													
PZ-22I		9:05			3	X													
MW8-4		9:40			3	X													
PZ-21I		9:50			3	X													
MW-19S		10:10			3	X													
PZ-19I		10:20			3	X													
PZ-20D		10:50			3	X													
MW-18S		11:04			3	X													

Sampler(s): Daniel Parsell

Bottles Relinquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 202-495 3473

Temperature (corrected) 4.0 open t 10:40am 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Daniel Parsell	10/15/98		Natalie Scott	10-16-98	1213	Yes No
						Yes No
			Received for Laboratory by: Diane Elmore	10/17/98	10:40am	Yes No

Cooler ID # 402

Is RFA sampling complete? Yes 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

Samples placed in storage ID 4 DE 10/17/98 11:30am

C/C Sealed Samples intact Cooler temp 10

Revision No. 1
Created: September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03733 A

4th Quarter GW Sampling

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, OH.
Site Code: SC001
RFA Number: YGQP9800254-T
Chrysler PM: Gary Stanczuk

Consultant: Langhe, Brisbois & Graham, Inc.
Address: 1270 W. Co. Rd E
St. Paul, MN 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

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

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MW-B-2	10/14/98	11:30	G	GW	3	X					
MW-C-2		11:45			3	X					
MW-75		13:00			3	X					
PZ-7I		13:10			3	X					
MW-B-5		13:20			3	X					
MW-A-5		13:30			3	X					
MW-A-6		13:55			3	X					
PZ-13I		13:40			3	X					
MW-A-6 Dup		13:56			3	X					
Trip Blank 101498					2	X					

Compound List-Parameter/Method/Bottle Type/Preservative

Sampler(s): David Prescott

Bottles Relinquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 802 495 3473

Temperature (corrected) 4.0 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
David Prescott	10/15/98		Natalie Scott	10-16-98	1213	Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

Cooler ID # 402

RFA sampling complete? Yes 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

Samples placed in storage
ID 4 DE 10/17/98 11:30am

C/C Sealed
Samples intact
Cooler temp 1°

CHRYSLER CORPORATION

Chain-of-Custody

03734 A

4th Qtr GW Sampling

CompuChem
01 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, OH
Site Code: SC001
RFA Number: XGQP9800254-T
Chrysler PM: Gary Stanczuk

Consultant: Leggette, Brashears & Graham, Inc
Address: 1270 W. Co. Rd. E
St Paul, MN 55112
Consultant PM: Ken Vogel
Phone: 651-490-1405 Fax: 651-490-1405

Turn-around Time Request:
4 calendar hrs.
8 calendar hrs.
0 days
8 days

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

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
PZ-12I	10/14/98	14:00	G	GW	3	X					
PZ-12D		14:10			3	X					
MW-15S		14:50			2	X					
E101498-2		15:00			2	X					Equipment Blank
MW-15I ☆		15:01			2	X					On bottle PZ-15I time 15:01
MW-11S		15:15			2	X					
MW-11S Dup		15:16			2	X					
MWB-3		15:30			2	X					
MWC-3		15:40			2	X					
MWA-3		16:00			2	X					

Should read PZ-15I DE 10/14/98 pH Dave Strandibb

Sampler(s): David Prasad

Bottles Relinquished under Airbill No. 4287 4951 7498

Samples Relinquished under Airbill No. 802495346 2

Temperature (corrected) 4.0 C DE 10/16/98 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
David Prasad	10/15/98		Natalie Booth	10-16-98	1213	Yes No
						Yes No
			Received for Laboratory by: Dave Ellmore	10/17/98	10:40am	Yes No

Cooler ID # 7

RFA sampling complete? Yes 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

Samples placed in Storage ID 4
DE 10/17/98
11:30am

C/C Sealed
Samples Intact
Cooler temp 6° NB

Revision No. 1
Created September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03735 A

4th Qtr. GW. Sampling

CompuChem
501 Madison Avenue
Cary, NC 27513
Phone Number: 1-800-833-5097
Fax Number: (919) 379-4050

Project Name: Dayton Thermal Products
Site Location: Dayton, OH
Site Code: SC001
RFA Number: YGOF9800254-T
Chrysler PM: Gary Sanzuk

Consultant: Leggette, Brashears & Graham, Inc.
Address: 1210 W. Co Rd. E
St Paul, MN. 55112
Consultant PM: Ken Vogel
Phone: 651-490-1905 Fax: 651-490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days
28 days

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

Compound List-Parameter/Method/Bottle Type/Preservative

Matrix Codes
S - Soil
SW - Surface Water
GW - Groundwater
A - Air
Sed. - Sediment
O - Other (specify)

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
MWA-3 MS/MSD	10/14/98	16:01	G	GW	2	X					
PZ-14I	10/14/98	16:10			2	X					
MWA-2		16:25			2	X					
MWA-2 MS/MSD		16:26			2	X					
PZ-16D		16:30			2	X					
MWB-6	10/15/98	7:55			2	X					
MW-8S		8:15			2	X					
E101598-3		8:17			2	X					Equipment blank
PZ-8I		8:20			2	X					
PZ-8D		8:25			2	X					

Sampler(s): Daniel Prescott

Bottles Relinquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 802495346 2

Temperature (corrected) 4.0 C open @ 10:40am DE 10/17/98

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Daniel Prescott	10/15/98		Natalie Booth			Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

Cooler ID # 7

RFA sampling complete? Yes 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

C/C Sealed Samples intact
Cooler temp 6° (NS)

Samples placed in storage 1D
4 DE 10/17/98
11:30am

Revision No. 1
Created September 23, 1997

CHRYSLER CORPORATION

Chain-of-Custody

03736 A

4th Qtr. GW- Sampling

ompuChem	Project Name: Dayton Thermal Products	Consultant: Leggette, Brashears & Graham, Inc	
01 Madison Avenue	Site Location: Dayton, OH	Address: 1210 W. Co. Rd. E	
ary, NC 27513	Site Code: SC001	St. Paul, MN.	
hone Number: 1-800-833-5097	RFA Number: YGQP95 00254-T	Consultant PM: Ken Vogel	
ax Number: (919) 379-4050	Chrysler PM: Gary Stenczak	Phone: 651-490-1405	Fax: 651-490-1006

urn-around Time Request:
- calendar hrs.
- calendar hrs.
- days
- days

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

Compound List-Parameter/Method/Bottle Type/Preservative

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

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	8260	Lab Use Only: Volatiles pH <2	Metals pH < 2	Cyanide pH > 12	Other	Remarks
PZ-9D	10/15/98	8:50	G	GW	2	X					
MW-10S		9:30			2	X					
PZ-10I		9:35			2	X					
PZ-17D		10:10			2	X					
PZ-17I		10:20			2	X					
MWA-1		11:00			2	X					
MWA-4		14:15			2	X					
Sparge H2O		16:45		O	2	X	Time added per Dave Strand DE 10/19/98				
MW-20S	10/14/98	10:45			3	X					

mpler(s) Ronald Russell

Bottles Relinquished under Airbill No. 4287 4957 7498

Samples Relinquished under Airbill No. 802495 3462

open @ 10:40am DE 10/17/98

Temperature (corrected) 4.0 C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Ronald Russell	10/17/98					Yes No
						Yes No
			Received for Laboratory by: Diane Ellmore	10/17/98	10:40am	Yes No

oler ID # 7

RFA sampling complete? Yes 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

C/C Sealed
Samples intact
Cooler temp 6°

Samples placed in storage
ID 4 DE 10/17/98 11:00am

Revision No. 1
Dated September 23, 1997

MEMORANDUM

To: Mark Bevan
Kenny McDaniel
Brian Neptune
Roy Sutton

From: Diane Ellmore

Date: October 19, 1998

Re: Case 33902

SDG 25401

CCN: 914740 ID corrected in LIMS. ID is now MW-7S

CCN: 914730 ID corrected in LIMS. ID is now MWA-6DUP

SDG 25403

CCN: 914888 Sample logged into LIMS on 10/19/98 due to ID discrepancy on COC verses bottle labels. Sample is backdated in LIMS to 10/17/98 (actual receipt date).

COMPUCHEM
a division of Liberty Analytical

LOG-IN VERIFICATION

Client: Chrysler Project: RFA 254

Case: 33902 Date Received: 10/17/98

Were all sample I.D.'s checked? Yes / No * see corrective action

Were all analyses on COC also on receipt log? Yes / No

Were any associated line item's missing? Yes / No

Were all parameter's logged in? Yes / No

Were correct method numbers received? Yes / No

Is any information absent from receiving log header? Yes / No

Were all blank lines on the receiving log z'ed out? Yes / No

Was TAT verified (quick turn line items used?) Yes / No

Was QC designated and verified? Yes / No / N/A

Is the field COC complete (signed/dated, etc)? Yes / No

Were all comments/issues recorded on COC? Yes / No

Signature: Diane Ellmore Date: 10/19/98

Corrective Action

Changed ID for MW-75 to MW-7S. Changed ID on CCN 914730 from MWA-6 to MWA-6DUP. ~~Sample on~~ CCN 914888 rec'd 10/19 & backdated to 10/17 due to ID discrepency on COC & bottle labels

Completed By: Diane Ellmore Date: 10/19/98

LEGGETTE BRASHEARS & GRAHAM PAGE 1
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

RECEIVE DATE: 10/17/98
QUOTE NUMBER: 98-00070800000501112
ORDER NUMBER: 33902

SAMPLE ID	TURNAROUND** TIME	ANALYSIS	COMPUCHEM NUMBER
E101498-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914726
E101498-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914753
E101598-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914764
MW-10S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914768
MW-11S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914754
MW-11SDUP	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914755
MW-15S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914752
MW-18S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914737
MW-19S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914734
MW-20S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914777
MW-75 TS	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914740
MW-8S	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914763
MWA-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914774
MWA-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914760
MWA-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914758
MWA-4	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914775
MWA-5	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914743
MWA-6	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914744
MWA-6DUP	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914746
MWB-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914730
MWB-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914738
MWB-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914756
MWB-4	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914732
MWB-5	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914742
MWB-6	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914762
MWC-1	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914729
MWC-2	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914739
MWC-3	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914757
PZ-10I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914769
PZ-12D	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914751
PZ-12I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914750
PZ-13I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914745
PZ-14I	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914759
PZ-16D	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914761

** Please note that turnaround time and sample due dates will be, whenever applicable, calculated and determined by the last sample received in a Sample Delivery Group.

14
10/19

LEGGETTE BRASHEARS & GRAHAM
ATTN: MR. KEN VOGEL
1210 WEST COUNTY Rd. E, STE700
ST. PAUL, MN 55112

RECEIVE DATE: 10/17/98
QUOTE NUMBER: 98-00070800000501112
ORDER NUMBER: 33902

SAMPLE ID	TURNAROUND** TIME	ANALYSIS	COMPUCHEM NUMBER
PZ-17D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914770
PZ-17I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914773
PZ-19I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914735
PZ-20D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914736
PZ-21I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914733
PZ-22I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914731
PZ-7I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914741
PZ-8D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914766
PZ-8I ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914765
PZ-9D ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914767
SPARGEH2O ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914776
TBLK101498 ✓	10	TCL Voa/Meth. 8260(25ml)/Water/Case ID	914747

914888
PZ-15I
added
once ID confirmed
DE 10/19

DE 10/19

** Please note that turnaround time and sample due dates will be, whenever applicable, calculated and determined by the last sample received in a Sample Delivery Group.

CompuChem
WATER BATCH SHEET

Page 1

RFA 254

1 of 2

Date Batched 10/20/98
Case 33902.25402
Instrument Code

LINKER W8260 TAT 10 SOW

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	914748		SS	914760	–	0104	10.24.98	54	2230		1355/1045 150ml	of	of
2)	914749		SS	914760	–	0135	↓	↓	↓		↓	of	of
3)	914747	TBLK101498			1	2034	10.21.98	56	2355	10/28		of	of
4)	914750	PZ-12I			1	2124					2mL	of	of
5)	914751	PZ-12D			1	2204					2.5mL	of	of
6)	914752	MW-15S			1	2239					5mL	of	of
7)	914753	E101498-2			1	2315						of	of
8)	914754	MW-11S			1	2351					350uL	of	of
9)	914755	MW-11S DUP S 10.21.98 KP			1	0026					↓	of	of
10)	914756	MWB-3			1	102					1.5mL	of	of
11)	914757	MWC-3			1	138					RN	of	of
12)	914759	PZ-14I			1	1255	10.22.98	56	2361		5mL	of	of
13)	914760	MWA-2			1	1331					USE 914760 ~~1.25mL~~ FOR QC	of	of
14)	914761	PZ-16D			1	1407				10/29	300uL	of	of
15)	914762	MWB-6			1	1440					300uL	of	of
16)	914763	MW-8S			5	1521					250uL	of	of
17)	914764	E101598-3			1	1556					RN	of	of
18)	914765	PZ-8I			1	1630					50uL	of	of
19)	914766	PZ-8D			1	1796	10.22.98	56	2230		6mL	of	of
20)	914767	PZ-9D			1	1747					250uL	of	of
21)	914768	MW-10S			1	0255	10.23.98	54	2230		750uL	of	of
22)	914769	PZ-10I			1	0328					100uL	of	of
23)	915061	VLCS70	LCS		–	1938	10.21.98	56	2355			of	of

Relinquished By Ref. 2 Date 10.21.98 Received By Date 10.21.98
Relinquished By Date 10.21.98 Received By 2 Date 10.21.98
Relinquished By 2 Date 10.22.98 Received By Date 10.22.98
10.22.98 10.22.98
Log Page Updated
10.22.98 10.22.98

CompuChem

WATER BATCH SHEET

Page 2

RFA 254

SDGC TCL.Sun

Date Batched _____

Case 33902-25402

Instrument Code _____

LINKER W8260

TAT 10 SOW _____

	CCN	CLIENT ID	QC SAMPLE TYPE	QC SAMPLE ORIGINAL	pH	TIME	DATE RUN	INST. #	OPERATOR	H/T	VOLUME/ INSTRUCTIONS	SCREEN BOTTLE #	ANALYSIS BOTTLE #
1)	915602	VLCS 87	LCS		-	1151	102298	56	2361			of	of
2)	915603	VLCS 88	LCS		–	—	↓	↓	↓			of	of
3)	914747R'				–	0402	10.23.98	54	2230		RN	of	of
4)	914750R'				–	0436	↓	54	2230		175ml	of	of
5)	914751R'				–	1431	10.23.98	54	2347		6mL	of	of
6)	914756R'				–	1504					100ml	of	of
7)	914759R'				–	1537					5mL	of	of
8)	914760R'				–	1611			↓		150ul	of	of
9)	914761R'				–	1703			2230		1ml	of	of
10)	914762R'				–	1736					500ul	of	of
11)	914765R'				–	1810					35ml	of	of
12)	914766R'				–	1843					3.5ml	of	of
13)	914750R2				–	1919	↓	↓	↓		280uL	of	of
14)	914767R'				–	2319	10.23.98	54	2240		130uL	of	of
15)	914756R2				–	2354	↓				150uL	of	of
16)	914759R2				–	0029	10.24.98	↓	↓		3mL	of	of
17)	916198	VLCS06			–	2241	102398	54	2230			of	of
18)												of	of
19)												of	of
20)												of	of
21)												of	of
22)												of	of
23)											10.24.98 KP	of	of

Relinquished By [illegible] Date 102398 Received By (2347) KP Date 102398

Relinquished By (2347) KP Date 102398 Received By [illegible] Date 102398

Relinquished By [illegible] Date 102398 Received By [illegible] Date 102398

Log Page Updated _____

Mark

INTERNAL CHAIN-OF-CUSTODY

Laboratory: VOA

Requested By: KM

Water ✓ Soil ____ P.E. ____

Date: 10/20/98

Shift: 1 2 Sat (circle one)

EPA ____ Commercial ✓

	CCN	RECEIPT DATE	PRES.	PARAMETER	RECEIVING USE ONLY BOTTLE NUMBER
1	914747	10/17			2.2 of 1.2
2	750				3.3 of 2.3
3	751				2.3 of 3.3
4	752				2.2 of 1.2
5	753				1.2 of 2.2
6	754				1.2 of 2.2
7	755				1.2 of 2.2
8	756				1.2 of 2.2
9	757				2.2 of 1.2
10	759				2.2 of 1.2
11	760			10-20-98 PM	~~4.6~~ 1.4 of 3.4
12	761				1.2 of 2.2
13	762				1.2 of 2.2
14	763				1.2 of 2.2
15	764				1.2 of 2.2
16	765				1.2 of 2.2
17	766				1.2 of 2.2
18	767				2.2 of 1.2
19	768				1.2 of 2.2
20	769				1.2 of 2.2

Relinquished By: P.M. Cox Date: 10-20-98

Received By: [illegible] Date: 10-20-98

Relinquished By: ____ Date: ____

Received By: ____ Date: ____

Comments:

CompuChem Receiving Log

Client: Chrysler / LBG
Order #: 33902
Project: RFA #254
Quote #: 98-7080
Account #: 50112

Received on: 10-17-98 # of COC's: 5
Delivered by: FED-EX
Freight #: See various COC's
Subcontract Y / (N)
TAT: Verbal _____ Hardcopy 10 day

PPS / (RFA #) 254 Page 1 of 3
Lab Instructions: TCL VOCs

	SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	IN
1	25401	1	E101498-1 (EB)	914726	3-60ml / VOA	TCL VOA	1356	1	10/14/98	WA	N/A
2		2	MWC-1	729							
3		3	MWB-1	730							
4		4	PZ-22I	731							
5		5	MWB-4 *	732							
6		6	PZ-21I	733							
7		7	MW-19S	734							
8		8	~~MW~~ PZ-19I	735							
9		9	PZ-20D *	736							
10		10	MW-18S	737							
11		11	MWB-2 *	738							
12		12	MWC-2	739							
13		13	MW-7S	740							
14		14	PZ-7I	741							
15		15	MWB-5	742							
16		16	MWA-5	743							
17		17	MWA-6	744							
18		18	PZ-13I	745							
19		19	MWA-6DUP	746							
20	25402	20	TBLK101498 (TB)	747	2-60ml / VOA						

Logged In By: Melissa Stew
Order Entered By: Melissa Stew
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition (Y) / N
Holding Blank(s): Counter / Page / CCN's /
Temperature(s) 4 °C

CompuChem Receiving Log

Client: Chrysler
Order #: 33902
Project: RFA 254
Quote #: 98-7080
Account #: 501112

Received on: 10/17/98 # of COC's ____
Delivered by: Federal Express
Freight #: ____
Subcontract Y / (N) see pg 1
TAT: Verbal ____ Hardcopy 10 day

PPS / RFA # ____ Page 2 of 3
Lab Instructions: see pg 1

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	PH
25402	21	PZ-12I	914750	3-60ml V	TCL VOA	1356	1	10/14/98	N/A	N/A
	22	PZ-12D	914751							
	23	MW-15S	752	2-60ml V						
	24	TB101498-2	753							
25403	25	PZ-15I	914888							
25402	26	MW-11S	914754							
	27	MW-11SDUP	755							
	28	MWB-3	756							
	29	MWC-3	757							
25401	30	MWA-3 (MS/MSD)	758	4-60ml-V						
25402	31	PZ-14I	759	2-60ml-V						
	32	MWA-2 (MS/MSD)	760	4-60ml-V						
	33	PZ-16D	761	2-60ml VOA						
	34	MWB-6	762					10/15/98		
	35	MW-8S	763							
	36	TB101598-3	764							
	37	PZ-8I	765							
	38	PZ-8D	766							
	39	PZ-9D	767							
	40	MW-10S	768							

Logged In By: Melissa St 10/17/98

Order Entered By: Melissa St

Cyanide samples checked for sulfide and chlorine Y / NA

Received in good condition (Y) / N ____

Holding Blank(s): Counter / Page ____ / ____ CCN's ____ / ____

Temperature(s) 4 °C

CompuChem Receiving Log

ient : Chrysler
rder #
roject
uote # see pg 1
ccount #

Received on :
# of COC's 1
Delivered by :
Freight #
Subcontract Y / N see pg 1
TAT : Verbal
Hardcopy

PPS / RFA #
Page 3 of 3
Lab Instructions : see pg 1

SDG	REQ	SAMPLE ID	CCN	AMOUNT / CONTAINER	PARAMETER	ANALYSIS CODE	LINE ITEM	SAMPLE DATE	MX	PM
25402	41	PZ-18I	914769	2-60ml V	TCL VOA	1356	1	10/15/98	WA	NA
25403	42	PZ-17D	914770							
	43	PZ-17I	914773							
	44	MWA-1	914774							
	45	MWA-4	914775							
	46	SPARGE H20	914776							
	47	MW-20S	914777	3-60ml V				10/14/98		
		DC 10/19/98								

MS 10/19/98

Logged In By : Melissa Sh
Order Entered By : Melissa Sh
Cyanide samples checked for sulfide and chlorine Y / NA
Received in good condition Y / N
Holding Blank(s) : Counter / Page / CCN's /
Temperature(s) 4 °C

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

E101498-2

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914753

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014753B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	3	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
10061-01-5	cis-1,3-Dichloropropene	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		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	2	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

E101498-2

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914753

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014753B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

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
1330-20-7	Xylene (total)	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

E101598-3

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914764

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014764A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	3	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
10061-01-5	cis-1,3-Dichloropropene	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		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	3	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

E101598-3

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914764

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014764A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10S

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914768

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014768B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 357.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	180		U
75-01-4	Vinyl Chloride	360	120	J
75-00-3	Chloroethane	180		U
75-09-2	Methylene Chloride	5400	390	JB
75-35-4	1,1-Dichloroethene	270		U
75-34-3	1,1-Dichloroethane	180		U
67-66-3	Chloroform	270		U
107-06-2	1,2-Dichloroethane	270		U
71-55-6	1,1,1-Trichloroethane	270	170	J
56-23-5	Carbon Tetrachloride	360		U
75-27-4	Bromodichloromethane	180		U
10061-01-5	cis-1,3-Dichloropropene	180		U
79-01-6	Trichloroethene	270	4800	
124-48-1	Dibromochloromethane	180		U
79-00-5	1,1,2-Trichloroethane	270		U
71-43-2	Benzene	270		U
10061-02-6	trans-1,3-Dichloropropene	270		U
75-25-2	Bromoform	180		U
127-18-4	Tetrachloroethene	270		U
79-34-5	1,1,2,2-Tetrachloroethane	180		U
108-88-3	Toluene	270		U
108-90-7	Chlorobenzene	180		U
100-41-4	Ethylbenzene	180		U
100-42-5	Styrene	180		U
78-87-5	1,2-Dichloropropane	270		U
74-87-3	Chloromethane	360		U
75-15-0	Carbon disulfide	180		U
67-64-1	Acetone	1800	720	JB
108-10-1	4-Methyl-2-pentanone	710		U
591-78-6	2-hexanone	710		U
78-93-3	2-butanone	1100		U
156-60-5	trans-1,2-Dichloroethene	270		U
156-59-2	cis-1,2-Dichloroethene	180	2000	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10S

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914768

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014768B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 357.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	180		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11S

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914754

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014754B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 71.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	36		U
75-01-4	Vinyl Chloride	71		U
75-00-3	Chloroethane	36		U
75-09-2	Methylene Chloride	710	63	JB
75-35-4	1,1-Dichloroethene	53		U
75-34-3	1,1-Dichloroethane	36		U
67-66-3	Chloroform	53		U
107-06-2	1,2-Dichloroethane	53		U
71-55-6	1,1,1-Trichloroethane	53	68	
56-23-5	Carbon Tetrachloride	71		U
75-27-4	Bromodichloromethane	36		U
10061-01-5	cis-1,3-Dichloropropene	36		U
79-01-6	Trichloroethene	53	1200	
124-48-1	Dibromochloromethane	36		U
79-00-5	1,1,2-Trichloroethane	53		U
71-43-2	Benzene	53		U
10061-02-6	trans-1,3-Dichloropropene	53		U
75-25-2	Bromoform	36		U
127-18-4	Tetrachloroethene	53		U
79-34-5	1,1,2,2-Tetrachloroethane	36		U
108-88-3	Toluene	53		U
108-90-7	Chlorobenzene	36		U
100-41-4	Ethylbenzene	36		U
100-42-5	Styrene	36		U
78-87-5	1,2-Dichloropropane	53		U
74-87-3	Chloromethane	71		U
75-15-0	Carbon disulfide	36		U
67-64-1	Acetone	360	150	JB
108-10-1	4-Methyl-2-pentanone	140		U
591-78-6	2-hexanone	140		U
78-93-3	2-butanone	210		U
156-60-5	trans-1,2-Dichloroethene	53		U
156-59-2	cis-1,2-Dichloroethene	36	190	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11S

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914754

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014754B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 71.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	36		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11SDUP

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914755

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014755B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 71.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	36		U
75-01-4	Vinyl Chloride	71		U
75-00-3	Chloroethane	36		U
75-09-2	Methylene Chloride	710	87	JB
75-35-4	1,1-Dichloroethene	53		U
75-34-3	1,1-Dichloroethane	36		U
67-66-3	Chloroform	53		U
107-06-2	1,2-Dichloroethane	53		U
71-55-6	1,1,1-Trichloroethane	53	94	
56-23-5	Carbon Tetrachloride	71		U
75-27-4	Bromodichloromethane	36		U
10061-01-5	cis-1,3-Dichloropropene	36		U
79-01-6	Trichloroethene	53	1700	
124-48-1	Dibromochloromethane	36		U
79-00-5	1,1,2-Trichloroethane	53		U
71-43-2	Benzene	53		U
10061-02-6	trans-1,3-Dichloropropene	53		U
75-25-2	Bromoform	36		U
127-18-4	Tetrachloroethene	53		U
79-34-5	1,1,2,2-Tetrachloroethane	36		U
108-88-3	Toluene	53		U
108-90-7	Chlorobenzene	36		U
100-41-4	Ethylbenzene	36		U
100-42-5	Styrene	36		U
78-87-5	1,2-Dichloropropane	53		U
74-87-3	Chloromethane	71		U
75-15-0	Carbon disulfide	36		U
67-64-1	Acetone	360	130	JB
108-10-1	4-Methyl-2-pentanone	140		U
591-78-6	2-hexanone	140		U
78-93-3	2-butanone	210		U
156-60-5	trans-1,2-Dichloroethene	53		U
156-59-2	cis-1,2-Dichloroethene	36	240	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11SDUP

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914755

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014755B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 71.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	36		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-15S

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914752

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014752B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	2		U
75-01-4	Vinyl Chloride	5		U
75-00-3	Chloroethane	2		U
75-09-2	Methylene Chloride	50	8	JB
75-35-4	1,1-Dichloroethene	4		U
75-34-3	1,1-Dichloroethane	2		U
67-66-3	Chloroform	4	2	J
107-06-2	1,2-Dichloroethane	4		U
71-55-6	1,1,1-Trichloroethane	4	2	J
56-23-5	Carbon Tetrachloride	5		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
79-01-6	Trichloroethene	4		U
124-48-1	Dibromochloromethane	2		U
79-00-5	1,1,2-Trichloroethane	4		U
71-43-2	Benzene	4		U
10061-02-6	trans-1,3-Dichloropropene	4		U
75-25-2	Bromoform	2		U
127-18-4	Tetrachloroethene	4	120	
79-34-5	1,1,2,2-Tetrachloroethane	2		U
108-88-3	Toluene	4		U
108-90-7	Chlorobenzene	2		U
100-41-4	Ethylbenzene	2		U
100-42-5	Styrene	2		U
78-87-5	1,2-Dichloropropane	4		U
74-87-3	Chloromethane	5		U
75-15-0	Carbon disulfide	2		U
67-64-1	Acetone	25		U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-hexanone	10		U
78-93-3	2-butanone	15		U
156-60-5	trans-1,2-Dichloroethene	4		U
156-59-2	cis-1,2-Dichloroethene	2		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-15S

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914752

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014752B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 5.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	2		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-8S

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914763

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014763A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
74-83-9	Bromomethane	50		U
75-01-4	Vinyl Chloride	100		U
75-00-3	Chloroethane	50		U
75-09-2	Methylene Chloride	1000	83	JB
75-35-4	1,1-Dichloroethene	75		U
75-34-3	1,1-Dichloroethane	50		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
10061-01-5	cis-1,3-Dichloropropene	50		U
79-01-6	Trichloroethene	75	240	
124-48-1	Dibromochloromethane	50		U
79-00-5	1,1,2-Trichloroethane	75		U
71-43-2	Benzene	75		U
10061-02-6	trans-1,3-Dichloropropene	75		U
75-25-2	Bromoform	50		U
127-18-4	Tetrachloroethene	75	2000	
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	50		U
100-42-5	Styrene	50		U
78-87-5	1,2-Dichloropropane	75		U
74-87-3	Chloromethane	100		U
75-15-0	Carbon disulfide	50		U
67-64-1	Acetone	500		U
108-10-1	4-Methyl-2-pentanone	200		U
591-78-6	2-hexanone	200		U
78-93-3	2-butanone	300		U
156-60-5	trans-1,2-Dichloroethene	75		U
156-59-2	cis-1,2-Dichloroethene	50		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-8S

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914763

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014763A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
1330-20-7	Xylene (total)	50		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014760A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 59.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	30		U
75-01-4	Vinyl Chloride	59		U
75-00-3	Chloroethane	30		U
75-09-2	Methylene Chloride	590	33	JB
75-35-4	1,1-Dichloroethene	44		U
75-34-3	1,1-Dichloroethane	30	34	
67-66-3	Chloroform	44		U
107-06-2	1,2-Dichloroethane	44		U
71-55-6	1,1,1-Trichloroethane	44	1400	
56-23-5	Carbon Tetrachloride	59		U
75-27-4	Bromodichloromethane	30		U
10061-01-5	cis-1,3-Dichloropropene	30		U
79-01-6	Trichloroethene	44	960	
124-48-1	Dibromochloromethane	30		U
79-00-5	1,1,2-Trichloroethane	44		U
71-43-2	Benzene	44		U
10061-02-6	trans-1,3-Dichloropropene	44		U
75-25-2	Bromoform	30		U
127-18-4	Tetrachloroethene	44	2900	E
79-34-5	1,1,2,2-Tetrachloroethane	30		U
108-88-3	Toluene	44		U
108-90-7	Chlorobenzene	30		U
100-41-4	Ethylbenzene	30		U
100-42-5	Styrene	30		U
78-87-5	1,2-Dichloropropane	44		U
74-87-3	Chloromethane	59		U
75-15-0	Carbon disulfide	30		U
67-64-1	Acetone	300		U
108-10-1	4-Methyl-2-pentanone	120		U
591-78-6	2-hexanone	120		U
78-93-3	2-butanone	180		U
156-60-5	trans-1,2-Dichloroethene	44		U
156-59-2	cis-1,2-Dichloroethene	30	890	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014760A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 59.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	30		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014760A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84		U
75-01-4	Vinyl Chloride	170		U
75-00-3	Chloroethane	84		U
75-09-2	Methylene Chloride	2500	130	DJB
75-35-4	1,1-Dichloroethene	130		U
75-34-3	1,1-Dichloroethane	84		U
67-66-3	Chloroform	130		U
107-06-2	1,2-Dichloroethane	130		U
71-55-6	1,1,1-Trichloroethane	130	1200	D
56-23-5	Carbon Tetrachloride	170		U
75-27-4	Bromodichloromethane	84		U
10061-01-5	cis-1,3-Dichloropropene	84		U
79-01-6	Trichloroethene	130	850	D
124-48-1	Dibromochloromethane	84		U
79-00-5	1,1,2-Trichloroethane	130		U
71-43-2	Benzene	130		U
10061-02-6	trans-1,3-Dichloropropene	130		U
75-25-2	Bromoform	84		U
127-18-4	Tetrachloroethene	130	2300	D
79-34-5	1,1,2,2-Tetrachloroethane	84		U
108-88-3	Toluene	130		U
108-90-7	Chlorobenzene	84		U
100-41-4	Ethylbenzene	84		U
100-42-5	Styrene	84		U
78-87-5	1,2-Dichloropropane	130		U
74-87-3	Chloromethane	170		U
75-15-0	Carbon disulfide	84		U
67-64-1	Acetone	840		U
108-10-1	4-Methyl-2-pentanone	330		U
591-78-6	2-hexanone	330		U
78-93-3	2-butanone	500		U
156-60-5	trans-1,2-Dichloroethene	130		U
156-59-2	cis-1,2-Dichloroethene	84	850	D

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914760

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014760A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMS

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914748

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014748B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84	770	
75-01-4	Vinyl Chloride	170	650	
75-00-3	Chloroethane	84	790	
75-09-2	Methylene Chloride	2500	850	JB
75-35-4	1,1-Dichloroethene	130	820	
75-34-3	1,1-Dichloroethane	84	840	
67-66-3	Chloroform	130	790	
107-06-2	1,2-Dichloroethane	130	870	
71-55-6	1,1,1-Trichloroethane	130	1900	
56-23-5	Carbon Tetrachloride	170	840	
75-27-4	Bromodichloromethane	84	880	
10061-01-5	cis-1,3-Dichloropropene	84	830	
79-01-6	Trichloroethene	130	1800	
124-48-1	Dibromochloromethane	84	870	
79-00-5	1,1,2-Trichloroethane	130	830	
71-43-2	Benzene	130	800	
10061-02-6	trans-1,3-Dichloropropene	130	510	
75-25-2	Bromoform	84	880	
127-18-4	Tetrachloroethene	130	2800	
79-34-5	1,1,2,2-Tetrachloroethane	84	890	
108-88-3	Toluene	130	900	
108-90-7	Chlorobenzene	84	880	
100-41-4	Ethylbenzene	84	900	
100-42-5	Styrene	84	860	
78-87-5	1,2-Dichloropropane	130	850	
74-87-3	Chloromethane	170	730	
75-15-0	Carbon disulfide	84	780	
67-64-1	Acetone	840	3800	B
108-10-1	4-Methyl-2-pentanone	330	3900	
591-78-6	2-hexanone	330	3900	
78-93-3	2-butanone	500	4000	B
156-60-5	trans-1,2-Dichloroethene	130	820	
156-59-2	cis-1,2-Dichloroethene	84	1600	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMS

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914748

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014748B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84	2800	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMSD

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914749

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014749B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84	660	
75-01-4	Vinyl Chloride	170	670	
75-00-3	Chloroethane	84	770	
75-09-2	Methylene Chloride	2500	800	JB
75-35-4	1,1-Dichloroethene	130	730	
75-34-3	1,1-Dichloroethane	84	740	
67-66-3	Chloroform	130	770	
107-06-2	1,2-Dichloroethane	130	820	
71-55-6	1,1,1-Trichloroethane	130	1800	
56-23-5	Carbon Tetrachloride	170	740	
75-27-4	Bromodichloromethane	84	690	
10061-01-5	cis-1,3-Dichloropropene	84	680	
79-01-6	Trichloroethene	130	1600	
124-48-1	Dibromochloromethane	84	750	
79-00-5	1,1,2-Trichloroethane	130	750	
71-43-2	Benzene	130	770	
10061-02-6	trans-1,3-Dichloropropene	130	640	
75-25-2	Bromoform	84	710	
127-18-4	Tetrachloroethene	130	2600	
79-34-5	1,1,2,2-Tetrachloroethane	84	760	
108-88-3	Toluene	130	740	
108-90-7	Chlorobenzene	84	770	
100-41-4	Ethylbenzene	84	770	
100-42-5	Styrene	84	740	
78-87-5	1,2-Dichloropropane	130	720	
74-87-3	Chloromethane	170	740	
75-15-0	Carbon disulfide	84	730	
67-64-1	Acetone	840	3600	B
108-10-1	4-Methyl-2-pentanone	330	3300	
591-78-6	2-hexanone	330	3100	
78-93-3	2-butanone	500	4100	B
156-60-5	trans-1,2-Dichloroethene	130	720	
156-59-2	cis-1,2-Dichloroethene	84	1500	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWA-2DLMSD

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914749

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014749B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84	2400	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014756B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 17.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	8		U
75-01-4	Vinyl Chloride	17		U
75-00-3	Chloroethane	8		U
75-09-2	Methylene Chloride	170	24	JB
75-35-4	1,1-Dichloroethene	13	8	J
75-34-3	1,1-Dichloroethane	8	11	
67-66-3	Chloroform	13		U
107-06-2	1,2-Dichloroethane	13	10	J
71-55-6	1,1,1-Trichloroethane	13	63	
56-23-5	Carbon Tetrachloride	17		U
75-27-4	Bromodichloromethane	8		U
10061-01-5	cis-1,3-Dichloropropene	8		U
79-01-6	Trichloroethene	13	3800	E
124-48-1	Dibromochloromethane	8		U
79-00-5	1,1,2-Trichloroethane	13		U
71-43-2	Benzene	13		U
10061-02-6	trans-1,3-Dichloropropene	13		U
75-25-2	Bromoform	8		U
127-18-4	Tetrachloroethene	13		U
79-34-5	1,1,2,2-Tetrachloroethane	8		U
108-88-3	Toluene	13		U
108-90-7	Chlorobenzene	8		U
100-41-4	Ethylbenzene	8		U
100-42-5	Styrene	8		U
78-87-5	1,2-Dichloropropane	13		U
74-87-3	Chloromethane	17		U
75-15-0	Carbon disulfide	8		U
67-64-1	Acetone	85	99	B
108-10-1	4-Methyl-2-pentanone	34		U
591-78-6	2-hexanone	34		U
78-93-3	2-butanone	51		U
156-60-5	trans-1,2-Dichloroethene	13	9	J
156-59-2	cis-1,2-Dichloroethene	8	700	E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014756B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 17.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	8		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 915756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14756B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	84		U
75-01-4	Vinyl Chloride	170		U
75-00-3	Chloroethane	84		U
75-09-2	Methylene Chloride	2500	150	DJB
75-35-4	1,1-Dichloroethene	130		U
75-34-3	1,1-Dichloroethane	84		U
67-66-3	Chloroform	130		U
107-06-2	1,2-Dichloroethane	130		U
71-55-6	1,1,1-Trichloroethane	130	55	DJ
56-23-5	Carbon Tetrachloride	170		U
75-27-4	Bromodichloromethane	84		U
10061-01-5	cis-1,3-Dichloropropene	84		U
79-01-6	Trichloroethene	130	3000	D
124-48-1	Dibromochloromethane	84		U
79-00-5	1,1,2-Trichloroethane	130		U
71-43-2	Benzene	130		U
10061-02-6	trans-1,3-Dichloropropene	130		U
75-25-2	Bromoform	84		U
127-18-4	Tetrachloroethene	130		U
79-34-5	1,1,2,2-Tetrachloroethane	84		U
108-88-3	Toluene	130		U
108-90-7	Chlorobenzene	84		U
100-41-4	Ethylbenzene	84		U
100-42-5	Styrene	84		U
78-87-5	1,2-Dichloropropane	130		U
74-87-3	Chloromethane	170		U
75-15-0	Carbon disulfide	84		U
67-64-1	Acetone	840	260	DJB
108-10-1	4-Methyl-2-pentanone	330		U
591-78-6	2-hexanone	330		U
78-93-3	2-butanone	500	71	DJB
156-60-5	trans-1,2-Dichloroethene	130		U
156-59-2	cis-1,2-Dichloroethene	84	590	D

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-3DL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 915756

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14756B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 167.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	84		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-6

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914762

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014762A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 50.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	25		U
75-01-4	Vinyl Chloride	50		U
75-00-3	Chloroethane	25		U
75-09-2	Methylene Chloride	750	38	JB
75-35-4	1,1-Dichloroethene	38	130	
75-34-3	1,1-Dichloroethane	25	460	
67-66-3	Chloroform	38		U
107-06-2	1,2-Dichloroethane	38		U
71-55-6	1,1,1-Trichloroethane	38	750	
56-23-5	Carbon Tetrachloride	50		U
75-27-4	Bromodichloromethane	25		U
10061-01-5	cis-1,3-Dichloropropene	25		U
79-01-6	Trichloroethene	38	940	
124-48-1	Dibromochloromethane	25		U
79-00-5	1,1,2-Trichloroethane	38		U
71-43-2	Benzene	38		U
10061-02-6	trans-1,3-Dichloropropene	38		U
75-25-2	Bromoform	25		U
127-18-4	Tetrachloroethene	38		U
79-34-5	1,1,2,2-Tetrachloroethane	25		U
108-88-3	Toluene	38		U
108-90-7	Chlorobenzene	25		U
100-41-4	Ethylbenzene	25		U
100-42-5	Styrene	25		U
78-87-5	1,2-Dichloropropane	38		U
74-87-3	Chloromethane	50		U
75-15-0	Carbon disulfide	25		U
67-64-1	Acetone	250	110	JB
108-10-1	4-Methyl-2-pentanone	100		U
591-78-6	2-hexanone	100		U
78-93-3	2-butanone	150	33	J
156-60-5	trans-1,2-Dichloroethene	38		U
156-59-2	cis-1,2-Dichloroethene	25	130	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWB-6

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914762

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014762A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 50.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	25		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWC-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914757

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014757B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	10	2	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	0.7	J
56-23-5	Carbon Tetrachloride	1		U
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	24	
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8	1	
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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	2	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5	4	

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MWC-3

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914757

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014757B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
1330-20-7	Xylene (total)	0.5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-10I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914769

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014769B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 250.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	120		U
75-01-4	Vinyl Chloride	250		U
75-00-3	Chloroethane	120		U
75-09-2	Methylene Chloride	3800	200	JB
75-35-4	1,1-Dichloroethene	190		U
75-34-3	1,1-Dichloroethane	120		U
67-66-3	Chloroform	190		U
107-06-2	1,2-Dichloroethane	190		U
71-55-6	1,1,1-Trichloroethane	190		U
56-23-5	Carbon Tetrachloride	250		U
75-27-4	Bromodichloromethane	120		U
10061-01-5	cis-1,3-Dichloropropene	120		U
79-01-6	Trichloroethene	190	4500	
124-48-1	Dibromochloromethane	120		U
79-00-5	1,1,2-Trichloroethane	190		U
71-43-2	Benzene	190		U
10061-02-6	trans-1,3-Dichloropropene	190		U
75-25-2	Bromoform	120		U
127-18-4	Tetrachloroethene	190		U
79-34-5	1,1,2,2-Tetrachloroethane	120		U
108-88-3	Toluene	190		U
108-90-7	Chlorobenzene	120		U
100-41-4	Ethylbenzene	120		U
100-42-5	Styrene	120		U
78-87-5	1,2-Dichloropropane	190		U
74-87-3	Chloromethane	250		U
75-15-0	Carbon disulfide	120		U
67-64-1	Acetone	1200	530	JB
108-10-1	4-Methyl-2-pentanone	500		U
591-78-6	2-hexanone	500		U
78-93-3	2-butanone	750		U
156-60-5	trans-1,2-Dichloroethene	190		U
156-59-2	cis-1,2-Dichloroethene	120	2200	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-10I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914769

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014769B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 250.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	120		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12D

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914751

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014751A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 4.2

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	2		U
75-01-4	Vinyl Chloride	4		U
75-00-3	Chloroethane	2		U
75-09-2	Methylene Chloride	63	5	JB
75-35-4	1,1-Dichloroethene	3	5	
75-34-3	1,1-Dichloroethane	2	3	
67-66-3	Chloroform	3		U
107-06-2	1,2-Dichloroethane	3		U
71-55-6	1,1,1-Trichloroethane	3	33	
56-23-5	Carbon Tetrachloride	4		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
79-01-6	Trichloroethene	3	35	
124-48-1	Dibromochloromethane	2		U
79-00-5	1,1,2-Trichloroethane	3		U
71-43-2	Benzene	3		U
10061-02-6	trans-1,3-Dichloropropene	3		U
75-25-2	Bromoform	2		U
127-18-4	Tetrachloroethene	3	66	
79-34-5	1,1,2,2-Tetrachloroethane	2		U
108-88-3	Toluene	3		U
108-90-7	Chlorobenzene	2		U
100-41-4	Ethylbenzene	2		U
100-42-5	Styrene	2		U
78-87-5	1,2-Dichloropropane	3		U
74-87-3	Chloromethane	4		U
75-15-0	Carbon disulfide	2		U
67-64-1	Acetone	21	9	JB
108-10-1	4-Methyl-2-pentanone	8		U
591-78-6	2-hexanone	8		U
78-93-3	2-butanone	13		U
156-60-5	trans-1,2-Dichloroethene	3		U
156-59-2	cis-1,2-Dichloroethene	2	16	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12D

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914751

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014751A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 4.2

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	2		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12I

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014750B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 12.5

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	6		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	6		U
75-09-2	Methylene Chloride	120	14	JB
75-35-4	1,1-Dichloroethene	9	44	
75-34-3	1,1-Dichloroethane	6	16	
67-66-3	Chloroform	9		U
107-06-2	1,2-Dichloroethane	9		U
71-55-6	1,1,1-Trichloroethane	9	400	E
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	6		U
10061-01-5	cis-1,3-Dichloropropene	6		U
79-01-6	Trichloroethene	9	2000	E
124-48-1	Dibromochloromethane	6		U
79-00-5	1,1,2-Trichloroethane	9		U
71-43-2	Benzene	9		U
10061-02-6	trans-1,3-Dichloropropene	9		U
75-25-2	Bromoform	6		U
127-18-4	Tetrachloroethene	9		U
79-34-5	1,1,2,2-Tetrachloroethane	6		U
108-88-3	Toluene	9		U
108-90-7	Chlorobenzene	6		U
100-41-4	Ethylbenzene	6		U
100-42-5	Styrene	6		U
78-87-5	1,2-Dichloropropane	9		U
74-87-3	Chloromethane	12		U
75-15-0	Carbon disulfide	6		U
67-64-1	Acetone	62		U
108-10-1	4-Methyl-2-pentanone	25		U
591-78-6	2-hexanone	25		U
78-93-3	2-butanone	38		U
156-60-5	trans-1,2-Dichloroethene	9	10	
156-59-2	cis-1,2-Dichloroethene	6	430	E

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12I

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014750B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/21/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 12.5

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	6		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14750A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 89.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	44		U
75-01-4	Vinyl Chloride	89		U
75-00-3	Chloroethane	44		U
75-09-2	Methylene Chloride	1300	60	DJB
75-35-4	1,1-Dichloroethene	67	27	DJ
75-34-3	1,1-Dichloroethane	44		U
67-66-3	Chloroform	67		U
107-06-2	1,2-Dichloroethane	67		U
71-55-6	1,1,1-Trichloroethane	67	260	D
56-23-5	Carbon Tetrachloride	89		U
75-27-4	Bromodichloromethane	44		U
10061-01-5	cis-1,3-Dichloropropene	44		U
79-01-6	Trichloroethene	67	1300	D
124-48-1	Dibromochloromethane	44		U
79-00-5	1,1,2-Trichloroethane	67		U
71-43-2	Benzene	67		U
10061-02-6	trans-1,3-Dichloropropene	67		U
75-25-2	Bromoform	44		U
127-18-4	Tetrachloroethene	67		U
79-34-5	1,1,2,2-Tetrachloroethane	44		U
108-88-3	Toluene	67		U
108-90-7	Chlorobenzene	44		U
100-41-4	Ethylbenzene	44		U
100-42-5	Styrene	44		U
78-87-5	1,2-Dichloropropane	67		U
74-87-3	Chloromethane	89		U
75-15-0	Carbon disulfide	44		U
67-64-1	Acetone	440	120	DJB
108-10-1	4-Methyl-2-pentanone	180		U
591-78-6	2-hexanone	180		U
78-93-3	2-butanone	270		U
156-60-5	trans-1,2-Dichloroethene	67		U
156-59-2	cis-1,2-Dichloroethene	44	350	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-12IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914750

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14750A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 89.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	44		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14I

Project: CR014759A54 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014759A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 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
74-83-9	Bromomethane	0.5		U
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	0.6	J
75-34-3	1,1-Dichloroethane	0.5	3	
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	3	
56-23-5	Carbon Tetrachloride	1	0.4	J
75-27-4	Bromodichloromethane	0.5		U
10061-01-5	cis-1,3-Dichloropropene	0.5		U
79-01-6	Trichloroethene	0.8	27	E
124-48-1	Dibromochloromethane	0.5		U
79-00-5	1,1,2-Trichloroethane	0.8		U
71-43-2	Benzene	0.8		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		U
127-18-4	Tetrachloroethene	0.8	2	
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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	JB
108-10-1	4-Methyl-2-pentanone	2	0.7	J
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3	7	
156-60-5	trans-1,2-Dichloroethene	0.8	0.7	J
156-59-2	cis-1,2-Dichloroethene	0.5	12	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14I

Project: CR014759A54 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014759A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 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
1330-20-7	Xylene (total)	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14759B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 8.3

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	4		U
75-01-4	Vinyl Chloride	8		U
75-00-3	Chloroethane	4		U
75-09-2	Methylene Chloride	120	10	DJB
75-35-4	1,1-Dichloroethene	6		U
75-34-3	1,1-Dichloroethane	4	11	D
67-66-3	Chloroform	6		U
107-06-2	1,2-Dichloroethane	6		U
71-55-6	1,1,1-Trichloroethane	6	14	D
56-23-5	Carbon Tetrachloride	8		U
75-27-4	Bromodichloromethane	4		U
10061-01-5	cis-1,3-Dichloropropene	4		U
79-01-6	Trichloroethene	6	130	D
124-48-1	Dibromochloromethane	4		U
79-00-5	1,1,2-Trichloroethane	6		U
71-43-2	Benzene	6		U
10061-02-6	trans-1,3-Dichloropropene	6		U
75-25-2	Bromoform	4		U
127-18-4	Tetrachloroethene	6	11	D
79-34-5	1,1,2,2-Tetrachloroethane	4		U
108-88-3	Toluene	6		U
108-90-7	Chlorobenzene	4		U
100-41-4	Ethylbenzene	4		U
100-42-5	Styrene	4		U
78-87-5	1,2-Dichloropropane	6		U
74-87-3	Chloromethane	8		U
75-15-0	Carbon disulfide	4		U
67-64-1	Acetone	42		U
108-10-1	4-Methyl-2-pentanone	17		U
591-78-6	2-hexanone	17		U
78-93-3	2-butanone	25		U
156-60-5	trans-1,2-Dichloroethene	6	3	DJ
156-59-2	cis-1,2-Dichloroethene	4	55	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-14IDL

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914759

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: C2R14759B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/24/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 8.3

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	4		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014761A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 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
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	25		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	380	18	JB
75-35-4	1,1-Dichloroethene	19	12	J
75-34-3	1,1-Dichloroethane	12	26	
67-66-3	Chloroform	19		U
107-06-2	1,2-Dichloroethane	19		U
71-55-6	1,1,1-Trichloroethane	19	290	
56-23-5	Carbon Tetrachloride	25		U
75-27-4	Bromodichloromethane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	19	52	
124-48-1	Dibromochloromethane	12		U
79-00-5	1,1,2-Trichloroethane	19		U
71-43-2	Benzene	19		U
10061-02-6	trans-1,3-Dichloropropene	19		U
75-25-2	Bromoform	12		U
127-18-4	Tetrachloroethene	19	100	
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	12		U
100-42-5	Styrene	12		U
78-87-5	1,2-Dichloropropane	19		U
74-87-3	Chloromethane	25		U
75-15-0	Carbon disulfide	12		U
67-64-1	Acetone	120	33	JB
108-10-1	4-Methyl-2-pentanone	50		U
591-78-6	2-hexanone	50		U
78-93-3	2-butanone	75		U
156-60-5	trans-1,2-Dichloroethene	19		U
156-59-2	cis-1,2-Dichloroethene	12	150	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014761A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 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
1330-20-7	Xylene (total)	12		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014761A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 83.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	42		U
75-01-4	Vinyl Chloride	83		U
75-00-3	Chloroethane	42		U
75-09-2	Methylene Chloride	830	70	DJB
75-35-4	1,1-Dichloroethene	62		U
75-34-3	1,1-Dichloroethane	42	34	DJ
67-66-3	Chloroform	62		U
107-06-2	1,2-Dichloroethane	62		U
71-55-6	1,1,1-Trichloroethane	62	450	D
56-23-5	Carbon Tetrachloride	83		U
75-27-4	Bromodichloromethane	42		U
10061-01-5	cis-1,3-Dichloropropene	42		U
79-01-6	Trichloroethene	62		U
124-48-1	Dibromochloromethane	42		U
79-00-5	1,1,2-Trichloroethane	62		U
71-43-2	Benzene	62		U
10061-02-6	trans-1,3-Dichloropropene	62		U
75-25-2	Bromoform	42		U
127-18-4	Tetrachloroethene	62	140	D
79-34-5	1,1,2,2-Tetrachloroethane	42		U
108-88-3	Toluene	62		U
108-90-7	Chlorobenzene	42		U
100-41-4	Ethylbenzene	42		U
100-42-5	Styrene	42		U
78-87-5	1,2-Dichloropropane	62		U
74-87-3	Chloromethane	83		U
75-15-0	Carbon disulfide	42		U
67-64-1	Acetone	420		U
108-10-1	4-Methyl-2-pentanone	170		U
591-78-6	2-hexanone	170		U
78-93-3	2-butanone	250		U
156-60-5	trans-1,2-Dichloroethene	62		U
156-59-2	cis-1,2-Dichloroethene	42	190	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-16DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914761

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014761A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 83.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	42		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014766B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 4.2

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	2		U
75-01-4	Vinyl Chloride	4		U
75-00-3	Chloroethane	2		U
75-09-2	Methylene Chloride	42	3	JB
75-35-4	1,1-Dichloroethene	3	13	
75-34-3	1,1-Dichloroethane	2	48	
67-66-3	Chloroform	3		U
107-06-2	1,2-Dichloroethane	3	2	J
71-55-6	1,1,1-Trichloroethane	3	130	E
56-23-5	Carbon Tetrachloride	4		U
75-27-4	Bromodichloromethane	2		U
10061-01-5	cis-1,3-Dichloropropene	2		U
79-01-6	Trichloroethene	3	120	E
124-48-1	Dibromochloromethane	2		U
79-00-5	1,1,2-Trichloroethane	3		U
71-43-2	Benzene	3		U
10061-02-6	trans-1,3-Dichloropropene	3		U
75-25-2	Bromoform	2		U
127-18-4	Tetrachloroethene	3	20	
79-34-5	1,1,2,2-Tetrachloroethane	2		U
108-88-3	Toluene	3		U
108-90-7	Chlorobenzene	2		U
100-41-4	Ethylbenzene	2		U
100-42-5	Styrene	2		U
78-87-5	1,2-Dichloropropane	3		U
74-87-3	Chloromethane	4		U
75-15-0	Carbon disulfide	2		U
67-64-1	Acetone	21	7	JB
108-10-1	4-Methyl-2-pentanone	8		U
591-78-6	2-hexanone	8		U
78-93-3	2-butanone	13		U
156-60-5	trans-1,2-Dichloroethene	3		U
156-59-2	cis-1,2-Dichloroethene	2	22	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014766B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 4.2

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	2		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014766A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 7.1

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	4		U
75-01-4	Vinyl Chloride	7		U
75-00-3	Chloroethane	4		U
75-09-2	Methylene Chloride	110	6	DJB
75-35-4	1,1-Dichloroethene	5	12	D
75-34-3	1,1-Dichloroethane	4	40	D
67-66-3	Chloroform	5		U
107-06-2	1,2-Dichloroethane	5		U
71-55-6	1,1,1-Trichloroethane	5	94	D
56-23-5	Carbon Tetrachloride	7		U
75-27-4	Bromodichloromethane	4		U
10061-01-5	cis-1,3-Dichloropropene	4		U
79-01-6	Trichloroethene	5	82	D
124-48-1	Dibromochloromethane	4		U
79-00-5	1,1,2-Trichloroethane	5		U
71-43-2	Benzene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
75-25-2	Bromoform	4		U
127-18-4	Tetrachloroethene	5	15	D
79-34-5	1,1,2,2-Tetrachloroethane	4		U
108-88-3	Toluene	5		U
108-90-7	Chlorobenzene	4		U
100-41-4	Ethylbenzene	4		U
100-42-5	Styrene	4		U
78-87-5	1,2-Dichloropropane	5		U
74-87-3	Chloromethane	7		U
75-15-0	Carbon disulfide	4		U
67-64-1	Acetone	36	12	DJB
108-10-1	4-Methyl-2-pentanone	14		U
591-78-6	2-hexanone	14		U
78-93-3	2-butanone	21		U
156-60-5	trans-1,2-Dichloroethene	5		U
156-59-2	cis-1,2-Dichloroethene	4	17	D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914766

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014766A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 7.1

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	4		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014765A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	250		U
75-01-4	Vinyl Chloride	500		U
75-00-3	Chloroethane	250		U
75-09-2	Methylene Chloride	5000	400	JB
75-35-4	1,1-Dichloroethene	380		U
75-34-3	1,1-Dichloroethane	250		U
67-66-3	Chloroform	380		U
107-06-2	1,2-Dichloroethane	380		U
71-55-6	1,1,1-Trichloroethane	380		U
56-23-5	Carbon Tetrachloride	500		U
75-27-4	Bromodichloromethane	250		U
10061-01-5	cis-1,3-Dichloropropene	250		U
79-01-6	Trichloroethene	380	2700	
124-48-1	Dibromochloromethane	250		U
79-00-5	1,1,2-Trichloroethane	380		U
71-43-2	Benzene	380		U
10061-02-6	trans-1,3-Dichloropropene	380		U
75-25-2	Bromoform	250		U
127-18-4	Tetrachloroethene	380	13000	E
79-34-5	1,1,2,2-Tetrachloroethane	250		U
108-88-3	Toluene	380		U
108-90-7	Chlorobenzene	250		U
100-41-4	Ethylbenzene	250		U
100-42-5	Styrene	250		U
78-87-5	1,2-Dichloropropane	380		U
74-87-3	Chloromethane	500		U
75-15-0	Carbon disulfide	250		U
67-64-1	Acetone	2500		U
108-10-1	4-Methyl-2-pentanone	1000		U
591-78-6	2-hexanone	1000		U
78-93-3	2-butanone	1500		U
156-60-5	trans-1,2-Dichloroethene	380		U
156-59-2	cis-1,2-Dichloroethene	250		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8I

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014765A56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

GC Column:DB624 ID: 0.53 (mm) Dilution Factor: 500.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	250		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8IDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014765A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 714.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	360		U
75-01-4	Vinyl Chloride	710		U
75-00-3	Chloroethane	360		U
75-09-2	Methylene Chloride	11000	550	DJB
75-35-4	1,1-Dichloroethene	540		U
75-34-3	1,1-Dichloroethane	360		U
67-66-3	Chloroform	540		U
107-06-2	1,2-Dichloroethane	540		U
71-55-6	1,1,1-Trichloroethane	540		U
56-23-5	Carbon Tetrachloride	710		U
75-27-4	Bromodichloromethane	360		U
10061-01-5	cis-1,3-Dichloropropene	360		U
79-01-6	Trichloroethene	540	2600	D
124-48-1	Dibromochloromethane	360		U
79-00-5	1,1,2-Trichloroethane	540		U
71-43-2	Benzene	540		U
10061-02-6	trans-1,3-Dichloropropene	540		U
75-25-2	Bromoform	360		U
127-18-4	Tetrachloroethene	540	9400	D
79-34-5	1,1,2,2-Tetrachloroethane	360		U
108-88-3	Toluene	540		U
108-90-7	Chlorobenzene	360		U
100-41-4	Ethylbenzene	360		U
100-42-5	Styrene	360		U
78-87-5	1,2-Dichloropropane	540		U
74-87-3	Chloromethane	710		U
75-15-0	Carbon disulfide	360		U
67-64-1	Acetone	3600	1600	DJB
108-10-1	4-Methyl-2-pentanone	1400		U
591-78-6	2-hexanone	1400		U
78-93-3	2-butanone	2100		U
156-60-5	trans-1,2-Dichloroethene	540		U
156-59-2	cis-1,2-Dichloroethene	360		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-8IDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914765

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014765A54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 714.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	360		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014767B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
74-83-9	Bromomethane	50		U
75-01-4	Vinyl Chloride	100	16	J
75-00-3	Chloroethane	50		U
75-09-2	Methylene Chloride	1000	73	JB
75-35-4	1,1-Dichloroethene	75		U
75-34-3	1,1-Dichloroethane	50		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
10061-01-5	cis-1,3-Dichloropropene	50		U
79-01-6	Trichloroethene	75	3500	E
124-48-1	Dibromochloromethane	50		U
79-00-5	1,1,2-Trichloroethane	75		U
71-43-2	Benzene	75		U
10061-02-6	trans-1,3-Dichloropropene	75		U
75-25-2	Bromoform	50		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	50		U
100-42-5	Styrene	50		U
78-87-5	1,2-Dichloropropane	75		U
74-87-3	Chloromethane	100		U
75-15-0	Carbon disulfide	50		U
67-64-1	Acetone	500		U
108-10-1	4-Methyl-2-pentanone	200		U
591-78-6	2-hexanone	200		U
78-93-3	2-butanone	300		U
156-60-5	trans-1,2-Dichloroethene	75		U
156-59-2	cis-1,2-Dichloroethene	50	240	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9D

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CN014767B56.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/22/98

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
1330-20-7	Xylene (total)	50		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014767B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 192.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
74-83-9	Bromomethane	96		U
75-01-4	Vinyl Chloride	190		U
75-00-3	Chloroethane	96		U
75-09-2	Methylene Chloride	2900	170	DJB
75-35-4	1,1-Dichloroethene	140		U
75-34-3	1,1-Dichloroethane	96		U
67-66-3	Chloroform	140		U
107-06-2	1,2-Dichloroethane	140		U
71-55-6	1,1,1-Trichloroethane	140		U
56-23-5	Carbon Tetrachloride	190		U
75-27-4	Bromodichloromethane	96		U
10061-01-5	cis-1,3-Dichloropropene	96		U
79-01-6	Trichloroethene	140	2800	D
124-48-1	Dibromochloromethane	96		U
79-00-5	1,1,2-Trichloroethane	140		U
71-43-2	Benzene	140		U
10061-02-6	trans-1,3-Dichloropropene	140		U
75-25-2	Bromoform	96		U
127-18-4	Tetrachloroethene	140		U
79-34-5	1,1,2,2-Tetrachloroethane	96		U
108-88-3	Toluene	140		U
108-90-7	Chlorobenzene	96		U
100-41-4	Ethylbenzene	96		U
100-42-5	Styrene	96		U
78-87-5	1,2-Dichloropropane	140		U
74-87-3	Chloromethane	190		U
75-15-0	Carbon disulfide	96		U
67-64-1	Acetone	960	290	DJB
108-10-1	4-Methyl-2-pentanone	380		U
591-78-6	2-hexanone	380		U
78-93-3	2-butanone	580		U
156-60-5	trans-1,2-Dichloroethene	140		U
156-59-2	cis-1,2-Dichloroethene	96	210	D

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

PZ-9DDL

Project: RFA254 Date Sampled: 10/15/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914767

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014767B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 ID: 0.53 (mm) Dilution Factor: 192.0

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

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	DL	CONC	Q
1330-20-7	Xylene (total)	96		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TBLK101498

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914747

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014747B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 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
74-83-9	Bromomethane	0.5		U
75-01-4	Vinyl Chloride	1		U
75-00-3	Chloroethane	0.5		U
75-09-2	Methylene Chloride	15	4	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
10061-01-5	cis-1,3-Dichloropropene	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		U
10061-02-6	trans-1,3-Dichloropropene	0.8		U
75-25-2	Bromoform	0.5		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
100-42-5	Styrene	0.5		U
78-87-5	1,2-Dichloropropane	0.8		U
74-87-3	Chloromethane	1		U
75-15-0	Carbon disulfide	0.5		U
67-64-1	Acetone	5	1	JB
108-10-1	4-Methyl-2-pentanone	2		U
591-78-6	2-hexanone	2		U
78-93-3	2-butanone	3		U
156-60-5	trans-1,2-Dichloroethene	0.8		U
156-59-2	cis-1,2-Dichloroethene	0.5		U

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TBLK101498

Project: RFA254 Date Sampled: 10/14/98

Lab Code: COMPU Case No.: 33902 SAS No.: SDG No.: 25402

Matrix: (soil/water) WATER Lab Sample ID: 914747

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: CR014747B54.D

Level: (low/med) LOW Date Received: 10/17/98

% Moisture: not dec. _____ Date Analyzed: 10/23/98

GC Column:SP624 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
1330-20-7	Xylene (total)	0.5		U