



**WORK PLAN FOR THE REMOVAL OF
STOCKPILED AND DRUMMED SOILS**

**BUILDING NO. 52 AREA
CHRYSLER CORPORATION MAIN PLANT
KENOSHA, WISCONSIN
WDNR EID NO. 230004500**

SEP 1 1998

DEPT. of NATURAL RESOURCES
SERVICE CENTER
S. STEVENS, WI

PREPARED FOR:

Chrysler Corporation
800 Chrysler Drive
Auburn Hills, Michigan 48326-2757

PREPARED BY:

GZA GeoEnvironmental, Inc.
N4140 DuPlainville Road
Pewaukee, Wisconsin 53072

September 8, 1998
File No. 150313.19

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September 8, 1998
File No. 150313.19

Chrysler Corporation
800 Chrysler Drive
Auburn Hills, Michigan 48326-2757

Attention: Mr. Louis Alan Johnston
CIMS 482-00-51
Supervisor, Environmental Remediation
Pollution Prevention and Remediation

Subject: Work Plan for Removal of Stockpiled and Drummed Soils
Building No. 52 Area
Chrysler Corporation Main Plant
Kenosha, Wisconsin
WDNR FID No. 230004500



N4140 DuPlainville Road
Pewaukee, Wisconsin
53072
414-691-2662
FAX 414-691-9279

Dear Mr. Johnston:

GZA GeoEnvironmental, Inc. (GZA), on behalf of Chrysler Corporation (Chrysler), has prepared this Work Plan to document the removal of a soil stockpile and seven drums of soil located near Building No. 52 (MP-7 Area) of the Chrysler Main Plant (Site) in Kenosha, Wisconsin (refer to Figure No. 1). This Work Plan presents the scope of services to be performed and a schedule for their execution. The location of the stockpiled and drummed soils, relative to Building No. 52, is illustrated on Figure No. 2.

This Work Plan has been prepared in general accordance with the notification requirements stipulated in Wisconsin Administrative Code (WAC) Chapters NR 700. Upon authorization by Chrysler, a copy of this Work Plan will be submitted to the Wisconsin Department of Natural Resources (WDNR) to document the removal and disposition of contaminated soil from the Site.

BACKGROUND SUMMARY

The drummed and stockpiled soils are currently staged outside in the southern region of Building No. 52 (refer to Figure No. 2). The generation of approximately 200 cubic yards of petroleum impacted (stockpiled) soil resulted from the excavation of equipment footings during the recent equipment line change-out activities associated with Building No. 19 (Engine Head Finishing Area). The drummed soils were generated during geotechnical drilling activities in the vicinity of Building No. 52, performed by Triad Engineering Services, Inc. (Triad) from December 2, through December 4, 1997.

SUMMARY OF SOIL ANALYTICAL RESULTS

The stockpiled soils were sampled by Triad on December 19, 1997. A summary of the laboratory results from the disposal characterization soil sample collected from the stock pile and drummed soils is presented in Table 1. Drummed soils were sampled by GZA on September 1, 1998. Copies of the Waste Management of Wisconsin Generators Profile Sheet with an

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A Subsidiary of GZA
GeoEnvironmental
Technologies, Inc.

accompanying profile number and soil sample laboratory results for the soil drums and stockpile are included in Appendix A.

SCOPE OF WORK

Task 1: Scheduling and Permitting



GZA will schedule with Chrysler personnel and Chrysler-approved service providers for the excavation of contaminated soils. Soil sample laboratory results and waste profile documentation from the Site are pre-approved by Waste Management of Wisconsin, Inc. GZA will notify Waste Management of Wisconsin, Inc. of the scheduled excavation activities.

Task 2: Soil Loading, Transport, and Disposal

The contaminated soil stockpile and drum removal activities include the removal of approximately 200 cubic yards (300 tons) of impacted soil. GZA will provide oversight of the Chrysler-approved service providers to document that the soils are properly loaded and removed from the Site. A Chrysler-approved service provider will perform the loading of impacted soil. Soils will be directly loaded into trucks provided by Waste Management of Wisconsin, Inc. Soils will be transported to the Pheasant Run Recycling and Disposal Facility for treatment in a biocellsm and eventual reuse within the landfill as daily cover or temporary roads.

Task 3: Summary Letter Report Preparation

GZA will provide a brief summary letter to document the completion of the soil removal action and provide a brief description of the activities performed. Copies of all waste manifest documentation will also be provided in the letter report.

WORK SCHEDULE

A work schedule is included in Appendix B. Soils are scheduled for removal and disposal during the week of September 11, 1998.

CERTIFICATIONS

"I, Kevin T. Bugel, hereby certify that I am a Hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



Kevin T. Bugel, P.G. 9/9/98
Project Manager Date
Hydrogeologist

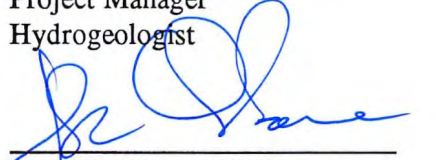
GZA appreciates the opportunity to be of continued service to Chrysler Corporation and looks forward to our continued association with you on this project. Should you have any questions or require additional information, please do not hesitate to contact the undersigned at your convenience.


Very truly yours,

GZA GeoEnvironmental, Inc.




Kevin T. Bugel, P.G.
Project Manager
Hydrogeologist


John C. Osborne, P.G.
Associate Principal
District Manager


Mark K. Borucki, P.G.
Senior Project Manager
Hydrogeologist

c: Andy Boettcher (WDNR-Sturtevant, WI)
Jack Bugno (Chrysler-Kenosha, WI)

f:\wp51\chrysler\kenosha\reports\WP52bldg.doc

Attachments: Table 1 Disposal Characterization Soil Analytical Summary
Figure No. 1 Site Plan
Figure No. 2 Soil Stockpile and Drum Staging Area Detail
Appendix A Waste Management Generators Profile Sheet and Soil Sample
Laboratory Results
Appendix B Schedule



TABLE 1
DISPOSAL CHARACTERIZATION SOIL ANALYTICAL SUMMARY

Chrysler Main Engine Plant
Chrysler Corporation
Kenosha, Wisconsin

| Analytical Parameter | Matrix | Max. Landfill Concentration | STC-LEX / Units |
|----------------------------------------------------------------|--------|---------------------------------|---------------------------------|
| <u>Volatile Organic Compounds (VOCs)</u> Methylene Chloride | Soil | 5,000 mg/kg for total DRO & VOC | 570 (B) $\mu\text{g}/\text{kg}$ |
| <u>Diesel Range Organic (DRO)</u> | Soil | | 810 mg/kg |
| <u>Metals</u> Arsenic | Water | 5,000 mg/kg for total metals | 3.7 (B) $\mu\text{g}/\text{l}$ |
| Chromium (Total) | Water | | 2.7 (B) $\mu\text{g}/\text{l}$ |

Notes:

1. Samples were collected by Triad Engineering, Inc. on December 19, 1997.
2. mg/kg = milligrams per kilogram; $\mu\text{g}/\text{kg}$ = micrograms per kilogram; and $\mu\text{g}/\text{l}$ = micrograms per liter.
3. "B" indicates that the analyte was found in the associated blank as well as in the sample.



FIGURES

MP-10
ENTIRE ENGINE PLANT

SOIL & DRUM STOCK PILE AREA

MP-16

MP-2

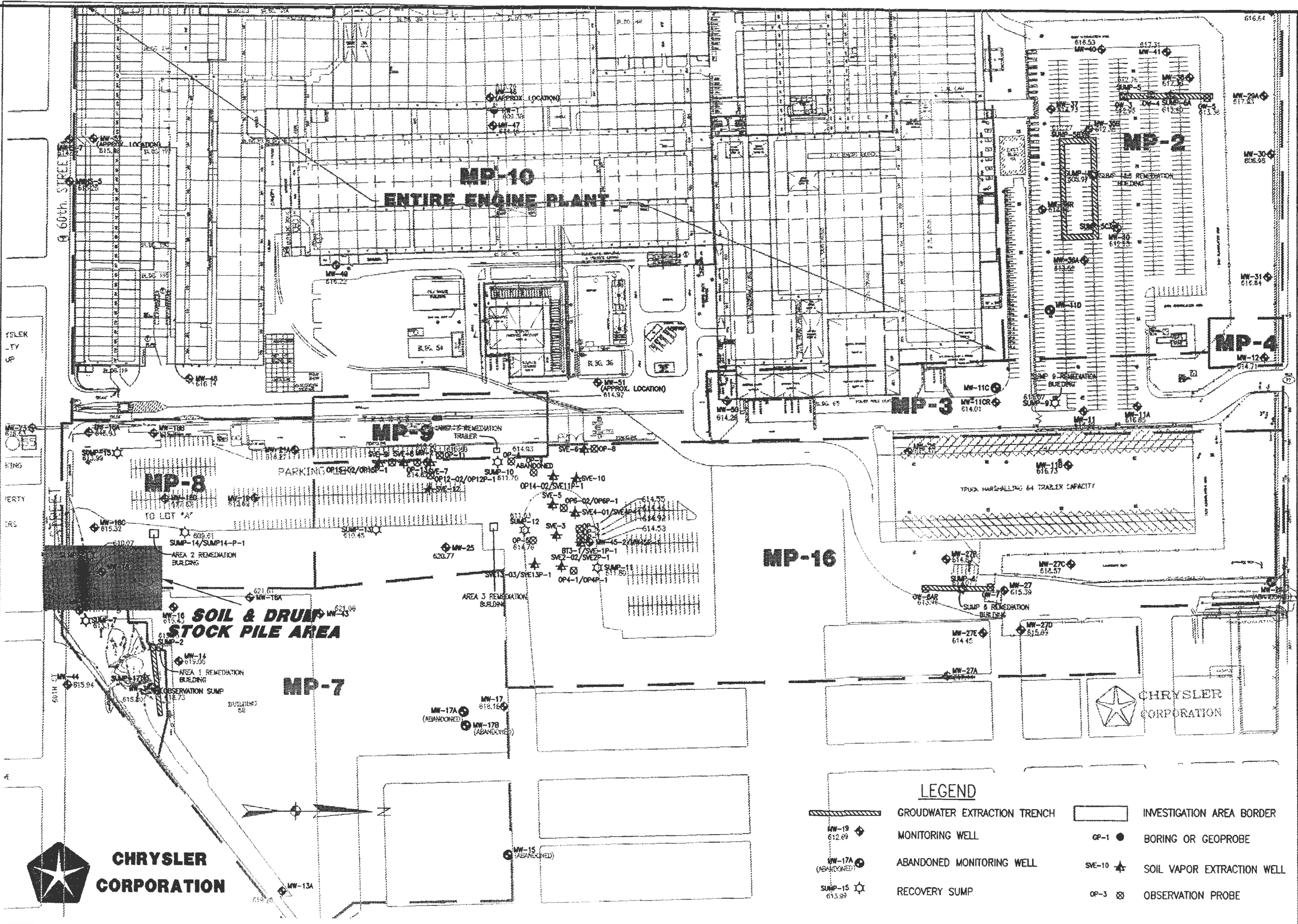
MP-4

MP-9

MP-8

MP-7

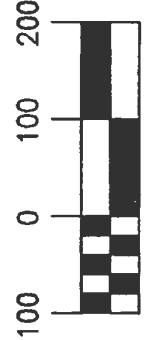
MP-3



LEGEND

- GROUNDEWATER EXTRACTION TRENCH
- MONITORING WELL
- ABANDONED MONITORING WELL
- RECOVERY SUMP
- INVESTIGATION AREA BORDER
- BORING OR GEOPROBE
- SOIL VAPOR EXTRACTION WELL
- OBSERVATION PROBE

DESIGNED BY: [REDACTED]
 REVIEWED BY: RPK
 DRAWN BY: RPK
 DATE: 8/31/98
 FILENAME: H:\DWG\CHRYSLER\STOCK.DWG



IGZA
GeoEnvironmental, Inc.
 N 410 DuPontville Road • Potosi, Missouri • 63772
 Phone (616) 981-9883 • Fax (616) 981-9879

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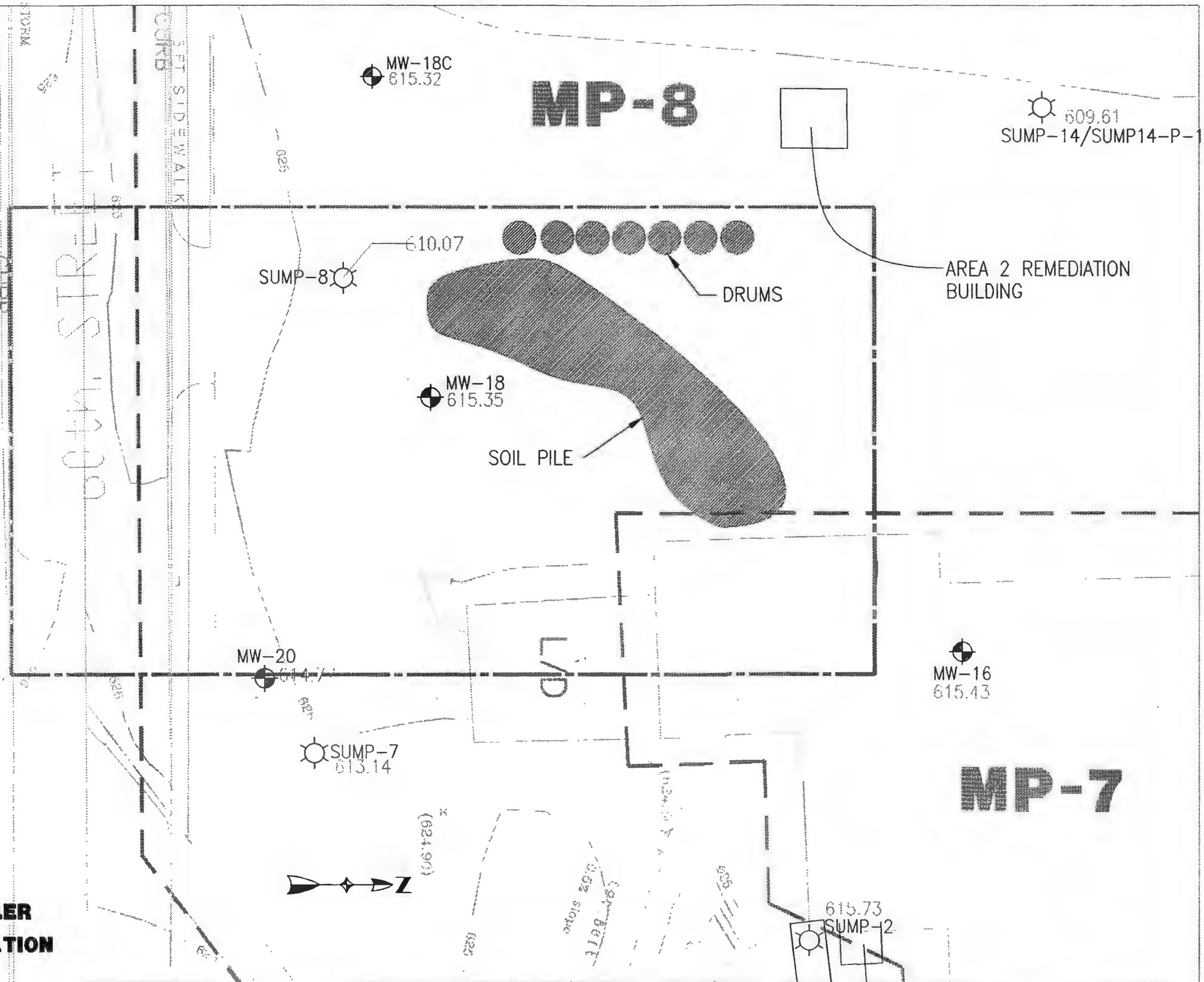
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SITE PLAN

CHRYSLER CORPORATION
KENOSHA WI,

FILE NO.
 150313.19

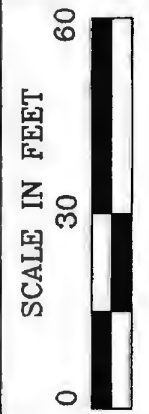
FIGURE NO.
 1



DESIGNED BY: [Signature]
 REVIEWED BY: RPK
 DRAWN BY: RPK
 DATE: 08/31/98
 FILENAME: H:\DWG\CHRYSLER\STOCK_DT.DWG



GZA
 GeoEnvironmental, Inc.
 4400 Maplehurst Road • Peninsula, Florida • 33972
 Phone (414) 691-2882 • Fax (414) 691-8279



| DATE | REVISIONS | INI |
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SOIL STOCK PILE & DRUM STAGING AREA DETAIL

**CHRYSLER CORPORATION
 KENOSHA, WI**

FILE NO.
 150313.19

FIGURE NO.
 2

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APPENDIX A

Waste Management Generators Profile Sheet and Soil Sample Laboratory Results



MIDWEST REGION GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Waste Profile Sheet Code

MW 28052

AOK The Blue area

Proposed Management Facility PHEASANT RUN
RECYCLING &
DISPOSAL FACILITY

This form is to be used to comply with the requirements of a waste agreement.

INSTRUCTIONS FOR COMPLETING THIS FORM ARE ATTACHED

Decision Expiration Date: / /

I. WASTE GENERATOR INFORMATION

1. Generator Name: CHRYSLER CORPORATION - KENOSHA ENGINE PLANT 2. SIC Code: 3711
 Facility Address (site of waste generation): 555 30TH AVE
 Generator City, State: KENOSHA, WISCONSIN 5. Zip/Postal Code: 53142-2800
 6. State ID #: WTO050269372
 7. Technical Contact: MR JOHN P. BUGNO 8. Phone: (414) 658-6000

II. WASTE STREAM INFORMATION (See Instructions)

1. Name of Waste: CONTAMINATED SOILS - diesel, gasoline & etc. (see Reg. Certificate - Tried 7-16-95 - 8.5)
 2. Process Generating Waste: SEE ATTACHED LETTER
 Amount/Units: ESTIMATED 20,000 CUBIC YARDS 4. Type A Type B
 Special Handling Instructions/Supplemental Information: N/A

Incidental Waste Types and Amounts: N/A

III. TRANSPORTATION INFORMATION

1. Method of Shipment: Bulk Liquid Bulk Sludge Bulk Solid Drum/Box Other _____
 2. Supplemental Shipping Information: SOILS WILL BE TRANSPORTED VIA DUMP TRUCKS

D. PHYSICAL CHARACTERISTICS OF WASTE (See Instructions) (Omit for Type B)

| | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1. Color <u>BROWN</u> | 2. Does the waste have a strong incidental odor? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes; if so, describe: _____ | 3. Physical State @ 70° F/21°C: <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Semi-Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Powder <input type="checkbox"/> Other: _____ | 4. Layers <input type="checkbox"/> Multi-layered <input type="checkbox"/> Bi-layered <input checked="" type="checkbox"/> Single Phased | 5. Specific Gravity Range <u>1.9 - 2.2</u> | 6. Free Liquids: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Volume: _____ % |
| 7. pH: <input type="checkbox"/> < 2 <input type="checkbox"/> > 2-4 <input type="checkbox"/> 4-7 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 7-10 <input type="checkbox"/> 10- < 12.5 <input type="checkbox"/> ≥ 12.5 <input type="checkbox"/> Range <input type="checkbox"/> NA | | | | | |
| 8. Flash Point: <input type="checkbox"/> None <input type="checkbox"/> < 140°F/60°C <input type="checkbox"/> 140 - 199°F/60 - 93°C <input checked="" type="checkbox"/> ≥ 200°F/93°C <input checked="" type="checkbox"/> Closed Cup <input type="checkbox"/> Open Cup | | | | | |

E. CHEMICAL COMPOSITION (Omit for Type B)

| | RANGE (MIN-MAX) | 2. Does the waste contain any of the following? (provide concentration if known): | |
|--------------|-------------------|-----------------------------------------------------------------------------------|-----------|
| | | NO or LESS THAN | or ACTUAL |
| 1. SOILS | <u>> 99 %</u> | | |
| VOCs/DRO/GRO | <u>< 0.5 %</u> | | |
| METALS | <u>< 0.5 %</u> | | |
| | _____ % | PCBs <input type="checkbox"/> <input checked="" type="checkbox"/> < 50 ppm | _____ ppm |
| | _____ % | Cyanides <input type="checkbox"/> <input checked="" type="checkbox"/> < 50 ppm | _____ ppm |
| | _____ % | Sulfides <input type="checkbox"/> <input checked="" type="checkbox"/> < 50 ppm | _____ ppm |
| | _____ % | Phenols <input checked="" type="checkbox"/> <input type="checkbox"/> < 50 ppm | _____ ppm |
| | _____ % | | |
| | _____ % | | |
| Total: | <u>100 %</u> | | |

The total composition must be greater than or equal to 100%. (.0001% = 1 ppm or 1 mg/l)

F. SAMPLING SOURCE (Omit for Type B) (e.g., Drum, Lagoon, Pit, Pond, Tank, Vat) _____

G. REPRESENTATIVE SAMPLE CERTIFICATION (Omit for Type B)

1. Print Sampler's Name: JEANNE M. RAMPONI 2. Sample Date: 6/21/95
3. Sampler's Title: HYDROGEOLOGIST
4. Sampler's Employer (if other than Generator): TRIAD ENGINEERING INCORPORATED

The sampler's signature certifies that any sample submitted is representative of the waste described above pursuant to 40 CFR 261.20(c) or equivalent rules.

5. Sampler's Signature *Jeanne Ramponi*

H. GENERATOR CERTIFICATION

By signing this profile sheet, the Generator certifies:

1. This waste is not "Hazardous Waste" as defined by USEPA and/or state regulation.
 2. This waste does not contain regulated radioactive materials or regulated concentrations of PCB's (Polychlorinated Biphenyls).
 3. The waste does not contain regulated concentrations of the following pesticides and herbicides: Chlordane, Endrin, Heptachlor (and it's epoxide), Lindane, Methoxychlor, Toxaphene, 2, 4-D, or 2, 4, 5-TP (Silvex).
 4. The waste does not contain halogenated compounds such as: tetrachloroethylene, trichloroethylene, methylene chloride, 1, 1, 1-trichloroethane, carbon tetrachloride, chloroform, ortho-dichlorobenzene, dichlorodifluoromethane, 1, 1, 2-trichloro-1, 2, 2-trifluoroethane, trichlorofluoromethane, 1, 1-dichloroethylene, and 1, 2-dichloroethylene at greater than 1% (10,000ppm) total solvent concentration. This listing includes any combination of the above named halogenated compounds where the total concentration or the sum of the concentrations of the individual compounds exceed 1% or 10,000 ppm on a weight to weight basis.
 5. This sheet and the attachments contain true and accurate descriptions of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
 6. The Generator has read and understands the Contractor's Definition of Special Waste included in Part B.5. of the attached instructions form. All types and amounts of special wastes provided in incidental amounts have been identified in section B.6. of this form.
 7. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20(c) or equivalent rules.
 8. If any changes occur in the character of the waste, the Generator shall notify the Contractor prior to providing the waste to the Contractor.
9. Signature *John P. Bugno* 10. Title SITE ADMINISTRATOR/WISCONSIN OPERATIONS
11. Name (Type or Print) JOHN P. BUGNO 12. Date 7/11/95

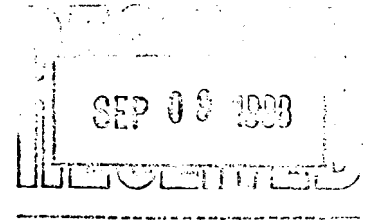
NOTE: Omit sections D., E., F., and G., for Type B waste.

Comments:

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

September 4, 1998

Mr. Mark Krumenacher
GZA Geoenvironmental
North 4140 Duplainville Road
Pewaukee, WI 53072



Dear Mr. Krumenacher:

We at CompuChem are pleased to provide our report for the analysis you requested.
Data for the following samples are enclosed:

| Client ID Number | CompuChem ID Number | Analysis Code | Case Number | Description of Work Requested |
|------------------|---------------------|---------------|--------------|-------------------------------|
| BLDG52-DRUMS | 908442 | 1316 | 33805. 13001 | Reactive Cyanide |

Thank you for selecting CompuChem Environmental for your sample analysis.
If you have any questions concerning this report or the analytical methods employed,
please contact your Sales Representative at 919-379-4100.

Sincerely,

Project Manager

ANALYTICAL REPORT OF DATA - CASE # 33805. 13001

SUBMITTED TO:
Mr. Mark Krumenacher
GZA Geoenvironmental
North 4140 Duplainville Road
Pewaukee, WI 53072

LABORATORY CHRONICLE - REACTIVE CYANIDE ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE EXTRACTION COMPLETED | DATE ANALYSIS COMPLETED |
|-------------|----------------------|---------------------|----------------------------|---------------------------------|-------------------------------|
| 1. | BLDG52-DRUM | 908442 | 09/02/98 | 09/03/98 | 09/03/98 |

REACTIVE CYANIDE ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | CONCENTRATION (mg/kg) | REPORTING LIMIT (mg/kg) |
|----------|-------------------|------------------|-----------------------|-------------------------|
| 1. | BLDG52-DRUMS | 908442 | BRL | 125 |

BRL = BELOW REPORTING LIMIT

NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Berlem 12326 Date: 9/4/98

REACTIVE CYANIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33805. 13001
 MATRIX: SOIL

Analyst:2059
 Date Analyzed: 09/03/98

| BLANK SPIKE (BS) COMPUCHEM #: 908443 | | |
|--------------------------------------|------------------------|---------------------|
| SPIKE ADDED (mg/kg) | BS CONC. (mg/kg) | BS % RECOVERY |
| 40.00 | 7.993 | 20.00 |

| COMPUCHEM # | QC TYPE | AMOUNT DETECTED (mg/kg) |
|-------------|--------------|-------------------------------|
| PBS | METHOD BLANK | BRL |

The reporting limit for Reactive Cyanide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
 RPD = RELATIVE PERCENT DIFFERENCE
 NWR = NOT WITHIN RANGE

CompuChem Receiving Log

Client: GZA/Chryster Received on: 9.2.98 # of COC's 1 PPS/RFA# 130 Page 1 of 1
 Order # 33805 Delivered by: Del-Ex Lab Instructions: 5
 Project: RFA130 Freight # 806312667763 Reactivity - Cyanide only
 Quote # 98-7040 Subcontract Y (N)
 Account # 501119 TAT: Verbal 48HR Hardcopy 10 day

| | SDG | REQ | SAMPLE ID | CCN | AMOUNT / CONTAINER | PARAMETER | ANALYSIS CODE | LINE ITEM | SAMPLE DATE | MX | pH |
|----|-------|-----|-------------|---------|--------------------|-------------------------------------|---------------|-----------|-------------|----|----|
| 1 | 13001 | 1 | BLD52-Drums | 90844.2 | 4- 2 oz jars | Reactive Cyn. ^{Protocol B} | 1316 | 1 | 9/1/98 | 50 | NA |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
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| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |

J. Ellmore 9/2/98

Logged In By: Jane Ellmore Order Entered By: Jane Ellmore
 Cyanide samples checked for sulfide and chlorine Y (NA) Received in good condition (Y) N _____
 Holding Blank(s) : Counter / Page 1 / CCN's 1 Temperature(s) 11:00



Chain-of-Custody

U125T A

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

Project Name: Chrysler Main Engine Plant
 Site Location: Kenosha, WI
 Site Code:
 RFA Number: YGR9800130
 Chrysler PM:

Consultant: GZA GeoEnvironmental, Inc
 Address: 21440 Duplainville Rd
Newark, WI 53072
 Consultant PM: Mark Bacucki
 Phone: (414) 691-2662 Fax: (414) 691-9279

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

Data Package Deliverables: (circle)
 Chrysler Level 1 (circled)
 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 | Lab Use Only | | | | Remarks |
|-----------------------------|----------------|----------------|---------------------------|-------------|-----------------------|------------------|---------------|-----------------|-------|---------|
| | | | | | | Volatiles pH < 2 | Metals pH < 2 | Cyanide pH > 12 | Other | |
| <u>B1052-Drums</u> | <u>9/1/98</u> | <u>9:05</u> | <u>C</u> | <u>S</u> | <u>4</u> | | | | | |
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Reactive Cyanide (Protocol B)

opened 10:35 AM 9/2/98

| | | | | | | | |
|---------------------------------------|----------------------------------------|------------------------------------------------------------|-------------------------------------|-----------------------------|---------------|----------------------|----------------------|
| Sampler(s) <u>John Brueskewitz</u> | Bottles Relinquished under Airbill No. | Samples Relinquished under Airbill No. <u>806312667763</u> | Temperature (corrected) <u>16 C</u> | | | | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: | Custody Seal Intact? | |
| Relinquished by: | Date: | Time: | Received by: | Date: | Time: | Custody Seal Intact? | |
| Cooler ID # _____ | Relinquished by: | Date: | Time: | Received for Laboratory by: | Date: | Time: | Custody Seal Intact? |
| Is RFA sampling complete? Yes No | | | | <u>Martina J. Smith</u> | <u>9/2/98</u> | <u>10:30</u> | <u>(Yes) No</u> |

Chrysler Corporation 800 Chrysler Drive, CIMS 482-08-51, Auburn Hills, Michigan 48326-2757

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

Client did not relinquish C-O-C rfa 9/2/98

Sample placed in storage ID 1 on 9/2/98 11:00 AM



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

*Received 1/5/98
2/2*

02/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

Subject: Report of Data - Account Number# 500957 Order# 33352

ATTN: ROSS CREIGHTON

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

This report covers 2 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,

CompuChem Environmental
a division of Liberty Analytical

Attachment



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

02/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

ACCOUNT #: 500957

| CC# | SAMPLE-ID | RECEIPT DATE |
|--------|------------|--------------|
| 879011 | STC-LEX | 12/23/97 |
| 879029 | METHANBLNK | 12/23/97 |

TOTAL NUMBER OF SAMPLES = 2

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

SDG NARRATIVE
CASE:33352
SDG:83564
CONTRACT:500957

SAMPLE IDENTIFICATIONS: STC-LEX

The one(1) soil sample listed above was received intact, properly refrigerated, with chain of custody documentation on December 23, 1997. The samples were prepared and analyzed following SW846 method 8260 by medium level analysis.

VOLATILES:

Analysis holding time requirements were met for this sample. No target analytes were identified above the reporting limit except methylene chloride.

No Tentatively Identified Compound (TIC) data is provided as requested by the client.

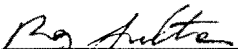
All of the surrogates met recovery criteria in all of the samples and all of the internal standards met response and retention time criteria in the analyses of these samples.

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.

Duplicate matrix spikes were generated from the original STC-LEX. All advisory accuracy and precision criteria were met with one exception. The spike compound toluene exceeded the recovery limits in the matrix spike duplicate.

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
January 02, 1998



Chain-of-Custody

00404 A

ATTN: DIANE ELLMORE

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

Project Name: Chrysler Corp.
Site Location: Kenosha, Wisconsin
Site Code:
RFA Number: YGQP9700835-836
Chrysler PM: DIANE ELLMORE

Consultant: Triad Engineering Inc.
Address: 325 E. Chicago Street
Milw. Wisconsin 53202
Consultant PM: Ross Creighton
Phone: (414) 291 8840 Fax: (414) 291-8841

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 | Compound List-Parameter/Method/Bottle Type/Preservative | Lab Use Only | | | | Remarks |
|-----------------------------|----------------|----------------|---------------------------|-------------|-----------------------|---------------------------------------------------------|------------------|---------------|-----------------|-------|---------|
| | | | | | | | Volatiles pH < 2 | Metals pH < 2 | Cyanide pH > 12 | Other | |
| STC-LEX | 12/19/97 | 1430 | G | S | 6 | PROTOCOL B (no preserv.) | | | | | |
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Sampler(s) ARK, JMK

| | | |
|----------------------------------------|-----------------------------------------|-----------------------------------------------------------|
| Bottles Relinquished under Airbill No. | Samples Relinquished under Airbill No. | Temperature (corrected) _____ C |
| Relinquished by: <u>[Signature]</u> | Date: <u>12/22/97</u> Time: <u>1145</u> | Received by: _____ Date: _____ Time: _____ |
| Relinquished by: _____ | Date: _____ Time: _____ | Received by: _____ Date: _____ Time: _____ |
| Relinquished by: _____ | Date: _____ Time: _____ | Received for Laboratory by: _____ Date: _____ Time: _____ |

Cooler ID # _____

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

METHANBLNK

Project: RFA835 Date Sampled: _____
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879029
 Sample wt/vol: 20.0 (g/mL) G Lab File ID: CN079029A52.D
 Level: (low/med) MED Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 12/30/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0.00 (uL)

CONCENTRATION UNITS: UG/KG
DL CONC Q

| CAS NO. | COMPOUND | DL | CONC | Q |
|---------------|-----------------------------|-----|------|---|
| 75-01-4----- | Vinyl Chloride | 480 | | U |
| 75-00-3----- | Chloroethane | 480 | | U |
| 75-09-2----- | Methylene Chloride | 480 | 480 | J |
| 75-35-4----- | 1,1-Dichloroethene | 480 | | U |
| 75-34-3----- | 1,1-Dichloroethane | 480 | | U |
| 67-66-3----- | Chloroform | 480 | | U |
| 107-06-2----- | 1,2-Dichloroethane | 480 | | U |
| 71-55-6----- | 1,1,1-Trichloroethane | 480 | | U |
| 56-23-5----- | Carbon Tetrachloride | 480 | | U |
| 75-27-4----- | Bromodichloromethane | 480 | | U |
| 79-01-6----- | Trichloroethene | 480 | | U |
| 124-48-1----- | Dibromochloromethane | 480 | | U |
| 79-00-5----- | 1,1,2-Trichloroethane | 480 | | U |
| 71-43-2----- | Benzene | 480 | | U |
| 127-18-4----- | Tetrachloroethene | 480 | | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | 480 | | U |
| 108-88-3----- | Toluene | 480 | | U |
| 108-90-7----- | Chlorobenzene | 480 | | U |
| 100-41-4----- | Ethylbenzene | 480 | | U |
| 106-93-4----- | 1,2-Dibromoethane | 480 | | U |
| 96-12-8----- | 1,2-Dibromo-3-Chloropropane | 480 | | U |
| 75-69-4----- | Trichlorofluoromethane | 480 | | U |
| 594-20-7----- | 2,2-Dichloropropane | 480 | | U |
| 98-82-8----- | Isopropyl Benzene | 480 | | U |
| 108-86-1----- | Bromobenzene | 480 | | U |
| 95-49-8----- | 2-Chlorotoluene | 480 | | U |
| 106-43-4----- | 4-Chlorotoluene | 480 | | U |
| 108-67-8----- | 1,3,5-Trimethyl Benzene | 480 | | U |
| 98-06-6----- | tert-Butyl Benzene | 480 | | U |
| 95-63-6----- | 1,2,4-Trimethyl Benzene | 480 | | U |
| 135-98-8----- | sec-Butyl Benzene | 480 | | U |
| 541-73-1----- | 1,3-Dichlorobenzene | 480 | | U |
| 106-46-7----- | 1,4-Dichlorobenzene | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

METHANBLNK

Project: RFA835 Date Sampled: _____
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879029
 Sample wt/vol: 20.0 (g/mL) G Lab File ID: CN079029A52.D
 Level: (low/med) MED Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 12/30/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0.00 (uL)

CONCENTRATION UNITS: UG/KG
DL CONC Q

| CAS NO. | COMPOUND | DL | CONC | Q |
|----------------|----------------------------|-----|------|---|
| 99-87-6----- | p-Isopropyl Toluene | 480 | | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 480 | | U |
| 104-51-8----- | n-Butyl Benzene | 480 | | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 480 | | U |
| 87-68-3----- | Hexachlorobutadiene | 480 | | U |
| 91-20-3----- | Naphthalene | 480 | | U |
| 78-87-5----- | 1,2-Dichloropropane | 480 | | U |
| 142-28-9----- | 1,3-Dichloropropane | 480 | | U |
| 103-65-1----- | n-Propyl Benzene | 480 | | U |
| 74-87-3----- | Chloromethane | 480 | | U |
| 87-61-6----- | 1,2,3-Trichlorobenzene | 480 | | U |
| 75-71-8----- | Dichlorodifluoromethane | 480 | | U |
| 1634-04-4----- | Methyl-tert-butyl ether | 480 | | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 480 | | U |
| 1330-20-7----- | Xylene (total) | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEX

Project: RFA835 Date Sampled: 12/19/97
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879011
 Sample wt/vol: 20.0 (g/mL) G Lab File ID: CN079011A52.D
 Level: (low/med) MED Date Received: 12/23/97
 % Moisture: not dec. 14 Date Analyzed: 12/30/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0.00 (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: UG/KG | | Q |
|----------|-----------------------------|----------------------------|------|---|
| | | DL | CONC | |
| 75-01-4 | Vinyl Chloride | 480 | | U |
| 75-00-3 | Chloroethane | 480 | | U |
| 75-09-2 | Methylene Chloride | 480 | 570 | B |
| 75-35-4 | 1,1-Dichloroethene | 480 | | U |
| 75-34-3 | 1,1-Dichloroethane | 480 | | U |
| 67-66-3 | Chloroform | 480 | | U |
| 107-06-2 | 1,2-Dichloroethane | 480 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 480 | 68 | J |
| 56-23-5 | Carbon Tetrachloride | 480 | | U |
| 75-27-4 | Bromodichloromethane | 480 | | U |
| 79-01-6 | Trichloroethene | 480 | 390 | J |
| 124-48-1 | Dibromochloromethane | 480 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 480 | | U |
| 71-43-2 | Benzene | 480 | | U |
| 127-18-4 | Tetrachloroethene | 480 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 480 | | U |
| 108-88-3 | Toluene | 480 | 76 | J |
| 108-90-7 | Chlorobenzene | 480 | | U |
| 100-41-4 | Ethylbenzene | 480 | | U |
| 106-93-4 | 1,2-Dibromoethane | 480 | | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 480 | | U |
| 75-69-4 | Trichlorofluoromethane | 480 | | U |
| 594-20-7 | 2,2-Dichloropropane | 480 | | U |
| 98-82-8 | Isopropyl Benzene | 480 | | U |
| 108-86-1 | Bromobenzene | 480 | | U |
| 95-49-8 | 2-Chlorotoluene | 480 | | U |
| 106-43-4 | 4-Chlorotoluene | 480 | | U |
| 108-67-8 | 1,3,5-Trimethyl Benzene | 480 | | U |
| 98-06-6 | tert-Butyl Benzene | 480 | | U |
| 95-63-6 | 1,2,4-Trimethyl Benzene | 480 | | U |
| 135-98-8 | sec-Butyl Benzene | 480 | | U |
| 541-73-1 | 1,3-Dichlorobenzene | 480 | | U |
| 106-46-7 | 1,4-Dichlorobenzene | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

| |
|---------|
| STC-LEX |
|---------|

| | |
|----------------------------------------------------|-----------------------------------|
| Project: RFA835 | Date Sampled: 12/19/97 |
| Lab Code: COMPU Case No.: 33352 SAS No.: | SDG No.: 83564 |
| Matrix: (soil/water) SOIL | Lab Sample ID: 879011 |
| Sample wt/vol: 20.0 (g/mL) G | Lab File ID: CN079011A52.D |
| Level: (low/med) MED | Date Received: 12/23/97 |
| % Moisture: not dec. 14 | Date Analyzed: 12/30/97 |
| GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0 |
| Soil Extract Volume: 0 (uL) | Soil Aliquot Volume: 0.00 (uL) |

| CAS NO. | COMPOUND | CONCENTRATION UNITS: UG/KG | | |
|----------------|----------------------------|----------------------------|------|---|
| | | DL | CONC | Q |
| 99-87-6----- | p-Isopropyl Toluene | 480 | | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 480 | | U |
| 104-51-8----- | n-Butyl Benzene | 480 | | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 480 | | U |
| 87-68-3----- | Hexachlorobutadiene | 480 | | U |
| 91-20-3----- | Naphthalene | 480 | | U |
| 78-87-5----- | 1,2-Dichloropropane | 480 | | U |
| 142-28-9----- | 1,3-Dichloropropane | 480 | | U |
| 103-65-1----- | n-Propyl Benzene | 480 | | U |
| 74-87-3----- | Chloromethane | 480 | | U |
| 87-61-6----- | 1,2,3-Trichlorobenzene | 480 | 100 | J |
| 75-71-8----- | Dichlorodifluoromethane | 480 | | U |
| 1634-04-4----- | Methyl-tert-butyl ether | 480 | | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 480 | | U |
| 1330-20-7----- | Xylene (total) | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEXMS

Project: RFA835 Date Sampled: 12/19/97
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879014
 Sample wt/vol: 20.0 (g/mL) G Lab File ID: CN079014A52.D
 Level: (low/med) MED Date Received: 12/23/97
 % Moisture: not dec. 14 Date Analyzed: 12/30/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0.00 (uL)

CONCENTRATION UNITS: UG/KG
DL CONC Q

| CAS NO. | COMPOUND | DL | CONC | Q |
|----------|-----------------------------|-----|------|----|
| 75-01-4 | Vinyl Chloride | 480 | | U |
| 75-00-3 | Chloroethane | 480 | | U |
| 75-09-2 | Methylene Chloride | 480 | 460 | JB |
| 75-35-4 | 1,1-Dichloroethene | 480 | 2600 | |
| 75-34-3 | 1,1-Dichloroethane | 480 | | U |
| 67-66-3 | Chloroform | 480 | | U |
| 107-06-2 | 1,2-Dichloroethane | 480 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 480 | 64 | J |
| 56-23-5 | Carbon Tetrachloride | 480 | | U |
| 75-27-4 | Bromodichloromethane | 480 | | U |
| 79-01-6 | Trichloroethene | 480 | 3400 | |
| 124-48-1 | Dibromochloromethane | 480 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 480 | | U |
| 71-43-2 | Benzene | 480 | 3000 | |
| 127-18-4 | Tetrachloroethene | 480 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 480 | | U |
| 108-88-3 | Toluene | 480 | 3600 | |
| 108-90-7 | Chlorobenzene | 480 | 2400 | |
| 100-41-4 | Ethylbenzene | 480 | | U |
| 106-93-4 | 1,2-Dibromoethane | 480 | | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 480 | | U |
| 75-69-4 | Trichlorofluoromethane | 480 | | U |
| 594-20-7 | 2,2-Dichloropropane | 480 | | U |
| 98-82-8 | Isopropyl Benzene | 480 | | U |
| 108-86-1 | Bromobenzene | 480 | | U |
| 95-49-8 | 2-Chlorotoluene | 480 | | U |
| 106-43-4 | 4-Chlorotoluene | 480 | | U |
| 108-67-8 | 1,3,5-Trimethyl Benzene | 480 | | U |
| 98-06-6 | tert-Butyl Benzene | 480 | | U |
| 95-63-6 | 1,2,4-Trimethyl Benzene | 480 | | U |
| 135-98-8 | sec-Butyl Benzene | 480 | | U |
| 541-73-1 | 1,3-Dichlorobenzene | 480 | | U |
| 106-46-7 | 1,4-Dichlorobenzene | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEXMS

| | |
|----------------------------------------------------|-----------------------------------|
| Project: RFA835 | Date Sampled: 12/19/97 |
| Lab Code: COMPU Case No.: 33352 SAS No.: | SDG No.: 83564 |
| Matrix: (soil/water) SOIL | Lab Sample ID: 879014 |
| Sample wt/vol: 20.0 (g/mL) G | Lab File ID: CN079014A52.D |
| Level: (low/med) MED | Date Received: 12/23/97 |
| % Moisture: not dec. 14 | Date Analyzed: 12/30/97 |
| GC Column:DB624 ID: 0.53 (mm) | Dilution Factor: 1.0 |
| Soil Extract Volume: 0 (uL) | Soil Aliquot Volume: 0.00 (uL) |

| CAS NO. | COMPOUND | DL | CONCENTRATION UNITS: UG/KG CONC | Q |
|----------------|----------------------------|-----|------------------------------------|---|
| 99-87-6----- | p-Isopropyl Toluene | 480 | | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 480 | | U |
| 104-51-8----- | n-Butyl Benzene | 480 | | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 480 | | U |
| 87-68-3----- | Hexachlorobutadiene | 480 | | U |
| 91-20-3----- | Naphthalene | 480 | | U |
| 78-87-5----- | 1,2-Dichloropropane | 480 | | U |
| 142-28-9----- | 1,3-Dichloropropane | 480 | | U |
| 103-65-1----- | n-Propyl Benzene | 480 | | U |
| 74-87-3----- | Chloromethane | 480 | | U |
| 87-61-6----- | 1,2,3-Trichlorobenzene | 480 | | U |
| 75-71-8----- | Dichlorodifluoromethane | 480 | | U |
| 1634-04-4----- | Methyl-tert-butyl ether | 480 | | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 480 | | U |
| 1330-20-7----- | Xylene (total) | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEXMSD

Project: RFA835 Date Sampled: 12/19/97
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879015
 Sample wt/vol: 20.0 (g/mL) G Lab File ID: CN079015A52.D
 Level: (low/med) MED Date Received: 12/23/97
 % Moisture: not dec. 14 Date Analyzed: 12/30/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0.00 (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: UG/KG | | Q |
|----------|-----------------------------|----------------------------|------|----|
| | | DL | CONC | |
| 75-01-4 | Vinyl Chloride | 480 | | U |
| 75-00-3 | Chloroethane | 480 | | U |
| 75-09-2 | Methylene Chloride | 480 | 400 | JB |
| 75-35-4 | 1,1-Dichloroethene | 480 | 2700 | |
| 75-34-3 | 1,1-Dichloroethane | 480 | | U |
| 67-66-3 | Chloroform | 480 | | U |
| 107-06-2 | 1,2-Dichloroethane | 480 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 480 | | U |
| 56-23-5 | Carbon Tetrachloride | 480 | | U |
| 75-27-4 | Bromodichloromethane | 480 | | U |
| 79-01-6 | Trichloroethene | 480 | 3400 | |
| 124-48-1 | Dibromochloromethane | 480 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 480 | | U |
| 71-43-2 | Benzene | 480 | 3000 | |
| 127-18-4 | Tetrachloroethene | 480 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 480 | | U |
| 108-88-3 | Toluene | 480 | 4000 | |
| 108-90-7 | Chlorobenzene | 480 | 2500 | |
| 100-41-4 | Ethylbenzene | 480 | | U |
| 106-93-4 | 1,2-Dibromoethane | 480 | | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 480 | | U |
| 75-69-4 | Trichlorofluoromethane | 480 | | U |
| 594-20-7 | 2,2-Dichloropropane | 480 | | U |
| 98-82-8 | Isopropyl Benzene | 480 | | U |
| 108-86-1 | Bromobenzene | 480 | | U |
| 95-49-8 | 2-Chlorotoluene | 480 | | U |
| 106-43-4 | 4-Chlorotoluene | 480 | | U |
| 108-67-8 | 1,3,5-Trimethyl Benzene | 480 | | U |
| 98-06-6 | tert-Butyl Benzene | 480 | | U |
| 95-63-6 | 1,2,4-Trimethyl Benzene | 480 | | U |
| 135-98-8 | sec-Butyl Benzene | 480 | | U |
| 541-73-1 | 1,3-Dichlorobenzene | 480 | | U |
| 106-46-7 | 1,4-Dichlorobenzene | 480 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEXMSD

Project: RFA835 Date Sampled: 12/19/97
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879015
 Sample wt/vol: 20.0 (g/mL) G Lab File ID: CN079015A52.D
 Level: (low/med) MED Date Received: 12/23/97
 % Moisture: not dec. 14 Date Analyzed: 12/30/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: 0 (uL) Soil Aliquot Volume: 0.00 (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: UG/KG | | Q |
|----------------|----------------------------|----------------------------|------|---|
| | | DL | CONC | |
| 99-87-6----- | p-Isopropyl Toluene | 480 | | U |
| 95-50-1----- | 1,2-Dichlorobenzene | 480 | | U |
| 104-51-8----- | n-Butyl Benzene | 480 | | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | 480 | | U |
| 87-68-3----- | Hexachlorobutadiene | 480 | | U |
| 91-20-3----- | Naphthalene | 480 | | U |
| 78-87-5----- | 1,2-Dichloropropane | 480 | | U |
| 142-28-9----- | 1,3-Dichloropropane | 480 | | U |
| 103-65-1----- | n-Propyl Benzene | 480 | | U |
| 74-87-3----- | Chloromethane | 480 | | U |
| 87-61-6----- | 1,2,3-Trichlorobenzene | 480 | | U |
| 75-71-8----- | Dichlorodifluoromethane | 480 | | U |
| 1634-04-4----- | Methyl-tert-butyl ether | 480 | | U |
| 540-59-0----- | 1,2-Dichloroethene (total) | 480 | | U |
| 1330-20-7----- | Xylene (total) | 480 | | U |



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

*Received 1/5/98
Jef R*

05/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

Subject: Report of Data - Account Number# 500957 Order# 33352

ATTN: ROSS CREIGHTON

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,

CompuChem Environmental
a division of Liberty Analytical

Attachment



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

05/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

ACCOUNT #: 500957

| CC# | SAMPLE-ID | RECEIPT DATE |
|---------------------------|-----------|--------------|
| 879000 | STC-LEX | 12/23/97 |
| TOTAL NUMBER OF SAMPLES = | | 1 |

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

SDG NARRATIVE
CASE:33352
SDG:83561
CONTRACT:500957

SAMPLE IDENTIFICATIONS: STC-LEX

The one(1) soil sample listed above was received intact, properly refrigerated, with proper chain of custody(COC) documentation on December 23, 1997. The sample was prepared and analyzed following ZHE extraction for SW846 method 8240.

VOLATILES:

Analysis holding time requirements were met for this sample. Chloroform was present below the reporting limit.

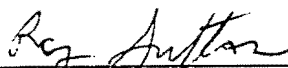
All of the surrogates met recovery criteria and all of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blank met all quality control criteria. The method blank did not contain any reportable target analytes.

The duplicate matrix spikes met all QC recovery and RPD advisory limits without exception.

The associated LCS met all QC acceptance 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 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 30, 1997



Chain-of-Custody

00404 A

ATTN: DIANE ELLMORE

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

Project Name: Chrysler Corp.
Site Location: Kenosha, Wisconsin
Site Code:
RFA Number: YGQP9700835-836
Chrysler PM: DIANE ELLMORE

Consultant: Triad Engineering Inc.
Address: 325 E. Chicago Street
Milw. Wisconsin 53202
Consultant PM: ROSS CREIGHTON
Phone: (414) 291 8840 Fax: (414) 291-8841

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)

Lab Use Only

Volatiles pH < 2
Metals pH < 2
Cyanide pH > 12
Other

Remarks

| Field Sample Identification | Date Collected | Time Collected | Grab (G) or Composite (C) | Matrix Code | Total # of Containers | Protocol | | Volatiles pH < 2 | Metals pH < 2 | Cyanide pH > 12 | Other | Remarks |
|-----------------------------|----------------|----------------|---------------------------|-------------|-----------------------|------------|---------------|------------------|---------------|-----------------|-------|---------|
| | | | | | | Protocol B | (no preserv.) | | | | | |
| STC-LEX | 12/19/97 | 1430 | G | S | 6 | X | | | | | | |
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|-------------------------------------|----------------------------------------|--------------------------|----------------------|-----------------------------|----------------------------------------|-------|----------------------|--|---------------------------------|----|
| Sampler(s) <u>ARK, JMR</u> | Bottles Relinquished under Airbill No. | | | | Samples Relinquished under Airbill No. | | | | Temperature (corrected) _____ C | |
| | Relinquished by: <u>[Signature]</u> | Date: <u>12/22/97</u> | Time: <u>1145</u> | Received by: | Date: | Time: | Custody Seal Intact? | | Yes | No |
| | Relinquished by: | Date: | Time: | Received by: | Date: | Time: | Custody Seal Intact? | | Yes | No |
| Cooler ID # _____ | Relinquished by: | Date: | Time: | Received for Laboratory by: | Date: | Time: | Custody Seal Intact? | | Yes | No |
| 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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEX

Project: RFA835 Date Sampled: 12/19/97
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561
 Matrix: (soil/water) WATER Lab Sample ID: 879000
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN079000B52.D
 Level: (low/med) LOW Date Received: 12/23/97
 % Moisture: not dec. _____ Date Analyzed: 12/29/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: UG/L
DL CONC Q

| CAS NO. | COMPOUND | DL | CONC | Q |
|---------------|----------------------|-----|------|---|
| 75-01-4----- | Vinyl Chloride | 50 | | U |
| 75-35-4----- | 1,1-Dichloroethene | 25 | | U |
| 67-66-3----- | Chloroform | 25 | 5 | J |
| 107-06-2----- | 1,2-Dichloroethane | 25 | | U |
| 78-93-3----- | 2-Butanone | 100 | | U |
| 56-23-5----- | Carbon Tetrachloride | 50 | | U |
| 79-01-6----- | Trichloroethene | 25 | | U |
| 71-43-2----- | Benzene | 50 | | U |
| 127-18-4----- | Tetrachloroethene | 50 | | U |
| 108-90-7----- | Chlorobenzene | 50 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEXMS

Project: RFA835 Date Sampled: 12/19/97,
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561
 Matrix: (soil/water) WATER Lab Sample ID: 879001
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN079001B52.D
 Level: (low/med) LOW Date Received: 12/23/97
 % Moisture: not dec. _____ Date Analyzed: 12/29/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: UG/L
DL CONC Q

| CAS NO. | COMPOUND | DL | CONC | Q |
|---------------|----------------------|-----|------|---|
| 75-01-4----- | Vinyl Chloride | 50 | 400 | |
| 75-35-4----- | 1,1-Dichloroethene | 25 | 680 | |
| 67-66-3----- | Chloroform | 25 | 580 | |
| 107-06-2----- | 1,2-Dichloroethane | 25 | 600 | |
| 78-93-3----- | 2-Butanone | 100 | 470 | |
| 56-23-5----- | Carbon Tetrachloride | 50 | 560 | |
| 79-01-6----- | Trichloroethene | 25 | 540 | |
| 71-43-2----- | Benzene | 50 | 600 | |
| 127-18-4----- | Tetrachloroethene | 50 | 490 | |
| 108-90-7----- | Chlorobenzene | 50 | 510 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEXMSD

Project: RFA835 Date Sampled: 12/19/97.
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561
 Matrix: (soil/water) WATER Lab Sample ID: 879002
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN079002B52.D
 Level: (low/med) LOW Date Received: 12/23/97
 % Moisture: not dec. _____ Date Analyzed: 12/29/97
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 5.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: UG/L
DL CONC Q

| CAS NO. | COMPOUND | DL | CONC | Q |
|---------------|----------------------|-----|------|---|
| 75-01-4----- | Vinyl Chloride | 50 | 410 | |
| 75-35-4----- | 1,1-Dichloroethene | 25 | 690 | |
| 67-66-3----- | Chloroform | 25 | 580 | |
| 107-06-2----- | 1,2-Dichloroethane | 25 | 600 | |
| 78-93-3----- | 2-Butanone | 100 | 450 | |
| 56-23-5----- | Carbon Tetrachloride | 50 | 570 | |
| 79-01-6----- | Trichloroethene | 25 | 560 | |
| 71-43-2----- | Benzene | 50 | 620 | |
| 127-18-4----- | Tetrachloroethene | 50 | 510 | |
| 108-90-7----- | Chlorobenzene | 50 | 530 | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

| |
|--------|
| VBLKUN |
|--------|

Project: RFA174

Date Sampled: _____

Lab Code: COMPU

Case No.: 33352

SAS No.:

SDG No.: 83561

Matrix: (soil/water) WATER

Lab Sample ID: VBLKUN

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CB971229A52.D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 12/29/97

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

| | | | | |
|---------------|----------------------|----|--|---|
| 75-01-4----- | Vinyl Chloride | 10 | | U |
| 75-35-4----- | 1,1-Dichloroethene | 5 | | U |
| 67-66-3----- | Chloroform | 5 | | U |
| 107-06-2----- | 1,2-Dichloroethane | 5 | | U |
| 78-93-3----- | 2-Butanone | 20 | | U |
| 56-23-5----- | Carbon Tetrachloride | 10 | | U |
| 79-01-6----- | Trichloroethene | 5 | | U |
| 71-43-2----- | Benzene | 10 | | U |
| 127-18-4----- | Tetrachloroethene | 10 | | U |
| 108-90-7----- | Chlorobenzene | 10 | | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

ZHEBLKF7

Project: RFA174

Date Sampled: _____

Lab Code: COMPU

Case No.: 33352

SAS No.:

SDG No.: 83561

Matrix: (soil/water) WATER

Lab Sample ID: 879104

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: CN079104A52.D

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 12/29/97

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 5.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS: UG/L
DL CONC

Q

| | | | |
|----------------------------------|-----|--|---|
| 75-01-4-----Vinyl Chloride | 50 | | U |
| 75-35-4-----1,1-Dichloroethene | 25 | | U |
| 67-66-3-----Chloroform | 25 | | U |
| 107-06-2-----1,2-Dichloroethane | 25 | | U |
| 78-93-3-----2-Butanone | 100 | | U |
| 56-23-5-----Carbon Tetrachloride | 50 | | U |
| 79-01-6-----Trichloroethene | 25 | | U |
| 71-43-2-----Benzene | 50 | | U |
| 127-18-4-----Tetrachloroethene | 50 | | U |
| 108-90-7-----Chlorobenzene | 50 | | U |

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM ENV. CORP.

Contract: 500957

Lab Code: COMPU

Case No.: 33352

SAS No.:

SDG No.: 83561

Matrix Spike - Sample No.: STC-LEX

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC. LIMITS REC. |
|----------------------|--------------------|-----------------------------|-------------------------|------------|-----------------|
| Vinyl Chloride | 500.0 | 0.000 | 402.6 | 80 | 1-251 |
| 1,1-Dichloroethene | 500.0 | 0.000 | 680.9 | 136 | 1-234 |
| Chloroform | 500.0 | 5.08 | 582.1 | 115 | 51-138 |
| 1,2-Dichloroethane | 500.0 | 0.000 | 600.6 | 120 | 49-155 |
| 2-Butanone | 500.0 | 0.000 | 466.7 | 93 | 1-200 |
| Carbon Tetrachloride | 500.0 | 0.000 | 558.8 | 112 | 70-140 |
| Trichloroethene | 500.0 | 0.000 | 536.2 | 107 | 71-157 |
| Benzene | 500.0 | 0.000 | 600.9 | 120 | 37-151 |
| Tetrachloroethene | 500.0 | 0.000 | 488.6 | 98 | 64-148 |
| Chlorobenzene | 500.0 | 0.000 | 507.4 | 101 | 37-160 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD | REC. |
|----------------------|--------------------|--------------------------|-------------|---------|---------------|--------|
| Vinyl Chloride | 500.0 | 408.0 | 82 | 2 | 20 | 1-251 |
| 1,1-Dichloroethene | 500.0 | 690.5 | 138 | 1 | 20 | 1-234 |
| Chloroform | 500.0 | 579.1 | 115 | 0 | 20 | 51-138 |
| 1,2-Dichloroethane | 500.0 | 598.7 | 120 | 0 | 20 | 49-155 |
| 2-Butanone | 500.0 | 451.2 | 90 | 3 | 20 | 1-200 |
| Carbon Tetrachloride | 500.0 | 567.5 | 114 | 2 | 20 | 70-140 |
| Trichloroethene | 500.0 | 556.9 | 111 | 4 | 20 | 71-157 |
| Benzene | 500.0 | 617.7 | 124 | 3 | 20 | 37-151 |
| Tetrachloroethene | 500.0 | 505.7 | 101 | 3 | 20 | 64-148 |
| Chlorobenzene | 500.0 | 527.8 | 106 | 5 | 20 | 37-160 |

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:

VLCS59

Lab Name: COMPUCHEM ENV. CORP. Contract: 500957
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561
 Lab Sample ID: 879121 LCS Lot No.: 46702
 Lab File ID: CN079121A52.D Date Analyzed: 12/29/97
 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 | 116.5 | 116 | 70-140 |
| Tetrachloroethene | 100.0 | 103.2 | 103 | 64-148 |
| Benzene | 100.0 | 123.0 | 123 | 37-151 |
| 1,2-Dichloroethane | 100.0 | 122.4 | 122 | 49-155 |
| Trichloroethene | 100.0 | 111.0 | 111 | 71-157 |
| 2-Butanone | 100.0 | 95.87 | 96 | 1-200 |
| Chloroform | 100.0 | 117.6 | 118 | 51-138 |
| Chlorobenzene | 100.0 | 108.3 | 108 | 37-160 |
| 1,1-Dichloroethene | 100.0 | 138.2 | 138 | 1-234 |
| Vinyl Chloride | 100.0 | 82.76 | 83 | 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: _____

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLKUN

Lab Name: COMPUCHEM ENV. CORP. Contract: 500957
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561
 Lab File ID: CB971229A52.D Lab Sample ID: VBLKUN
 Date Analyzed: 12/29/97 Time Analyzed: 1205
 GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) N
 Instrument ID: F50052

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

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|------------|---------------|---------------|---------------|
| | ===== | ===== | ===== | ===== |
| 01 | VLCS59 | 879121 | CN079121A52.D | 1306 |
| 02 | | | | |
| 03 | | | | |
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

| |
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| ZHEBLKF7 |
|----------|

Lab Name: COMPUCHEM ENV. CORP. Contract: 500957

Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561

Lab File ID: CN079104A52.D Lab Sample ID: 879104

Date Analyzed: 12/29/97 Time Analyzed: 1351

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

Instrument ID: F50052

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

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|------------|---------------|---------------|---------------|
| 01 | STC-LEX | 879000 | CN079000B52.D | 1756 |
| 02 | STC-LEXMS | 879001 | CN079001B52.D | 1835 |
| 03 | STC-LEXMSD | 879002 | CN079002B52.D | 1911 |
| 04 | | | | |
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COMMENTS:

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

330 497-9396 Telephone
330 497-0772 Fax

*Received 1/21/98
2 of 2*

ANALYTICAL REPORT

PROJECT NO. RFA835/836

Lot #: A7L240112

Cathy Dover

Compuchem Environmental

QUANTERRA INCORPORATED



Jeffrey C. Smith
Project Manager

January 19, 1998

CASE NARRATIVE

The following report contains the analytical results for one solid sample submitted to Quanterra-North Canton by Compuchem Environmental from project number RFA835/836. The sample was received December 24, 1997, according to documented sample acceptance procedures.

Quanterra-North Canton utilizes only USEPA approved methods and instrumentation in all analytical work. The sample presented in this report was analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Cathy Dover on January 14, 1998.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The sample was received at the laboratory at a temperature of 5.3° C.

The sample submitted for WI Diesel Range Organics and WI Gasoline Range Organics analyses, was split into two containers.

GC VOLATILES

The matrix spike/matrix spike duplicate associated with sample STC-LEX CCN: 879028 failed recovery and RPD criteria. The laboratory control sample associated with this batch was in control. This is believed to be a matrix effect; therefore, no further corrective action was taken.

ANALYTICAL METHODS SUMMARY

A7L240112

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> |
|---------------------------------|--------------------------|
| Diesel Range Organics | WI-DRO DRO |
| Gasoline Range Organics | WI-GRO GRO |
| Total Residue as Percent Solids | MCAWW 160.3 MOD |

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- WI-DRO "Modified DRO: Method for Determining Diesel Range Organics"; Wisconsin DNR, PUBL-SW-141, September, 1995.
- WI-GRO "Modified GRO: Method for Determining Gasoline Range Organics"; Wisconsin DNR, PUBL-SW-140, September, 1995.

SAMPLE SUMMARY

A7L240112

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-------------|----------------|-------------------------|-------------|-------------|
| CEP5T | 001 | STC-LEX CCN: 879028 | 12/19/97 | 00:00 |

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: STC-LEX CCN: 879028

GC Volatiles

Lot-Sample #...: A7L240112-001 Work Order #...: CEP5T103 Matrix.....: SOLID
Date Sampled...: 12/19/97 00:00 Date Received...: 12/24/97
Prep Date.....: 12/31/97 Analysis Date...: 12/31/97
Prep Batch #...: 8002129
Dilution Factor: 1
% Moisture.....: 15

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-------------------------|---------------|----------------------------|--------------|---------------|
| Gasoline Range Organics | ND | 12 | mg/kg | WI-GRO GRO |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: STC-LEX CCN: 879028

GC Semivolatiles

Lot-Sample #....: A7L240112-001 Work Order #....: CEP5T102 Matrix.....: SOLID
Date Sampled....: 12/19/97 00:00 Date Received...: 12/24/97
Prep Date.....: 01/04/98 Analysis Date...: 01/09/98
Prep Batch #....: 8002114
Dilution Factor: 10
% Moisture.....: 15

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-----------------------|---------------|----------------------------------|--------------|---------------|
| Diesel Range Organics | 810 | 59 | mg/kg | WI-DRO DRO |

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

QUALITY CONTROL SECTION

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A7L240112 Work Order #...: CEQPT102 Matrix.....: SOLID
LCS Lot-Sample#: A8A020000-129
Prep Date.....: 12/31/97 Analysis Date...: 01/02/98
Prep Batch #...: 8002129
Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT</u> | <u>RECOVERY</u> | <u>METHOD</u> |
|-------------------------|-----------------|-----------------|---------------|
| | <u>RECOVERY</u> | <u>LIMITS</u> | |
| Gasoline Range Organics | 91 | (50 - 100) | WI-GRO GRO |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7L240112 Work Order #...: CEQNM102-LCS Matrix.....: SOLID
LCS Lot-Sample#: A8A020000-114 CEQNM103-LCSD
Prep Date.....: 01/04/98 Analysis Date...: 01/13/98
Prep Batch #...: 8002114
Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|-----------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Diesel Range Organics | 66 | (60 - 130) | | | WI-DRO DRO |
| | 62 | (60 - 130) | 5.3 | (0-25) | WI-DRO DRO |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A7L240112
MB Lot-Sample #: A8A020000-129

Work Order #...: CEQPT101

Matrix.....: SOLID

Analysis Date...: 01/02/98
Dilution Factor: 1

Prep Date.....: 12/31/97
Prep Batch #...: 8002129

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-------------------------|---------------|----------------------------|--------------|---------------|
| Gasoline Range Organics | ND | 10 | mg/kg | WI-GRO GRO |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A7L240112
MB Lot-Sample #: A8A020000-114

Work Order #...: CEQNM101

Matrix.....: SOLID

Prep Date.....: 01/04/98

Analysis Date...: 01/09/98

Prep Batch #...: 8002114

Dilution Factor: 1

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-----------------------|---------------|----------------------------|--------------|---------------|
| Diesel Range Organics | ND | 5.0 | mg/kg | WI-DRO DRO |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A7L240112 Work Order #...: CEP5T104-MS Matrix.....: SOLID
MS Lot-Sample #: A7L240112-001 CEP5T105-MSD
Date Sampled...: 12/19/97 00:00 Date Received...: 12/24/97
Prep Date.....: 12/31/97 Analysis Date...: 01/02/98
Prep Batch #...: 8002129
Dilution Factor: 1 % Moisture.....: 15

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> |
|-------------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Gasoline Range Organics | 5.2 a | (50 - 100) | | | WI-GRO GRO |
| | 141 a,p | (50 - 100) | 186 | (0-25) | WI-GRO GRO |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

- a Spiked analyte recovery is outside stated control limits.
- p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.



CHAIN-OF-CUSTODY RECORD

No. 01106

4600 Silicon Drive
Durham, NC 27703
1-800-833-5097

| | | |
|--------------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------|
| Ship to: <i>Quantero North Canton, OH</i> | Project Name: <i>RFA 835/836</i> | Field Point-of-Contact: <i>Cathy Dover</i> |
| Carrier: Airbill No.: | Sampler Name: | Telephone No.: <i>919-377-4010</i> |
| | Sampler Signature: | Sampling for project complete? <input checked="" type="radio"/> or N (See Note 1) |
| | | Project-specific (PS) or Batch (B) QC: <i>B</i> |

| | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| BOX #1 1. Surface Water 6. Trip Blank 2. Ground Water 7. Oil 3. Leachate 8. Waste 4. Rinsate 9. Other _____ 5. Soil / Sediment / Sludge | Box #2: A HCl E Ice Only B HNO ₃ O Other _____ C NaHSO ₄ N Not Preserved D Na ₂ S ₂ O ₃ | Box #3: F. Filtered U. Unfiltered | Box #4: C. CLP 3/90 R. Radiological S. SW-846 T. TCLP W. CWA 600-series O. Other <i>Wisc. D20</i> L. Low Conc. CLP <i>Wisc. B20</i> | Box #5: H. High M. Medium L. Low |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|

| Sample ID (Organics 9 characters max. Inorganics 6 characters. See Note 2) | Date: Year: 19 <i>92</i> | Time | Box #1 Matrix | Box #2 Preservative | Box #3 Filtered/Unfiltered | Box #4 Method | Box #5 Expect. Conc. | No. of Bottles | Use for Lab QC (MS or DUP) | Organic Analysis Inorganics Other | | | | | | | | | | | | | Remarks / Comments | | |
|-------------------------------------------------------------------------------------|--------------------------|----------|------------------|------------------------|-------------------------------|------------------|-------------------------|----------------|-------------------------------|-----------------------------------|----------|-------------|---------|--------|------------------|------------------|--------|---------|----------|---------------|---------|---------|--------------------|--------------------|-------|
| | | | | | | | | | | VOA-GC/MS | SV-GC/MS | Pest/PCB-GC | Herb-GC | VOA-GC | <i>Wisc. G20</i> | <i>Wisc. D20</i> | Metals | Mercury | Cyanides | Radiologicals | TOC/TOX | O&G/TPH | | Phenols | Other |
| <i>STC-LEX</i> | <i>12/19</i> | <i>:</i> | <i>S</i> | <i>E</i> | <i>U</i> | <i>U</i> | | <i>1</i> | | | | | | | | | | | | | | | | <i>CON: 879028</i> | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
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Client's Special Instructions:

Lab: Received in Good Condition? or N Describe Problems, if Any:

| | | | | | | |
|-------------------------------------------------|-----------------------|----------------------------|-------|----------------------------|-------|-------------------------------------------------------------------------------------|
| #1 Relinquished By: (Sig.) <i>Diane Ellison</i> | Date: <i>12/23/92</i> | #2 Relinquished By: (Sig.) | Date: | #3 Relinquished By: (Sig.) | Date: | Sample storage time requested? _____ (In days, see Note 3) |
| Company Name: <i>Compuchem</i> | Time: <i>4:55pm</i> | Company Name: | Time: | Company Name: | Time: | |
| #1 Received By: (Sig.) <i>John G. Howell</i> | Date: <i>12/24/92</i> | #2 Received By: (Sig.) | Date: | #3 Received By: (Sig.) | Date: | DESTROY or RETURN data after five years of archival? (Circle choice; see Note 4) |
| Company Name: <i>Quantero</i> | Time: <i>10:00</i> | Company Name: | Time: | Company Name: | Time: | |

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. Note (2): If CLP Inorganics diskette required, ID limited to maximum of six characters. Note (3): Samples stored 60 days after date report mailed at no extra charge. Note (4): All lab copies of data destroyed after five years unless client requests and pays for return of copies; annual storage fee billed in January of year six.

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

December 30, 1997

Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

*Received 1/2/98
1 of 2*

Dear Mr. Creighton:

We at CompuChem are pleased to provide our report for the analysis you requested.
Data for the following samples are enclosed:

| Client ID Number | CompuChem ID Number | Analysis Code | Case Number | Description of Work Requested |
|------------------|---------------------|---------------|--------------|-------------------------------|
| STC-LEX | 879023 | 1254 | 33352. 83563 | Ignitability |
| | | 1316 | | Reactive Cyanide |
| | | 1316 | | Reactive Sulfide |

Thank you for selecting CompuChem Environmental for your sample analysis.
If you have any questions concerning this report or the analytical methods employed,
please contact your Sales Representative at 919-379-4100.

Sincerely,



Project Manager

ANALYTICAL REPORT OF DATA - CASE # 33352. 83563

SUBMITTED TO:
Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

LABORATORY CHRONICLE - IGNITABILITY ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE ANALYSIS COMPLETED |
|----------|-------------------|------------------|----------------------|-------------------------|
| 1. | STC-LEX | 879023 | 12/23/97 | 12/26/97 |

ANALYTICAL REPORT OF DATA - CASE # 33352. 83563

SUBMITTED TO:
Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

LABORATORY CHRONICLE - REACTIVE CYANIDE ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE EXTRACTION COMPLETED | DATE ANALYSIS COMPLETED |
|-------------|----------------------|---------------------|----------------------------|---------------------------------|-------------------------------|
| 1. | STC-LEX | 879023 | 12/23/97 | 12/26/97 | 12/26/97 |

ANALYTICAL REPORT OF DATA - CASE # 33352. 83563

SUBMITTED TO:
Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

LABORATORY CHRONICLE - REACTIVE SULFIDE ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE EXTRACTION COMPLETED | DATE ANALYSIS COMPLETED |
|-------------|----------------------|---------------------|----------------------------|---------------------------------|-------------------------------|
| 1. | STC-LEX | 879023 | 12/23/97 | 12/26/97 | 12/26/97 |

IGNITABILITY ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | CONCENTRATION (F) | REPORTING LIMIT (F) |
|----------|-------------------|------------------|-------------------|---------------------|
| 1. | STC-LEX | 879023 | NWR | 140 |

BRL = BELOW REPORTING LIMIT

NWR = NOT WITHIN RANGE

Reviewed by/ID#: Colleen Wilson 2244

Date: 12/30/97

REACTIVE CYANIDE ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | CONCENTRATION (mg/kg) | REPORTING LIMIT (mg/kg) |
|----------|-------------------|------------------|-----------------------|-------------------------|
| 1. | STC-LEX | 879023 | BRL | 125 |

BRL = BELOW REPORTING LIMIT

NWR = NOT WITHIN RANGE

Reviewed by/ID#: Colleen Wilson, 2244

Date: 12/30/97

REACTIVE SULFIDE ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | CONCENTRATION (mg/kg) | REPORTING LIMIT (mg/kg) |
|----------|-------------------|------------------|-----------------------|-------------------------|
| 1. | STC-LEX | 879023 | BRL | 125 |

BRL = BELOW REPORTING LIMIT

NWR = NOT WITHIN RANGE

Reviewed by/ID#: Colleen Wilson, 2244

Date: 12/30/97

IGNITABILITY ANALYSIS
 QUALITY CONTROL REPORT

CASE: 33352. 83563
 MATRIX: SOIL

Analyst: 2322
 Date Analyzed: 12/26/97

| BLANK SPIKE (BS) COMPUCHEM #: 879026 | |
|--------------------------------------|--------------------|
| p-XYLENE VALUE (F) | BS CONC. (F) |
| 81 +/- 2 | 82.76 |

| ORIG. SAMPLE COMPUCHEM #: 879023 DUPLICATE (DUP.) COMPUCHEM #: 879027 | | | |
|--------------------------------------------------------------------------|------------------------|----------------------|-----|
| | SAMPLE CONC. (F) | DUP. CONC. (F) | RPD |
| | NWR | NWR | N/A |

The reporting limit for Ignitability is 140 F

BRL = BELOW REPORTING LIMIT
 RPD = RELATIVE PERCENT DIFFERENCE
 NWR = NOT WITHIN RANGE

REACTIVE CYANIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33352. 83563
 MATRIX: SOIL

Analyst: 2322
 Date Analyzed: 12/26/97

| BLANK SPIKE (BS) COMPUCHEM #: 879026 | | |
|--------------------------------------|------------------------|---------------------|
| SPIKE ADDED (mg/kg) | BS CONC. (mg/kg) | BS % RECOVERY |
| 40.00 | 5.995 | 15.00 |

| ORIG. SAMPLE COMPUCHEM #: 879023 MATRIX SPIKE (MS) COMPUCHEM #: 879023 DUPLICATE (DUP.) COMPUCHEM #: 879027 | | | | | |
|-------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------------|---------------------|-----|
| SPIKE ADDED (mg/kg) | SAMPLE CONC. (mg/kg) | DUP. CONC. (mg/kg) | MS CONC. (mg/kg) | MS % RECOVERY | RPD |
| 40.00 | BRL | BRL | 6.994 | 17.50 | N/A |

| COMPUCHEM # | QC TYPE | AMOUNT DETECTED (mg/kg) |
|-------------|--------------|-------------------------------|
| PBW | METHOD BLANK | BRL |

The reporting limit for Reactive Cyanide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
 RPD = RELATIVE PERCENT DIFFERENCE
 NWR = NOT WITHIN RANGE

REACTIVE SULFIDE ANALYSIS

QUALITY CONTROL REPORT

CASE: 33352. 83563
 MATRIX: SOIL

Analyst:2322
 Date Analyzed: 12/26/97

| BLANK SPIKE (BS) COMPUCEM #: 879026 | | |
|-------------------------------------|------------------------|---------------------|
| SPIKE ADDED (mg/kg) | BS CONC. (mg/kg) | BS % RECOVERY |
| 250.0 | 240.5 | 96.00 |

| ORIG. SAMPLE COMPUCEM #: 879023 MATRIX SPIKE (MS) COMPUCEM #: 879023 DUPLICATE (DUP.) COMPUCEM #: 879027 | | | | | |
|----------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|------------------------|---------------------|-----|
| SPIKE ADDED (mg/kg) | SAMPLE CONC. (mg/kg) | DUP. CONC. (mg/kg) | MS CONC. (mg/kg) | MS % RECOVERY | RPD |
| 250.0 | BRL | BRL | 220.4 | 88.17 | N/A |

| COMPUCEM # | QC TYPE | AMOUNT DETECTED (mg/kg) |
|------------|--------------|-------------------------------|
| PBW | METHOD BLANK | BRL |

The reporting limit for Reactive Sulfide is 125 mg/kg

BRL = BELOW REPORTING LIMIT
 RPD = RELATIVE PERCENT DIFFERENCE
 NWR = NOT WITHIN RANGE

IGNITABILITY RUNLOG

OPERATOR: BRUCE STEWART

DATE: 12/26/97

AMBIENT BAROMETRIC PRESSURE: 754 mm Hg

AMBIENT TEMP = 70° F

| | CompuChem Number | Customer ID | CASE | OBSERVED FLASH POINT (C) | OBSERVED FLASH POINT (F) | CORRECTED FLASH POINT (F) |
|-----|------------------|-------------|-------------|--------------------------|--------------------------|------------------------------|
| ICV | Chlorobenzene | N/A | 33352.83563 | 29°C | 84.2°F | 84.56°F 83.8°F |
| LCS | p-Xylene ← | 879026 | 33352.83563 | 28°C | 82.4°F | 82.76°F |
| DUR | 879027 | STC-LEX | ↓ | NWR | NWR | NWR |
| 1 | 879023 | ↓ | ↓ | NWR | NWR | NWR |
| 2 | | | | | | |
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BS
12/26/97

Corrected flashpoint = $F + 0.06(760 - P)$

F=observed flashpoint, P=ambient barometric pressure, mm Hg

RANGE → 140 F NWR = NOT WITHIN RANGE

p-Xylene certified flashpoint = $81 \pm 2^\circ$ Chlorobenzene certified flashpoint = $82 \pm 4^\circ$

REVIEWED BY: Kimberly Davis

DATE: 12-26-97

REACTIVE CYANIDE PREPARATION AND RUNLOG

COMPUCHEM ENV. LOGBOOK 1 BBBBBB 3

OPERATOR: BRUCE STEWART

PAGE 1 OF 1

DATE: 12/24/97

METHOD CH. 71 9010A

CASE NAME: 33352.83563

| # | CompuChem Number | Customer ID | Titration Volume (ml) | Initial weight (g) | Final Volume (ml) | # | CompuChem Number | Customer ID | Titration Volume (ml) | Initial weight (g) | Final Volume (ml) |
|---|------------------|-------------|-----------------------|--------------------|-------------------|---|------------------|-------------|-----------------------|--------------------|-------------------|
| 1 | 879023 org | STC-LEX | 0.15 ml | 10.00 g | 250 ml | | | | | | |
| 2 | 879027 DR | STC-LEX | 0.10 ml | 10.02 g | | | | | | | |
| 3 | 879038 BS | N/A | 0.35 ml | 10 | | | | | | | |
| 4 | SS | STC-LEX | 0.40 ml | 10.03 g | | | | | | | |
| 5 | BK | N/A | 0.05 ml | 10 | | | | | | | |

12/24/97
BS

(1) ICV/BS Solutions: 40 mg/kg

Reagent Manufacturer & Lot #'s AgNO₃ TMR-209-16, CN⁻ STOCK SOLN. TMR-161-17

Reviewed by: S. Bondora

Date: 12/24/97

12

TOTAL RELEASABLE CYANIDE IN WASTE

Date: 12/26/97
Analyst: Bruce Stewart

SDG: 33352.83563

| COMPUCHEM NUMBER | SAMPLE ID | SILVER NITRATE 0.0192 NORMALITY VOL. (ml.) | WEIGHT OF SAMPLE (g) | FINAL SAMPLE VOLUME (ml) | DIL. FACTOR | CALC. CONC. mg/L | WEIGHT OF WASTE (kg) | TOTAL RELEASABLE HCN mg/kg | % REC |
|---------------------|--------------|--------------------------------------------------------|-------------------------------|-----------------------------------|----------------|------------------------|-------------------------------|-------------------------------------|----------|
| BLK | PBW | 0.05 | 10.00 | 250 | 1 | 0.200 | 0.01 | 0.000 | |
| 879026 | BS | 0.35 | 10.00 | 250 | 1 | 1.199 | 0.01 | 5.995 | 15.0 |
| 879023 | OR STC-LEX | 0.15 | 10.00 | 250 | 1 | 0.400 | 0.01 | 1.998 | |
| 879027 | DUP STC-LEX | 0.10 | 10.02 | 250 | 1 | 0.200 | 0.01 | 0.999 | |
| 879023MS | SS STC-LEX | 0.40 | 10.03 | 250 | 1 | 1.399 | 0.01 | 6.994 | 17.5 |

BS and SS True Value= 40.0 mg/kg

Reviewed by: Colleen Wilson

Date: 12/30/97

Reactive Sulfide Preparation and Runlog Log

1 WWWW

Operator: Blake STEWART

Page 1 of 1

Date: 12/24/97

Case Name: 33352.83563

Method: Ch. 7/ 9030A

| # | CompuChem Number | Customer ID | Titration Volume (ml) | Initial Weight (g) | Final Volume (ml) | Comments |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|-----------------------|--------------------|-------------------|----------|
| 1 | 879023orig | STC-LEX | 8.2 ml | 10.01 | 200 | 10ml |
| 2 | 879027 DVP | STC-LEX | 7.8 ml | 10.03 | ↓ | 10ml |
| 3 | 879026 BS | N/A | 4 ml | 10.0 | | 10ml |
| 4 | SS | STC-LEX | 4.5 ml | 10.0 | | 10ml |
| 5 | Blk | N/A | 8.0 ml | 10.0 | | 10ml |
| | | | | | | |
| <div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-45deg); position: relative;"> 12/24/97 BS </div> | | | | | | |

Reagent Manufacturer & Lot#'s Na₂S Fma-219-17, Iodine Fma-209-17, Na⁺ thiosulfate

(1) ICV/BS Solutions:

250 mg/kg

Fma-210-6

Reviewed by: S. J. Lem

Date: 12/24/97

1A

Total Releasable Sulfide in Waste

| CCN | Sample ID | Sample Vol. (g.) | Iodine Vol. (ml.) | Sodium Thiosulfate Vol. (ml.) | Scrubber Sulfide Conc. (mg/L) | Scrubber Solution Vol. (ml.) | Weight of Waste (kg) | Total Releasable H ₂ S (mg/kg) | % Recovery |
|----------|-----------|------------------|-------------------|-------------------------------|-------------------------------|------------------------------|----------------------|-------------------------------------------|------------|
| BLK | BLK | 10.00 | 10 | 8 | 16.03 | 50 | 0.01 | 80.15 | |
| 879030 | LCS | 10.00 | 10 | 4 | 48.09 | 50 | 0.01 | 240.45 | 96.18 |
| 879023 | STC-LEX | 10.00 | 10 | 8.2 | 14.43 | 50 | 0.01 | 72.14 | |
| 879026 D | STC-LEX | 10.02 | 10 | 7.8 | 17.63 | 50 | 0.01 | 88.17 | |
| 879023MS | STC-LEX | 10.03 | 10 | 4.5 | 44.08 | 50 | 0.01 | 220.41 | 88.17 |
| | | | | | | | | | |
| | | | | | | | | | |

Prep Date: 12/24/97

Analysis Date 12/24/97

Prepared by: Bruce Stewart

Reviewed by: *Colleen Wilson*

SDG: 33352. 83563

| Client Chrysler | | CompuChem Environmental Corporation | | | | PPS: Y or N | | Page <u>1</u> of <u>1</u> | | | | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------|----------------------------|-----------------------|-----------------------------------------------------|--------------------------|---------------------------|-----------------|-----------|----------|-----------|-----------|-----------|
| Sample Saver # <u>1</u> | | Commercial Receiving Log | | | | PPS 1: | | | | | | | | |
| Order # <u>33352</u> | Received on: <u>12/23/97</u> | Quick TAT: | | Verbal/Hardcopy | | Lab Instructions: <u>TCLP / SV / PPH</u> | | | | | | | | |
| Project # <u>RA835/82</u> | Delivered by: <u>Fed Ex</u> | INT. TAT: | | Hardcopy TAT <u>10 day</u> | | React <u>SO4 & CN</u> <u>Read PPS carefully</u> | | | | | | | | |
| Quote # <u>17-6776</u> | Freight #: | Subcontract Lab: <u>Y or N</u> | | | | TDS = Total Solids <u>pH & spec</u> | | | | | | | | |
| Account # <u>500957</u> | C of C: <u>Y or N</u> | # of C of Cs: <u>1</u> | Subcontract #: <u>DRO/DRO</u> | | | | <u>RFA 835 & 836</u> | | | | | | | |
| # | SDG | LI | Remarks | Req | Sample ID | CUN | Container/Volume | A. Code | SD | MX | TEM | SUL | CHL | PH |
| 1 | 83561 <u>83562</u> | | <u>TCLP VOC, SV</u> | 1 | <u>STC-LEX</u> | <u>879000</u> | <u>1-402 1-802</u> | | <u>12/19/97</u> | <u>SV</u> | <u>4</u> | <u>JA</u> | <u>JA</u> | <u>NA</u> |
| 2 | <u>83562</u> | | <u>check pH, total solids</u> | 2 | | <u>879016</u> | <u>1-402</u> | | | | | | | |
| 3 | <u>83563</u> | | <u>ignit, acid</u> | 3 | | <u>879023</u> | <u>1-802</u> | | | | | | | |
| 4 | <u>83564</u> | | <u>PeBS, VOC</u> | 4 | | <u>879011</u> | <u>1-802</u> | | | | | | | |
| 5 | <u>83562</u> | | <u>GRO/DRO</u> | 5 | | <u>879025</u> | <u>1-402</u> | | | | | | | |
| 6 | <u>83564</u> | | <u>VOC</u> | 6 | <u>methanol blank</u> | <u>879029</u> | <u>1-402</u> | | | | | | | |
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| Logged In By: <u>Jane White</u> | | Received By: <u>J. White</u> | | | | Reviewed By: | | | |
|---------------------------------|-----------|------------------------------|-------|--------|---|--------------|-----------------------|--|---------------|
| Analysis Code | Del. Code | Line Item | Price | # Samp | % | Total | Order Total: \$ | | Discrepancies |
| <u>487, 486, 114, 1142</u> | | <u>7, 4, 5, 8, 15</u> | | | | | | | |
| <u>1174, 3030, 1254</u> | | <u>17</u> | | | | | | | |
| <u>1041, 1216, 1310, 1195</u> | | <u>12, 21, 22, 12, 13</u> | | | | | | | |
| <u>1045, 1316, 1254</u> | | <u>1, 2, 13</u> | | | | | Sales Rep: <u>En.</u> | | |
| <u>1357, 749, 286</u> | | <u>10, 19, 24</u> | | | | | Proj Mgr: <u>En.</u> | | |
| <u>899</u> | | <u>25</u> | | | | | Cust Svc: <u>En.</u> | | |



Chain-of-Custody

00404 A

ATTN: DIANE ELLMORE

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

Project Name: Chrysler Corp.
Site Location: Kenosha, Wisconsin
Site Code:
RFA Number: YGQP9700835-836
Chrysler PM: DIANE ELLMORE

Consultant: Triad Engineering Inc.
Address: 325 E. Chicago Street
Milw. Wisconsin 53202
Consultant PM: Ross Creighton
Phone: (414) 291-8840 Fax: (414) 291-8841

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 | Compound List-Parameter/Method/Bottle Type/Preservative | Matrix Codes | Lab Use Only | | | | Remarks |
|-----------------------------|----------------|----------------|---------------------------|-------------|-----------------------|---------------------------------------------------------|--------------|------------------|---------------|-----------------|-------|---------|
| | | | | | | | | Volatiles pH < 2 | Metals pH < 2 | Cyanide pH > 12 | Other | |
| STC-LEX | 12/19/97 | 1430 | G | S | 6 | PROTOCOL B (no preserv.) | | | | | | |
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|-------------------------------------|----------------------------------------|----------|----------------------------------------|-----------------------------|-------|-------|---------------------------------|
| Sampler(s) ARK, JMR | Bottles Relinquished under Airbill No. | | Samples Relinquished under Airbill No. | | | | Temperature (corrected) _____ C |
| | Relinquished by: | Date: | Time: | Received by: | Date: | Time: | Custody Seal Intact? Yes No |
| | <i>J. P. [Signature]</i> | 12/22/97 | 1145 | | | | Yes No |
| | Relinquished by: | Date: | Time: | Received by: | Date: | Time: | Custody Seal Intact? Yes No |
| Cooler ID # _____ | Relinquished by: | Date: | Time: | Received for Laboratory by: | Date: | Time: | Custody Seal Intact? Yes No |
| Is RFA sampling complete? Yes No | | | | | | | 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

Received 1/5/98
2 of 2



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

05/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

Subject: Report of Data - Account Number# 500957 Order# 33352

ATTN: ROSS CREIGHTON

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,

CompuChem Environmental
a division of Liberty Analytical

Attachment



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

05/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

ACCOUNT #: 500957

| CC# | SAMPLE-ID | RECEIPT DATE |
|--------|-----------|--------------|
| 879000 | STC-LEX | 12/23/97 |

TOTAL NUMBER OF SAMPLES = 1

COMPUCHEM ENVIRONMENTAL CORP.
SEMI-VOLATILE WATER 8270 METHOD
EXTRACTION WORKSHEET

C-02
12-29-1

ASSIGNED TO: Dorren/Doroyl/Mat

DATE EXTRACTED: 12/29/97

EMP ID NUMBER _____

TCLP WASTE CHARACTERIZATION

QUEUE #127 48 HR TAT

| SAMPLE NUMBER | PREP CODE | CASE # | CLIENT # | QC SAMPLE | | BOTTLE # | SAMPLE VOLUME(ml) | FINAL EXTRACT VOLUME | ADJUSTED PH | | COMMENTS |
|-------------------|-----------|-----------------|-----------|-----------|----------|----------|-------------------|----------------------|-----------------|----------------|----------------------------------------------|
| | | | | TYPE | ORIG NO. | | | | B/N | ACID | |
| 871100 | -1022 | 33352. 33351 | STC-LEX | | | 12/24/97 | 200 | 1.0 | 12.8 | 1.6 | USE 200 ml OF TCLP LEACHATE AND |
| 871111 | | | TCLPBLKWX | | | | 500 | 1.0 | 12.8 | 1.6 | DILUTE TO 1000 ml WITH EXTRACTED |
| 871115 | | 33353. 17401 | EWI-ABC | | | | 200 | 1.0 | 12.8 | 1.6 | WATER FOR ALL SAMPLES. ADD 1.0 ml |
| 871125 | | | EW-DEF | | | | 200 | 1.0 | 12.8 | 1.6 | VALIDATION TCLP-BN-ACID SPIKE TO SS'S AND |
| 871130 | | | EWI-GHI | | | | 200 | 1.0 | 12.8 | 1.6 | LCS SS'S. ADD 1.0 ml #393 SURROGATE |
| 871131 | | | EWI-JKL | | | | 200 | 1.0 | 12.8 | 1.6 | TO ALL SAMPLES. FINAL VOL. = 1.0 ml. |
| 871132 | | | EWI-MNO | | | | 200 | 1.0 | 12.8 | 1.6 | |
| 871112 | | | TCLPBLKWY | | | 12/24/97 | 500 | 1.0 | 12.8 | 1.9 | USE 500 ml VOLUME FOR LEACHATE BLANK. |
| | | | | | | | | | | | |
| | | | | | | | | | | | ORIGINAL ENTERED FOR SS's: |
| 871114 | | | S LCSWZ | LCS | | 12/24/97 | 1000 | 1.0 | 12.8 | 1.6 | N/A |
| 871113 | | | SBLKWZ | BI | | 12/24/97 | 1000 | 1.0 | 12.8 | 1.6 | INITIALS / DATE |

| | | |
|----------------------------------------|--------------------|---------|
| SURROGAT | NO. AMT. LOT | S-VOL |
| | | 393 |
| | | 1.0 ml |
| | | 4167108 |
| TCLP VALIDATION BN-ACID SPIKE | NO. AMT. LOT | |
| | | 1.0 ml |
| | | 416539 |

MANUAL COUNTER 9261962

FINAL VOLUME VERIFIED Chaker

SUPERVISOR REVIEWED M. Bolton

EXTRACTS RECEIVED BY Temp storage
C. Hacker added

SURROGATE & SPIKE ADDED CORRECTLY DVM 12/29/97
INITIALS DATE

ISSUED *

COMPUCHEM

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

SDG NARRATIVE

CASE #33352
SDG #83561
PROTOCOL : SW-846
METHOD : 8270

SAMPLES: STC-LEX

Attached are pertinent analytical data dealing with the analysis of one (1) soil sample associated with Case #33352, SDG #83561. The sample was received intact on December 23, 1997 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.

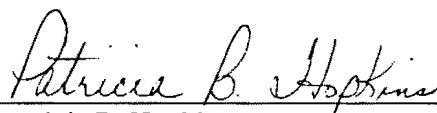
SEMIVOLATILE

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 Laboratory Control Sample (LCS) met accuracy criteria. 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
30 December 1997

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

STC-LEX

Project: YGQP9700835/836 Date Sampled: 12/19/97
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561
 Matrix: (soil/water) WATER Lab Sample ID: 879000
 Sample wt/vol: 200 (g/mL) ML Lab File ID: GH079000A66.D
 Level: (low/med) LOW Date Received: 12/23/97
 % Moisture: _____ decanted: (Y/N) _____ Date Extracted: 12/29/97
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/29/97
 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 |

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM ENV. CORP. Contract: 500957

Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561

| | SAMPLE NO. | S1 (NBZ) # | S2 (FBP) # | S3 (TPH) # | S4 (PHL) # | S5 (2FP) # | S6 (TBP) # | S7 # | S8 # | TOT OUT |
|----|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------|---------|------------|
| 01 | SBLKWZ | 67 | 65 | 66 | 29 | 51 | 67 | | | 0 |
| 02 | SLCSWZ | 66 | 65 | 63 | 27 | 41 | 62 | | | 0 |
| 03 | STC-LEX | 60 | 60 | 61 | 20 | 33 | 41 | | | 0 |
| 04 | TCLPBLKWY | 70 | 66 | 63 | 30 | 50 | 73 | | | 0 |
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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

WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

SLCSWZ

Lab Name: COMPUCHEM ENV. CORP. Contract: 500957

Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561

Lab Sample ID: 879114 LCS Lot No.: 46539

Lab File ID: GH079114A66.D Date Extracted: 12/29/97

LCS Aliquot: 1000 (uL) Date Analyzed: 12/29/97

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 | 20.00 | 7.33 | 37 | 1-200 |
| 1,4-Dichlorobenzene | 20.00 | 11.29 | 56 | 20-124 |
| 2-Methylphenol | 20.00 | 11.52 | 58 | 1-200 |
| 3-Methylphenol | 40.00 | 9.61 | 24 | 1-200 |
| 4-Methylphenol | 40.00 | 9.61 | 24 | 1-200 |
| Hexachloroethane | 20.00 | 11.13 | 56 | 40-113 |
| Nitrobenzene | 20.00 | 13.36 | 67 | 35-180 |
| Hexachlorobutadiene | 20.00 | 11.72 | 59 | 24-116 |
| 2,4,6-Trichlorophenol | 20.00 | 9.89 | 49 | 37-144 |
| 2,4,5-Trichlorophenol | 20.00 | 10.49 | 52 | 37-144 |
| 2,4-Dinitrotoluene | 20.00 | 13.12 | 66 | 39-139 |
| Hexachlorobenzene | 20.00 | 12.54 | 63 | 1-152 |
| Pentachlorophenol | 20.00 | 8.20 | 41 | 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

4B
SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLKWZ

Lab Name: COMPUCHEM ENV. CORP. Contract: 500957

Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83561

Lab File ID: GH079113A66.D Lab Sample ID: 879113

Instrument ID: 5972HP66 Date Extracted: 12/29/97

Matrix: (soil/water) WATER Date Analyzed: 12/29/97

Level: (low/med) LOW Time Analyzed: 0957

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

| | SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|----|------------|------------------|----------------|------------------|
| 01 | SLCSWZ | 879114 | GH079114A66.D | 12/29/97 |
| 02 | STC-LEX | 879000 | GH079000A66.D | 12/29/97 |
| 03 | TCLPBLKWY | 879112 | GH079112A66.D | 12/29/97 |
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COMMENTS:



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

*Received 1/2/98
282*

05/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

Subject: Report of Data - Account Number# 500957 Order# 33352

ATTN: ROSS CREIGHTON

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,

CompuChem Environmental
a division of Liberty Analytical

Attachment



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

05/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

ACCOUNT #: 500957

| CC# | SAMPLE-ID | RECEIPT DATE |
|--------|-----------|--------------|
| 879000 | STC-LEX | 12/23/97 |

TOTAL NUMBER OF SAMPLES = 1

INORGANIC CASE SUMMARY NARRATIVE
CASE # 33352 SDG # 83561
PROTOCOL #SW-846

The indicated Sample Delivery Group (SDG) consisting of one (1) soil sample was received into the laboratory management system (LIMS) on December 23, 1997 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 leachate metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) using analytical methods delineated in SW-846 (3rd edition) or EPA accepted CLP related modifications of those methods.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

STC-LEX

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. All field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spike, 879007 (STC-LEXS) outside control limits for lead. The reported concentrations for these analytes are flagged with an "N" on all associated Form 1 and on Form 5a.

The sample matrix spike duplicate, 879008 (STC-LEXS) was found to be inside 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 80% to 120% 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.

The sample matrix duplicate, 879010 (STC-LEXD) was inside 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.

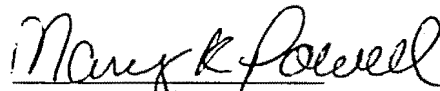
A four-fold serial dilution of sample, 879000 (STC-LEXL) was performed in accordance with SW-846 requirements for ICP analysis.

The adjusted sample concentrations were inside 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.



Mary K. Powell
Inorganic Case Auditor
January 5, 1998

Note: This report is paginated for reference and accountability.

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

b Name: COMPUCHEM_ENV._CORP._____ Contract: SW-846_____

Lab Code: COMPU_ Case No.: 33352 SAS No.: _____ SDG No.: 83561_

SOW No.: ILM03.0

| EPA Sample No. | Lab Sample ID |
|----------------|---------------|
| LEACHBLK | 879112 |
| STC-LEX | 879000 |
| STC-LEXD | 879010 |
| STC-LEXS | 879008 |
| STC-LEXS | 879007 |
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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: Mary K Powell Name: Carol Yandel

Date: January 5, 1998 Title: Inorganic Manager

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.: 33352_ SAS No.: _____ SDG No.: 83561_

Matrix (soil/water): WATER Lab Sample ID: 879112

Level (low/med): LOW_ Date Received: 12/26/97

† 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 | 2.2 | U | | P |
| 7440-39-3 | Barium | 1.2 | B | | P |
| 7440-43-9 | Cadmium | 0.50 | U | | P |
| 7440-47-3 | Chromium | 2.2 | B | | P |
| 7439-92-1 | Lead | 2.2 | U | | P |
| 7439-97-6 | Mercury | | | | NR |
| 7782-49-2 | Selenium | 11.8 | | | P |
| 7440-22-4 | Silver | 0.70 | U | | P |
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Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

STC-LEX

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

Lab Code: COMPU_ Case No.: 33352_ SAS No.: _____ SDG No.: 83561_

-matrix (soil/water): WATER Lab Sample ID: 879000

Level (low/med): LOW_ Date Received: 12/23/97

% 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 | B | | P |
| 7440-39-3 | Barium | 2080 | | | P |
| 7440-43-9 | Cadmium | 12.7 | | | P |
| 7440-47-3 | Chromium | 2.7 | B | | P |
| 7439-92-1 | Lead | 2390 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | CV |
| 7782-49-2 | Selenium | 13.5 | | | P |
| 7440-22-4 | Silver | 0.70 | U | | P |
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Comments:

Duplicate_ (STC-LEXD) _____



Chain-of-Custody

00404 A

ATTN: DIANE ELLMORE

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

Project Name: Chrysler Corp.
Site Location: Kenosha, Wisconsin
Site Code:
RFA Number: YGQP9700835-836
Chrysler PM: DIANE ELLMORE

Consultant: Triad Engineering, Inc.
Address: 325 E. Chicago Street
Milw. Wisconsin 53202
Consultant PM: Ross Creighton
Phone: (414) 291-8840 Fax: (414) 291-8841

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)

Lab Use Only

Volatiles pH < 2
Metals pH < 2
Cyanide pH > 12
Other

Remarks

| Field Sample Identification | Date Collected | Time Collected | Grab (G) or Composite (C) | Matrix Code | Total # of Containers | Compound List-Parameter/Method/Bottle Type/Preservative | Matrix Codes | Lab Use Only | Remarks |
|-----------------------------|----------------|----------------|---------------------------|-------------|-----------------------|---------------------------------------------------------|--------------|--------------|---------|
| STC-LEX | 12/19/97 | 1430 | G | S | 6 | Protocol B (no preserv.) | | | |
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| Sampler(s) | Bottles Relinquished under Airbill No. | Temperature (corrected) C |
|----------------------------------|--------------------------------------------------------|---------------------------------------------------------------------|
| ARK, JMR | Relinquished by: [Signature] Date: 12/22/97 Time: 1145 | 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: Date: Time: 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

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

330 497-9396 Telephone
330 497-0772 Fax

ANALYTICAL REPORT

PROJECT NO. RFA 835/836

Lot #: A8A020109

Cathy Dover

Compuchem Environmental

QUANTERRA INCORPORATED

Jeffrey C. Smith
Project Manager

January 20, 1998

CASE NARRATIVE

The following report contains the analytical results for one solid sample submitted to Quanterra-North Canton by Compuchem Environmental from project number RFA 835/836. The sample was received January 2, 1998, according to documented sample acceptance procedures.

Quanterra-North Canton utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed on the method reference page in accordance with the methods indicated. Preliminary results were provided by facsimile transmission to Cathy Dover on January 19, 1998.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The sample was received at the laboratory at a temperature of 5.3° C.

ANALYTICAL METHODS SUMMARY

ABA020109

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> |
|---------------------------------|------------------------------|
| Method for Chlorine in Coal | ASTM D 2361-91 |
| Specific Gravity | SM18 2710 F |
| Total Residue as Percent Solids | MCAWW 160.3 MOD |

References:

- ASTM Annual Book Of ASTM Standards.
- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SM18 "Standard Methods for the Examination of Water and
Wastewater", 18th Edition, 1992.

SAMPLE SUMMARY

A8A020109

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>DATE</u> | <u>TIME</u> |
|-------------|----------------|-------------------------|-------------|-------------|
| CEQQ1 | 001 | STC-LEX | 12/19/97 | 00:00 |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

COMPUCHEM ENVIRONMENTAL

Client Sample ID: STC-LEX

General Chemistry

Lot-Sample #....: A8A020109-001 Work Order #....: CEQQ1 Matrix.....: SOLID
 Date Sampled...: 12/19/97 00:00 Date Received...: 01/02/98
 % Moisture.....: 13

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|------------------|--------------------|------|----------|-----------------|-------------------------------|-----------------|
| Percent Solids | 87.4 | 0.10 | % | MCAWW 160.3 MOD | 01/05-01/06/98 | 8005117 |
| | Dilution Factor: 1 | | | | | |
| Specific Gravity | 1.2 | | No Units | SM18 2710 F | 01/15/98 | 8015150 |
| | Dilution Factor: 1 | | | | | |
| Total Halogens | ND | 0.10 | % | ASTM D 2361-91 | 01/09-01/12/98 | 8009181 |
| | Dilution Factor: 1 | | | | | |

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

QUALITY CONTROL SECTION

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: A8A020109

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------|-----------------------------|--------------------------------------|--------------------------------------------------|---------------------------------------|-------------------------|
| Total Halogens | 90 | Work Order #: CEV0V102 (75 - 125) | LCS Lot-Sample#: A8A090000-181 ASTM D 2361-91 | 01/09-01/12/98 | 8009181 |

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A8A020109

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u> <u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>PREP</u> <u>BATCH #</u> |
|------------------|---------------|----------------------------------|--------------|-----------------|---------------------------------------------|-------------------------------|
| Percent Solids | ND | 0.10 | % | MCAWW 160.3 MOD | 01/05-01/06/98 | 8005117 |
| | | Dilution Factor: 1 | | | | |
| Total Halogens | ND | 0.10 | % | ASTM D 2361-91 | 01/09-01/12/98 | 8009181 |
| | | Dilution Factor: 1 | | | | |

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A8A020109

Work Order #....: CEKK5-SMP
CEKK5-DUP

Matrix.....: SOLID

Date Sampled....: 12/13/97 10:50

Date Received...: 12/16/97

* Moisture.....: 4.7

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE RESULT</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD LIMIT</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|----------------|---------------|-----------------------------|--------------|------------|----------------------|----------------|--------------------------------------------------|-------------------------|
| Total Halogens | ND | ND | % | 0 | (0-20) | ASTM D 2361-91 | SD Lot-Sample #: A7L170124-004 01/09-01/12/98 | 8009181 |

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A8A020109

Work Order #....: CEQLG-SMP
CEQLG-DUP

Matrix.....: SOLID

Date Sampled....: 12/29/97 10:00 Date Received...: 12/31/97

% Moisture.....: 12

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> |
|----------------|---------------|------------------|--------------|------------|--------------|-------------------|----------------------|----------------|
| | | <u>RESULT</u> | | | <u>LIMIT</u> | | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Percent Solids | | | | | | SD Lot-Sample. #: | A7L310132-018 | |
| | 87.6 | 88.8 | % | 1.4 | (0-20) | MCAWW 160.3 MOD | 01/05-01/06/98 | 8005117 |

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A8A020109 Work Order #....: CEQQ1-SMP Matrix.....: SOLID

CEQQ1-DUP

Date Sampled....: 12/19/97 00:00 Date Received...: 01/02/98

% Moisture.....: 13

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> |
|----------------|---------------|------------------|--------------|------------|--------------|---------------------------------------------------|----------------------|----------------|
| | | <u>RESULT</u> | | <u>RPD</u> | <u>LIMIT</u> | | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Percent Solids | 87.4 | 89.8 | % | 2.7 | (0-20) | SD Lot-Sample #: A8A020109-001 MCAWW 160.3 MOD | 01/05-01/06/98 | 8005117 |

Dilution Factor: 1

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: A8A020109

Work Order #....: CEQQ4-SMP
CEQQ4-DUP

Matrix.....: SOLID

Date Sampled....: 12/29/97 00:00

Date Received...: 01/02/98

% Moisture.....: 20

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>LIMIT</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> |
|------------------|---------------|------------------|--------------------|------------|--------------|-----------------|--------------------------------|----------------------|----------------|
| | | <u>RESULT</u> | | <u>RPD</u> | <u>LIMIT</u> | | | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Specific Gravity | 1.8 | 1.8 | No Units | 0.57 | (0-20) | SM18 2710 F | SD Lot-Sample #: A8A020111-001 | 01/15/98 | 8015150 |
| | | | Dilution Factor: 1 | | | | | | |
| Percent Solids | 80.5 | 79.1 | % | 1.7 | (0-20) | MCAWW 160.3 MOD | SD Lot-Sample #: A8A020111-001 | 01/05-01/06/98 | 8005122 |
| | | | Dilution Factor: 1 | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.



CHAIN-OF-CUSTODY RECORD

No. 00843

4600 Silicon Drive
Durham, NC 27703
1-800-833-5097

| | | | |
|-----------------------------|--|--------------------------------------|----------------------------------------------------|
| Ship to: <i>Quartana</i> | | Project Name: <i>REA 835/8-36</i> | Field Point-of-Contact: |
| Carrier: Airbill No.: | | Sampler Name: | Telephone No.: |
| | | Sampler Signature: | Sampling for project complete? Y or N (See Note 1) |
| | | | Project-specific (PS) or Batch (B) QC: _____ |

- BOX #1**
- 1. Surface Water
 - 2. Ground Water
 - 3. Leachate
 - 4. Rinsate
 - 5. Soil / Sediment / Sludge
 - 6. Trip Blank
 - 7. Oil
 - 8. Waste
 - 9. Other _____

- Box #2:**
- A. HCl
 - B. HNO₃
 - C. NaHSO₄
 - D. Na₂S₂O₃
 - E. Ice Only
 - O. Other _____
 - N. Not Preserved

- Box #3:**
- F. Filtered
 - U. Unfiltered

- Box #4:**
- C. CLP 3/90
 - S. SW-846
 - W. CWA 600-series
 - L. Low Conc. CLP
 - R. Radiological
 - T. TCLP
 - O. Other *Other*

- Box #5:**
- H. - High
 - M. - Medium
 - L. - Low

| Sample ID <small>(Organics 9 characters max Inorganics 8 characters See Note 2)</small> | Date Year 19 <i>97</i> | Time | Matrix | Preservative | Filtered/Unfiltered | Method | Expect Conc. | No. of Bottles | Use for Lab QC (MS or DUP) | Organic Analysis Inorganics Other | | | | | | | | | | | | | Remarks / Comments | |
|----------------------------------------------------------------------------------------------------|------------------------|----------|--------|--------------|---------------------|----------|--------------|----------------|-------------------------------|-----------------------------------|----------|-------------|---------|--------|--------|---------|----------|---------------|---------|---------|---------|-------|--------------------|--------------------------------------------------------------------------------|
| | | | | | | | | | | VOA-GC/MS | SV-GC/MS | Pest/PCB-GC | Herb-GC | VOA-GC | Metals | Mercury | Cyanides | Radiologicals | TOC/TOX | O&G/TPH | Phenols | Other | | |
| <i>STC-LEY</i> | <i>1/1</i> | <i>:</i> | | <i>I</i> | <i>U</i> | <i>S</i> | | <i>1</i> | | | | | | | | | | | | | | | | <i>This is additional vol. Sample originally sent to Quartana on 12/24/97.</i> |
| | <i>1</i> | <i>:</i> | | | | | | | | | | | | | | | | | | | | | | <i>Wisc. cert. required.</i> |
| | <i>1</i> | <i>:</i> | | | | | | | | | | | | | | | | | | | | | | |
| | <i>1</i> | <i>:</i> | | | | | | | | | | | | | | | | | | | | | | |
| | <i>1</i> | <i>:</i> | | | | | | | | | | | | | | | | | | | | | | |
| | <i>1</i> | <i>:</i> | | | | | | | | | | | | | | | | | | | | | | |
| | <i>1</i> | <i>:</i> | | | | | | | | | | | | | | | | | | | | | | |

Client's Special Instructions:

Lab: Received In Good Condition? Y or N Describe Problems, If Any:

| | | | | | | |
|-------------------------------------------------|-----------------------|----------------------------|-------|----------------------------|-------|----------------------------------------------------------------------------------|
| #1 Relinquished By: (Sig.) <i>David Ellmore</i> | Date: <i>12/31/97</i> | #2 Relinquished By: (Sig.) | Date: | #3 Relinquished By: (Sig.) | Date: | Sample storage time requested? (In days, see Note 3) |
| Company Name: <i>CompuChem</i> | Time: <i>2:30pm</i> | Company Name: | Time: | Company Name: | Time: | |
| #1 Received By: (Sig.) <i>John Jensen</i> | Date: <i>1/1/98</i> | #2 Received By: (Sig.) | Date: | #3 Received By: (Sig.) | Date: | DESTROY or RETURN data after five years of archival? (Circle choice; see Note 4) |
| Company Name: <i>Quartana</i> | Time: <i>9:30</i> | Company Name: | Time: | Company Name: | Time: | |

Note (1): If "N" lab will hold samples to await remainder of project-maximizing batch size and minimizing QC ratio; if "Y" lab will begin processing batches now. **Note (2):** If CLP Inorganics diskette required, ID limited to maximum of six characters. **Note (3):** Samples stored 60 days after date report mailed at no extra charge. **Note (4):** All lab copies of data destroyed after five years unless client requests and pays for return of copies; annual storage fee billed in January of year six.



**COMPUCHEM
ENVIRONMENTAL**

a division of Liberty Analytical Corp.

*Received 1/5/98
2 of 2*

02/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

Subject: Report of Data - Account Number# 500957 Order# 33352

ATTN: ROSS CREIGHTON

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

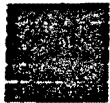
This report covers 2 sample(s) appearing on the attached listing.

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,

CompuChem Environmental
a division of Liberty Analytical

Attachment



COMPUCHEM
ENVIRONMENTAL

a division of Liberty Analytical Corp.

02/JAN/98

TRIAD ENGINEERING INC.
ATTN: ROSS CREIGHTON
325 E CHICAGO STREET
SUITE 400
MILWAUKEE, WI 53202

ACCOUNT #: 500957

| CC# | SAMPLE-ID | RECEIPT DATE |
|--------|------------|--------------|
| 879011 | STC-LEX | 12/23/97 |
| 879029 | METHANBLNK | 12/23/97 |

TOTAL NUMBER OF SAMPLES = 2

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

SDG NARRATIVE

CASE: 33352
SDG: 83564

SAMPLE IDENTIFICATION: STC-LEX

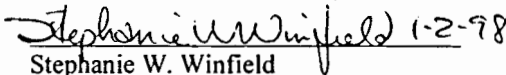
The one (1) soil sample listed above was received intact, properly refrigerated, with proper chain-of-custody (COC) documentation on December 23, 1997. The sample was prepared and analyzed following SW846 Method 8081 protocol for the PCB fraction.

PCBs

Extraction and analysis holding time requirements were met for this sample. The PCB target analyte Aroclor 1260 was confirmed by dual column analysis at a concentration above the reporting limit in STC-LEX.

All of the surrogates met recovery and retention time criteria in the analysis of this sample. The associated method blank met all quality control criteria. No PCB target analytes were detected in the method blank. The associated Laboratory Control Sample (LCS) met all quality control.

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
Technical Reviewer
January 2, 1998

01
EB
1/2/98

FORM 1
 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

| |
|---------|
| STC-LEX |
|---------|

Lab Name: COMPUCHEM Contract: 500957
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 879011
 Sample wt/vol: 30.4 (g/mL) G Lab File ID: _____
 % Moisture: 14 decanted: (Y/N) N Date Received: 12/23/97
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/29/97
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97
 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 | 38 | U | |
| 11104-28-2----- | Aroclor-1221 | 77 | U | |
| 11141-16-5----- | Aroclor-1232 | 38 | U | |
| 53469-21-9----- | Aroclor-1242 | 38 | U | |
| 12672-29-6----- | Aroclor-1248 | 38 | U | |
| 11097-69-1----- | Aroclor-1254 | 38 | U | |
| 11096-82-5----- | Aroclor-1260 | 41 | | |

FORM 3
SOIL PESTICIDE METHOD SPIKE RECOVERY

Lab Name: COMPUCHEM

Contract: 500957

Lab Code: COMPU

Case No.: 33352

SAS No.:

SDG No.: 83564

Matrix Spike - Sample No.: PLCSWT

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | % REC # | QC. LIMITS REC. |
|--------------|---------------------------|------------------------------------|------------|-----------------------|
| Aroclor-1254 | 302.1 | 348.7 | 115 | 50-150 |

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

* Values outside of QC limits

COMMENTS:

FORM 4
 PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKWT

Lab Name: COMPUCHEM Contract: 500957
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Lab Sample ID: 897047 Lab File ID: _____
 Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC
 Sulfur Cleanup (Y/N) N Date Extracted: 12/29/97
 Date Analyzed (1): 12/30/97 Date Analyzed (2):
 Time Analyzed (1): 1456 Time Analyzed (2):
 Instrument ID (1): VARIAN20 Instrument ID (2):
 GC Column (1): RTX-1701 ID: 0.53 (mm) GC Column (2): ID:

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

| | SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED 1 | DATE ANALYZED 2 |
|----|------------|------------------|--------------------|--------------------|
| 01 | PLCSWT | 879048 | 12/29/97 | 12/29/97 |
| 02 | STC-LEX | 879011 | 12/30/97 | 12/30/97 |
| 03 | | | | |
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COMMENTS: _____

FORM 1
 PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKWT

Lab Name: COMPUCHEM Contract: 500957
 Lab Code: COMPU Case No.: 33352 SAS No.: SDG No.: 83564
 Matrix: (soil/water) SOIL Lab Sample ID: 897047
 Sample wt/vol: 31.1 (g/mL) G Lab File ID: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/29/97
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/97
 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 | 65 | U | |
| 11141-16-5----- | Aroclor-1232 | 32 | U | |
| 53469-21-9----- | Aroclor-1242 | 32 | U | |
| 12672-29-6----- | Aroclor-1248 | 32 | U | |
| 11097-69-1----- | Aroclor-1254 | 32 | U | |
| 11096-82-5----- | Aroclor-1260 | 32 | U | |

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

December 31, 1997

*Received 1/6/97
282*

Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

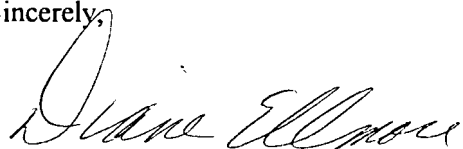
Dear Mr. Creighton:

We at CompuChem are pleased to provide our report for the analysis you requested.
Data for the following samples are enclosed:

| Client ID Number | CompuChem ID Number | Analysis Code | Case Number | Description of Work Requested |
|------------------|---------------------|---------------|--------------|---------------------------------------------------|
| STC-LEX | 879016 | 3030 1317 | 33352. 83562 | Paint Filter Corrosivity by pH Total Solids |

Thank you for selecting CompuChem Environmental for your sample analysis.
If you have any questions concerning this report or the analytical methods employed,
please contact your Sales Representative at 919-379-4100.

Sincerely,



Project Manager

ANALYTICAL REPORT OF DATA - CASE # 33352. 83562

SUBMITTED TO:
Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

LABORATORY CHRONICLE - PAINT FILTER ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE ANALYSIS COMPLETED |
|-------------|----------------------|---------------------|----------------------------|-------------------------------|
| 1. | STC-LEX | 879016 | 12/23/97 | 12/26/97 |

ANALYTICAL REPORT OF DATA - CASE # 33352. 83562

SUBMITTED TO:
Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

LABORATORY CHRONICLE - CORROSIVITY BY PH ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE ANALYSIS COMPLETED |
|-------------|----------------------|---------------------|----------------------------|-------------------------------|
| 1. | STC-LEX | 879016 | 12/23/97 | 12/31/97 |

ANALYTICAL REPORT OF DATA - CASE # 33352. 83562

SUBMITTED TO:
Mr. Ross Creighton
Triad Engineering Inc.
325 E. Chicago Street
Suite 400
Milwaukee, WI 53202

LABORATORY CHRONICLE - TOTAL SOLIDS ANALYSIS

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | DATE SAMPLE RECEIVED | DATE ANALYSIS COMPLETED |
|-------------|----------------------|---------------------|----------------------------|-------------------------------|
| 1. | STC-LEX | 879016 | 12/23/97 | 12/31/97 |

PAINT FILTER ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | RESULT | REPORTING LIMIT |
|----------|-------------------|------------------|--------|-----------------|
| 1. | STC-LEX | 879016 | No | Yes / No |

BRL = BELOW REPORTING LIMIT
NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Zulew / _____

Date: 2326

CORROSIVITY BY PH ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | CONCENTRATION (units) | REPORTING LIMIT (units) |
|----------|-------------------|------------------|-----------------------|-------------------------|
| 1. | STC-LEX | 879016 | 7.99 | 0.00 |

BRL = BELOW REPORTING LIMIT

NWR = NOT WITHIN RANGE

Reviewed by/ID#: S. Beulom / 2326

Date: 12/31/97

TOTAL SOLIDS ANALYSIS

SUMMARY REPORT

| ITEM NO. | SAMPLE IDENTIFIER | COMPUCHEM NUMBER | RESULT | REPORTING LIMIT |
|----------|-------------------|------------------|--------|-----------------|
| 1. | STC-LEX | 879016 | 86.6 | 0.00 |

BRL = BELOW REPORTING LIMIT

NWR = NOT WITHIN RANGE

Reviewed by/ID#: S Berlem / 2326

Date: 12/31/97

CORROSIVITY BY PH ANALYSIS

QUALITY CONTROL REPORT

CASE: 33352. 83562
 MATRIX: SOIL

Analyst:2285
 Date Analyzed: 12/31/97

| BLANK SPIKE (BS) COMPUCHEM #: LCS | | |
|-----------------------------------|------------------------|---------------------|
| SPIKE ADDED (units) | BS CONC. (units) | BS % RECOVERY |
| 9.070 | 8.875 | 98.00 |

| ORIG. SAMPLE COMPUCHEM #: 879016 DUPLICATE (DUP.) COMPUCHEM #: 879016D | | | |
|---------------------------------------------------------------------------|--------------------------|--|-------|
| SAMPLE CONC. (units) | DUP. CONC. (units) | | RPD |
| 7.987 | 8.002 | | 0.000 |

The reporting limit for Corrosivity by pH is 0 units

BRL = BELOW REPORTING LIMIT
 RPD = RELATIVE PERCENT DIFFERENCE
 NWR = NOT WITHIN RANGE

**COMPUCHEM ENVIRONMENTAL CORP.
PAINT FILTER FREE LIQUIDS TEST**

-219

QUEUE #114

EXT. NAME: Carl 4000

EMP. ID #: 1727

DATE STARTED: 12/26/97

| | SAMPLE NUMBER | CLIENT ID # | BOTTLE # | FREE LIQUIDS (Yes/No) | COMMENTS |
|----|---------------|-------------|----------|-----------------------|----------|
| 1 | 879016 | STC-LEX | 1 of 1 | NO | |
| 2 | | | of | | |
| 3 | | | of | | |
| 4 | | | of | | |
| 5 | | | of | | |
| 6 | | | of | | |
| 7 | | | of | | |
| 8 | | | of | | |
| 9 | | | of | | |
| 10 | | | of | | |
| 11 | | | of | | |
| 12 | | | of | | |
| 13 | | | of | | |
| 14 | | | of | | |
| 15 | | | of | | |
| 16 | | | of | | |
| 17 | | | of | | |
| 18 | | | of | | |
| 19 | | | of | | |
| 20 | | | of | | |

FILTRATION COMPLETED: CH

SUPERVISOR REVIEWED: CH

pH Determination Run Log

Fisher Scientific Model #50

Operator: Kim Davis

Page 1 of 1

Date: 12-31-97

SDG: 33352.83562
33357.83782

| # | CompuChem Number | Customer ID | Reagent Reference # | pH | Temperature (°C) |
|---------------------|------------------|---------------------|---------------------|--------|------------------|
| NA | 4.0 | KOAVIS | 7M2-217-2 | 4.9001 | 20.6 |
| NA | 7.0 | 12-31-97 | 7M2-219-16 | 7.002 | 20.8 |
| NA | 10.0 | 12-31-97 | 7M2-219-15 | 10.001 | 21.2 |
| 1 | LCS ERA 9978 | T=9.07 | 7M2-222-5 | 8.875 | 21.7 |
| 2 | 879016 OR | STC-LEX | 12-31-97 | 7.987 | 22.4 |
| 3 | 879019 Dup | ↓ | 12-31-97 | 8.002 | 22.3 |
| 4 | 879291 OR | PROTOCOLB | 12-31-97 | 8.582 | 21.8 |
| 5 | 879295 Dup | ↓ | 12-31-97 | 8.589 | 22.0 |
| | Chk Std 7.00 | 12-31-97 | 7M2-219-16 | 6.998 | 21.5 |
| 12-31-97 | | | | | |

| Buffer | Slope | Efficiency |
|--------|-------|------------|
| 4.00 | 59.76 | 101.0 |
| 7.00 | 60.96 | 103.0 |
| 10.00 | NA | NA |

Reviewed By S. Barlem

Date: 12/31/97

TOTAL SOLIDS ANALYSIS

QUALITY CONTROL REPORT

CASE: 33352. 83562

MATRIX: SOIL

Analyst:2285

Date Analyzed: 12/31/97

| | | | |
|---------------------------------------|-----------------|---------------|-------|
| ORIG. SAMPLE COMPUCHEM #: 879016 | | | |
| DUPLICATE (DUP.) COMPUCHEM #: 879016D | | | |
| | SAMPLE CONC. | DUP. CONC. | RPD |
| | 86.60 | 85.81 | 1.000 |

The reporting limit for Total Solids is 0 %

BRL = BELOW REPORTING LIMIT

RPD = RELATIVE PERCENT DIFFERENCE

NWR = NOT WITHIN RANGE

COMPUCHEM ENVIRONMENTAL CORP.
UNDECANTED DRY WEIGHT WORKSHEET

QUEUE #113

-143 / -190 (in red #'s)

DATE ASSIGNED: 12-31-97

ASSIGNED TO: Kim Davis

DATE COMPLETED: 12-31-97

EMP. ID #: 2285

| | SAMPLE NUMBER | WEIGHT OF CONTAINER (0.00 g) | WEIGHT OF CONT. & WET SAMPLE(0.00 g) | WEIGHT OF CONT. & DRY SAMPLE(0.00 g) |
|------|---------------|------------------------------|--------------------------------------|--------------------------------------|
| 60 | 1 879016 OR | 76.9122 | 107.3411 | 103.2632 |
| 5.81 | 2 879016 Dup | 76.4633 | 107.0766 | 102.7313 |
| 52 | 3 879291 OR | 73.5317 | 103.8494 | 98.8527 |
| 2.61 | 4 879291 Dup | 72.5013 | 102.5250 | 97.3032 |
| | 5 | | | |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | | | |
| | 10 | | | |
| | 11 | | | |
| | 12 | | | |
| | 13 | | | |
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| | 17 | | | |
| | 18 | | | |
| | 19 | | | |
| | 20 | | | |
| | 21 | | | |
| | 22 | | | |
| | 23 | | | |
| | 24 | | | |
| | 25 | | | |

26.3510
 30.4299
 26.2680
 30.6733
 25.3210
 30.3177
 24.8019
 30.0237



Chain-of-Custody

00404 A

ATTN: DIANE ELLMORE

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

Project Name: Chrysler Corp.
Site Location: Kenosha, Wisconsin
Site Code:
RFA Number: YGQP9700835-836
Chrysler PM: Diane Ellmore

Consultant: Triad Engineering Inc.
Address: 325 E. Chicago Street
Milw. Wisconsin 53202
Consultant PM: Ross Creighton
Phone: (414) 291-8840 Fax: (414) 291-8841

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)
Lab Use Only
Volatiles pH < 2
Metals pH < 2
Cyanide pH > 12
Other

Table with columns: Field Sample Identification, Date Collected, Time Collected, Grab (G) or Composite (C), Matrix Code, Total # of Containers, Compound List, Matrix Codes, Volatiles pH < 2, Metals pH < 2, Cyanide pH > 12, Other, Remarks. Includes handwritten entry: STC-LEX, 12/19/97, 1430, G, S, 6, X, PROTOCOL B (no preserv.).

Sampler(s) ARK, JMR
Bottles Relinquished under Airbill No.
Relinquished by: [Signature] Date: 12/22/97 Time: 1145
Received by: [Signature] Date: 12/23/97 Time: 10:00
Cooler ID #
Is RFA sampling complete? Yes No
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



APPENDIX B

Schedule

SOILPILE & DRUMMED SOIL WORK SCHEDULE

CHRYSLER CORPORATION CHRYSLER KENOSHA MAIN PLANT

| ID | Task Name | Duration | Start | Finish | September 1998 | | | | | | October 1998 | | | |
|----|---------------------------------------|----------|--------------|--------------|-----------------------------------------------|------|------|-----|------|------|--------------|------|-------|--|
| | | | | | 8/16 | 8/23 | 8/30 | 9/6 | 9/13 | 9/20 | 9/27 | 10/4 | 10/11 | |
| 1 | Building 52 - Soil Removal & Disposal | 45 days | Mon 8/17/98 | Fri 10/16/98 | [Gantt bar spanning from 8/17/98 to 10/16/98] | | | | | | | | | |
| 2 | Work Plan Preparation | 17 days | Mon 8/17/98 | Tue 9/8/98 | [Gantt bar from 8/17/98 to 9/8/98] | | | | | | | | | |
| 3 | Work Plan Submittal | 0 days | Tue 9/8/98 | Tue 9/8/98 | [Milestone diamond at 9/8/98] | | | | | | | | | |
| 4 | Contracting/ Scheduling/ Permitting | 2 days | Wed 9/9/98 | Thu 9/10/98 | [Gantt bar from 9/9/98 to 9/10/98] | | | | | | | | | |
| 5 | Fieldwork Coordination | 1 day | Fri 9/11/98 | Fri 9/11/98 | [Gantt bar from 9/11/98 to 9/11/98] | | | | | | | | | |
| 6 | Summary Letter Report Preparation | 1 wk | Mon 10/12/98 | Fri 10/16/98 | [Gantt bar from 10/12/98 to 10/16/98] | | | | | | | | | |
| 7 | Summary Letter Report Submittal | 0 days | Fri 10/16/98 | Fri 10/16/98 | [Milestone diamond at 10/16/98] | | | | | | | | | |

Date: Wed 9/9/98

| | | | | | | | |
|-----------|--|---------------------|--|--------------------|--|-----------------|--|
| Task | | Summary | | Rolled Up Progress | | Project Summary | |
| Progress | | Rolled Up Task | | Split | | | |
| Milestone | | Rolled Up Milestone | | External Tasks | | | |