LEGGETTE, BRASHEARS & GRAHAM, INC.

Professional Ground-Water and
Environmental Engineering Services

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DAYTON THERMAL PRODUCTS PLANT
SOIL PILE INVESTIGATION REPORT
DAYTON, OHIO

Prepared For

DaimlerChrysler Corporation

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DAYTON THERMAL PRODUCTS PLANT
SOIL PILE INVESTIGATION REPORT
DAYTON, OHIO

INTRODUCTION

Leggette, Brashears & Graham, Inc. (LBG) was retained by DaimlerChrysler Corporation (DaimlerChrysler) to collect soil samples from three soil piles in the northeast corner of the Dayton Thermal Products plant in Dayton, Ohio. The objective of this investigation was to collect representative soil samples from each soil pile and send the samples to a laboratory for waste characterization analyses. The site is located in the NE¼ of Section 5, Township 1, Range 7 of the 7½-minute Quadrangle U.S. Geologic Survey Topographic Map, North Dayton, Ohio (figure 1).

SCOPE OF WORK

Five test pits (TP) were dug on top of both Soil Pile #1 (SP01TP01 through SP01TP05) and Soil Pile #2 (SP02TP01 through SP02TP05). Two test pits were dug at Soil Pile #3 (SP03TP01 and SP03TP02). Due to the amount of old equipment surrounding Soil Pile #3 the backhoe could only approach the pile from one side (SP03TP02). Soil sample SP03TP01 was dug by hand.

All soil samples collected from the test pits were sent to Lancaster Laboratories, Lancaster, Pennsylvania (Lancaster) and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), toxicity characteristic leaching procedure (TCLP) metals, pesticides, polychlorinated biphenyls (PCBs), reactivity, ignitability, corrosivity, and moisture.

BACKGROUND AND SOIL PILE HISTORY

DaimlerChrysler had used the Old Maxwell Complex, erected about 1907, primarily as a warehouse since 1980. Soil Piles #1 and #2 were generated in 1990 and 1991 when the Old Maxwell Complex was demolished (beginning in October 1990) and Building 59 was built. Four original soil piles were created during the demolition activities (figure 2). None of the excavated soils were taken

off site. Three of the historical soil piles were constructed to be vapor extraction beds; two of which were actually treated by vapor extraction.

- Historical Stockpile 1, the "Clean"pile; located north of Buildings 47 and 50 in the parking lot near the north property line: The "Clean" soil pile no longer exists. Historical estimated volume was 14,050 yd^3. This pile had no visible staining, less than 40 milligrams per kilogram (mg/kg) total petroleum hydrocarbons (TPH), and less than 50 micrograms per kilogram (μg/kg) VOCs. This area is currently used as a trailer parking lot and rack storage area.

<u>Current Soil Pile #1</u>

- Historical Stockpile 2, the "TPH" pile; located northeast of Building 47: This pile was the first vapor extraction bed to treat soil impacted predominantly with oily material. Historical estimated volume was 13,600 yd^3. This pile contained the highest concentrations of TPH (from 40 to 3,500 mg/kg) and had visibly stained soil. Currently part of Soil Pile #1.

- Historical Stockpile 3, the "VOC" pile; located north of Building 47: This pile was the second vapor extraction bed to treat soil impacted predominantly with VOCs. Historical estimated volume was 6,070 yd^3. This pile contained the highest levels of VOCs (up to a total of about 10,000 μg/kg). Currently part of Soil Pile #1.

- Historical Stockpile 4, the "fourth" pile; located east of Building 47. This pile was constructed as the third vapor extraction bed to treat soil but no vapor extraction blowers were attached to this bed. This pile is composed of soil from the new building parking lot which was completed after the new building. This pile was not completed until some time after the above three stockpiles. Its volume is historically estimated at 1,800 yd^3. Historical analytical data shows that this pile contained TPH greater than 105 mg/kg. Currently part of Soil Pile #1.

Construction of soil-vapor extraction (SVE) beds began March 14, 1991 and was completed April 19, 1991 north of Building 47 to treat soil impacted by VOCs and TPH (figure 2). The SVE system was installed and operated by John Mathes and Associates, Inc. (Mathes, 1991). The vapor

extraction beds consisted of a series of 4-inch perforated piping connected with a manifold to regenerative blowers (figure 3). The vapor extraction beds and "Clean" pile were covered with polyethylene sheeting. Six-inch diameter perforated piping was installed in the TPH and VOC piles under the sheeting to enable air inflow from the atmosphere to the vapor extraction beds (figure 3). The "Clean" pile also had 6-inch perforated piping extending the entire length of the pile and was used to promote natural ventilation.

Blowers were attached to the piping in the VOC and TPH piles for vapor extraction. Before start-up, a pilot study was conducted to optimize operating parameters and gather information on VOC emissions for approval from the Regional Air Pollution Control Agency (RAPCA) in Dayton, Ohio. The vapor extraction system start-up date is unclear in previous reports, but RAPCA granted approval to operate the process on April 30, 1991. After three months of operation (week of July 29, 1991), analytical results indicated that approximately 90 percent of VOCs had been removed. Trichloroethene (TCE) had been reduced 88 percent, 1,1,1-trichloroethane by 95 percent, tetrachloroethene by 83 percent, and total 1,2-dichloroethene by 100 percent (Mathes, 1991). The blowers were then turned off. After approximately eight months, it was reported that the polyethylene sheeting had been ripped or blown off, exposing the soil piles. The blowers are no longer present, but the piping is still in Soil Pile #1.

Soil Pile #1 was initially sampled in the early 1990s and analyzed for VOCs and TPH. Historical report references are in Appendix I.

Current Soil Pile #2

Verbal communication with several people on site indicate that Soil Pile #2 may consist of soils from the Historic Stockpile 1 ("Clean" pile). Plant personnel noted that none of the soils left the Dayton site. Historical reports are unclear as to the origin of the current Soil Pile #2.

Current Soil Pile #3

The origination date for Soil Pile #3 is unknown. It is mostly construction debris from recent plant activities.

CURRENT SOIL PILE INVESTIGATION

Soil Pile #1 was initially sampled by LBG September 15, 1998 with a hand auger. Due to the hardness of the soil, the hand auger was advanced to a maximum depth of only six feet. Soil Piles

#2 and #3 were too hard to penetrate with a hand auger, pick axe, or spade shovel. As a result, only three samples were collected from Soil Pile #1 and no samples were collected from Soil Piles #2 or #3. Figure 4 shows the sample locations for SB-1, SB-2, and SB-3 in Soil Pile #1. Analytical results from the 1998 sampling event indicated an exceedence of arsenic (tables 1 through 7). LBG is not aware of any sampling of Soil Piles #2 and #3 prior to this recent investigation.

The recent investigation was conducted July 27 and 28, 1999 using a backhoe and operator provided by Onyx Industrial Services, Inc., Huber Heights, Ohio. In order to get the backhoe on top of the soil piles, the backhoe operator had to grade ramps on the side of Soil Piles #1 and #2 by pulling down some of the soil embankment (figure 4). Soil Pile #3 was accessible from the side.

CURRENT SOIL PILE DESCRIPTION

Soil Pile #1 is approximately 9 feet deep, 400 feet long (north-south), 200 feet wide (east-west), and is estimated by LBG to be approximately 8,500 yd^3. It is steep walled, flat on top, and covered with a plastic liner overlain by approximately 3 inches of 0.5 to 2-inch diameter aggregate. It has an even mixture of clay, silt, sand, and gravel, and historically contained no visible staining. The soil was wet to saturated. This soil pile is the combination of three historical soil piles (TPH, VOC, fourth). Some of the old SVE piping was encountered with the backhoe at SP01TP04. Photos 1 through 3 present different views of Soil Pile #1.

Soil Pile #2 is approximately 8 feet tall, 190 feet wide, 310 feet long, and is estimated by LBG to be approximately 14,500 yd^3. It is steep walled, flat on top, underlain by plastic sheeting, and covered with 3 to 5-foot high plant growth (i.e., grasses, weeds, small trees). The soil is a mixture of clay, silt, and sand with some gravel. The soil was considerably dryer than Soil Pile #1. There is a 1 to 2-foot high berm surrounding the soil pile to control runoff. Photos 4 through 7 present different views of Soil Pile #2.

Soil Pile #3 is approximately 20 feet tall, conical in shape with steep sides, very hard and dry, and was surrounded by unused plant equipment. This pile is estimated by LBG to be approximately 1,000 yd^3. This pile is a mixture of silt, sand and gravel, but also contains large amounts of concrete and other construction debris (brick, piping, etc.). Photo 8 presents a view of Soil Pile #3.

SOIL SAMPLE COLLECTION

The test pits dug in Soil Piles #1 and #2 were approximately 9 feet and 8 feet deep, respectively, near the base of each soil pile. Test pits were dug at each corner of the soil piles with one near the center of the pile to obtain representative soil samples. When the backhoe reached the base of the soil piles, a final scoop was lifted and samples were collected directly from the backhoe bucket and placed in laboratory supplied clear 4 and 8 ounce glass jars sealed with Teflon coated lids. Samples were screened by the on-site hydrogeologist with a photoionization detector (PID) equipped with a 10.2 eV lamp. No detectable VOC concentrations were observed with the PID.

Soil sample SP03TP01 was collected manually near the top of Soil Pile #3 by scraping off the surface soils with a shovel. A maximum depth of approximately 1.5 feet was obtained due to the hardness of the soil. Soil sample SP03TP02 was collected with the backhoe from the northwest corner of Soil Pile #3. The test pit reached a maximum depth of 4 feet due to the limitations of the backhoe and the surrounding obstructions. All sample locations are displayed in figure 4.

LABORATORY RESULTS

All soil samples from the July 1999 sampling event were shipped to Lancaster for VOC analysis by EPA Method 8260, SVOC analysis by Method 8270C, TCLP metals analysis by Method 1311, pesticides analysis by Method 8081A, PCBs analysis by Method 8082, reactivity, ignitability, corrosivity, and percent moisture (tables 1 through 7). VOC, TCLP metals, pesticides, and PCB analyses show that all soil samples had concentrations below the State of Ohio Voluntary Action Program (VAP) residential limits. The Ohio Voluntary Action Program residential limits are from the 1998-2 Edition of the State of Ohio Environmental Protection Agency Regulations book, Volume Two.

Eight samples from the three soil piles exceeded the VAP residential limit for benzo(a)pyrene, one of the 23 SVOC analytes with positive detections. Although these samples exceeded the VAP residential limit, none of them exceeded the VAP industrial limit. The VAP residential and industrial limit for benzo(a)pyrene is 550 µg/kg and 3,100 µg/kg, respectively.

SUMMARY

Recent sampling and analyses of the three soil piles indicate the soils are non-hazardous, with only benzo(a)pyrene exceeding VAP residential limits. No compounds exceed VAP industrial limits.

There was some inconclusive evidence in the historical reports which led to some confusion as to the origination of the soil piles, especially for Soil Pile #2. From talking with personnel on site, the old "Clean" pile soils may have been moved to the present location of Soil Pile #2. This is plausible since the historic volume of the "Clean" pile is 14,050 yd^3 (figure 3) and the LBG estimated volume of Soil Pile #2 is 14,500 yd^3.

The "fourth" pile (east of Building 47 in Soil Pile #1) was said to be from the new Building 59 parking lot, but previous reports do not say where exactly the soil came from or when it was excavated and stockpiled. There was nothing stated in previous reports of any event to replace the plastic sheeting on the present Soil Pile #1 after the polyethylene sheeting had been ripped or blown off, yet it was replaced. There is no indication as to the origin of Soil Pile #2. Soil Pile #3 has been used for stockpiling recent plant construction debris; mainly debris from the reconstruction of a section of the steam tunnel north east of Building 40A.

Although the vapor extraction system start-up date is not given, it is assumed that it was April 30, 1991 (date of process approval from the Ohio RAPCA) because previous reports stated that stockpile sampling occurred the week of July 29, 1991, three months after the process approval date (Mathes, 1991).

LEGGETTE, BRASHEARS & GRAHAM, INC.

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October 29, 1999
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Burlington Environmental, "Environmental Site Assessment," March 16, 1992.

Clean Tech, "*Biotreatability Study for the Acustar Plant*," November 1992.

Clean Tech, "Dayton Thermal Products Site Activity Summary," April 1993.

John Mathes and Associates, Inc., "Sampling and Analysis to Evaluate Soil Remediation," September 3, 1991.

TABLES

TABLE 1

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

SUMMARY OF POSITIVE DETECTIONS IN SOIL
VOLATILE ORGANIC COMPOUNDS

UNITS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	DATE	DILUTION FACTOR	1,1-DICHLORO-ETHANE	1,2-DICHLORO-ETHENE (TOTAL)	TRICHLORO-ETHENE	TETRACHLORO-ETHENE	ACETONE	METHYLENE CHLORIDE	DIESEL RANGE ORGANICS	TOTAL PETROLEUM HYDROCARBONS	1,1,1-TRICHLOROETHANE	CIS-1,2-DICHLOROETHENE	TRANS-1,2-DICHLOROETHENE	CHLOROFORM
VAP RESIDENTIAL LIMITS ug/kg				620,000	—	77,000	94,000	4,500,000	220,000	—	—	1,200,000	450,000	910,000	—
VAP INDUSTRIAL LIMITS ug/kg				2,300,000	—	330,000	370,000	55,000,000	990,000	—	—	1,400,000	1,200,000	2,500,000	—
SP-1 - SB-1	4-6'	09/15/1998	1.0	<11	<23	5 J	1 J	3 JB	8 JB	<57,000	108,000	< 11	---	---	< 11
SP-1 - SB-2	4-5'	09/15/1998	1.0	<12	4 J	1 J	<12	2 JB	9 JB	<58,000	93,200	< 12	---	---	< 12
SP-1 - SB-3	4-5'	09/15/1998	1.0	1 J	3 J	10 J	1 J	4 JB	9 JB	<58,000	325,000	< 12	---	---	< 12
SP-1 - CP-1	COMPOSITE	09/15/1998	---	---	---	---	---	---	---	---	120,000	---	---	---	---
T-0001	---	09/15/1998	1.0	<10	<20	<10	<10	2 JB	10 B	---	---	< 10	---	---	< 10
SP01TP01	9'	07/27/1999	1.0	11	11	32	2 J	19 J	10	---	---	2 J	11	<2	< 1
SP01TP02	9'	07/27/1999	1.0	2 J	< 4	5 J	2 J	< 8	3 J	---	---	2 J	<2	<2	< 1
SP01TP03	9'	07/27/1999	1.0	< 1	< 4	12	< 1	< 8	9	---	---	< 1	< 2	< 2	< 1
SP01TP04	9'	07/27/1999	1.0	< 1	8	4 J	< 1	18 J	11	---	---	< 1	8	< 2	< 1
SP01TP05	9'	07/27/1999	1.0	5 J	3 J	9	2 J	< 8	9	---	---	6	3 J	< 2	< 1
SP02TP01	8'	07/28/1999	1.0	< 1	< 4	87	< 1	< 8	31	---	---	2 J	< 2	< 2	1 J
SP02TP02	8'	07/28/1999	1.0	< 1	< 4	23	< 1	< 8	5 J	---	---	< 1	< 2	< 2	< 1
SP02TP03	8'	07/28/1999	1.0	< 1	< 4	31	1 J	< 8	11	---	---	< 1	< 2	< 2	< 1
SP02TP04	8'	07/28/1999	1.0	< 1	< 4	20	1 J	< 8	14	---	---	< 1	< 2	< 2	< 1
SP02TP05	8'	07/28/1999	1.0	< 1	< 4	16	< 1	< 8	25	---	---	< 1	< 2	< 2	< 1
SP03TP01	1.5'	07/28/1999	1.0	< 1	< 4	< 1	< 1	9 J	12	---	---	< 1	< 2	< 2	< 1
SP03TP02	4'	07/28/1999	1.0	< 1	< 4	18	19	< 8	7	---	---	< 1	< 2	< 2	< 1

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS" 1998-2 EDITION

—: NOT ESTABLISHED OR NOT ANALYZED

B: ANALYTE WAS FOUND IN THE ASSOCIATED BLANK AS WELL AS THE SAMPLE.

J: ESTIMATED VALUE

<: LESS THAN

SP: SOIL PILE

SB: SOIL BORING

TP: TEST PIT

CP: COMPOSITE SAMPLE OF SB-1, SB-2, AND SB-3

T-0001: TRIP BLANK

S:\TECH\3CHRY\DAYTON\ANALYTICAL
Soilpile, VOC's
11/03/1999, 11:18 AM

TABLE 2

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

SUMMARY OF POSITIVE DETECTIONS IN SOIL
SEMI-VOLATILE ORGANIC COMPOUNDS
CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	SAMPLE DATE	DILUTION FACTOR	ANTHRACENE	BENZO (a) ANTHRACENE	BENZO (b) FLUORANTHENE	BENZO (k) FLUORANTHENE	BENZO (g,h,i) PERYLENE	BENZO (a) PYRENE	CARBAZOLE	CHRYSENE	INDENO (1,2,3-cd) PYRENE	FLUORANTHENE	PHENANTHRENE	PYRENE
VAP RESIDENTIAL LIMITS ug/kg				9,500,000	5,500	5,500	55,000	—	550	—	550,000	5,500	1,300,000	—	950,000
VAP INDUSTRIAL LIMITS ug/kg				89,000,000	31,000	31,000	310,000	—	3,100	—	3,100,000	31,000	12,000,000	—	8,900,000
SP-1 - SB-1	4-6'	09/15/1998	1.0	75 J	300 J	380	130 J	140 J	250 J	53 J	290 J	140 J	610	370 J	420
SP-1 - SB-2	4-5'	09/15/1998	1.0	<380	58 J	76 J	<380	<380	54 J	<380	62 J	<380	100 J	54 J	70 J
SP-1 - SB-3	4-5'	09/15/1998	1.0	<380	110 J	110 J	76 J	46 J	71 J	<380	110 J	47 J	250 J	150 J	180 J
SP01TP01	9'	07/27/1999	1.0	230 J	680	660	280 J	250 J	470	100 J	680	290 J	1400	830	1200
SP01TP02	9'	07/27/1999	1.0	< 39	150 J	180 J	77 J	79 J	130 J	< 39	140 J	88 J	280 J	170 J	260 J
SP01TP03	9'	07/27/1999	1.0	76 J	300 J	320 J	140 J	120 J	220 J	< 39	310 J	140 J	520	320 J	470
SP01TP04	9'	07/27/1999	1.0	260 J	660	820	340 J	400	620	97 J	640	480	1300	860	1200
SP01TP05	9'	07/27/1999	1.0	54 J	250 J	250 J	100 J	120 J	180 J	< 38	240 J	130 J	390	210 J	380 J
SP02TP01	8'	07/28/1999	1.0	580	1600	1700	670	710	1200	310 J	1600	830	3400	2400	3200
SP02TP02	8'	07/28/1999	1.0	370	1100	1200	530	570	910	200 J	1200	650	2400	1600	2200
SP02TP03	8'	07/28/1999	1.0	1300	2800	2800	1100	1300	2300	340 J	2700	1500	6100	3900	5400
SP02TP04	8'	07/28/1999	1.0	240 J	760	930	360 J	390	640	140 J	780	450	1500	1000	1400
SP02TP05	8'	07/28/1999	1.0	950	2700	3200	1300	1500	2400	570	2700	1700	6200	4200	5400
SP03TP01	1.5'	07/28/1999	1.0	240 J	850	1100	480	580	880	88 J	850	670	1600	900	1500
SP03TP02	4'	07/28/1999	1.0	210 J	750	1000	420	590	810	100 J	710	650	1600	920	1500

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS" 1998-2 EDITION

—: NOT ESTABLISHED

J: ESTIMATED VALUE

<: LESS THAN

SP: SOIL PILE

SB: SOIL BORING

TP: TEST PIT

AREAS HIGHLIGHTED IN YELLOW REPRESENT EXCEEDENCES OVER THE VAP RESIDENTIAL LIMIT

TABLE 2

DAYTON THERMAL PRODUCTS
DAYTON, OHIO

STOCKPILE SOILS

SUMMARY OF POSITIVE DETECTIONS IN SOIL
SEMI-VOLATILE ORGANIC COMPOUNDS
CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	SAMPLE DATE	DILUTION FACTOR	ACENAPHTHENE	ACENAPHTHYLENE	FLUORENE	DIBENZO (a,h) ANTHRACENE	NAPHTHALENE	2-METHYLNAPHTHALENE	DIBENZOFURAN	2-METHYLPHENOL	PHENOL	3,3'-DICHLOROBENZIDINE	BIS (2-ETHYLHEXYL) PHTHALATE
VAP RESIDENTIAL LIMITS ug/kg				1,900,000	—	1,300,000	550	1,800,000	—	—	--	26,000,000	—	150,000
VAP INDUSTRIAL LIMITS ug/kg				1,800,000	—	12,000,000	3,100	22,000,000	—	—	--	300,000,000	—	860,000
SP-1 - SB-1	4-6'	09/15/1998	1.0	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 760	< 380
SP-1 - SB-2	4-5'	09/15/1998	1.0	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 770	< 380
SP-1 - SB-3	4-5'	09/15/1998	1.0	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 770	< 380
SP01TP01	9'	07/27/1999	1.0	46 J	< 39	56 J	88 J	< 39	< 39	< 39	< 39	< 79	< 79	< 79
SP01TP02	9'	07/27/1999	1.0	< 39	< 39	< 39	< 39	< 39	< 39	< 39	< 39	< 79	< 79	< 79
SP01TP03	9'	07/27/1999	1.0	< 39	< 39	< 39	40 J	< 39	< 39	< 39	< 39	< 78	< 78	< 78
SP01TP04	9'	07/27/1999	1.0	58 J	90 J	110 J	120 J	110 J	48 J	82 J	< 39	< 80	< 80	< 80
SP01TP05	9'	07/27/1999	1.0	< 38	< 38	< 38	41 J	< 38	< 38	< 38	< 38	< 78	< 78	< 78
SP02TP01	8'	07/28/1999	1.0	150 J	< 38	190 J	210 J	70 J	63 J	130 J	< 38	< 78	< 78	< 78
SP02TP02	8'	07/28/1999	1.0	99 J	< 36	110 J	160 J	40 J	43 J	69 J	< 36	< 74	< 74	< 74
SP02TP03	8'	07/28/1999	1.0	240 J	46 J	310 J	360 J	150 J	77 J	170 J	< 37	< 75	< 75	< 75
SP02TP04	8'	07/28/1999	1.0	62 J	< 37	75 J	130 J	43 J	< 37	56 J	< 37	< 74	< 74	< 74
SP02TP05	8'	07/28/1999	1.0	330 J	70 J	300 J	400	110 J	90 J	210 J	< 37	2500	180 J	460
SP03TP01	1.5'	07/28/1999	1.0	55 J	200 J	77 J	150 J	93 J	46 J	52 J	120 J	< 70	< 70	< 70
SP03TP02	4'	07/28/1999	1.0	52 J	130 J	81 J	150 J	95 J	76 J	60 J	< 36	< 74	< 74	180 J

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REG

—: NOT ESTABLISHED

J: ESTIMATED VALUE

<: LESS THAN

SP: SOIL PILE

SB: SOIL BORING

TP: TEST PIT

AREAS HIGHLIGHTED IN YELLOW REPRESENT EXCEE

TABLE 3

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

TOTAL AND TCLP METALS

TOTAL METALS (mg/kg)

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	DATE	ARSENIC	BARIUM	CADMIUM	CHROMIUM*	LEAD	MERCURY	SELENIUM	SILVER	ZINC	COPPER
VAP RESIDENTIAL LIMITS mg/kg			6.9	5,000	32	230	400	16	—	—	19,000	—
VAP INDUSTRIAL LIMITS mg/kg			86	140,000	300	2,800	2,800	230	—	—	370,000	—
SP-1 - SB-1	4-6'	09/15/1998	6.9	53.7	0.73	12.9 E	26.4 E	<0.06 N	0.67 N	<0.07	---	---
SP-1 - SB-2	4-5'	09/15/1998	8.5	51.1	1.7	15.3 E	17.9 E	<0.06 N	<0.57 N	<0.07	---	---
SP-1 - SB-3	4-5'	09/15/1998	7.1	50.5	1.0	10.7 E	17.7 E	1.8 N	<0.56 N	<0.06	---	---

TCLP METALS (mg/L)

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	DATE	ARSENIC	BARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SELENIUM	SILVER	ZINC	COPPER
MAXIMUM TCLP CONCENTRATION (mg/L)			5	100	1	5	5	0.2	1	5	—	—
SP-1 - CP-1	COMPOSITE	09/15/1998	< 0.0037	0.343	0.0044 B	0.0012 B	0.0121	< 0.0001	0.0205 N	< 0.0006	---	---
SP01TP01	9'	~~07/27/1999~~	< 0.007	0.52	0.002	< 0.0054	< 0.023	< 0.00004	0.0074 J	< 0.0057	0.05	< 0.0058
SP01TP02	9'	07/27/1999	< 0.007	0.48	0.0018	0.0107 J	< 0.023	< 0.00004	< 0.0059	< 0.0057	0.03	0.0089 J
SP01TP03	9'	07/27/1999	< 0.007	0.57	0.0024	< 0.0054	< 0.023	< 0.00004	0.006 J	< 0.0057	0.071	< 0.0058
SP01TP04	9'	07/27/1999	< 0.007	0.65	0.0024	< 0.0054	0.028 J	0.000069 J	< 0.0059	< 0.0057	0.167	0.0111 J
SP01TP05	9'	07/27/1999	< 0.007	0.47	0.0017	< 0.0054	< 0.023	< 0.00004	0.0072 J	< 0.0057	0.054	< 0.0058
SP02TP01	8'	07/28/1999	< 0.007	0.63	0.0027	< 0.0054	< 0.023	< 0.00004	< 0.0059	< 0.0057	0.207	0.01 J
SP02TP02	8'	07/28/1999	< 0.007	0.63	0.0025	< 0.0054	< 0.023	< 0.00004	0.0061 J	< 0.0057	0.1	0.009 J
SP02TP03	8'	07/28/1999	< 0.007	0.68	0.0032	< 0.0054	0.27	< 0.00004	< 0.0059	< 0.0057	0.179	0.0225 J
SP02TP04	8'	07/28/1999	< 0.007	0.54	0.0025	< 0.0054	< 0.023	< 0.00004	< 0.0059	< 0.0057	0.082	0.0235 J
SP02TP05	8'	07/28/1999	< 0.007	0.6	0.0024	< 0.0054	< 0.023	0.000048 J	< 0.0059	< 0.0057	0.125	0.0093 J
SP03TP01	1.5'	07/28/1999	< 0.007	0.85	0.004	< 0.0054	0.05 J	< 0.00004	0.0067 J	< 0.0057	0.081	0.014 J
SP03TP02	4'	07/28/1999	< 0.007	0.78	0.002	< 0.0054	0.029 J	< 0.00004	< 0.0059	< 0.0057	0.055	0.0241 J

ONLY TCLP METALS WERE ANALYZED FOR SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02. SEE TABLE 7 FOR TCLP METALS.

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS" 1998-2 EDITION
TCLP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE
—: NOT ESTABLISHED OR NOT ANALYZED
B: ANALYTE WAS FOUND IN THE ASSOCIATED BLANK AS WELL AS THE SAMPLE.
E: ESTIMATED VALUE (SEE REPORT QUALIFIERS)
J: ESTIMATED VALUE
N: SAMPLE SPIKE RECOVERY IS OUTSIDE OF CONTROL LIMITS
<: LESS THAN
SB: SOIL BORING
SP: SOIL PILE
TP: TEST PIT
CP: COMPOSITE SAMPLE OF SB-1, SB-2, AND SB-3
*: CHROMIUM LIMITS BASED ON CHROMIUM VI: CHROMIUM III RESIDENTIAL = 8,800 mg/kg; INDUSTRIAL = 63,000 mg/kg
AREAS HIGHLIGHTED IN YELLOW REPRESENT EXCEEDENCES OVER THE VAP RESIDENTIAL LIMIT
MAXIMUM TCLP CONCENTRATION OF CONTAMINANTS PER OHIO EPA HAZARDOUS WASTES CHAPTER 3745-51-24, TABLE 1 OF OHIO EPA REGULATIONS VOLUME TWO, 1998-2 EDITION.

TABLE 4

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

SUMMARY OF POSITIVE DETECTIONS IN SOIL
PESTICIDE ORGANICS

CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	SAMPLE DATE	DILUTION FACTOR	ALPHA-BHC	GAMMA-BHC (LINDANE)	4,4'-DDE	4,4'-DDT	4-4-DDD	DIELDRIN	ENDOSULFAN II	ENDOSULFAN SULFATE	HEPTACHLOR	HEPTACHLOR EPOXIDE	ENDRIN KETONE	METHOXYCHLOR	ALPHA CHLORDANE	GAMMA CHLORDANE	ENDRIN	ENDRIN ALDEHYDE
VAP RESIDENTIAL LIMITS ug/kg				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VAP INDUSTRIAL LIMITS ug/kg				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SP-1 - SB-1	4-6'	09/15/1998	1.0	<1.9	0.88 JP	1.6 JP	<11	< 7.6	0.36 JP	0.98 J	<7.6	0.67 JP	<1.9	<19	<19	—	---	< 7.6	< 7.6
SP-1 - SB-2	4-5'	09/15/1998	1.0	<1.9	0.39 JP	<4.0	0.67 JP	< 7.7	0.49 JP	<7.7	1.5 JP	<1.9	<1.9	2.3 JP	11 JP	—	---	< 7.7	< 7.7
SP-1 - SB-3	4-5'	09/15/1998	1.0	0.26 JP	0.99 JP	<4.0	0.80 JP	< 7.7	0.77 JP	<7.7	1.7 JP	<1.9	0.41 JPB	3.1 JP	12 JP	—	---	< 7.7	< 7.7
SP01TP01	9'	07/27/1999	10.0	< 0.79	< 0.79	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.79	1.49 J	< 1.5	36.1 J	< 0.79	1.76 J	< 1.5	< 1.5
SP01TP02	9'	07/27/1999	10.0	< 0.79	< 0.79	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.79	< 0.79	< 1.5	< 7.9	< 0.79	< 0.79	< 1.5	< 1.5
SP01TP03	9'	07/27/1999	10.0	< 0.78	< 0.78	< 1.5	4.3 J	< 1.5	< 1.5	< 1.5	< 1.5	< 0.78	< 0.78	< 1.5	58	< 0.78	< 0.78	< 1.5	< 1.5
SP01TP04	9'	07/27/1999	10.0	< 0.8	< 0.8	< 1.5	17.9	< 1.5	< 1.5	< 1.5	< 1.5	< 0.8	2 J	< 1.5	16 J	< 0.8	< 0.8	2.1 J	< 1.5
SP01TP05	9'	07/27/1999	10.0	< 0.78	< 0.78	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.78	< 0.78	< 1.5	9.3 J	< 0.78	< 0.78	< 1.5	< 1.5
SP02TP01	8'	07/28/1999	10.0	1.08 J	< 0.78	< 1.5	2.6 J	< 1.5	< 1.5	< 1.5	< 1.5	< 0.78	2.14 J	< 1.5	112	< 0.78	13.4	< 1.5	2.7 J
SP02TP02	8'	07/28/1999	10.0	< 0.74	< 0.74	< 1.4	14.8	< 1.4	< 1.4	< 1.4	< 1.4	< 0.74	2.13 J	< 1.4	52	< 0.74	8.2	2.6 J	< 1.4
SP02TP03	8'	07/28/1999	10.0	1.06 J	< 0.75	< 1.5	15	11.8	< 1.5	< 1.5	< 1.5	1.29 J	0.97 J	< 1.5	145	< 0.75	24.6	< 1.5	2.9 J
SP02TP04	8'	07/28/1999	10.0	< 0.74	< 0.74	< 1.4	6.2 J	3.3 J	< 1.4	< 1.4	< 1.4	< 0.74	< 0.74	< 1.4	62	< 0.74	5.5	< 1.4	< 1.4
SP02TP05	8'	07/28/1999	10.0	1.39 J	< 0.75	< 1.5	21.6	18.2	< 1.5	< 1.5	< 1.5	7.1	< 0.75	< 1.5	136	60.4	50.5	< 1.5	2 J
SP03TP01	1.5'	07/28/1999	10.0	< 0.7	< 0.7	< 1.4	11.6	< 1.4	< 1.4	< 1.4	< 1.4	< 0.7	1.66 J	1.8 J	< 7	< 0.7	1.7 J	< 1.4	< 1.4
SP03TP02	4'	07/28/1999	10.0	< 0.74	< 0.74	< 1.4	10.6	< 1.4	< 1.4	< 1.4	< 1.4	< 0.74	1.26 J	< 1.4	22.3 J	< 0.74	< 0.74	< 1.4	< 1.4

VAP: OHIO EPA VOLUNTARY ACTION PROGRAM REGULATIONS "GENERIC DIRECT-CONTACT SOIL STANDARDS" 1998-2 EDITION

---: NOT ESTABLISHED

B: ANALYTE WAS FOUND IN THE ASSOCIATED BLANK AS WELL AS THE SAMPLE.

J: ESTIMATED VALUE

P: GREATER THAN 25% DIFFERENCE FOR DETECTED CONCENTRATIONS BETWEEN THE TWO GC/HPLC COLUMNS. THE LOWER VALUE IS REPORTED.

SP: SOIL PILE

SB: SOIL BORING

TP: TEST PIT

<: LESS THAN

TABLE 5

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

PCBs AND HERBICIDES

CONCENTRATIONS IN MICROGRAMS PER KILOGRAM (ug/kg)

POLYCHLORINATED BIPHENYLS PCBs

NO PCBs WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMIT OF 26 TO 49 ug/kg IN THE SP-1-SB-1, SP-1-SB-2, SP-1-SB-3 SAMPLES OR THE SP-1-CP-1 COMPOSITE SAMPLE

NO PCBs WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMIT OF 34 TO 39 ug/kg IN SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02

HERBICIDE ORGANICS

NO HERBICIDE ORGANICS WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMIT OF 2.3 TO 5.8 ug/kg IN THE SP-1-SB-1, SP-1-SB-2, AND SP-1-SB-3 SAMPLES

NO HERBICIDE ORGANICS WERE ANALYZED FOR SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02

TABLE 6

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

VOLATILE ORGANIC COMPOUNDS

NO TCLP VOLATILE ORGANIC COMPOUNDS WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMIT OF 50 ug/L
IN THE SP-1-CP-1 COMPOSITE SAMPLE
NO TCLP VOLATILE ORGANIC COMPOUNDS WERE ANALYSED FOR SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02

SEMI-VOLATILE ORGANIC COMPOUNDS

NO TCLP SEMI-VOLATILE ORGANIC COMPOUNDS WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMITS OF 50 AND 250 ug/L
IN THE SP-1-CP-1 COMPOSITE SAMPLE
NO TCLP SEMI-VOLATILE ORGANIC COMPOUNDS WERE ANALYSED FOR SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02

PESTICIDE ORGANICS

NO TCLP PESTICIDE ORGANICS WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMITS OF 0.25 TO 25 ug/L
IN THE SP-1-CP-1 COMPOSITE SAMPLE
NO TCLP PESTICIDES WERE ANALYSED FOR SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02

HERBICIDE ORGANICS

NO TCLP HERBICIDE ORGANICS WERE DETECTED ABOVE THE LABORATORY METHOD DETECTION LIMITS OF 2.5 AND 7.5 ug/L
IN THE SP-1-CP-1 COMPOSITE SAMPLE
NO TCLP HERBICIDES WERE ANALYSED FOR SAMPLES SP01TP01 - SP01TP05, SP02TP01 - SP02TP05, SP03TP01 - SP03TP02

METALS (mg/L)

SEE TABLE 3 FOR TCLP METAL CONCENTRATIONS

TABLE 7

DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

STOCKPILED SOILS

INORGANICS

SAMPLE LOCATION	SAMPLE DEPTH (FEET)	DATE	REACTIVE CYANIDE	TOTAL CYANIDE	IGNITABILITY	CORROSIVITY (pH)	REACTIVE SULFIDE
UNITS		---	mg/kg	mg/kg	FAHRENHEIT	S.U.	mg/kg
SP-1 - SB-1	4-6'	09/15/1998	<125	<0.57	>140	7.49	<125
SP-1 - SB-2	4-5'	09/15/1998	<125	<0.57	>140	8.12	<125
SP-1 - SB-3	4-5'	09/15/1998	<125	<0.58	>140	8.23	<125
SP-1 - CP-1	COMPOSITE	09/15/1998	---	<0.57	---	---	---
SP01TP01	9'	07/27/1999	< 100	---	DNI	8.00	< 39
SP01TP02	9'	07/27/1999	< 100	---	DNI	8.07	< 39
SP01TP03	9'	07/27/1999	< 100	---	DNI	7.59	< 39
SP01TP04	9'	07/27/1999	< 100	---	DNI	7.86	< 39
SP01TP05	9'	07/27/1999	< 100	---	DNI	7.76	< 39
SP02TP01	8'	07/28/1999	< 100	---	DNI	7.61	< 39
SP02TP02	8'	07/28/1999	< 100	---	DNI	7.8	< 39
SP02TP03	8'	07/28/1999	< 100	---	DNI	8.08	< 39
SP02TP04	8'	07/28/1999	< 100	---	DNI	7.62	< 39
SP02TP05	8'	07/28/1999	< 100	---	DNI	7.84	< 39
SP03TP01	1.5'	07/28/1999	< 100	---	DNI	8.22	< 39
SP03TP02	4'	07/28/1999	< 100	---	DNI	9.01	< 39

<: LESS THAN

>: GREATER THAN

CP: COMPOSITE SAMPLE OF SB-1, SB-2, AND SB-3

SP: SOIL PILE

SB: SOIL BORING

TP: TEST PIT

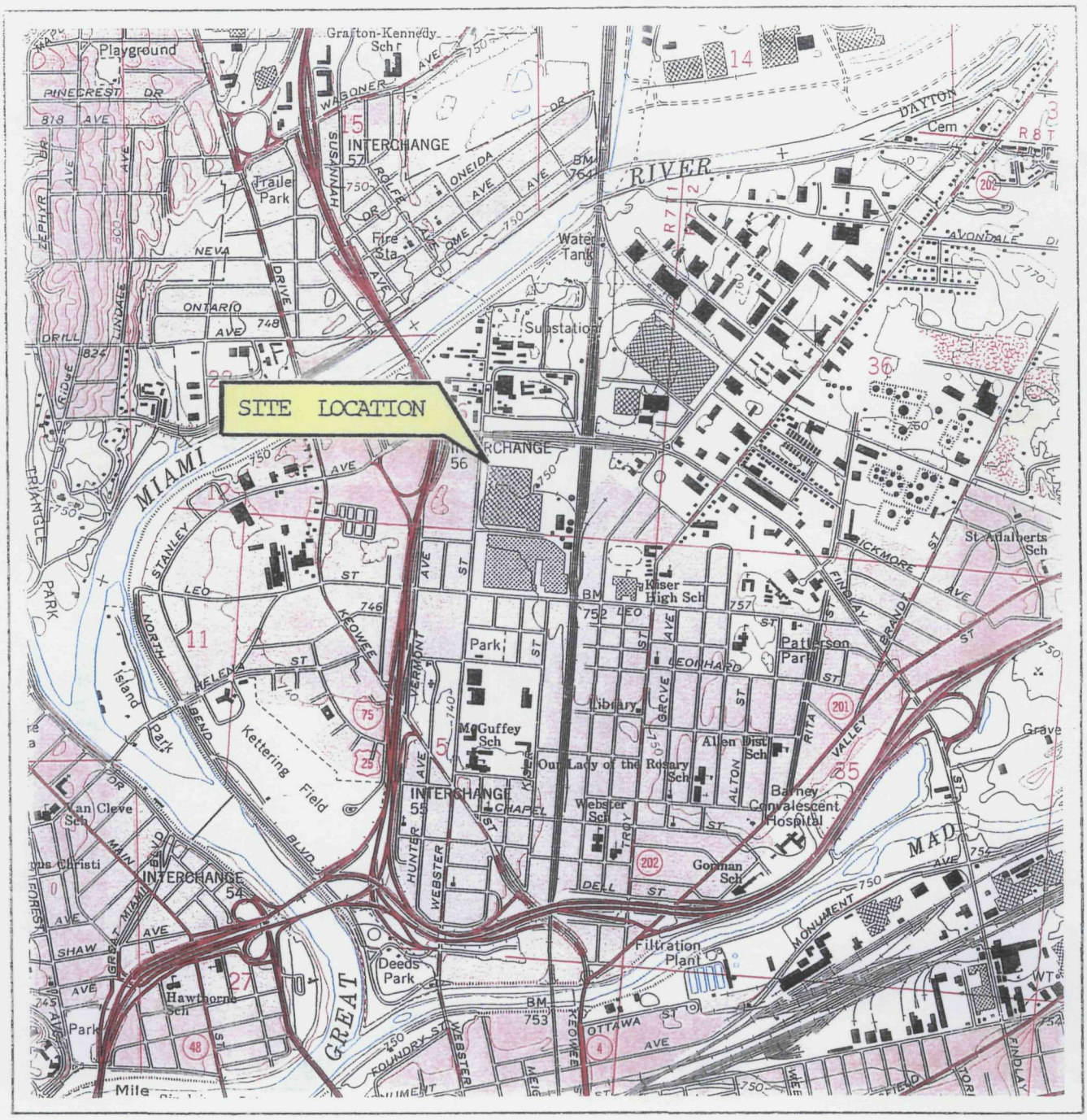
S.U.: STANDARD UNITS

DNI: DID NOT IGNITE IN AIR OR WATER

---: NOT ANALYZED

mg/kg: MILLIGRAM PER KILOGRAM

FIGURES



0 2000

SCALE IN FEET

QUADRANGLE LOCATION

U.S.G.S. TOPOGRAPHIC

DAYTON NORTH, OHIO

7.5 MINUTE QUADRANGLE

DAYTON THERMAL PRODUCTS PLANT

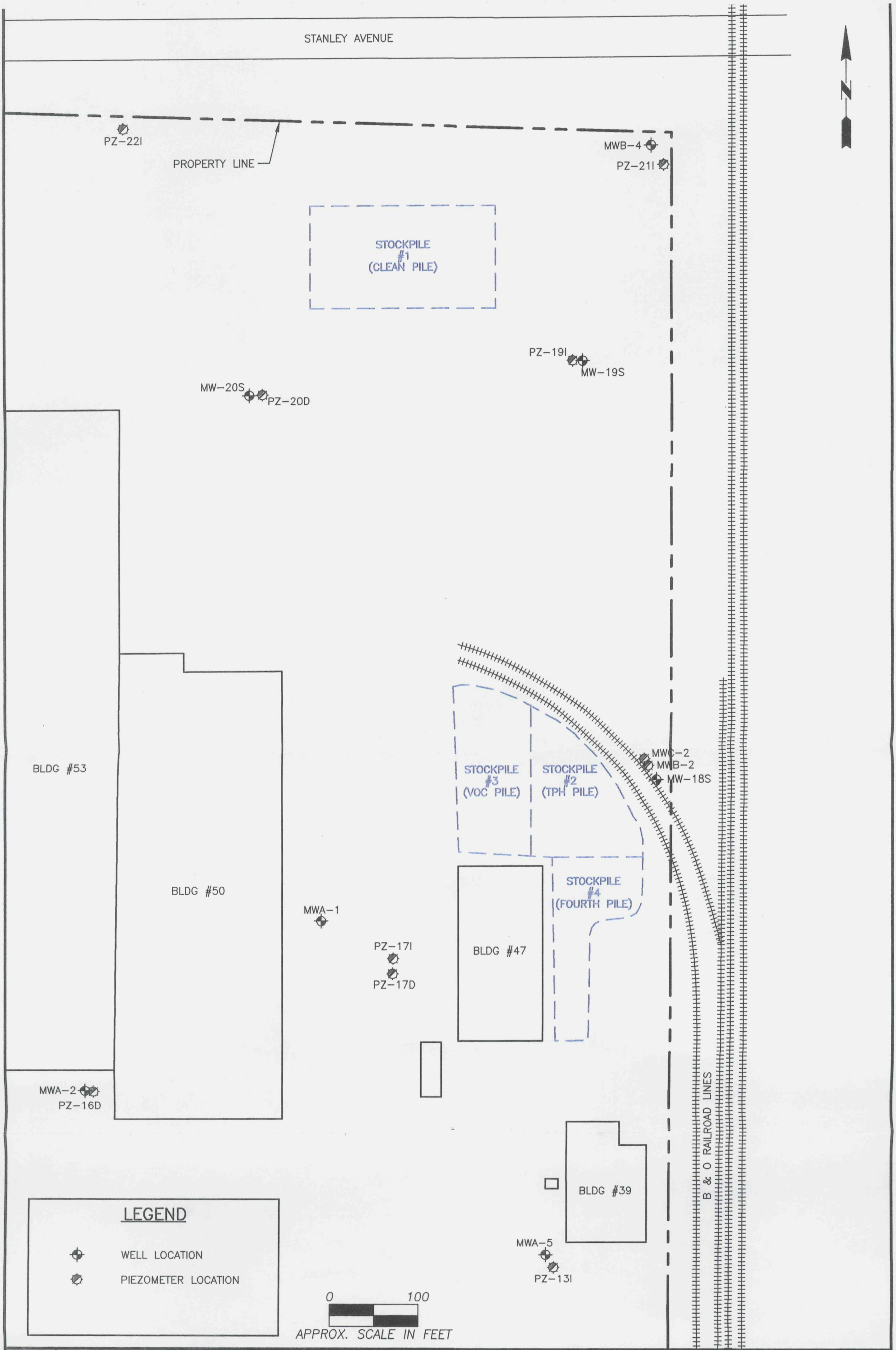
DAYTON, OHIO

AREA LOCATION MAP

DATE	REVISED
FILE:	

PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Services
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(612) 490-1405

DATE: JULY 1997 FIGURE: 1



DATE	REVISED

Prepared By:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Services
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(651) 490-1405

DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

APPROXIMATE LOCATION OF HISTORICAL STOCKPILES

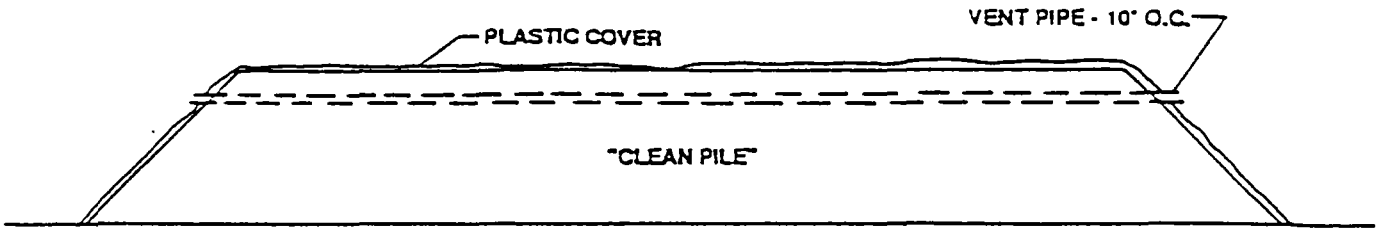
FILE: 3CHDA08V.DWG | *DATE:* OCTOBER 1999 | *FIGURE:* 2

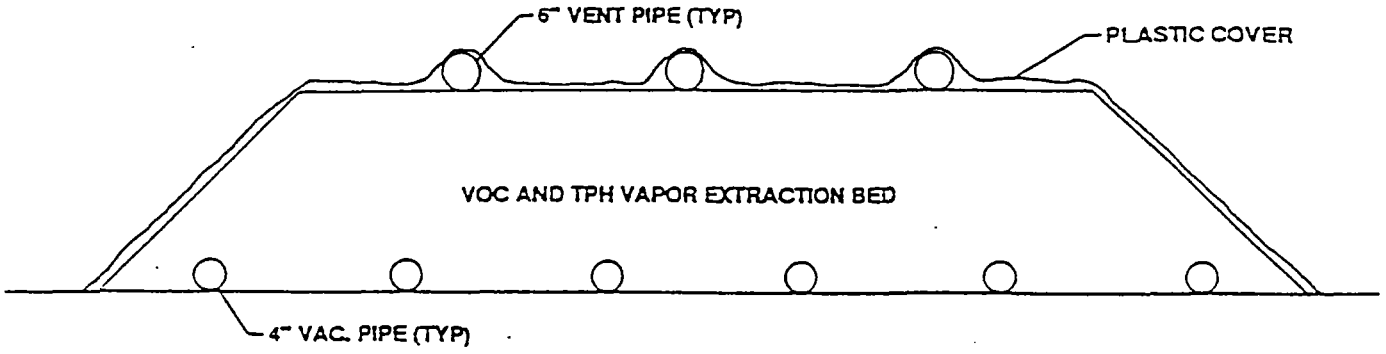
PROJECT MANAGER

DOCUMENT MANAGER

CHECKED BY

DRAWN BY





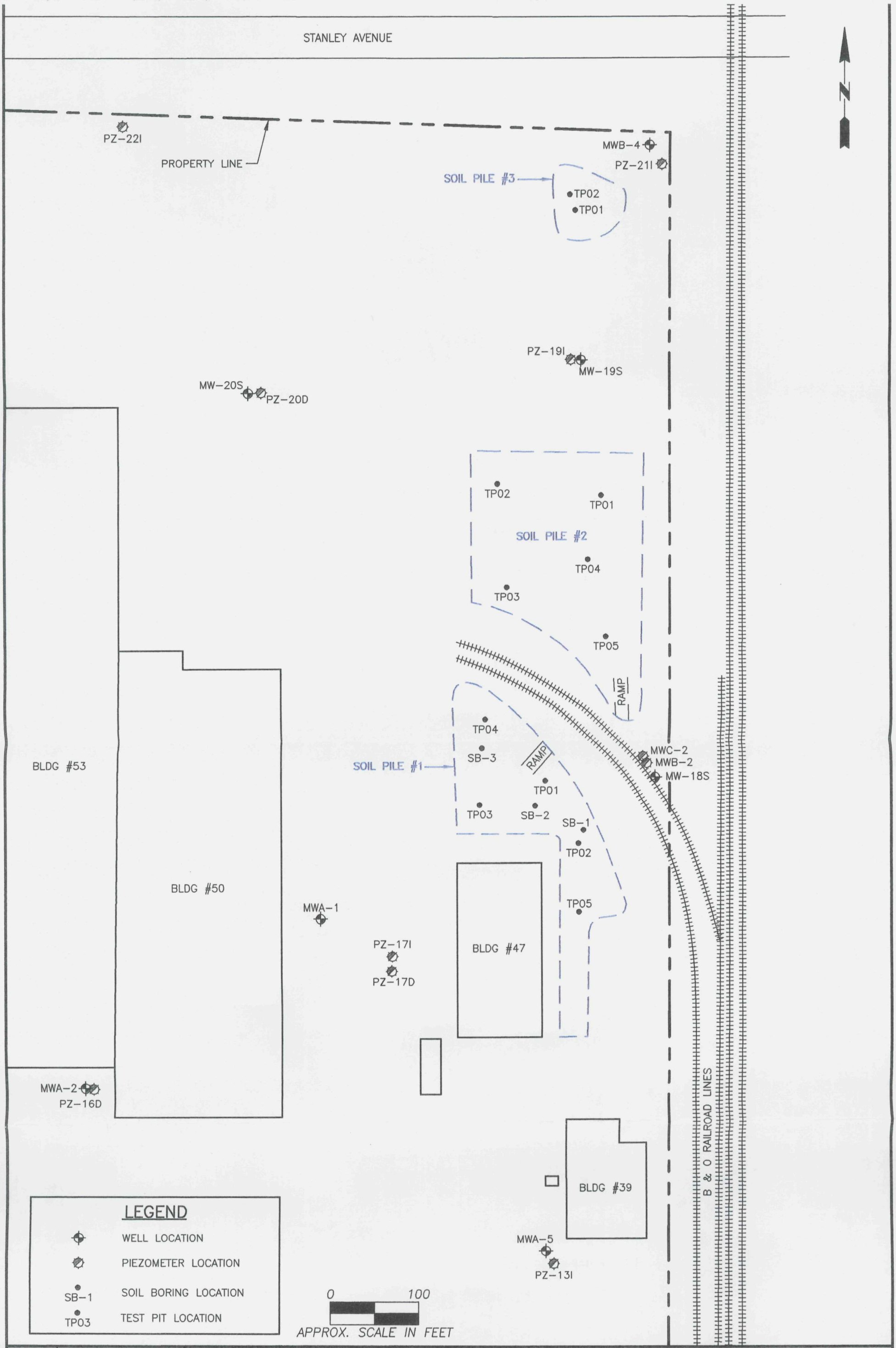
NOTE: Each 750 feet of vacuum pipe is connected by valves and manifold to one blower unit.

APPROXIMATE DIMENSIONS:

"CLEAN" PILE - 210 x 115' x 19' (14,050 cubic yards)
VOC BED - 200' x 75' x 16' (6,070 cubic yards)
TPH BED - 195' x 140' x 32' (13,600 cubic yards)

SCALE IS VARIABLE

John Mathes & Associates, Inc.	
CONCEPTUAL DESIGN "CLEAN" SOIL STOCKPILE AND VAPOR EXTRACTION BEDS	
ACUSTAR DAYTON, OHIO 423023	FIGURE 3



DATE	REVISED

Prepared By:

LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Services
Northpark Corporate Center
1210 W. County Road E, Suite 700
St. Paul, MN 55112
(651) 490-1405

DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

APPROXIMATE LOCATION OF SOIL BORINGS, TEST PITS & CURRENT SOIL PILES

FILE: 3CHDA08V.DWG | *DATE:* OCTOBER 1999 | *FIGURE:* 4

PHOTOGRAPHS

photo 1: Soil Pile #1 looking south east from the vicinity of SP01TP04.

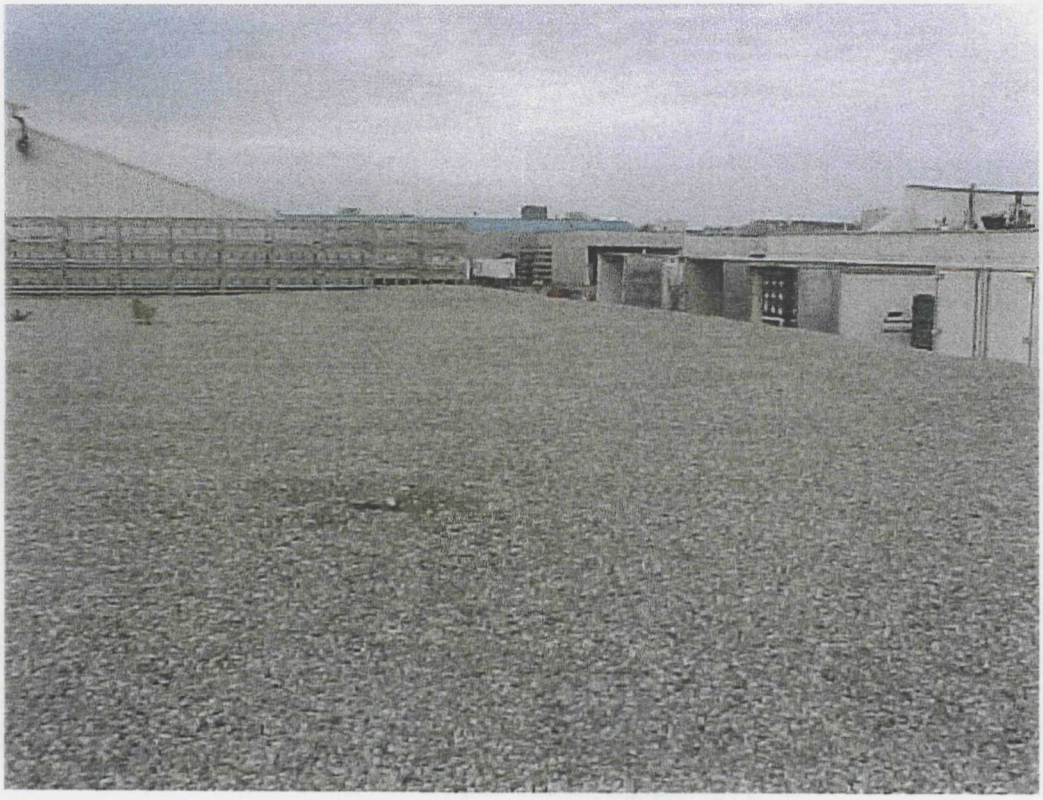


photo 2: Soil Pile #1 looking south from the vicinity of SP01TP04.

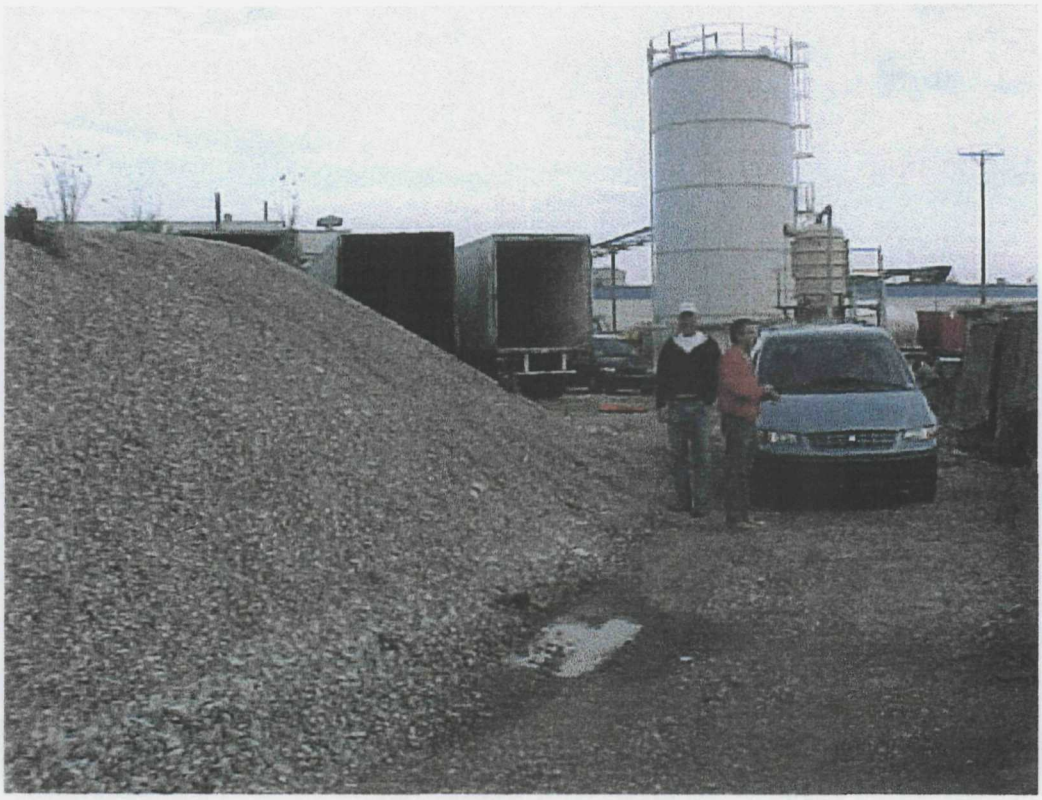


photo 3: Soil Pile #1 embankment on north side of pile.

photo 4: Soil Pile #2 embankment looking east along north side of pile.

photo 5: Soil Pile #2 looking north east from SP01TP04.

photo 6: Soil Pile #2 embankment looking south along the west side of pile.

photo 7: Soil Pile #2 looking south east from SP02TP02.

photo 8: Soil Pile #3 looking south east.

APPENDIX I

Field Data Sampling Sheets and Chain-of-Custody Forms

CHRYSLER CORPORATION

SAMPLING RECORD - SOIL

Consultant:	Chrysler RFA Number	Date:
Leggette Brashears - Graham Inc	YGGP9900241	7/27/99

PROJECT: Dayton Thermal Products. Soil Pile Sampling

LOCATION: 1100 Webster St. Dayton Ohio

SITE CODE: SC001

CHRSYLER PM: Gary Stanczuk

Inspector:

Laboratory: Lancaster

Sampler(s) Initials: MCP

Chain-of-Custody Number: 01507

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Gen)	Rel. Humidity (Apprx)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
0730	90F	Sunny	—	Ø	—	isolated wet

MONITORING Instrument	Model No.
OVM	580B

Sample Number	Depth Range	Time	Type (Grab/Comp.)	Soil Description (color, grain size, etc.)	Sample Device	Container Size/Type	PID Reading
SPØ1-PØ1	9 feet	13:10	Grab	Clay, silt, sand, gravel	Backhoe	4 + 8 oz Glass jars	Ø
SPØ1-PØ2	↓	14:00	↓	↓	↓	↓	↓
SPØ1-PØ3	↓	14:30	↓	↓	↓	↓	↓
SPØ1-PØ4	↓	14:55	↓	↓	↓	↓	↓
SPØ1-PØ5	↓	16:20	↓	↓	↓	↓	↓

Sampling Record Number _____

Referenced on page ___ of Field Book Number _____

Rev. 0

April 22, 1998

CHRYSLER CORPORATION

SAMPLING RECORD - SOIL

Consultant:	Chrysler RFA Number	Date:
Lancaster Brosnan + Graham Inc	YGGP990024	7/28/99

PROJECT: Dayton Thermal Products Soil Pile Sampling

LOCATION: 1600 Webster St. Dayton Ohio

SITE CODE: SC001

CHRSYLER PM: Gary Stanczak

Inspector:

Laboratory: Lancaster

Sampler(s) Initials: MCP

Chain-of-Custody Number: 01507, 04980

Weather/Field Conditions Checklist (Record Major Changes)

Time (24 hr)	Temp (Apprx)	Weather (Gen)	Rel. Humidity (Apprx)	Wind (From) Velocity (Apprx)	Wind (From) Direction (0 - 360)	Ground/Site Surface Conditions
0700	82 F	overcast	—	Ø	—	dry

MONITORING

Instrument	Model No.
OVM	580B

Sample Number	Depth Range	Time	Type (Grab/Comp.)	Soil Description (color, grain size, etc.)	Sample Device	Container Size/Type	PID Reading
SPØ2TPØ1	8 feet	08:30	Grab	clay, silt, sand, + Gravel	Backhoe	4 + 8 oz glass jars	Ø
SPØ2TPØ2	↓	09:00	↓	↓	↓	↓	↓
SPØ2TPØ3	↓	09:25	↓	↓	↓	↓	↓
SPØ2TPØ4	↓	09:50	↓	↓	↓	↓	↓
SPØ2TPØ5	↓	10:10	↓	↓	↓	↓	↓
SPØ3TPØ1	1.5 feet	10:45	↓	silt, sand, gravel + construction debris	Shovel	↓	—
SPØ3TPØ2	4 feet	11:05	↓	↓	Backhoe	↓	—

Sampling Record Number _____

Referenced on page ___ of Field Book Number _____

Rev. 0

April 22, 1998

CHRYSLER CORPORATION

Soil Pile Sampling
NE area of site

Chain-of-Custody

01507 A

~~Company Name~~ Lancaster Labs	Project Name: Dayton Thermal Products	Consultant: Leggette, Brashears, + Graham Inc.
501 ~~Madison Avenue~~ 2425 New Holland Pike	Site Location: Dayton OH	Address: 1210 W. Cnty Rd E. Suite 700
~~Cary, NC 27513~~ Lancaster PA 17601-2914	Site Code: SC001	St. Paul MN 55112
~~Phone Number: 1-800-833-5097~~ (717)656-2300	RFA Number: YGQP9900241	Consultant PM: Ken Vogel
~~Fax Number: (919) 379-4050~~	Chrysler PM. Gary Stanczuk	Phone: (651) 490-1405 Fax: (651) 490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
10 days 14 days
28 days

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

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

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC's 8260B 4oz glass, no preserv.	SVOC 8270C 8oz glass no preserv	TCLP ~~metals~~ non-VOC 1311, 8oz glass, no pres	Pesticides 8081A 8oz glass, no preserv	PCB's 8082 8oz glass, no preserv	React, Ignit., Corros. 8oz glass, no preserv.	MI Metals (total) 8oz glass, no preserv.	Percent moisture 8oz glass, no preserv.		Volatiles pH <2	Metals pH <2	Cyanide pH > 12	Other	Remarks
SPØ1TPØ1	7/27/99	13:10	G	S	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ1TPØ2	↓	14:00	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ1TPØ3	↓	14:30	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ1TPØ4	↓	14:55	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ1TPØ5	↓	16:20	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ2TPØ1	7/28/99	08:30	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ2TPØ2	↓	09:00	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ2TPØ3	↓	09:25	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ2TPØ4	↓	09:50	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm
SPØ2TPØ5	↓	10:10	↓	↓	5	X	X	X	X	X	X	X	X						PID = Ø ppm

Compound List-Parameter/Method/Bottle Type/Preservative

Sampler(s): Mike Plante	Bottles Relinquished under Airbill No. N/A		Samples Relinquished under Airbill No. 812756632672		Temperature (corrected) 3.0C
	Relinquished by: [signature]	Date: 7/28/99	Time: 16:30	Received by:	Date:	Time:	Custody Seal Intact? Yes No
Cooler ID # N/A	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: [signature]	Date: 7-29-99	Time: 0953	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

SDG 241-A

Revision No 1
Created September 23, 1997

CHRYSLER CORPORATION

Soil Pile Sampling
NE area of site.

Chain-of-Custody

04980 A

~~CompuChem~~ Lancaster Labs ~~501 Madison Avenue~~ 2425 New Holland Pike ~~Cary, NC 27513~~ Lancaster, PA 17601-5994 Phone Number: ~~1-800-833-5097~~ (717)656-2300 Fax Number: ~~(919) 379-4050~~	Project Name: Dayton Thermal Products Site Location: Dayton OH Site Code: SC801 RFA Number: YGQP9908241 Chrysler PM: Gary Stanczuk	Consultant: Leggette, Brashears + Graham Inc Address: 1218 W. Cnty Rd. E Suite 700 St. Paul MN 55112 Consultant PM: Ken Vogel Phone (651) 490-1405 Fax (651) 490-1006

Turn-around Time Request:
24 calendar hrs.
48 calendar hrs.
~~10 days~~ 14 days
28 days

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

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

Field Sample Identification	Date Collected	Time Collected	Grab (G) or Composite (C)	Matrix Code	Total # of Containers	VOC 8260B 4oz glass, no preserv.	SVOC 8270C 4oz glass, no preserv.	TCLP non-VOC 1311 4oz glass, no preserv.	Pesticides 8081A 4oz glass, no preserv.	PCB 8082 4oz glass, no preserv.	React, Ignit, Corros. 4oz glass, no preserv.	MI Metals (total) 4oz glass, no preserv.	Percent Moisture 4oz glass, no preserv.		Lab Use Only: Volatiles pH<2	Metals pH<2	Cyanide pH>12	Other	Remarks
SP03TP01	7/28/99	10:45	G	S	8	X	X	X	X	X	X	X	X						
SP03TP02	7/28/99	11:05	G	S	8	X	X	X	X	X	X	X	X						

Sampler(s): Mike Plante

Cooler ID #: N/A

Is RFA sampling complete? Yes No

Bottles Relinquished under Airbill No. N/A

Samples Relinquished under Airbill No. 812756632672

Temperature (corrected) 3.0C

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Custody Seal Intact?
Mike Plante	7/28/99	16:30				Yes No
						Yes No
			Received for Laboratory by:	7/29/99	0852	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

SDG - 241A

Revision No. 1
Created September 23, 1997

APPENDIX II

Lab Analytical Sheets

Lancaster Laboratories
Where quality is a science.

AUG 23 1999

ENTERED IN DATE
BY/DATE 8/26/99
CHECKED BY
DATE 8-29-99

LLI Sample No. SW 3202268
Collected: 07/27/99 at 13:10 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT METHOD DETECTION LIMIT
6292	TCL by 8260 (soil)			See Page 2		
1225	TCL Pesticides in Solids			See Page 3		
4688	TCL SW846 Semivolatiles Soil			See Page 4		
4689	TCL SW846 Semivolatiles/Soil			See Page 5		
1123	Cyanide (Reactivity)	N.D.	100.	mg/kg		
0111	Moisture	14.7	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0394	pH	8.00	0.010			
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					
0496	Corrosivity	See Below	1.0	See Below		
	Corrosivity: The pH of a 1:1 slurry (with deionized water) was 8.00 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.					
0542	Ignitability	See Below		See Below		
	The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
1121	Reactivity	See Below		See Below		
	Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.					
1122	Sulfide (Reactivity)	N.D.	39.	mg/kg		
	The relative percent difference (RPD) between the MS and MSD on the batch associated with this sample was 21%. The acceptable RPD for this analysis is 20%. The MS and MSD were both within specifications.					

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
21:15:36 D 0001 25 138873 676387
885 0.00 00072200 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

Lancaster Laboratories
[illegible] New Holland Pike
PO Box [illegible]
Lancaster, PA 17605-2425
717-656-2300 Fax 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company
See reverse side for explanation of symbols and abbreviations

2216 Rev [illegible]

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3202268
Collected: 07/27/99 at 13:10 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL by 8260 (soil)								
5444	Chloromethane	N.D.		2.	ug/kg	N.D.		2.
5446	Bromomethane	N.D.		3.	ug/kg	N.D.		4.
5445	Vinyl Chloride	N.D.		2.	ug/kg	N.D.		2.
5447	Chloroethane	N.D.		3.	ug/kg	N.D.		4.
5450	Methylene Chloride	9.		2.	ug/kg	10.		2.
6293	Acetone	17.	J	7.	ug/kg	19.	J	8.
6294	Carbon Disulfide	N.D.		3.	ug/kg	N.D.		4.
5449	1,1-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.
5452	1,1-Dichloroethane	9.		1.	ug/kg	11.		1.
5455	Chloroform	N.D.		1.	ug/kg	N.D.		1.
5461	1,2-Dichloroethane	N.D.		2.	ug/kg	N.D.		2.
6296	2-Butanone	N.D.		7.	ug/kg	N.D.		8.
5457	1,1,1-Trichloroethane	2.	J	1.	ug/kg	2.	J	1.
5453	Carbon Tetrachloride	N.D.		1.	ug/kg	N.D.		1.
5465	Bromodichloromethane	N.D.		2.	ug/kg	N.D.		2.
5480	1,1,2,2-Tetrachloroethane	N.D.		1.	ug/kg	N.D.		1.
5463	1,2-Dichloropropane	N.D.		3.	ug/kg	N.D.		4.
6297	trans-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.		1.
5462	Trichloroethene	27.		1.	ug/kg	32.		1.
5470	Dibromochloromethane	N.D.		1.	ug/kg	N.D.		1.
5467	1,1,2-Trichloroethane	N.D.		2.	ug/kg	N.D.		2.
5460	Benzene	N.D.		1.	ug/kg	N.D.		1.
6298	cis-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.		1.
5478	Bromoform	N.D.		1.	ug/kg	N.D.		1.
6299	4-Methyl-2-pentanone	N.D.		3.	ug/kg	N.D.		4.
6300	2-Hexanone	N.D.		3.	ug/kg	N.D.		4.
5468	Tetrachloroethene	2.	J	1.	ug/kg	2.	J	1.
5466	Toluene	N.D.		1.	ug/kg	N.D.		1.
5472	Chlorobenzene	N.D.		1.	ug/kg	N.D.		1.
5474	Ethylbenzene	N.D.		1.	ug/kg	N.D.		1.
5477	Styrene	N.D.		1.	ug/kg	N.D.		1.
6301	Xylene (Total)	N.D.		1.	ug/kg	N.D.		1.
5451	trans-1,2-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.
5454	cis-1,2-Dichloroethene	10.		2.	ug/kg	11.		2.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

LLI Sample No. SW 3202268
Collected: 07/27/99 at 13:10 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL Pesticides in Solids								
1981	Alpha BHC	N.D.		0.67	ug/kg	N.D.		0.79
1982	Beta BHC	N.D.		0.67	ug/kg	N.D.		0.79
1983	Delta BHC	N.D.		0.67	ug/kg	N.D.		0.79
1218	Gamma BHC - Lindane	N.D.		0.67	ug/kg	N.D.		0.79
1219	Heptachlor	N.D.		0.67	ug/kg	N.D.		0.79
1220	Aldrin	N.D.		0.67	ug/kg	N.D.		0.79
1984	Heptachlor Epoxide	1.27	J	0.67	ug/kg	1.49	J	0.79
1989	Endosulfan I	N.D.		0.67	ug/kg	N.D.		0.79
1222	Dieldrin	N.D.		1.3	ug/kg	N.D.		1.5
1985	DDE	N.D.		1.3	ug/kg	N.D.		1.5
1223	Endrin	N.D.		1.3	ug/kg	N.D.		1.5
1990	Endosulfan II	N.D.		1.3	ug/kg	N.D.		1.5
1986	DDD	N.D.		1.3	ug/kg	N.D.		1.5
1991	Endosulfan Sulfate	N.D.		1.3	ug/kg	N.D.		1.5
1221	DDT	N.D.		1.3	ug/kg	N.D.		1.5
3017	Endrin Ketone	N.D.		1.3	ug/kg	N.D.		1.5
1859	Methoxychlor	30.8	J	6.7	ug/kg	36.1	J	7.9
3025	Alpha Chlordane	N.D.		0.67	ug/kg	N.D.		0.79
3026	Gamma Chlordane	1.50	J	0.67	ug/kg	1.76	J	0.79
1988	Toxaphene	N.D.		67.	ug/kg	N.D.		79.
1992	Endrin Aldehyde	N.D.		1.3	ug/kg	N.D.		1.5
1993	PCB-1016	N.D.		33.	ug/kg	N.D.		39.
1994	PCB-1221	N.D.		33.	ug/kg	N.D.		39.
1995	PCB-1232	N.D.		33.	ug/kg	N.D.		39.
1996	PCB-1242	N.D.		33.	ug/kg	N.D.		39.
1997	PCB-1248	N.D.		33.	ug/kg	N.D.		39.
1998	PCB-1254	N.D.		33.	ug/kg	N.D.		39.
1999	PCB-1260	N.D.		33.	ug/kg	N.D.		39.

Due to the nature of the sample matrix, a dilution of the sample was used for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

This analysis was performed at a 10x dilution of the original sample.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3202268
Collected: 07/27/99 at 13:10 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: I0160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL SW846 Semivolatiles Soil						
1185	Phenol	N.D.	67.	ug/kg	N.D.	79.
3753	bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	N.D.	39.
1186	2-Chlorophenol	N.D.	33.	ug/kg	N.D.	39.
3754	1,3-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
1187	1,4-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
3755	1,2-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
4690	2-Methylphenol	N.D.	33.	ug/kg	N.D.	39.
4691	2,2'-oxybis(1-Chloropropane)	N.D.	33.	ug/kg	N.D.	39.
4692	4-Methylphenol	N.D.	67.	ug/kg	N.D.	79.
1188	N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	N.D.	39.
3757	Hexachloroethane	N.D.	33.	ug/kg	N.D.	39.
3758	Nitrobenzene	N.D.	33.	ug/kg	N.D.	39.
3759	Isophorone	N.D.	33.	ug/kg	N.D.	39.
3746	2-Nitrophenol	N.D.	67.	ug/kg	N.D.	79.
3747	2,4-Dimethylphenol	N.D.	67.	ug/kg	N.D.	79.
3760	bis(2-Chloroethoxy)methane	N.D.	67.	ug/kg	N.D.	79.
3748	2,4-Dichlorophenol	N.D.	67.	ug/kg	N.D.	79.
1189	1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
3761	Naphthalene	N.D.	33.	ug/kg	N.D.	39.
4693	4-Chloroaniline	N.D.	33.	ug/kg	N.D.	39.
3762	Hexachlorobutadiene	N.D.	67.	ug/kg	N.D.	79.
1190	4-Chloro-3-methylphenol	N.D.	67.	ug/kg	N.D.	79.
4694	2-Methylnaphthalene	N.D.	33.	ug/kg	N.D.	39.
3763	Hexachlorocyclopentadiene	N.D.	170.	ug/kg	N.D.	200.
3749	2,4,6-Trichlorophenol	N.D.	67.	ug/kg	N.D.	79.
4695	2,4,5-Trichlorophenol	N.D.	67.	ug/kg	N.D.	79.
3764	2-Chloronaphthalene	N.D.	33.	ug/kg	N.D.	39.
4696	2-Nitroaniline	N.D.	33.	ug/kg	N.D.	39.
3766	Dimethylphthalate	N.D.	67.	ug/kg	N.D.	79.
3765	Acenaphthylene	N.D.	33.	ug/kg	N.D.	39.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

Lancaster Laboratories
2425 New Holland Pike
PO Box 2425
Lancaster, PA 17605-2425
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Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3202268
Collected: 07/27/99 at 13:10 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles/Soil								
4697	3-Nitroaniline	N.D.		67.	ug/kg	N.D.		79.
1191	Acenaphthene	39.	J	33.	ug/kg	46.	J	39.
3750	2,4-Dinitrophenol	N.D.		230.	ug/kg	N.D.		270.
1192	4-Nitrophenol	N.D.		170.	ug/kg	N.D.		200.
4698	Dibenzofuran	N.D.		33.	ug/kg	N.D.		39.
1193	2,4-Dinitrotoluene	N.D.		67.	ug/kg	N.D.		79.
3767	2,6-Dinitrotoluene	N.D.		33.	ug/kg	N.D.		39.
3770	Diethylphthalate	N.D.		67.	ug/kg	N.D.		79.
3769	4-Chlorophenyl-phenylether	N.D.		33.	ug/kg	N.D.		39.
3768	Fluorene	48.	J	33.	ug/kg	56.	J	39.
4700	4-Nitroaniline	N.D.		67.	ug/kg	N.D.		79.
3751	4,6-Dinitro-2-methylphenol	N.D.		170.	ug/kg	N.D.		200.
3772	N-Nitrosodiphenylamine	N.D.		33.	ug/kg	N.D.		39.
3773	4-Bromophenyl-phenylether	N.D.		67.	ug/kg	N.D.		79.
3774	Hexachlorobenzene	N.D.		33.	ug/kg	N.D.		39.
1194	Pentachlorophenol	N.D.		170.	ug/kg	N.D.		200.
3775	Phenanthrene	710.		33.	ug/kg	830.		39.
3776	Anthracene	200.	J	33.	ug/kg	230.	J	39.
4702	Carbazole	87.	J	33.	ug/kg	100.	J	39.
3777	Di-n-butylphthalate	N.D.		67.	ug/kg	N.D.		79.
3778	Fluoranthene	1,200.		33.	ug/kg	1,400.		39.
1195	Pyrene	1,100.		33.	ug/kg	1,200.		39.
3780	Butylbenzylphthalate	N.D.		67.	ug/kg	N.D.		79.
3783	3,3'-Dichlorobenzidine	N.D.		67.	ug/kg	N.D.		79.
3781	Benzo(a)anthracene	580.		33.	ug/kg	680.		39.
3784	bis(2-Ethylhexyl)phthalate	N.D.		67.	ug/kg	N.D.		79.
3782	Chrysene	580.		33.	ug/kg	680.		39.
3785	Di-n-octylphthalate	N.D.		67.	ug/kg	N.D.		79.
3786	Benzo(b)fluoranthene	560.		33.	ug/kg	660.		39.
3787	Benzo(k)fluoranthene	240.	J	33.	ug/kg	280.	J	39.
3788	Benzo(a)pyrene	400.		33.	ug/kg	470.		39.
3789	Indeno(1,2,3-cd)pyrene	250.	J	33.	ug/kg	290.	J	39.
3790	Dibenz(a,h)anthracene	75.	J	33.	ug/kg	88.	J	39.
3791	Benzo(g,h,i)perylene	210.	J	33.	ug/kg	250.	J	39.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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See reverse side for explanation of symbols and abbreviations.

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LLI Sample No. SW 3202268
Collected: 07/27/99 at 13:10 by MP

Submitted: 07/29/99

Account No: I0160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
1TP01 SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6292	TCL by 8260 (soil)	SW-846 8260B	1		08/03/99 1458	Michael E. McAdams
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		07/31/99 0720	Ginelle L. Haines
1225	TCL Pesticides in Solids	SW-846 8081A/8082	1		08/04/99 0453	Douglas D. Seitz
0381	BNA Soil Extraction	SW-846 3550B	1		08/03/99 2000	Karen L. Beyer
4688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1		08/05/99 0600	Michele A. Jarosick
4689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1		08/05/99 0600	Michele A. Jarosick
1123	Cyanide (Reactivity)	SW-846 9012	1		08/05/99 2153	Venia M. McFadden
0111	Moisture	EPA 160.3 modified	1		08/01/99 1929	Gabriel Agosto
0394	pH	SW-846 9045C (modified)	1		08/03/99 2200	Luz M. Groff
0542	Ignitability	40 CFR 261.21	1		08/04/99 1130	Catherine L. Cammauf
1121	Reactivity	SW-846 Chapter 7.3	1		08/05/99 0805	Susan E. Hibner
1122	Sulfide (Reactivity)	SW-846 9034	1		08/05/99 0805	Susan E. Hibner

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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6292 TCL by 8260 (soil)		Batch: E992121AD									
5444 Chloromethane											
2.	ug/kg	N.D.		105	108	2	104			48	130
5446 Bromomethane											
3.	ug/kg	N.D.		99	108	9	99			46	134
5445 Vinyl Chloride											
2.	ug/kg	N.D.		108	113	5	100			60	127
5447 Chloroethane											
3.	ug/kg	N.D.		99	104	5	96			30	142
5450 Methylene Chloride											
2.	ug/kg	N.D.		9	1	6	104			69	126
6293 Acetone											
7.	ug/kg	N.D.		104	99	6	78			46	133
6294 Carbon Disulfide											
3.	ug/kg	N.D.		96	97	1	88			52	165
5449 1,1-Dichloroethene											
2.	ug/kg	N.D.		112	112	0	103			69	146
5452 1,1-Dichloroethane											
1.	ug/kg	N.D.		113	117	3	114			81	130
5455 Chloroform											
1.	ug/kg	N.D.		107	114	7	113			82	123
5461 1,2-Dichloroethane											
2.	ug/kg	N.D.		103	109	6	115			81	123
6296 2-Butanone											
7.	ug/kg	N.D.		114	117	2	110			47	153
5457 1,1,1-Trichloroethane											
1	ug/kg	N.D.		110	115	4	120			84	132
5458 Carbon Tetrachloride											
1.	ug/kg	N.D.		109	116	6	121			78	129
5465 Bromodichloromethane											
2.	ug/kg	N.D.		106	112	6	114			80	121
5480 1,1,2,2-Tetrachloroethane											
1.	ug/kg	N.D.		108	108	0	101			70	124
5463 1,2-Dichloropropane											
3.	ug/kg	N.D.		113	117	4	114			77	127
6297 trans-1,3-Dichloropropene											
1.	ug/kg	N.D.		103	108	4	105			69	131
5462 Trichloroethene											
1.	ug/kg	N.D.		111	116	5	112			81	123
5470 Dibromochloromethane											
1.	ug/kg	N.D.		106	109	3	112			80	120
5467 1,1,2-Trichloroethane											
2.	ug/kg	N.D.		111	110	1	108			81	124
5460 Benzene											
1.	ug/kg	N.D.		116	119	2	113			77	126
6298 cis-1,3-Dichloropropene											
1.	ug/kg	N.D.		110	115	4	112			79	126

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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5478 Bromoform	1.	ug/kg	N.D.		102	101	1	107			73	120
6299 4-Methyl-2-pentanone	3.	ug/kg	N.D.		102	108	6	110			63	123
6300 2-Hexanone	3.	ug/kg	N.D.		105	107	1	104			60	128
5468 Tetrachloroethene	1.	ug/kg	N.D.		115	120	4	114			83	150
5466 Toluene	1.	ug/kg	N.D.		114	113	1	105			74	128
5472 Chlorobenzene	1.	ug/kg	N.D.		114	112	2	108			81	121
5474 Ethylbenzene	1.	ug/kg	N.D.		117	116	0	112			86	129
5477 Styrene	1.	ug/kg	N.D.		116	114	2	108			84	127
6301 Xylene (Total)	1.	ug/kg	N.D.		117	116	1	111			88	128
5451 trans-1,2-Dichloroethene	2.	ug/kg	N.D.		115	119	4	111			73	126
5454 cis-1,2-Dichloroethene	2.	ug/kg	N.D.		113	117	3	112			84	123
225 TCL Pesticides in Solids			Batch: 992110011A									
1981 Alpha BHC	0.67	ug/kg	N.D.		84	85	1	102			38	156
1982 Beta BHC	0.67	ug/kg	N.D.		94	93	1	97			40	153
1983 Delta BHC	0.67	ug/kg	N.D.		76	76	0	97			44	145
1218 Gamma BHC - Lindane	0.67	ug/kg	N.D.		84	83	1	102			51	142
1219 Heptachlor	0.67	ug/kg	N.D.		85	81	5	100			59	140
1220 Aldrin	0.67	ug/kg	N.D.		105	100	4	100			55	132
1984 Heptachlor Epoxide	0.67	ug/kg	N.D.		93	91	2	99			58	129
1989 Endosulfan I	0.67	ug/kg	N.D.		185	185	0	81			56	123
1222 Dieldrin	1.3	ug/kg	N.D.		86	85	1	90			63	133
1985 DDE	1.3	ug/kg	N.D.		102	101	1	101			47	159
1223 Endrin	1.3	ug/kg	N.D.		105	104	0	112			70	150
1990 Endosulfan II	1.3	ug/kg	N.D.		44	51	16	89			46	138

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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1986 DDD											
1.3	ug/kg	N.D.		108	107	1	101			53	141
1991 Endosulfan Sulfate											
1.3	ug/kg	N.D.		88	84	5	108			40	150
1221 DDT											
1.3	ug/kg	N.D.		107	107	0	110			60	138
3017 Endrin Ketone											
1.3	ug/kg	N.D.		90	90	0	92			62	137
1859 Methoxychlor											
6.7	ug/kg	N.D.		132	124	6	128			52	174
3025 Alpha Chlordane											
0.67	ug/kg	N.D.		151	149	1	100			68	141
3026 Gamma Chlordane											
0.67	ug/kg	N.D.		100	97	2	97			65	129
1988 Toxaphene											
67.	ug/kg	N.D.									
1992 Endrin Aldehyde											
1.3	ug/kg	N.D.		82	82	1	83			75	125
1993 PCB-1016											
33.	ug/kg	N.D.									
1994 PCB-1221											
33.	ug/kg	N.D.									
1995 PCB-1232											
33.	ug/kg	N.D.									
1996 PCB-1242											
33.	ug/kg	N.D.									
1997 PCB-1248											
33.	ug/kg	N.D.									
1998 PCB-1254											
33.	ug/kg	N.D.									
1999 PCB-1260											
33.	ug/kg	N.D.									
588 TCL SW846 Semivolatiles Soil		Batch: 99215SLD026									
1185 Phenol											
67.	ug/kg	N.D.		63	49	24	87			40	128
3753 bis(2-Chloroethyl)ether											
33.	ug/kg	N.D.		58	42	32	91			38	131
1186 2-Chlorophenol											
33.	ug/kg	N.D.		62	47	28	90			44	127
3754 1,3-Dichlorobenzene											
33.	ug/kg	N.D.		44	28	44	87			31	121
1187 1,4-Dichlorobenzene											
33.	ug/kg	N.D.		44	29	43	86			36	119
3755 1,2-Dichlorobenzene											
33.	ug/kg	N.D.		48	31	42	88			39	120
4690 2-Methylphenol											
33.	ug/kg	N.D.		61	48	25	89			42	127

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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4691 2,2'-oxybis(1-Chloropropane)											
33.	ug/kg	N.D.		54	38	34	88			38	151
4692 4-Methylphenol											
67.	ug/kg	N.D.		62	49	23	89			33	139
1188 N-Nitroso-di-n-propylamine											
33.	ug/kg	N.D.		64	49	26	92			39	142
3757 Hexachloroethane											
33.	ug/kg	N.D.		44	28	44	89			29	128
3758 Nitrobenzene											
33.	ug/kg	N.D.		59	44	29	91			42	131
3759 Isophorone											
33.	ug/kg	N.D.		61	47	25	89			46	130
3746 2-Nitrophenol											
67.	ug/kg	N.D.		65	50	28	97			36	141
3747 2,4-Dimethylphenol											
67.	ug/kg	N.D.		60	48	22	90			40	132
3760 bis(2-Chloroethoxy)methane											
67.	ug/kg	N.D.		63	49	26	93			44	127
3748 2,4-Dichlorophenol											
67.	ug/kg	N.D.		64	50	23	91			41	128
1189 1,2,4-Trichlorobenzene											
33.	ug/kg	N.D.		54	39	32	92			44	121
3761 Naphthalene											
33.	ug/kg	N.D.		55	41	31	89			34	133
4693 4-Chloroaniline											
33.	ug/kg	N.D.		50	41	18	42			1	113
3762 Hexachlorobutadiene											
67.	ug/kg	N.D.		52	36	36	92			39	133
1190 4-Chloro-3-methylphenol											
67.	ug/kg	N.D.		65	52	22	93			47	135
4694 2-Methylnaphthalene											
33.	ug/kg	N.D.		59	45	27	90			43	131
3763 Hexachlorocyclopentadiene											
170.	ug/kg	N.D.		35	24	38	59			1	141
3749 2,4,6-Trichlorophenol											
67.	ug/kg	N.D.		64	52	22	90			39	141
4695 2,4,5-Trichlorophenol											
67.	ug/kg	N.D.		64	52	21	87			45	136
3764 2-Chloronaphthalene											
33.	ug/kg	N.D.		64	51	23	92			48	127
4696 2-Nitroaniline											
33.	ug/kg	N.D.		71	58	21	101			25	139
3766 Dimethylphthalate											
67.	ug/kg	N.D.		67	55	21	95			53	127
3765 Acenaphthylene											
33.	ug/kg	N.D.		62	50	21	89			44	126

589 TCL SW846 Semivolatiles/Soil Batch: 99215SLD026

Lancaster Laboratories
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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MD.	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4697 3-Nitroaniline											
67.	ug/kg	N.D.		61	52	17	66			18	117
1191 Acenaphthene											
33.	ug/kg	N.D.		63	51	21	91			47	127
3750 2,4-Dinitrophenol											
230.	ug/kg	N.D.		35	26	29	55			1	133
1192 4-Nitrophenol											
170.	ug/kg	N.D.		60	46	27	83			31	161
4698 Dibenzofuran											
33.	ug/kg	N.D.		66	54	21	93			53	125
1193 2,4-Dinitrotoluene											
67.	ug/kg	N.D.		67	54	21	95			50	131
3767 2,6-Dinitrotoluene											
33.	ug/kg	N.D.		71	58	21	103			53	130
3770 Diethylphthalate											
67.	ug/kg	N.D.		68	56	20	97			54	130
3769 4-Chlorophenyl-phenylether											
33.	ug/kg	N.D.		67	54	21	92			47	132
3768 Fluorene											
33.	ug/kg	N.D.		65	53	20	92			42	142
4700 4-Nitroaniline											
67.	ug/kg	N.D.		64	52	20	86			30	127
3751 4,6-Dinitro-2-methylphenol											
170	ug/kg	N.D.		52	37	33	76			14	143
3772 N-Nitrosodiphenylamine											
33.	ug/kg	N.D.		70	57	21	97			49	130
3773 4-Bromophenyl-phenylether											
67.	ug/kg	N.D.		70	57	22	96			53	132
3774 Hexachlorobenzene											
33.	ug/kg	N.D.		70	56	22	95			40	144
1194 Pentachlorophenol											
170.	ug/kg	N.D.		34	22	41	61			20	132
3775 Phenanthrene											
33.	ug/kg	N.D.		69	45	30	94			42	141
3776 Anthracene											
33.	ug/kg	N.D.		69	52	25	95			45	132
4702 Carbazole											
33.	ug/kg	N.D.		70	55	23	94			48	129
3777 Di-n-butylphthalate											
67.	ug/kg	N.D.		71	56	23	97			54	133
3778 Fluoranthene											
33.	ug/kg	N.D.		64	36	33	92			37	142
1195 Pyrene											
33.	ug/kg	N.D.		67	43	28	103			34	145
3780 Butylbenzylphthalate											
67.	ug/kg	N.D.		72	59	21	104			47	138
3783 3,3'-Dichlorobenzidine											
67.	ug/kg	N.D.		58	50	15	69			2	132
3781 Benzo(a)anthracene											
33.	ug/kg	N.D.		69	47	29	94			44	133

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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
3784 bis(2-Ethylhexyl)phthalate											
67.	ug/kg	N.D.		77	62	21	109			41	145
3782 Chrysene											
33.	ug/kg	N.D.		69	47	29	96			42	136
3785 Di-n-octylphthalate											
67.	ug/kg	N.D.		83	67	21	117			43	156
3786 Benzo(b)fluoranthene											
33.	ug/kg	N.D.		63	45	24	94			35	140
3787 Benzo(k)fluoranthene											
33.	ug/kg	N.D.		71	54	25	99			38	145
3788 Benzo(a)pyrene											
33.	ug/kg	N.D.		67	50	23	98			38	141
3789 Indeno(1,2,3-cd)pyrene											
33.	ug/kg	N.D.		66	53	20	98			30	153
3790 Dibenz(a,h)anthracene											
33.	ug/kg	N.D.		70	56	21	97			32	151
3791 Benzo(g,h,i)perylene											
33.	ug/kg	N.D.		68	53	22	97			29	151
1123 Cyanide (Reactivity)		Batch: 99217104201									
100.	mg/kg	N.D.	0 (1)	3	2	37	105			88	121
111 Moisture		Batch: 992130091820002A									
0.50	% by wt.		1				100	100	0	99	101
0394 pH		Batch: 992150239039400A									
0.010			0				99	100	1	98	102
542 Ignitability		Batch: 992160286054200A									
1121 Reactivity		Batch: 992170416112100A									
	see below										
122 Sulfide (Reactivity)		Batch: 992170416112100A									
39.	mg/kg	N.D.	0 (1)	24	29	21	85			80	120

.) The result for one or both determinations was less than five times the LOQ.

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LLI Sample No. 3202268
SP01TP01 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
1225 TCL Pesticides in Solids	TCX	109	30	163
	DCB	158	42	184
4688 TCL SW846 Semivolatiles Soil	Phenol-d6	83	47	127
	2-Flphenol	78	47	126
	2,4,6-TBP	82	36	150
4689 TCL SW846 Semivolatiles/Soil	Nitrobz-d5	74	45	128
	2-Fbiphnyl	76	49	123
	Tphenyld14	100	40	146
6292 TCL by 8260 (soil)	DBFM	111	80	120
	d4-1,2-DCA	104	80	120
	d8-toluene	103	81	117
	4-BFB	100	74	121

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AUG 2 ? 1999

LLI Sample No. TL 3202269
Collected: 07/27/99 at 13:10 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP01 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

+ Arc View
MCL 8/26/99
8-27-99

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
1746	Barium	0.52	0.0015	mg/l
1751	Chromium	N.D.	0.0054	mg/l
1753	Copper	N.D.	0.0058	mg/l
1755	Lead	N.D.	0.023	mg/l
1766	Silver	N.D.	0.0057	mg/l
7035	Arsenic TR	N.D.	0.0070	mg/l
7036	Selenium TR	0.0074 J	0.0059	mg/l
7049	Cadmium TR	0.0020	0.00063	mg/l
7072	Zinc TR	0.050	0.0036	mg/l
0259	Mercury	N.D.	0.000042	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, December, 1994). A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
21:18:11 D 0001 25 138873 676387
885 0.00 00013600 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

MEMBER ASIL
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See reverse side for explanation of symbols and abbreviations.
2216 Rev 3.2

Lancaster Laboratories
Where quality is a science.

LLI Sample No. TL 3202269
Collected: 07/27/99 at 13:10 by MP

Submitted: 07/29/99

Account No: 10160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SP01TP01 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1746	Barium	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
1751	Chromium	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
1753	Copper	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
1755	Lead	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
1765	Silver	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
5705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1		08/03/99 2139	Marie D. Kimmel
7035	Arsenic TR	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
7036	Selenium TR	SW-846 6010B	1		08/16/99 0448	Donna R. Sackett
7049	Cadmium TR	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
7072	Zinc TR	SW-846 6010B	1		08/10/99 2300	Donna R. Sackett
0259	Mercury	SW-846 7470A	1		08/04/99 1651	Nelli S. Markaryan
5713	WW SW846 Hg Digest	SW-846 7470A	1		08/03/99 2115	Nelli S. Markaryan
0947	TCLP Non-volatile Extraction	SW-846 1311	1		08/02/99 1500	James D. Cowan

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3202269
SP01TP01 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1746 Barium			Batch: 992155705003									
	0.0015	mg/l	N.D.	0 (1)	84	85	1	100			80	120
751 Chromium			Batch: 992155705003									
	0.0054	mg/l	N.D.	0 (1)	83	84	2	102			80	120
1753 Copper			Batch: 992155705003									
	0.0058	mg/l	N.D.	3	85	85	0	99			80	120
755 Lead			Batch: 992155705003									
	0.023	mg/l	N.D.	0 (1)	82	83	1	100			80	120
1766 Silver			Batch: 992155705003									
	0.0057	mg/l	N.D.	0 (1)	77	78	1	98			80	120
035 Arsenic TR			Batch: 992155705003									
	0.0070	mg/l	N.D.	2	81	81	0	97			80	120
7036 Selenium TR			Batch: 992155705003									
	0.0059	mg/l	N.D.	0 (1)	84	82	2	100			80	120
049 Cadmium TR			Batch: 992155705003									
	0.00063	mg/l	N.D.	0 (1)	84	85	1	100			80	120
072 Zinc TR			Batch: 992155705003									
	0.0036	mg/l	N.D.	0 (1)	85	86	1	99			80	120
0259 Mercury			Batch: 992155713003									
	0.000042	mg/l	N.D.	0 (1)	80	76	6	102			80	120

) The result for one or both determinations was less than five times the LOQ.

Lancaster Laboratories
Where quality is a science.

AUG 2 ? 1999

LLI Sample No. SW 3202270
Collected: 07/27/99 at 14:00 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

+ Arc View
MCL 8/26/99
NLH 8-27-99

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	AS RECEIVED METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	DRY WEIGHT METHOD DETECTION LIMIT
6292	TCL by 8260 (soil)			See Page 2		
1225	TCL Pesticides in Solids			See Page 3		
4688	TCL SW846 Semivolatiles Soil			See Page 4		
4689	TCL SW846 Semivolatiles/Soil			See Page 5		
1123	Cyanide (Reactivity)	N.D.	100.	mg/kg		
0111	Moisture	14.7	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0394	pH	8.07	0.010			
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					
0496	Corrosivity	See Below		See Below		
	Corrosivity: The pH of a 1:1 slurry (with deionized water) was 8.07 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.					
0542	Ignitability	See Below		See Below		
	The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
1121	Reactivity	See Below		See Below		
	Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.					
1122	Sulfide (Reactivity)	N.D.	39.	mg/kg		
	The relative percent difference (RPD) between the MS and MSD on the batch associated with this sample was 21%. The acceptable RPD for this analysis is 20%. The MS and MSD were both within specifications.					

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
21:18:36 D 0001 25 138873 676387
885 0.00 00072200 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3202270
Collected: 07/27/99 at 14:00 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL by 8260 (soil)								
5444	Chloromethane	N.D.		2.	ug/kg	N.D.		2.
5446	Bromomethane	N.D.		3.	ug/kg	N.D.		4.
5445	Vinyl Chloride	N.D.		2.	ug/kg	N.D.		2.
5447	Chloroethane	N.D.		3.	ug/kg	N.D.		4.
5450	Methylene Chloride	3.	J	2.	ug/kg	3.	J	2.
6293	Acetone	N.D.		7.	ug/kg	N.D.		8.
6294	Carbon Disulfide	N.D.		3.	ug/kg	N.D.		4.
5449	1,1-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.
5452	1,1-Dichloroethane	2.	J	1.	ug/kg	2.	J	1.
5455	Chloroform	N.D.		1.	ug/kg	N.D.		1.
5461	1,2-Dichloroethane	N.D.		2.	ug/kg	N.D.		2.
6296	2-Butanone	N.D.		7.	ug/kg	N.D.		8.
5457	1,1,1-Trichloroethane	1.	J	1.	ug/kg	2.	J	1.
5458	Carbon Tetrachloride	N.D.		1.	ug/kg	N.D.		1.
5465	Bromodichloromethane	N.D.		2.	ug/kg	N.D.		2.
5480	1,1,2,2-Tetrachloroethane	N.D.		1.	ug/kg	N.D.		1.
5463	1,2-Dichloropropane	N.D.		3.	ug/kg	N.D.		4.
6297	trans-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.		1.
5462	Trichloroethene	5.	J	1.	ug/kg	5.	J	1.
5470	Dibromochloromethane	N.D.		1.	ug/kg	N.D.		1.
5467	1,1,2-Trichloroethane	N.D.		2.	ug/kg	N.D.		2.
5460	Benzene	N.D.		1.	ug/kg	N.D.		1.
6298	cis-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.		1.
5478	Bromoform	N.D.		1.	ug/kg	N.D.		1.
6299	4-Methyl-2-pentanone	N.D.		3.	ug/kg	N.D.		4.
6300	2-Hexanone	N.D.		3.	ug/kg	N.D.		4.
5468	Tetrachloroethene	1.	J	1.	ug/kg	2.	J	1.
5466	Toluene	N.D.		1.	ug/kg	N.D.		1.
5472	Chlorobenzene	N.D.		1.	ug/kg	N.D.		1.
5474	Ethylbenzene	N.D.		1.	ug/kg	N.D.		1.
5477	Styrene	N.D.		1.	ug/kg	N.D.		1.
6301	Xylene (Total)	N.D.		1.	ug/kg	N.D.		1.
5451	trans-1,2-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.
5454	cis-1,2-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

Lancaster Laboratories
[illegible] New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations

LLI Sample No. SW 3202270
Collected: 07/27/99 at 14:00 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL Pesticides in Solids						
1981	Alpha BHC	N.D.	0.67	ug/kg	N.D.	0.79
1982	Beta BHC	N.D.	0.67	ug/kg	N.D.	0.79
1983	Delta BHC	N.D.	0.67	ug/kg	N.D.	0.79
1218	Gamma BHC - Lindane	N.D.	0.67	ug/kg	N.D.	0.79
1219	Heptachlor	N.D.	0.67	ug/kg	N.D.	0.79
1220	Aldrin	N.D.	0.67	ug/kg	N.D.	0.79
1984	Heptachlor Epoxide	N.D.	0.67	ug/kg	N.D.	0.79
1989	Endosulfan I	N.D.	0.67	ug/kg	N.D.	0.79
1222	Dieldrin	N.D.	1.3	ug/kg	N.D.	1.5
1985	DDE	N.D.	1.3	ug/kg	N.D.	1.5
1223	Endrin	N.D.	1.3	ug/kg	N.D.	1.5
1990	Endosulfan II	N.D.	1.3	ug/kg	N.D.	1.5
1986	DDD	N.D.	1.3	ug/kg	N.D.	1.5
1991	Endosulfan Sulfate	N.D.	1.3	ug/kg	N.D.	1.5
1221	DDT	N.D.	1.3	ug/kg	N.D.	1.5
3017	Endrin Ketone	N.D.	1.3	ug/kg	N.D.	1.5
1859	Methoxychlor	N.D.	6.7	ug/kg	N.D.	7.9
3025	Alpha Chlordane	N.D.	0.67	ug/kg	N.D.	0.79
3026	Gamma Chlordane	N.D.	0.67	ug/kg	N.D.	0.79
1988	Toxaphene	N.D.	67.	ug/kg	N.D.	79.
1992	Endrin Aldehyde	N.D.	1.3	ug/kg	N.D.	1.5
1993	PCB-1016	N.D.	33.	ug/kg	N.D.	39.
1994	PCB-1221	N.D.	33.	ug/kg	N.D.	39.
1995	PCB-1232	N.D.	33.	ug/kg	N.D.	39.
1996	PCB-1242	N.D.	33.	ug/kg	N.D.	39.
1997	PCB-1248	N.D.	33.	ug/kg	N.D.	39.
1998	PCB-1254	N.D.	33.	ug/kg	N.D.	39.
1999	PCB-1260	N.D.	33.	ug/kg	N.D.	39.

This analysis was performed at a 10x dilution of the original sample.

Due to the nature of the sample matrix, a dilution of the sample was used for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

Lancaster Laboratories
2425 New Holland Pike
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P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/15/99

SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL SW846 Semivolatiles Soil						
1185	Phenol	N.D.	67.	ug/kg	N.D.	79.
3753	bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	N.D.	39.
1186	2-Chlorophenol	N.D.	33.	ug/kg	N.D.	39.
3754	1,3-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
1187	1,4-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
3755	1,2-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
4690	2-Methylphenol	N.D.	33.	ug/kg	N.D.	39.
4691	2,2'-oxybis(1-Chloropropane)	N.D.	33.	ug/kg	N.D.	39.
4692	4-Methylphenol	N.D.	67.	ug/kg	N.D.	79.
1188	N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	N.D.	39.
3757	Hexachloroethane	N.D.	33.	ug/kg	N.D.	39.
3758	Nitrobenzene	N.D.	33.	ug/kg	N.D.	39.
3759	Isophorone	N.D.	33.	ug/kg	N.D.	39.
3746	2-Nitrophenol	N.D.	67.	ug/kg	N.D.	79.
3747	2,4-Dimethylphenol	N.D.	67.	ug/kg	N.D.	79.
3760	bis(2-Chloroethoxy)methane	N.D.	67.	ug/kg	N.D.	79.
3748	2,4-Dichlorophenol	N.D.	67.	ug/kg	N.D.	79.
1189	1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
3761	Naphthalene	N.D.	33.	ug/kg	N.D.	39.
4693	4-Chloroaniline	N.D.	33.	ug/kg	N.D.	39.
3762	Hexachlorobutadiene	N.D.	67.	ug/kg	N.D.	79.
1190	4-Chloro-3-methylphenol	N.D.	67.	ug/kg	N.D.	79.
4694	2-Methylnaphthalene	N.D.	33.	ug/kg	N.D.	39.
3763	Hexachlorocyclopentadiene	N.D.	170.	ug/kg	N.D.	200.
3749	2,4,6-Trichlorophenol	N.D.	67.	ug/kg	N.D.	79.
4695	2,4,5-Trichlorophenol	N.D.	67.	ug/kg	N.D.	79.
3764	2-Chloronaphthalene	N.D.	33.	ug/kg	N.D.	39.
4696	2-Nitroaniline	N.D.	33.	ug/kg	N.D.	39.
3766	Dimethylphthalate	N.D.	67.	ug/kg	N.D.	79.
3765	Acenaphthylene	N.D.	33.	ug/kg	N.D.	39.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

Lancaster Laboratories
Where quality is a science.

LLI Sample No. SW 3202270
Collected: 07/27/99 at 14:00 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles/Soil								
4697	3-Nitroaniline	N.D.		67.	ug/kg	N.D.		79.
1191	Acenaphthene	N.D.		33.	ug/kg	N.D.		39.
3750	2,4-Dinitrophenol	N.D.		230.	ug/kg	N.D.		270.
1192	4-Nitrophenol	N.D.		170.	ug/kg	N.D.		200.
4698	Dibenzofuran	N.D.		33.	ug/kg	N.D.		39.
1193	2,4-Dinitrotoluene	N.D.		67.	ug/kg	N.D.		79.
3767	2,6-Dinitrotoluene	N.D.		33.	ug/kg	N.D.		39.
3770	Diethylphthalate	N.D.		67.	ug/kg	N.D.		79.
3769	4-Chlorophenyl-phenylether	N.D.		33.	ug/kg	N.D.		39.
3768	Fluorene	N.D.		33.	ug/kg	N.D.		39.
4700	4-Nitroaniline	N.D.		67.	ug/kg	N.D.		79.
3751	4,6-Dinitro-2-methylphenol	N.D.		170.	ug/kg	N.D.		200.
3772	N-Nitrosodiphenylamine	N.D.		33.	ug/kg	N.D.		39.
3773	4-Bromophenyl-phenylether	N.D.		67.	ug/kg	N.D.		79.
3774	Hexachlorobenzene	N.D.		33.	ug/kg	N.D.		39.
1194	Pentachlorophenol	N.D.		170.	ug/kg	N.D.		200.
3775	Phenanthrene	140.	J	33.	ug/kg	170.	J	39.
3776	Anthracene	N.D.		33.	ug/kg	N.D.		39.
4702	Carbazole	N.D.		33.	ug/kg	N.D.		39.
3777	Di-n-butylphthalate	N.D.		67.	ug/kg	N.D.		79.
3778	Fluoranthene	240.	J	33.	ug/kg	280.	J	39.
1195	Pyrene	220.	J	33.	ug/kg	260.	J	39.
3780	Butylbenzylphthalate	N.D.		67.	ug/kg	N.D.		79.
3783	3,3'-Dichlorobenzidine	N.D.		67.	ug/kg	N.D.		79.
3781	Benzo(a)anthracene	130.	J	33.	ug/kg	150.	J	39.
3784	bis(2-Ethylhexyl)phthalate	N.D.		67.	ug/kg	N.D.		79.
3782	Chrysene	120.	J	33.	ug/kg	140.	J	39.
3785	Di-n-octylphthalate	N.D.		67.	ug/kg	N.D.		79.
3786	Benzo(b)fluoranthene	150.	J	33.	ug/kg	180.	J	39.
3787	Benzo(k)fluoranthene	65.	J	33.	ug/kg	77.	J	39.
3788	Benzo(a)pyrene	110.	J	33.	ug/kg	130.	J	39.
3789	Indeno(1,2,3-cd)pyrene	75.	J	33.	ug/kg	88.	J	39.
3790	Dibenz(a,h)anthracene	N.D.		33.	ug/kg	N.D.		39.
3791	Benzo(g,h,i)perylene	67.	J	33.	ug/kg	79.	J	39.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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LLI Sample No. SW 3202270
Collected: 07/27/99 at 14:00 by MP

Submitted: 07/29/99

Account No: 10160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
1TP02 SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6292	TCL by 8260 (soil)	SW-846 8260B	1		08/03/99 1535	Michael E. McAdams
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		07/31/99 0720	Ginelle L. Haines
1225	TCL Pesticides in Solids	SW-846 8081A/8082	1		08/04/99 0515	Douglas D. Seitz
0381	BNA Soil Extraction	SW-846 3550B	1		08/03/99 2000	Karen L. Beyer
4688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1		08/05/99 0859	Michele A. Jarosick
4689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1		08/05/99 0859	Michele A. Jarosick
1123	Cyanide (Reactivity)	SW-846 9012	1		08/05/99 2155	Venia M. McFadden
0111	Moisture	EPA 160.3 modified	1		08/01/99 1929	Gabriel Agosto
0394	pH	SW-846 9045C (modified)	1		08/03/99 2200	Luz M. Groff
0542	Ignitability	40 CFR 261.21	1		08/04/99 1130	Catherine L. Cammauf
1121	Reactivity	SW-846 Chapter 7.3	1		08/05/99 0805	Susan E. Hibner
1122	Sulfide (Reactivity)	SW-846 9034	1		08/05/99 0805	Susan E. Hibner

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LLI Sample No. 3202270
SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
8292 TCL by 8260 (soil)		Batch: E992121AD									
5444 Chloromethane											
2.	ug/kg	N.D.		105	108	2	104			48	130
5446 Bromomethane											
3.	ug/kg	N.D.		99	108	9	99			46	134
5445 Vinyl Chloride											
2.	ug/kg	N.D.		108	113	5	100			60	127
5447 Chloroethane											
3.	ug/kg	N.D.		99	104	5	96			30	142
5450 Methylene Chloride											
2	ug/kg	N.D.		9	1	6	104			69	126
6293 Acetone											
7.	ug/kg	N.D.		104	99	6	78			46	133
6294 Carbon Disulfide											
3.	ug/kg	N.D.		96	97	1	88			52	165
5449 1,1-Dichloroethene											
2.	ug/kg	N.D.		112	112	0	103			69	146
5452 1,1-Dichloroethane											
1.	ug/kg	N.D.		113	117	3	114			81	130
5455 Chloroform											
1.	ug/kg	N.D.		107	114	7	113			82	123
5461 1,2-Dichloroethane											
2.	ug/kg	N.D.		103	109	6	115			81	123
6296 2-Butanone											
7.	ug/kg	N.D.		114	117	2	110			47	153
5457 1,1,1-Trichloroethane											
1.	ug/kg	N.D.		110	115	4	120			84	132
5458 Carbon Tetrachloride											
1.	ug/kg	N.D.		109	116	6	121			78	129
5465 Bromodichloromethane											
2.	ug/kg	N.D.		106	112	6	114			80	121
5480 1,1,2,2-Tetrachloroethane											
1.	ug/kg	N.D.		108	108	0	101			70	124
5463 1,2-Dichloropropane											
3.	ug/kg	N.D.		113	117	4	114			77	127
6297 trans-1,3-Dichloropropene											
1.	ug/kg	N.D.		103	108	4	105			69	131
5462 Trichloroethene											
1.	ug/kg	N.D.		111	116	5	112			81	123
5470 Dibromochloromethane											
1.	ug/kg	N.D.		106	109	3	112			80	120
5467 1,1,2-Trichloroethane											
2.	ug/kg	N.D.		111	110	1	108			81	124
5460 Benzene											
1.	ug/kg	N.D.		116	119	2	113			77	126
6298 cis-1,3-Dichloropropene											
1.	ug/kg	N.D.		110	115	4	112			79	126

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LLI Sample No. 3202270
SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5478	Bromoform											
	1.	ug/kg	N.D.		102	101	1	107			73	120
6299	4-Methyl-2-pentanone											
	3.	ug/kg	N.D.		102	108	6	110			63	123
6300	2-Hexanone											
	3.	ug/kg	N.D.		105	107	1	104			60	128
5468	Tetrachloroethene											
	1.	ug/kg	N.D.		115	120	4	114			83	150
5466	Toluene											
	1.	ug/kg	N.D.		114	113	1	105			74	128
5472	Chlorobenzene											
	1.	ug/kg	N.D.		114	112	2	108			81	121
5474	Ethylbenzene											
	1.	ug/kg	N.D.		117	116	0	112			86	129
5477	Styrene											
	1.	ug/kg	N.D.		116	114	2	108			84	127
6301	Xylene (Total)											
	1.	ug/kg	N.D.		117	116	1	111			88	128
5451	trans-1,2-Dichloroethene											
	2.	ug/kg	N.D.		115	119	4	111			73	126
5454	cis-1,2-Dichloroethene											
	2.	ug/kg	N.D.		113	117	3	112			84	123
225	TCL Pesticides in Solids		Batch: 992110011A									
1981	Alpha BHC											
	0.67	ug/kg	N.D.		84	85	1	102			38	156
1982	Beta BHC											
	0.67	ug/kg	N.D.		94	93	1	97			40	153
1983	Delta BHC											
	0.67	ug/kg	N.D.		76	76	0	97			44	145
1218	Gamma BHC - Lindane											
	0.67	ug/kg	N.D.		84	83	1	102			51	142
1219	Heptachlor											
	0.67	ug/kg	N.D.		85	81	5	100			59	140
1220	Aldrin											
	0.67	ug/kg	N.D.		105	100	4	100			55	132
1984	Heptachlor Epoxide											
	0.67	ug/kg	N.D.		93	91	2	99			58	129
1989	Endosulfan I											
	0.67	ug/kg	N.D.		185	185	0	81			56	123
1222	Dieldrin											
	1.3	ug/kg	N.D.		86	85	1	90			63	133
1985	DDE											
	1.3	ug/kg	N.D.		102	101	1	101			47	159
1223	Endrin											
	1.3	ug/kg	N.D.		105	104	0	112			70	150
1990	Endosulfan II											
	1.3	ug/kg	N.D.		44	51	16	89			46	138

MEMBER ACIL
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2425 New Holland Pike
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See reverse side for explanation of symbols and abbreviations.

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LLI Sample No. 3202270
SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1986 DDD	1.3	ug/kg	N.D.		108	107	1	101			53	141
1991 Erdosulfan Sulfate	1.3	ug/kg	N.D.		88	84	5	108			40	150
1221 DDT	1.3	ug/kg	N.D.		107	107	0	110			60	138
3017 Erdrin Ketone	1.3	ug/kg	N.D.		90	90	0	92			62	137
1859 Methoxychlor	6.7	ug/kg	N.D.		132	124	6	128			52	174
3025 Alpha Chlordane	0.67	ug/kg	N.D.		151	149	1	100			68	141
3026 Gamma Chlordane	0.67	ug/kg	N.D.		100	97	2	97			65	129
1988 Toxaphene	67.	ug/kg	N.D.									
1992 Erdrin Aldehyde	1.3	ug/kg	N.D.		82	82	1	83			75	125
1993 PCB-1016	33.	ug/kg	N.D.									
1994 PCB-1221	33.	ug/kg	N.D.									
1995 PCB-1232	33.	ug/kg	N.D.									
1996 PCB-1242	33.	ug/kg	N.D.									
1997 PCB-1248	33.	ug/kg	N.D.									
1998 PCB-1254	33.	ug/kg	N.D.									
1999 PCB-1260	33.	ug/kg	N.D.									
88 TCL SW846 Semivolatiles Soil			Batch: 99215SLD026									
1185 Phenol	67.	ug/kg	N.D.		63	49	24	87			40	128
3753 bis(2-Chloroethyl)ether	33.	ug/kg	N.D.		58	42	32	91			38	131
1186 2-Chlorophenol	33.	ug/kg	N.D.		62	47	28	90			44	127
3754 1,3-Dichlorobenzene	33.	ug/kg	N.D.		44	28	44	87			31	121
1187 1,4-Dichlorobenzene	33.	ug/kg	N.D.		44	29	43	86			36	119
3755 1,2-Dichlorobenzene	33.	ug/kg	N.D.		48	31	42	88			39	120
4690 2-Methylphenol	33.	ug/kg	N.D.		61	48	25	89			42	127

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LLI Sample No. 3202270
SPC1TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4691 2,2'-oxybis(1-Chloropropane)											
33.	ug/kg	N.D.		54	38	34	88			38	151
4692 4-Methylphenol											
67.	ug/kg	N.D.		62	49	23	89			33	139
1188 N-Nitroso-di-n-propylamine											
33.	ug/kg	N.D.		64	49	26	92			39	142
3757 Hexachloroethane											
33.	ug/kg	N.D.		44	28	44	89			29	128
3758 Nitrobenzene											
33.	ug/kg	N.D.		59	44	29	91			42	131
3759 Isophorone											
33.	ug/kg	N.D.		61	47	25	89			46	130
3746 2-Nitrophenol											
67.	ug/kg	N.D.		65	50	28	97			36	141
3747 2,4-Dimethylphenol											
67.	ug/kg	N.D.		60	48	22	90			40	132
3760 bis(2-Chloroethoxy)methane											
67.	ug/kg	N.D.		63	49	26	93			44	127
3748 2,4-Dichlorophenol											
67.	ug/kg	N.D.		64	50	23	91			41	128
1189 1,2,4-Trichlorobenzene											
33.	ug/kg	N.D.		54	39	32	92			44	121
3761 Naphthalene											
33.	ug/kg	N.D.		55	41	31	89			34	133
4693 4-Chloroaniline											
33.	ug/kg	N.D.		50	41	18	42			1	113
3762 Hexachlorobutadiene											
67.	ug/kg	N.D.		52	36	36	92			39	133
1190 4-Chloro-3-methylphenol											
67.	ug/kg	N.D.		65	52	22	93			47	135
4694 2-Methylnaphthalene											
33.	ug/kg	N.D.		59	45	27	90			43	131
3763 Hexachlorocyclopentadiene											
170.	ug/kg	N.D.		35	24	38	69			1	141
3749 2,4,6-Trichlorophenol											
67.	ug/kg	N.D.		64	52	22	90			39	141
4695 2,4,5-Trichlorophenol											
67.	ug/kg	N.D.		64	52	21	87			45	136
3764 2-Chloronaphthalene											
33.	ug/kg	N.D.		64	51	23	92			48	127
4696 2-Nitroaniline											
33.	ug/kg	N.D.		71	58	21	101			25	139
3766 Dimethylphthalate											
67.	ug/kg	N.D.		67	55	21	95			53	127
3765 Acenaphthylene											
33.	ug/kg	N.D.		62	50	21	89			44	126

389 TCL SW846 Semivolatiles/Soil Batch: 99215SLD026

Lancaster Laboratories
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LLI Sample No. 3202270
SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4697 3-Nitroaniline											
67.	ug/kg	N.D.		61	52	17	66			18	117
1191 Acenaphthene											
33.	ug/kg	N.D.		63	51	21	91			47	127
3750 2,4-Dinitrophenol											
230.	ug/kg	N.D.		35	26	29	55			1	133
1192 4-Nitrophenol											
170.	ug/kg	N.D.		60	46	27	83			31	161
4698 Dibenzofuran											
33.	ug/kg	N.D.		66	54	21	93			53	125
1193 2,4-Dinitrotoluene											
67.	ug/kg	N.D.		67	54	21	95			50	131
3767 2,6-Dinitrotoluene											
33.	ug/kg	N.D.		71	58	21	103			53	130
3770 Diethylphthalate											
67.	ug/kg	N.D.		68	56	20	97			54	130
3769 4-Chlorophenyl-phenylether											
33.	ug/kg	N.D.		67	54	21	92			47	132
3768 Fluorene											
33.	ug/kg	N.D.		65	53	20	92			42	142
4700 4-Nitroaniline											
67.	ug/kg	N.D.		64	52	20	86			30	127
3751 4,6-Dinitro-2-methylphenol											
170.	ug/kg	N.D.		52	37	33	76			14	143
3772 N-Nitrosodiphenylamine											
33.	ug/kg	N.D.		70	57	21	97			49	130
3773 4-Bromophenyl-phenylether											
67.	ug/kg	N.D.		70	57	22	96			53	132
3774 Hexachlorobenzene											
33.	ug/kg	N.D.		70	56	22	95			40	144
1194 Pentachlorophenol											
170.	ug/kg	N.D.		34	22	41	61			20	132
3775 Phenanthrene											
33.	ug/kg	N.D.		69	45	30	94			42	141
3776 Anthracene											
33.	ug/kg	N.D.		69	52	25	95			45	132
4702 Carbazole											
33.	ug/kg	N.D.		70	55	23	94			48	129
3777 Di-n-butylphthalate											
67.	ug/kg	N.D.		71	56	23	97			54	133
3778 Fluoranthene											
33.	ug/kg	N.D.		64	36	33	92			37	142
1195 Pyrene											
33.	ug/kg	N.D.		67	43	28	103			34	145
3780 Butylbenzylphthalate											
67.	ug/kg	N.D.		72	59	21	104			47	138
3783 3,3'-Dichlorobenzidine											
67.	ug/kg	N.D.		58	50	15	69			2	132
3781 Benzo(a)anthracene											
33.	ug/kg	N.D.		69	47	29	94			44	133

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LLI Sample No. 3202270
SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
3784 bis(2-Ethylhexyl)phthalate	67.	ug/kg	N.D.		77	62	21	109			41	145
3782 Chrysene	33.	ug/kg	N.D.		69	47	29	96			42	136
3785 Di-n-octylphthalate	67.	ug/kg	N.D.		83	67	21	117			43	156
3786 Benzo(b)fluoranthene	33.	ug/kg	N.D.		63	45	24	94			35	140
3787 Benzo(k)fluoranthene	33.	ug/kg	N.D.		71	54	25	99			38	145
3788 Benzo(a)pyrene	33.	ug/kg	N.D.		67	50	23	98			38	141
3789 Indeno(1,2,3-cd)pyrene	33.	ug/kg	N.D.		66	53	20	98			30	153
3790 Dibenz(a,h)anthracene	33.	ug/kg	N.D.		70	56	21	97			32	151
3791 Benzo(g,h,i)perylene	33.	ug/kg	N.D.		68	53	22	97			29	151
1123 Cyanide (Reactivity)	100.	mg/kg	Batch: 99217104201 N.D.	0 (1)	3	2	37	105			88	121
0111 Moisture	0.50	% by wt.	Batch: 992130091820002A	1				100	100	0	99	101
0394 pH	0.010		Batch: 992150239039400A	0				99	100	1	98	102
0542 Ignitability			Batch: 992160286054200A									
1121 Reactivity		see below	Batch: 992170416112100A									
1122 Sulfide (Reactivity)	39.	mg/kg	Batch: 992170416112100A N.D.	0 (1)	24	29	21	85			80	120

1) The result for one or both determinations was less than five times the LOQ.

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LLI Sample No. 3202270
SP01TP02 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
1225 TCL Pesticides in Solids		TCX	106	30	163
		DCB	203	42	184
4688 TCL SW846 Semivolatiles Soil		Phenol-d6	57	47	127
		2-Flphenol	54	47	126
		2,4,6-TBP	54	36	150
4689 TCL SW846 Semivolatiles/Soil		Nitrobz-d5	50	45	128
		2-Fbiphnyl	53	49	123
		Tphenyld14	69	40	146
6292 TCL by 8260 (soil)		DBFM	106	80	120
		d4-1,2-DCA	104	80	120
		d8-toluene	103	81	117
		4-BFB	102	74	121

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AUG 23 1999

LLI Sample No. TL 3202271
Collected 07/27/99 at 14:00 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP02 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

+ Arc View
MCP 3/2
8-27-99

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
1746	Barium	0.48	0.0015	mg/l
1751	Chromium	0.0107 J	0.0054	mg/l
1753	Copper	0.0089 J	0.0058	mg/l
1755	Lead	N.D.	0.023	mg/l
1766	Silver	N.D.	0.0057	mg/l
7035	Arsenic TR	N.D.	0.0070	mg/l
7036	Selenium TR	N.D.	0.0059	mg/l
7049	Cadmium TR	0.0018	0.00063	mg/l
7072	Zinc TR	0.030	0.0036	mg/l
0259	Mercury	N.D.	0.000042	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, December, 1994). A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
21:20:55 D 0001 25 138873 676387
885 0.00 00013600 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

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LLI Sample No. TL 3202271
Collected: 07/27/99 at 14:00 by MP

Submitted: 07/29/99

Account No: 10160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SP01TP02 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1746	Barium	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
1751	Chromium	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
1753	Copper	SW-846 6010B	1		08/16/99 0528	Donna R. Sackett
1755	Lead	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
1766	Silver	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
5705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1		08/03/99 2139	Marie D. Kimmel
7035	Arsenic TR	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
7036	Selenium TR	SW-846 6010B	1		08/16/99 0528	Donna R. Sackett
7049	Cadmium TR	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
7072	Zinc TR	SW-846 6010B	1		08/10/99 2305	Donna R. Sackett
0259	Mercury	SW-846 7470A	1		08/04/99 1653	Nelli S. Markaryan
5713	WW SW846 Hg Digest	SW-846 7470A	1		08/03/99 2115	Nelli S. Markaryan
0947	TCLP Non-volatile Extraction	SW-846 1311	1		08/02/99 1500	James D. Cowan

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3202271
SP01TP02 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1746 Barium			Batch: 992155705003									
	0.0015	mg/l	N.D.	0 (1)	84	85	1	100			80	120
.751 Chromium			Batch: 992155705003									
	0.0054	mg/l	N.D.	0 (1)	83	84	2	102			80	120
1753 Copper			Batch: 992155705003									
	0.0058	mg/l	N.D.	3	85	85	0	99			80	120
.755 Lead			Batch: 992155705003									
	0.023	mg/l	N.D.	0 (1)	82	83	1	100			80	120
1766 Silver			Batch: 992155705003									
	0.0057	mg/l	N.D.	0 (1)	77	78	1	98			80	120
'035 Arsenic TR			Batch: 992155705003									
	0.0070	mg/l	N.D.	2	81	81	0	97			80	120
7036 Selenium TR			Batch: 992155705003									
	0.0059	mg/l	N.D.	0 (1)	84	82	2	100			80	120
'049 Cadmium TR			Batch: 992155705003									
	0.00063	mg/l	N.D.	0 (1)	84	85	1	100			80	120
/072 Zinc TR			Batch: 992155705003									
	0.0036	mg/l	N.D.	0 (1)	85	86	1	99			80	120
^259 Mercury			Batch: 992155713003									
	0.000042	mg/l	N.D.	0 (1)	80	76	6	102			80	120

1) The result for one or both determinations was less than five times the LOQ.

MEMBER ACIL
Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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AUG 2 ? 1999

LLI Sample No. SW 3202272
Collected: 07/27/99 at 14:30 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

ENTERED IN DATA BY/DATE MCP 3/26/99
CHECKED BY [illegible]
DATE 8-27-99

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
6292	TCL by 8260 (soil)			See Page 2		
1225	TCL Pesticides in Solids			See Page 3		
4688	TCL SW846 Semivolatiles Soil			See Page 4		
4689	TCL SW846 Semivolatiles/Soil			See Page 5		
1123	Cyanide (Reactivity)	N.D.	100.	mg/kg		
0111	Moisture	14.4	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0394	pH	7.59	0.010			
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					
0496	Corrosivity	See Below	1.0	See Below		
	Corrosivity: The pH of a 1:1 slurry (with deionized water) was 7.59 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.					
0542	Ignitability	See Below		See Below		
	The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
1121	Reactivity	See Below		See Below		
	Reactivity: The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.					
1122	Sulfide (Reactivity)	N.D.	39.	mg/kg		
	The relative percent difference (RPD) between the MS and MSD on the batch associated with this sample was 21%. The acceptable RPD for this analysis is 20%. The MS and MSD were both within specifications.					

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter *at (717) 656-2300*
21:21:17 D 0001 25 138873 676387
885 0.00 00072200 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
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717-656-2300 Fax 717-656-2681

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LLI Sample No. SW 3202272
Collected: 07/27/99 at 14:30 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SPC1TP03 Grab Soil Sample
Site Code: SC0C1 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL by 8260 (soil)						
5444	Chloromethane	N.D.	2.	ug/kg	N.D.	2.
5446	Bromomethane	N.D.	3.	ug/kg	N.D.	4.
5445	Vinyl Chloride	N.D.	2.	ug/kg	N.D.	2.
5447	Chloroethane	N.D.	3.	ug/kg	N.D.	4.
5450	Methylene Chloride	8.	2.	ug/kg	9.	2.
6293	Acetone	N.D.	7.	ug/kg	N.D.	8.
6294	Carbon Disulfide	N.D.	3.	ug/kg	N.D.	4.
5449	1,1-Dichloroethene	N.D.	2.	ug/kg	N.D.	2.
5452	1,1-Dichloroethane	N.D.	1.	ug/kg	N.D.	1.
5455	Chloroform	N.D.	1.	ug/kg	N.D.	1.
5461	1,2-Dichloroethane	N.D.	2.	ug/kg	N.D.	2.
6296	2-Butanone	N.D.	7.	ug/kg	N.D.	8.
5457	1,1,1-Trichloroethane	N.D.	1.	ug/kg	N.D.	1.
5458	Carbon Tetrachloride	N.D.	1.	ug/kg	N.D.	1.
5465	Bromodichloromethane	N.D.	2.	ug/kg	N.D.	2.
5480	1,1,2,2-Tetrachloroethane	N.D.	1.	ug/kg	N.D.	1.
5463	1,2-Dichloropropane	N.D.	3.	ug/kg	N.D.	4.
6297	trans-1,3-Dichloropropene	N.D.	1.	ug/kg	N.D.	1.
5462	Trichloroethene	10.	1.	ug/kg	12.	1.
5470	Dibromochloromethane	N.D.	1.	ug/kg	N.D.	1.
5467	1,1,2-Trichloroethane	N.D.	2.	ug/kg	N.D.	2.
5460	Benzene	N.D.	1.	ug/kg	N.D.	1.
6298	cis-1,3-Dichloropropene	N.D.	1.	ug/kg	N.D.	1.
5478	Bromoform	N.D.	1.	ug/kg	N.D.	1.
6299	4-Methyl-2-pentanone	N.D.	3.	ug/kg	N.D.	4.
6300	2-Hexanone	N.D.	3.	ug/kg	N.D.	4.
5468	Tetrachloroethene	N.D.	1.	ug/kg	N.D.	1.
5466	Toluene	N.D.	1.	ug/kg	N.D.	1.
5472	Chlorobenzene	N.D.	1.	ug/kg	N.D.	1.
5474	Ethylbenzene	N.D.	1.	ug/kg	N.D.	1.
5477	Styrene	N.D.	1.	ug/kg	N.D.	1.
6301	Xylene (Total)	N.D.	1.	ug/kg	N.D.	1.
5451	trans-1,2-Dichloroethene	N.D.	2.	ug/kg	N.D.	2.
5454	cis-1,2-Dichloroethene	N.D.	2.	ug/kg	N.D.	2.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

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717-656-2300 Fax: 717-656-2681

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LLI Sample No. SW 3202272
Collected: 07/27/99 at 14:30 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL Pesticides in Solids								
1981	Alpha BHC	N.D.		0.67	ug/kg	N.D.		0.78
1982	Beta BHC	N.D.		0.67	ug/kg	N.D.		0.78
1983	Delta BHC	N.D.		0.67	ug/kg	N.D.		0.78
1218	Gamma BHC - Lindane	N.D.		0.67	ug/kg	N.D.		0.78
1219	Heptachlor	N.D.		0.67	ug/kg	N.D.		0.78
1220	Aldrin	N.D.		0.67	ug/kg	N.D.		0.78
1984	Heptachlor Epoxide	N.D.		0.67	ug/kg	N.D.		0.78
1989	Endosulfan I	N.D.		0.67	ug/kg	N.D.		0.78
1222	Dieldrin	N.D.		1.3	ug/kg	N.D.		1.5
1985	DDE	N.D.		1.3	ug/kg	N.D.		1.5
1223	Endrin	N.D.		1.3	ug/kg	N.D.		1.5
1990	Endosulfan II	N.D.		1.3	ug/kg	N.D.		1.5
1986	DDD	N.D.		1.3	ug/kg	N.D.		1.5
1991	Endosulfan Sulfate	N.D.		1.3	ug/kg	N.D.		1.5
1221	DDT	3.7	J	1.3	ug/kg	4.3	J	1.5
3017	Endrin Ketone	N.D.		1.3	ug/kg	N.D.		1.5
1859	Methoxychlor	50.		6.7	ug/kg	58.		7.8
3025	Alpha Chlordane	N.D.		0.67	ug/kg	N.D.		0.78
3026	Gamma Chlordane	N.D.		0.67	ug/kg	N.D.		0.78
1988	Toxaphene	N.D.		67.	ug/kg	N.D.		78.
1992	Endrin Aldehyde	N.D.		1.3	ug/kg	N.D.		1.5
1993	PCB-1016	N.D.		33.	ug/kg	N.D.		39.
1994	PCB-1221	N.D.		33.	ug/kg	N.D.		39.
1995	PCB-1232	N.D.		33.	ug/kg	N.D.		39.
1996	PCB-1242	N.D.		33.	ug/kg	N.D.		39.
1997	PCB-1248	N.D.		33.	ug/kg	N.D.		39.
1998	PCB-1254	N.D.		33.	ug/kg	N.D.		39.
1999	PCB-1260	N.D.		33.	ug/kg	N.D.		39.

Due to the nature of the sample matrix, a dilution of the sample was used for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

This analysis was performed at a 10x dilution of the original sample.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

LLI Sample No. SW 3202272
Collected: 07/27/99 at 14:30 by MP

Account No: I0160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
TCL SW846 Semivolatiles Soil						
1185	Phenol	N.D.	67.	ug/kg	N.D.	78.
3753	bis(2-Chloroethyl)ether	N.D.	33.	ug/kg	N.D.	39.
1186	2-Chlorophenol	N.D.	33.	ug/kg	N.D.	39.
3754	1,3-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
1187	1,4-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
3755	1,2-Dichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
4690	2-Methylphenol	N.D.	33.	ug/kg	N.D.	39.
4691	2,2'-oxybis(1-Chloropropane)	N.D.	33.	ug/kg	N.D.	39.
4692	4-Methylphenol	N.D.	67.	ug/kg	N.D.	78.
1188	N-Nitroso-di-n-propylamine	N.D.	33.	ug/kg	N.D.	39.
3757	Hexachloroethane	N.D.	33.	ug/kg	N.D.	39.
3758	Nitrobenzene	N.D.	33.	ug/kg	N.D.	39.
3759	Isophorone	N.D.	33.	ug/kg	N.D.	39.
3746	2-Nitrophenol	N.D.	67.	ug/kg	N.D.	78.
3747	2,4-Dimethylphenol	N.D.	67.	ug/kg	N.D.	78.
3760	bis(2-Chloroethoxy)methane	N.D.	67.	ug/kg	N.D.	78.
3748	2,4-Dichlorophenol	N.D.	67.	ug/kg	N.D.	78.
1189	1,2,4-Trichlorobenzene	N.D.	33.	ug/kg	N.D.	39.
3761	Naphthalene	N.D.	33.	ug/kg	N.D.	39.
4693	4-Chloroaniline	N.D.	33.	ug/kg	N.D.	39.
3762	Hexachlorobutadiene	N.D.	67.	ug/kg	N.D.	78.
1190	4-Chloro-3-methylphenol	N.D.	67.	ug/kg	N.D.	78.
4694	2-Methylnaphthalene	N.D.	33.	ug/kg	N.D.	39.
3763	Hexachlorocyclopentadiene	N.D.	170.	ug/kg	N.D.	200.
3749	2,4,6-Trichlorophenol	N.D.	67.	ug/kg	N.D.	78.
4695	2,4,5-Trichlorophenol	N.D.	67.	ug/kg	N.D.	78.
3764	2-Chloronaphthalene	N.D.	33.	ug/kg	N.D.	39.
4696	2-Nitroaniline	N.D.	33.	ug/kg	N.D.	39.
3766	Dimethylphthalate	N.D.	67.	ug/kg	N.D.	78.
3765	Acenaphthylene	N.D.	33.	ug/kg	N.D.	39.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

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LLI Sample No. SW 3202272
Collected: 07/27/99 at 14:30 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles/Soil								
4697	3-Nitroaniline	N.D.		67.	ug/kg	N.D.		78.
1191	Acenaphthene	N.D.		33.	ug/kg	N.D.		39.
3750	2,4-Dinitrophenol	N.D.		230.	ug/kg	N.D.		270.
1192	4-Nitrophenol	N.D.		170.	ug/kg	N.D.		200.
4698	Dibenzofuran	N.D.		33.	ug/kg	N.D.		39.
1193	2,4-Dinitrotoluene	N.D.		67.	ug/kg	N.D.		78.
3767	2,6-Dinitrotoluene	N.D.		33.	ug/kg	N.D.		39.
3770	Diethylphthalate	N.D.		67.	ug/kg	N.D.		78.
3769	4-Chlorophenyl-phenylether	N.D.		33.	ug/kg	N.D.		39.
3768	Fluorene	N.D.		33.	ug/kg	N.D.		39.
4700	4-Nitroaniline	N.D.		67.	ug/kg	N.D.		78.
3751	4,6-Dinitro-2-methylphenol	N.D.		170.	ug/kg	N.D.		200.
3772	N-Nitrosodiphenylamine	N.D.		33.	ug/kg	N.D.		39.
3773	4-Bromophenyl-phenylether	N.D.		67.	ug/kg	N.D.		78.
3774	Hexachlorobenzene	N.D.		33.	ug/kg	N.D.		39.
1194	Pentachlorophenol	N.D.		170.	ug/kg	N.D.		200.
3775	Phenanthrene	280.	J	33.	ug/kg	320.	J	39.
3776	Anthracene	65.	J	33.	ug/kg	76.	J	39.
4702	Carbazole	N.D.		33.	ug/kg	N.D.		39.
3777	Di-n-butylphthalate	N.D.		67.	ug/kg	N.D.		78.
3778	Fluoranthene	450.		33.	ug/kg	520.		39.
1195	Pyrene	400.		33.	ug/kg	470.		39.
3780	Butylbenzylphthalate	N.D.		67.	ug/kg	N.D.		78.
3783	3,3'-Dichlorobenzidine	N.D.		67.	ug/kg	N.D.		78.
3781	Benzo(a)anthracene	260.	J	33.	ug/kg	300.	J	39.
3784	bis(2-Ethylhexyl)phthalate	N.D.		67.	ug/kg	N.D.		78.
3782	Chrysene	270.	J	33.	ug/kg	310.	J	39.
3785	Di-n-octylphthalate	N.D.		67.	ug/kg	N.D.		78.
3786	Benzo(b)fluoranthene	270.	J	33.	ug/kg	320.	J	39.
3787	Benzo(k)fluoranthene	120.	J	33.	ug/kg	140.	J	39.
3788	Benzo(a)pyrene	190.	J	33.	ug/kg	220.	J	39.
3789	Indeno(1,2,3-cd)pyrene	120.	J	33.	ug/kg	140.	J	39.
3790	Dibenz(a,h)anthracene	34.	J	33.	ug/kg	40.	J	39.
3791	Benzo(g,h,i)perylene	100.	J	33.	ug/kg	120.	J	39.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

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LLI Sample No. SW 3202272
Collected: 07/27/99 at 14:30 by MP

Submitted: 07/29/99

Account No: 10160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
1TP03 SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6292	TCL by 8260 (soil)	SW-846 8260B	1		08/03/99 1612	Bryan J. Polick
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		07/31/99 0720	Ginelle L. Haines
1225	TCL Pesticides in Solids	SW-846 8081A/8082	1		08/04/99 0535	Douglas D. Seitz
0381	BNA Soil Extraction	SW-846 3550B	1		08/03/99 2000	Karen L. Beyer
4683	TCL SW846 Semivolatiles Soil	SW-846 8270C	1		08/05/99 0959	Michele A. Jarosick
4689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1		08/05/99 0959	Michele A. Jarosick
1123	Cyanide (Reactivity)	SW-846 9012	1		08/05/99 2156	Venia M. McFadden
0111	Moisture	EPA 160.3 modified	1		08/01/99 1929	Gabriel Agosto
0394	pH	SW-846 9045C (modified)	1		08/03/99 2200	Luz M. Groff
0542	Ignitability	40 CFR 261.21	1		08/04/99 1130	Catherine L. Cammauf
1121	Reactivity	SW-846 Chapter 7.3	1		08/05/99 0805	Susan E. Hibner
1122	Sulfide (Reactivity)	SW-846 9034	1		08/05/99 0805	Susan E. Hibner

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6292 TCL by 8260 (soil)		Batch: E992121AD									
5444 Chloromethane											
2.	ug/kg	N.D.		105	108	2	104			48	130
5446 Bromomethane											
3.	ug/kg	N.D.		99	108	9	99			46	134
5445 Vinyl Chloride											
2.	ug/kg	N.D.		108	113	5	100			60	127
5447 Chloroethane											
3.	ug/kg	N.D.		99	104	5	96			30	142
5450 Methylene Chloride											
2.	ug/kg	N.D.		9	1	6	104			69	126
6293 Acetone											
7.	ug/kg	N.D.		104	99	6	78			46	133
6294 Carbon Disulfide											
3.	ug/kg	N.D.		96	97	1	88			52	165
5449 1,1-Dichloroethene											
2.	ug/kg	N.D.		112	112	0	103			69	146
5452 1,1-Dichloroethane											
1.	ug/kg	N.D.		113	117	3	114			81	130
5455 Chloroform											
1.	ug/kg	N.D.		107	114	7	113			82	123
5461 1,2-Dichloroethane											
2.	ug/kg	N.D.		103	109	6	115			81	123
6296 2-Butanone											
7.	ug/kg	N.D.		114	117	2	110			47	153
5457 1,1,1-Trichloroethane											
1.	ug/kg	N.D.		110	115	4	120			84	132
5458 Carbon Tetrachloride											
1.	ug/kg	N.D.		109	116	6	121			78	129
5465 Bromodichloromethane											
2.	ug/kg	N.D.		106	112	6	114			80	121
5480 1,1,2,2-Tetrachloroethane											
1.	ug/kg	N.D.		108	108	0	101			70	124
5463 1,2-Dichloropropane											
3.	ug/kg	N.D.		113	117	4	114			77	127
6297 trans-1,3-Dichloropropene											
1.	ug/kg	N.D.		103	108	4	105			69	131
5462 Trichloroethene											
1.	ug/kg	N.D.		111	116	5	112			81	123
5470 Dibromochloromethane											
1.	ug/kg	N.D.		106	109	3	112			80	120
5467 1,1,2-Trichloroethane											
2.	ug/kg	N.D.		111	110	1	108			81	124
5460 Benzene											
1.	ug/kg	N.D.		116	119	2	113			77	126
6298 cis-1,3-Dichloropropene											
1.	ug/kg	N.D.		110	115	4	112			79	126

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LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5478	Bromoform											
	1.	ug/kg	N.D.		102	101	1	107			73	120
6299	4-Methyl-2-pentanone											
	3.	ug/kg	N.D.		102	108	6	110			63	123
6300	2-Hexanone											
	3.	ug/kg	N.D.		105	107	1	104			60	128
5468	Tetrachloroethene											
	1.	ug/kg	N.D.		115	120	4	114			83	150
5466	Toluene											
	1.	ug/kg	N.D.		114	113	1	105			74	128
5472	Chlorobenzene											
	1.	ug/kg	N.D.		114	112	2	108			81	121
5474	Ethylbenzene											
	1.	ug/kg	N.D.		117	116	0	112			86	129
5477	Styrene											
	1.	ug/kg	N.D.		116	114	2	108			84	127
6301	Xylene (Total)											
	1.	ug/kg	N.D.		117	116	1	111			88	128
5451	trans-1,2-Dichloroethene											
	2.	ug/kg	N.D.		115	119	4	111			73	126
5454	cis-1,2-Dichloroethene											
	2.	ug/kg	N.D.		113	117	3	112			84	123

1225 TCL Pesticides in Solids Batch: 992110011A

1981	Alpha BHC											
	0.67	ug/kg	N.D.		84	85	1	102			38	156
1982	Beta BHC											
	0.67	ug/kg	N.D.		94	93	1	97			40	153
1983	Delta BHC											
	0.67	ug/kg	N.D.		76	76	0	97			44	145
1218	Gamma BHC - Lindane											
	0.67	ug/kg	N.D.		84	83	1	102			51	142
1219	Heptachlor											
	0.67	ug/kg	N.D.		85	81	5	100			59	140
1220	Aldrin											
	0.67	ug/kg	N.D.		105	100	4	100			55	132
1984	Heptachlor Epoxide											
	0.67	ug/kg	N.D.		93	91	2	99			58	129
1989	Endosulfan I											
	0.67	ug/kg	N.D.		185	185	0	81			56	123
1222	Dieldrin											
	1.3	ug/kg	N.D.		86	85	1	90			63	133
1985	DDE											
	1.3	ug/kg	N.D.		102	101	1	101			47	159
1223	Endrin											
	1.3	ug/kg	N.D.		105	104	0	112			70	150
1990	Endosulfan II											
	1.3	ug/kg	N.D.		44	51	16	89			46	138

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LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1986 DDD											
1.3	ug/kg	N.D.		108	107	1	101			53	141
1991 Endosulfan Sulfate											
1.3	ug/kg	N.D.		88	84	5	108			40	150
1221 DDT											
1.3	ug/kg	N.D.		107	107	0	110			60	138
3017 Endrin Ketone											
1.3	ug/kg	N.D.		90	90	0	92			62	137
1859 Methoxychlor											
6.7	ug/kg	N.D.		132	124	6	128			52	174
3025 Alpha Chlordane											
0.67	ug/kg	N.D.		151	149	1	100			68	141
3025 Gamma Chlordane											
0.67	ug/kg	N.D.		100	97	2	97			65	129
1988 Toxaphene											
67.	ug/kg	N.D.									
1992 Endrin Aldehyde											
1.3	ug/kg	N.D.		82	82	1	83			75	125
1993 PCB-1016											
33.	ug/kg	N.D.									
1994 PCB-1221											
33.	ug/kg	N.D.									
1995 PCB-1232											
33.	ug/kg	N.D.									
1996 PCB-1242											
33.	ug/kg	N.D.									
1997 PCB-1248											
33.	ug/kg	N.D.									
1998 PCB-1254											
33.	ug/kg	N.D.									
1999 PCB-1260											
33.	ug/kg	N.D.									
4688 TCL SW846 Semivolatiles Soil		Batch: 99215SLD026									
1185 Phenol											
67.	ug/kg	N.D.		63	49	24	87			40	128
3753 bis(2-Chloroethyl)ether											
33.	ug/kg	N.D.		58	42	32	91			38	131
1186 2-Chlorophenol											
33.	ug/kg	N.D.		62	47	28	90			44	127
3754 1,3-Dichlorobenzene											
33.	ug/kg	N.D.		44	28	44	87			31	121
1187 1,4-Dichlorobenzene											
33.	ug/kg	N.D.		44	29	43	86			36	119
3755 1,2-Dichlorobenzene											
33.	ug/kg	N.D.		48	31	42	88			39	120
4690 2-Methylphenol											
33.	ug/kg	N.D.		61	48	25	89			42	127

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Where quality is a science.

LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4691 2,2'-oxybis(1-Chloropropane)											
33.	ug/kg	N.D.		54	38	34	88			38	151
4692 4-Methylphenol											
67.	ug/kg	N.D.		62	49	23	89			33	139
1188 N-Nitroso-di-n-propylamine											
33.	ug/kg	N.D.		64	49	26	92			39	142
3757 Hexachloroethane											
33.	ug/kg	N.D.		44	28	44	89			29	128
3758 Nitrobenzene											
33.	ug/kg	N.D.		59	44	29	91			42	131
3759 Isophorone											
33.	ug/kg	N.D.		61	47	25	89			46	130
3746 2-Nitrophenol											
67.	ug/kg	N.D.		65	50	28	97			36	141
3747 2,4-Dimethylphenol											
67.	ug/kg	N.D.		60	48	22	90			40	132
3760 bis(2-Chloroethoxy)methane											
67.	ug/kg	N.D.		63	49	26	93			44	127
3748 2,4-Dichlorophenol											
67.	ug/kg	N.D.		64	50	23	91			41	128
1189 1,2,4-Trichlorobenzene											
33.	ug/kg	N.D.		54	39	32	92			44	121
3761 Naphthalene											
33.	ug/kg	N.D.		55	41	31	89			34	133
4693 4-Chloroaniline											
33.	ug/kg	N.D.		50	41	18	42			1	113
3762 Hexachlorobutadiene											
67.	ug/kg	N.D.		52	36	36	92			39	133
1190 4-Chloro-3-methylphenol											
67.	ug/kg	N.D.		65	52	22	93			47	135
4694 2-Methylnaphthalene											
33.	ug/kg	N.D.		59	45	27	90			43	131
3763 Hexachlorocyclopentadiene											
170.	ug/kg	N.D.		35	24	38	69			1	141
3749 2,4,6-Trichlorophenol											
67.	ug/kg	N.D.		64	52	22	90			39	141
4695 2,4,5-Trichlorophenol											
67.	ug/kg	N.D.		64	52	21	87			45	136
3764 2-Chloronaphthalene											
33.	ug/kg	N.D.		64	51	23	92			48	127
4696 2-Nitroaniline											
33.	ug/kg	N.D.		71	58	21	101			25	139
3766 Dimethylphthalate											
67.	ug/kg	N.D.		67	55	21	95			53	127
3765 Acenaphthylene											
33.	ug/kg	N.D.		62	50	21	89			44	126

^589 TCL SW846 Semivolatiles/Soil Batch: 99215SLD026

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See reverse side for explanation of symbols and abbreviations

Lancaster Laboratories
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LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4697 3-Nitroaniline											
67.	ug/kg	N.D.		61	52	17	66			18	117
1191 Acenaphthene											
33.	ug/kg	N.D.		63	51	21	91			47	127
3750 2,4-Dinitrophenol											
230.	ug/kg	N.D.		35	26	29	55			1	133
1192 4-Nitrophenol											
170.	ug/kg	N.D.		60	46	27	83			31	161
4698 Dibenzofuran											
33.	ug/kg	N.D.		66	54	21	93			53	125
1193 2,4-Dinitrotoluene											
67.	ug/kg	N.D.		67	54	21	95			50	131
3767 2,6-Dinitrotoluene											
33.	ug/kg	N.D.		71	58	21	103			53	130
3770 Diethylphthalate											
67.	ug/kg	N.D.		68	56	20	97			54	130
3769 4-Chlorophenyl-phenylether											
33.	ug/kg	N.D.		67	54	21	92			47	132
3768 Fluorene											
33.	ug/kg	N.D.		65	53	20	92			42	142
4700 4-Nitroaniline											
67.	ug/kg	N.D.		64	52	20	86			30	127
3751 4,6-Dinitro-2-methylphenol											
170.	ug/kg	N.D.		52	37	33	76			14	143
3772 N-Nitrosodiphenylamine											
33.	ug/kg	N.D.		70	57	21	97			49	130
3773 4-Bromophenyl-phenylether											
67.	ug/kg	N.D.		70	57	22	96			53	132
3774 Hexachlorobenzene											
33.	ug/kg	N.D.		70	56	22	95			40	144
1194 Pertachlorophenol											
170.	ug/kg	N.D.		34	22	41	61			20	132
3775 Phenanthrene											
33.	ug/kg	N.D.		69	45	30	94			42	141
3776 Anthracene											
33.	ug/kg	N.D.		69	52	25	95			45	132
4702 Carbazole											
33.	ug/kg	N.D.		70	55	23	94			48	129
3777 Di-n-butylphthalate											
67.	ug/kg	N.D.		71	56	23	97			54	133
3778 Fluoranthene											
33.	ug/kg	N.D.		64	36	33	92			37	142
1195 Pyrene											
33.	ug/kg	N.D.		67	43	28	103			34	145
3780 Butylbenzylphthalate											
67.	ug/kg	N.D.		72	59	21	104			47	138
3783 3,3'-Dichlorobenzidine											
67.	ug/kg	N.D.		58	50	15	69			2	132
3781 Benzo(a)anthracene											
33.	ug/kg	N.D.		69	47	29	94			44	133

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LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
3784 bis(2-Ethylhexyl)phthalate											
67.	ug/kg	N.D.		77	62	21	109			41	145
3732 Chrysene											
33.	ug/kg	N.D.		69	47	29	96			42	136
3735 Di-n-octylphthalate											
67.	ug/kg	N.D.		83	67	21	117			43	156
3786 Benzo(b)fluoranthene											
33.	ug/kg	N.D.		63	45	24	94			35	140
3787 Benzo(k)fluoranthene											
33.	ug/kg	N.D.		71	54	25	99			38	145
3788 Benzo(a)pyrene											
33.	ug/kg	N.D.		67	50	23	98			38	141
3789 Indeno(1,2,3-cd)pyrene											
33.	ug/kg	N.D.		66	53	20	98			30	153
3790 Dibenz(a,h)anthracene											
33.	ug/kg	N.D.		70	56	21	97			32	151
3791 Benzo(g,h,i)perylene											
33.	ug/kg	N.D.		68	53	22	97			29	151
123 Cyanide (Reactivity)		Batch: 99217104201									
100.	mg/kg	N.D.	0 (1)	3	2	37	105			88	121
0111 Moisture		Batch: 992130091820002A									
0.50	% by wt.		1				100	100	0	99	101
394 pH		Batch: 992150239039400A									
0.010			0				99	100	1	98	102
0542 Ignitability		Batch: 992160286054200A									
121 Reactivity		Batch: 992170416112100A									
	see below										
1122 Sulfide (Reactivity)		Batch: 992170416112100A									
39.	mg/kg	N.D.	0 (1)	24	29	21	85			80	120

(1) The result for one or both determinations was less than five times the LOQ.

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LLI Sample No. 3202272
SP01TP03 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS LOW	HIGH
1225 TCL Pesticides in Solids	TCX	122	30	163
	DCB	180	42	184
4688 TCL SW846 Semivolatiles Soil	Phenol-d6	78	47	127
	2-Flphenol	71	47	126
	2,4,6-TBP	77	36	150
4689 TCL SW846 Semivolatiles/Soil	Nitrobz-d5	65	45	128
	2-Fbiphnyl	68	49	123
	Tphenyld14	95	40	146
6292 TCL by 8260 (soil)	DBFM	105	80	120
	d4-1,2-DCA	101	80	120
	d8-toluene	101	81	117
	4-BFB	100	74	121

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AUG 30 1999

LLI Sample No. TL 3202273
Collected: 07/27/99 at 14:30 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SPC1TP03 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

ENTERED IN DATA BASE + ArcVue
BY/DATE MSP 8/26/99
CHECKED BY MLA
DATE 8-27-99

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS
1746	Barium	0.57	0.0015	mg/l
1751	Chromium	N.D.	0.0054	mg/l
1753	Copper	N.D.	0.0058	mg/l
1755	Lead	N.D.	0.023	mg/l
1766	Silver	N.D.	0.0057	mg/l
7035	Arsenic TR	N.D.	0.0070	mg/l
7036	Selenium TR	0.0060 J	0.0059	mg/l
7049	Cadmium TR	0.0024	0.00063	mg/l
7072	Zinc TR	0.071	0.0036	mg/l
0259	Mercury	N.D.	0.000042	mg/l

The metal analyses were performed on a non-volatile leachate prepared according to the procedure specified in SW-846, Chapter 7.4 (Revision 3, December, 1994). A sample is considered to have failed the Toxicity Characteristic (TC) test and is considered a hazardous waste if any of the metal concentrations (mg/l) in the leachate exceed the following maxima (100 times the Primary Drinking Water Standards):

Arsenic	5.0	Cadmium	1.0	Lead	5.0	Selenium	1.0
Barium	100.0	Chromium	5.0	Mercury	0.2	Silver	5.0

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
21:23:27 D 0001 25 138873 676387
885 0.00 00013600 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

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LLI Sample No. TL 3202273
Collected: 07/27/99 at 14:30 by MP

Submitted: 07/29/99

Account No: 10160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SPC1TP03 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
1746	Barium	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
1751	Chromium	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
1753	Copper	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
1755	Lead	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
1765	Silver	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
5705	Ww/TL SW 846 ICP Digest (tot)	SW-846 3010A	1		08/03/99 2139	Marie D. Kimmel
7035	Arsenic TR	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
7036	Selenium TR	SW-846 6010B	1		08/16/99 0453	Donna R. Sackett
7049	Cadmium TR	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
7072	Zinc TR	SW-846 6010B	1		08/10/99 2310	Donna R. Sackett
0259	Mercury	SW-846 7470A	1		08/04/99 1654	Nelli S. Markaryan
5713	WW SW846 Hg Digest	SW-846 7470A	1		08/03/99 2115	Nelli S. Markaryan
0947	TCLP Non-volatile Extraction	SW-846 1311	1		08/02/99 1500	James D. Cowan

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Where quality is a science.

LLI Sample No. 3202273
SP01TP03 Grab Soil Sample (TCLP Non-Volatile Ext.)
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1746 Barium		Batch: 992155705003									
0.0015	mg/l	N.D.	0 (1)	84	85	1	100			80	120
.751 Chromium		Batch: 992155705003									
0.0054	mg/l	N.D.	0 (1)	83	84	2	102			80	120
1753 Copper		Batch: 992155705003									
0.0058	mg/l	N.D.	3	85	85	0	99			80	120
.755 Lead		Batch: 992155705003									
0.023	mg/l	N.D.	0 (1)	82	83	1	100			80	120
1766 Silver		Batch: 992155705003									
0.0057	mg/l	N.D.	0 (1)	77	78	1	98			80	120
035 Arsenic TR		Batch: 992155705003									
0.0070	mg/l	N.D.	2	81	81	0	97			80	120
7036 Selenium TR		Batch: 992155705003									
0.0059	mg/l	N.D.	0 (1)	84	82	2	100			80	120
049 Cadmium TR		Batch: 992155705003									
0.0063	mg/l	N.D.	0 (1)	84	85	1	100			80	120
.072 Zinc TR		Batch: 992155705003									
0.0036	mg/l	N.D.	0 (1)	85	86	1	99			80	120
0259 Mercury		Batch: 992155713003									
0.000042	mg/l	N.D.	0 (1)	80	76	6	102			80	120

1) The result for one or both determinations was less than five times the LOQ.

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AUG 2 0 1999

LLI Sample No. SW 3202274
Collected: 07/27/99 at 14:55 by MP

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

+ Arc View
MCP 8/26/99
8-27-99

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS	METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS	METHOD DETECTION LIMIT
6292	TCL by 8260 (soil)			See Page 2		
1225	TCL Pesticides in Solids			See Page 3		
4688	TCL SW846 Semivolatiles Soil			See Page 4		
4689	TCL SW846 Semivolatiles/Soil			See Page 5		
1123	Cyanide (Reactivity)	N.D.	100.	mg/kg		
0111	Moisture	15.8	0.50	% by wt.		
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius.					
0394	pH	7.86	0.010			
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					
0496	Corrosivity	See Below	1.0	See Below		
	Corrosivity: The pH of a 1:1 slurry (with deionized water) was 7.86 indicating that the waste is not corrosive. A waste is corrosive if it exhibits a pH equal to or less than 2 or equal to or greater than 12.5.					
0542	Ignitability	See Below		See Below		
	The sample did not spontaneously ignite when exposed to air or water. The sample did not ignite by friction. The sample vapors did not ignite when exposed to a flame using a closed cup apparatus.					
1121	Reactivity	See Below		See Below		
	Reactivity The sample was extracted by the interim method described in SW 846, Chapter 7.3. This solution was analyzed for cyanide and sulfide. This waste is not considered reactive and hazardous because it does not generate a quantity of hydrogen cyanide exceeding 250 mg/kg or hydrogen sulfide exceeding 500 mg/kg. These interim threshold limits were established by the Solid Waste Branch of EPA, July, 1992. These results do not reflect total cyanide or total sulfide.					
1122	Sulfide (Reactivity)	N.D.	39.	mg/kg		
	The relative percent difference (RPD) between the MS and MSD on the batch associated with this sample was 21%. The acceptable RPD for this analysis is 20%. The MS and MSD were both within specifications.					

1 COPY TO Leggette, Brashears & Graham ATTN: Mr. Ken Vogel

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300
21:23:54 D 0001 25 138873 676387
885 0.00 00072200 ASR000

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

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Lancaster Laboratories
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LLI Sample No. SW 3202274
Collected: 07/27/99 at 14:55 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL by 8260 (soil)								
5444	Chloromethane	N.D.		2.	ug/kg	N.D.		2.
5446	Bromomethane	N.D.		3.	ug/kg	N.D.		4.
5445	Vinyl Chloride	N.D.		2.	ug/kg	N.D.		2.
5447	Chloroethane	N.D.		3.	ug/kg	N.D.		4.
5450	Methylene Chloride	10.		2.	ug/kg	11.		2.
6293	Acetone	15.	J	7.	ug/kg	18.	J	8.
6294	Carbon Disulfide	N.D.		3.	ug/kg	N.D.		4.
5449	1,1-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.
5452	1,1-Dichloroethane	N.D.		1.	ug/kg	N.D.		1.
5455	Chloroform	N.D.		1.	ug/kg	N.D.		1.
5461	1,2-Dichloroethane	N.D.		2.	ug/kg	N.D.		2.
6296	2-Butanone	N.D.		7.	ug/kg	N.D.		8.
5457	1,1,1-Trichloroethane	N.D.		1.	ug/kg	N.D.		1.
5458	Carbon Tetrachloride	N.D.		1.	ug/kg	N.D.		1.
5465	Bromodichloromethane	N.D.		2.	ug/kg	N.D.		2.
5480	1,1,2,2-Tetrachloroethane	N.D.		1.	ug/kg	N.D.		1.
5463	1,2-Dichloropropane	N.D.		3.	ug/kg	N.D.		4.
6297	trans-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.		1.
5462	Trichloroethene	3.	J	1.	ug/kg	4.	J	1.
5470	Dibromochloromethane	N.D.		1.	ug/kg	N.D.		1.
5467	1,1,2-Trichloroethane	N.D.		2.	ug/kg	N.D.		2.
5460	Benzene	N.D.		1.	ug/kg	N.D.		1.
6298	cis-1,3-Dichloropropene	N.D.		1.	ug/kg	N.D.		1.
5478	Bromoform	N.D.		1.	ug/kg	N.D.		1.
6299	4-Methyl-2-pentanone	N.D.		3.	ug/kg	N.D.		4.
6300	2-Hexanone	N.D.		3.	ug/kg	N.D.		4.
5468	Tetrachloroethene	N.D.		1.	ug/kg	N.D.		1.
5466	Toluene	N.D.		1.	ug/kg	N.D.		1.
5472	Chlorobenzene	N.D.		1.	ug/kg	N.D.		1.
5474	Ethylbenzene	N.D.		1.	ug/kg	N.D.		1.
5477	Styrene	N.D.		1.	ug/kg	N.D.		1.
6301	Xylene (Total)	N.D.		1.	ug/kg	N.D.		1.
5451	trans-1,2-Dichloroethene	N.D.		2.	ug/kg	N.D.		2.
5454	cis-1,2-Dichloroethene	7.		2.	ug/kg	8.		2.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Duane A. Luckenbill, B.S.
Group Leader, GC/MS Volatiles

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LLI Sample No. SW 3202274
Collected: 07/27/99 at 14:55 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL Pesticides in Solids								
1981	Alpha BHC	N.D.		0.67	ug/kg	N.D.		0.80
1982	Beta BHC	N.D.		0.67	ug/kg	N.D.		0.80
1983	Delta BHC	N.D.		0.67	ug/kg	N.D.		0.80
1218	Gamma BHC - Lindane	N.D.		0.67	ug/kg	N.D.		0.80
1219	Heptachlor	N.D.		0.67	ug/kg	N.D.		0.80
1220	Aldrin	N.D.		0.67	ug/kg	N.D.		0.80
1984	Heptachlor Epoxide	1.69	J	0.67	ug/kg	2.00	J	0.80
1989	Endosulfan I	N.D.		0.67	ug/kg	N.D.		0.80
1222	Dieldrin	N.D.		1.3	ug/kg	N.D.		1.5
1985	DDE	N.D.		1.3	ug/kg	N.D.		1.5
1223	Endrin	1.7	J	1.3	ug/kg	2.1	J	1.5
1990	Endosulfan II	N.D.		1.3	ug/kg	N.D.		1.5
1986	DDD	N.D.		1.3	ug/kg	N.D.		1.5
1991	Endosulfan Sulfate	N.D.		1.3	ug/kg	N.D.		1.5
1221	DDT	15.1		1.3	ug/kg	17.9		1.5
3017	Endrin Ketone	N.D.		1.3	ug/kg	N.D.		1.5
1859	Methoxychlor	13.5	J	6.7	ug/kg	16.0	J	8.0
3025	Alpha Chlordane	N.D.		0.67	ug/kg	N.D.		0.80
3026	Gamma Chlordane	N.D.		0.67	ug/kg	N.D.		0.80
1988	Toxaphene	N.D.		67.	ug/kg	N.D.		80.
1992	Endrin Aldehyde	N.D.		1.3	ug/kg	N.D.		1.5
1993	PCB-1016	N.D.		33.	ug/kg	N.D.		39.
1994	PCB-1221	N.D.		33.	ug/kg	N.D.		39.
1995	PCB-1232	N.D.		33.	ug/kg	N.D.		39.
1996	PCB-1242	N.D.		33.	ug/kg	N.D.		39.
1997	PCB-1248	N.D.		33.	ug/kg	N.D.		39.
1998	PCB-1254	N.D.		33.	ug/kg	N.D.		39.
1999	PCB-1260	N.D.		33.	ug/kg	N.D.		39.

Due to the nature of the sample matrix, a dilution of the sample was used for analysis. The Limits of Quantitation (LOQ's) were raised accordingly.

This analysis was performed at a 10x dilution of the original sample.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Jenifer E. Hess, B.S.
Group Leader Pesticides/PCBs

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LLI Sample No. SW 3202274
Collected: 07/27/99 at 14:55 by MP

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Account No: 10160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles Soil								
1185	Phenol	N.D.		67.	ug/kg	N.D.		80.
3753	bis(2-Chloroethyl)ether	N.D.		33.	ug/kg	N.D.		39.
1186	2-Chlorophenol	N.D.		33.	ug/kg	N.D.		39.
3754	1,3-Dichlorobenzene	N.D.		33.	ug/kg	N.D.		39.
1187	1,4-Dichlorobenzene	N.D.		33.	ug/kg	N.D.		39.
3755	1,2-Dichlorobenzene	N.D.		33.	ug/kg	N.D.		39.
4690	2-Methylphenol	N.D.		33.	ug/kg	N.D.		39.
4691	2,2'-oxybis(1-Chloropropane)	N.D.		33.	ug/kg	N.D.		39.
4692	4-Methylphenol	N.D.		67.	ug/kg	N.D.		80.
1188	N-Nitroso-di-n-propylamine	N.D.		33.	ug/kg	N.D.		39.
3757	Hexachloroethane	N.D.		33.	ug/kg	N.D.		39.
3758	Nitrobenzene	N.D.		33.	ug/kg	N.D.		39.
3759	Isophorone	N.D.		33.	ug/kg	N.D.		39.
3746	2-Nitrophenol	N.D.		67.	ug/kg	N.D.		80.
3747	2,4-Dimethylphenol	N.D.		67.	ug/kg	N.D.		80.
3760	bis(2-Chloroethoxy)methane	N.D.		67.	ug/kg	N.D.		80.
3748	2,4-Dichlorophenol	N.D.		67.	ug/kg	N.D.		80.
1189	1,2,4-Trichlorobenzene	N.D.		33.	ug/kg	N.D.		39.
3761	Naphthalene	96.	J	33.	ug/kg	110.	J	39.
4693	4-Chloroaniline	N.D.		33.	ug/kg	N.D.		39.
3762	Hexachlorobutadiene	N.D.		67.	ug/kg	N.D.		80.
1190	4-Chloro-3-methylphenol	N.D.		67.	ug/kg	N.D.		80.
4694	2-Methylnaphthalene	40.	J	33.	ug/kg	48.	J	39.
3763	Hexachlorocyclopentadiene	N.D.		170.	ug/kg	N.D.		200.
3749	2,4,6-Trichlorophenol	N.D.		67.	ug/kg	N.D.		80.
4695	2,4,5-Trichlorophenol	N.D.		67.	ug/kg	N.D.		80.
3764	2-Chloronaphthalene	N.D.		33.	ug/kg	N.D.		39.
4696	2-Nitroaniline	N.D.		33.	ug/kg	N.D.		39.
3766	Dimethylphthalate	N.D.		67.	ug/kg	N.D.		80.
3765	Acenaphthylene	76.	J	33.	ug/kg	90.	J	39.

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

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LLI Sample No. SW 3202274
Collected: 07/27/99 at 14:55 by MP

Account No: I0160

Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

P.O. N99C403749-A
Rel. YGQP9900241

Submitted: 07/29/99 Reported: 08/16/99
Discard: 10/16/99

SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

CAT NO.	ANALYSIS NAME	AS RECEIVED RESULTS		METHOD DETECTION LIMIT	UNITS	DRY WEIGHT RESULTS		METHOD DETECTION LIMIT
TCL SW846 Semivolatiles/Soil								
4697	3-Nitroaniline	N.D.		67.	ug/kg	N.D.		80.
1191	Acenaphthene	49.	J	33.	ug/kg	58.	J	39.
3750	2,4-Dinitrophenol	N.D.		230.	ug/kg	N.D.		270.
1192	4-Nitrophenol	N.D.		170.	ug/kg	N.D.		200.
4698	Dibenzofuran	69.	J	33.	ug/kg	82.	J	39.
1193	2,4-Dinitrotoluene	N.D.		67.	ug/kg	N.D.		80.
3767	2,6-Dinitrotoluene	N.D.		33.	ug/kg	N.D.		39.
3770	Diethylphthalate	N.D.		67.	ug/kg	N.D.		80.
3769	4-Chlorophenyl-phenylether	N.D.		33.	ug/kg	N.D.		39.
3768	Fluorene	94.	J	33.	ug/kg	110.	J	39.
4700	4-Nitroaniline	N.D.		67.	ug/kg	N.D.		80.
3751	4,6-Dinitro-2-methylphenol	N.D.		170.	ug/kg	N.D.		200.
3772	N-Nitrosodiphenylamine	N.D.		33.	ug/kg	N.D.		39.
3773	4-Bromophenyl-phenylether	N.D.		67.	ug/kg	N.D.		80.
3774	Hexachlorobenzene	N.D.		33.	ug/kg	N.D.		39.
1194	Pentachlorophenol	N.D.		170.	ug/kg	N.D.		200.
3775	Phenanthrene	730.		33.	ug/kg	860.		39.
3776	Anthracene	220.	J	33.	ug/kg	260.	J	39.
4702	Carbazole	82.	J	33.	ug/kg	97.	J	39.
3777	Di-n-butylphthalate	N.D.		67.	ug/kg	N.D.		80.
3778	Fluoranthene	1,100.		33.	ug/kg	1,300.		39.
1195	Pyrene	970.		33.	ug/kg	1,200.		39.
3780	Butylbenzylphthalate	N.D.		67.	ug/kg	N.D.		80.
3783	3,3'-Dichlorobenzidine	N.D.		67.	ug/kg	N.D.		80.
3781	Benzo(a)anthracene	560.		33.	ug/kg	660.		39.
3784	bis(2-Ethylhexyl)phthalate	N.D.		67.	ug/kg	N.D.		80.
3782	Chrysene	530.		33.	ug/kg	640.		39.
3785	Di-n-octylphthalate	N.D.		67.	ug/kg	N.D.		80.
3786	Benzo(b)fluoranthene	690.		33.	ug/kg	820.		39.
3787	Benzo(k)fluoranthene	290.	J	33.	ug/kg	340.	J	39.
3788	Benzo(a)pyrene	520.		33.	ug/kg	620.		39.
3789	Indeno(1,2,3-cd)pyrene	400.		33.	ug/kg	480.		39.
3790	Dibenz(a,h)anthracene	100.	J	33.	ug/kg	120.	J	39.
3791	Benzo(g,h,i)perylene	340.		33.	ug/kg	400.		39.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Questions? Contact your Client Services Representative
Kathy Klinefelter at (717) 656-2300

Respectfully Submitted
Charles J. Neslund, B.S.
Group Leader, GC/MS SVOA

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LLI Sample No. SW 3202274
Collected: 07/27/99 at 14:55 by MP

Submitted: 07/29/99

Account No: 10160
Chrysler Corporation
PO Box 537933
Livonia MI 48153-7933

SPC1TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH
1TP04 SDG#:

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS ID	DATE AND TIME	ANALYST
6292	TCL by 8260 (soil)	SW-846 8260B	1		08/03/99 1650	Bryan J. Polick
0819	Solid Sample Pesticide Extract	SW-846 3550B	1		07/31/99 0720	Ginelle L. Haines
1225	TCL Pesticides in Solids	SW-846 8081A/8082	1		08/04/99 0555	Douglas D. Seitz
0381	BNA Soil Extraction	SW-846 3550B	1		08/03/99 2000	Karen L. Beyer
4688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1		08/06/99 1557	Heidi L. Ortenzi
4689	TCL SW846 Semivolatiles/Soil	SW-846 8270C	1		08/06/99 1557	Heidi L. Ortenzi
1123	Cyanide (Reactivity)	SW-846 9012	1		08/05/99 2200	Venia M. McFadden
0111	Moisture	EPA 160.3 modified	1		08/01/99 1929	Gabriel Agosto
0394	pH	SW-846 9045C (modified)	1		08/03/99 2200	Luz M. Groff
0542	Ignitability	40 CFR 261.21	1		08/04/99 1130	Catherine L. Cammauf
1121	Reactivity	SW-846 Chapter 7.3	1		08/05/99 0805	Susan E. Hibner
1122	Sulfide (Reactivity)	SW-846 9034	1		08/05/99 0805	Susan E. Hibner

Lancaster Laboratories
Where quality is a science.

LLI Sample No. 3202274
SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
6292 TCL by 8260 (soil)		Batch: E992121AD									
5444 Chloromethane											
2.	ug/kg	N.D.		105	108	2	104			48	130
5446 Bromomethane											
3.	ug/kg	N.D.		99	108	9	99			46	134
5445 Vinyl Chloride											
2.	ug/kg	N.D.		108	113	5	100			60	127
5447 Chloroethane											
3.	ug/kg	N.D.		99	104	5	96			30	142
5450 Methylene Chloride											
2.	ug/kg	N.D.		9	1	6	104			69	126
6293 Acetone											
7.	ug/kg	N.D.		104	99	6	78			46	133
6294 Carbon Disulfide											
3.	ug/kg	N.D.		96	97	1	88			52	165
5449 1,1-Dichloroethene											
2.	ug/kg	N.D.		112	112	0	103			69	146
5452 1,1-Dichloroethane											
1.	ug/kg	N.D.		113	117	3	114			81	130
5455 Chloroform											
1.	ug/kg	N.D.		107	114	7	113			82	123
5461 1,2-Dichloroethane											
2.	ug/kg	N.D.		103	109	6	115			81	123
6296 2-Butanone											
7.	ug/kg	N.D.		114	117	2	110			47	153
5457 1,1,1-Trichloroethane											
1.	ug/kg	N.D.		110	115	4	120			84	132
5458 Carbon Tetrachloride											
1.	ug/kg	N.D.		109	116	6	121			78	129
5465 Bromodichloromethane											
2.	ug/kg	N.D.		106	112	6	114			80	121
5480 1,1,2,2-Tetrachloroethane											
1.	ug/kg	N.D.		108	108	0	101			70	124
5463 1,2-Dichloropropane											
3.	ug/kg	N.D.		113	117	4	114			77	127
6297 trans-1,3-Dichloropropene											
1.	ug/kg	N.D.		103	108	4	105			69	131
5462 Trichloroethene											
1.	ug/kg	N.D.		111	116	5	112			81	123
5470 Dibromochloromethane											
1.	ug/kg	N.D.		106	109	3	112			80	120
5467 1,1,2-Trichloroethane											
2.	ug/kg	N.D.		111	110	1	108			81	124
5460 Benzene											
1.	ug/kg	N.D.		116	119	2	113			77	126
6298 cis-1,3-Dichloropropene											
1.	ug/kg	N.D.		110	115	4	112			79	126

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Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
See reverse side for explanation of symbols and abbreviations.

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LLI Sample No. 3202274
SP01TP04 Grab Soil Sample
Site Code: SC001 RFA#: YGQP9900241
Dayton Thermal Products/Dayton, OH

Group No. 676387
Chrysler Corporation

	SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5478	Bromoform											
	1.	ug/kg	N.D.		102	101	1	107			73	120
6299	4-Methyl-2-pentanone											
	3.	ug/kg	N.D.		102	108	6	110			63	123
6300	2-Hexanone											
	3.	ug/kg	N.D.		105	107	1	104			60	128
5468	Tetrachloroethene											
	1.	ug/kg	N.D.		115	120	4	114			83	150
5466	Toluene											
	1.	ug/kg	N.D.		114	113	1	105			74	128
5472	Chlorobenzene											
	1.	ug/kg	N.D.		114	112	2	108			81	121
5474	Ethylbenzene											
	1.	ug/kg	N.D.		117	116	0	112			86	129
5477	Styrene											
	1.	ug/kg	N.D.		116	114	2	108			84	127
6301	Xylene (Total)											
	1.	ug/kg	N.D.		117	116	1	111			88	128
5451	trans-1,2-Dichloroethene											
	2.	ug/kg	N.D.		115	119	4	111			73	126
5454	cis-1,2-Dichloroethene											
	2.	ug/kg	N.D.		113	117	3	112			84	123
225 TCL Pesticides in Solids			Batch: 992110011A									
1981	Alpha BHC											
	0.67	ug/kg	N.D.		84	85	1	102			38	156
1982	Beta BHC											
	0.67	ug/kg	N.D.		94	93	1	97			40	153
1983	Delta BHC											
	0.67	ug/kg	N.D.		76	76	0	97			44	145
1218	Gamma BHC - Lindane											
	0.67	ug/kg	N.D.		84	83	1	102			51	142
1219	Heptachlor											
	0.67	ug/kg	N.D.		85	81	5	100			59	140
1220	Aldrin											
	0.67	ug/kg	N.D.		105	100	4	100			55	132
1984	Heptachlor Epoxide											
	0.67	ug/kg	N.D.		93	91	2	99			58	129
1989	Endosulfan I											
	0.67	ug/kg	N.D.		185	185	0	81			56	123
1222	Dieldrin											
	1.3	ug/kg	N.D.		86	85	1	90			63	133
1985	DDE											
	1.3	ug/kg	N.D.		102	101	1	101			47	159
1223	Endrin											
	1.3	ug/kg	N.D.		105	104	0	112			70	150
1990	Endosulfan II											
	1.3	ug/kg	N.D.		44	51	16	89			46	138

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SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1986 DDD											
1.3	ug/kg	N.D.		108	107	1	101			53	141
1991 Endosulfan Sulfate											
1.3	ug/kg	N.D.		88	84	5	108			40	150
1221 DDT											
1.3	ug/kg	N.D.		107	107	0	110			60	138
3017 Endrin Ketone											
1.3	ug/kg	N.D.		90	90	0	92			62	137
1859 Methoxychlor											
6.7	ug/kg	N.D.		132	124	6	128			52	174
3025 Alpha Chlordane											
0.67	ug/kg	N.D.		151	149	1	100			68	141
3026 Gamma Chlordane											
0.67	ug/kg	N.D.		100	97	2	97			65	129
1988 Toxaphene											
67.	ug/kg	N.D.									
1992 Endrin Aldehyde											
1.3	ug/kg	N.D.		82	82	1	83			75	125
1993 PCB-1016											
33.	ug/kg	N.D.									
1994 PCB-1221											
33.	ug/kg	N.D.									
1995 PCB-1232											
33.	ug/kg	N.D.									
1996 PCB-1242											
33.	ug/kg	N.D.									
1997 PCB-1248											
33.	ug/kg	N.D.									
1998 PCB-1254											
33.	ug/kg	N.D.									
1999 PCB-1260											
33.	ug/kg	N.D.									
88 TCL SW846 Semivolatiles Soil		Batch: 99215SLD026									
1185 Phenol											
67.	ug/kg	N.D.		63	49	24	87			40	128
3753 bis(2-Chloroethyl)ether											
33.	ug/kg	N.D.		58	42	32	91			38	131
1186 2-Chlorophenol											
33.	ug/kg	N.D.		62	47	28	90			44	127
3754 1,3-Dichlorobenzene											
33.	ug/kg	N.D.		44	28	44	87			31	121
1187 1,4-Dichlorobenzene											
33.	ug/kg	N.D.		44	29	43	86			36	119
3755 1,2-Dichlorobenzene											
33.	ug/kg	N.D.		48	31	42	88			39	120
4690 2-Methylphenol											
33.	ug/kg	N.D.		61	48	25	89			42	127

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SP01TP04 Grab Soil Sample
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Chrysler Corporation

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4691 2,2'-oxybis(1-Chloropropane)											
33.	ug/kg	N.D.		54	38	34	88			38	151
4692 4-Methylphenol											
67.	ug/kg	N.D.		62	49	23	89			33	139
1188 N-Nitroso-di-n-propylamine											
33.	ug/kg	N.D.		64	49	26	92			39	142
3757 Hexachloroethane											
33.	ug/kg	N.D.		44	28	44	89			29	128
3758 Nitrobenzene											
33.	ug/kg	N.D.		59	44	29	91			42	131
3759 Isophorone											
33.	ug/kg	N.D.		61	47	25	89			46	130
3746 2-Nitrophenol											
67.	ug/kg	N.D.		65	50	28	97			36	141
3747 2,4-Dimethylphenol											
67.	ug/kg	N.D.		60	48	22	90			40	132
3760 bis(2-Chloroethoxy)methane											
67.	ug/kg	N.D.		63	49	26	93			44	127
3748 2,4-Dichlorophenol											
67.	ug/kg	N.D.		64	50	23	91			41	128
1189 1,2,4-Trichlorobenzene											
33.	ug/kg	N.D.		54	39	32	92			44	121
3761 Naphthalene											
33.	ug/kg	N.D.		55	41	31	89			34	133
4693 4-Chloroaniline											
33.	ug/kg	N.D.		50	41	18	42			1	113
3762 Hexachlorobutadiene											
67.	ug/kg	N.D.		52	36	36	92			39	133
1190 4-Chloro-3-methylphenol											
67.	ug/kg	N.D.		65	52	22	93			47	135
4694 2-Methylnaphthalene											
33.	ug/kg	N.D.		59	45	27	90			43	131
3763 Hexachlorocyclopentadiene											
170.	ug/kg	N.D.		35	24	38	69			1	141
3749 2,4,6-Trichlorophenol											
67.	ug/kg	N.D.		64	52	22	90			39	141
4695 2,4,5-Trichlorophenol											
67.	ug/kg	N.D.		64	52	21	87			45	136
3764 2-Chloronaphthalene											
33.	ug/kg	N.D.		64	51	23	92			48	127
4696 2-Nitroaniline											
33.	ug/kg	N.D.		71	58	21	101			25	139
3766 Dimethylphthalate											
67.	ug/kg	N.D.		67	55	21	95			53	127
3765 Acenaphthylene											
33.	ug/kg	N.D.		62	50	21	89			44	126

589 TCL SW846 Semivolatiles/Soil Batch: 99215SLD026

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SP01TP04 Grab Soil Sample
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SAMPLE MDL	SAMPLE UNITS		BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
4697 3-Nitroaniline	67.	ug/kg	N.D.		61	52	17	66			18	117
1191 Acenaphthene	33.	ug/kg	N.D.		63	51	21	91			47	127
3750 2,4-Dinitrophenol	230.	ug/kg	N.D.		35	26	29	55			1	133
1192 4-Nitrophenol	170.	ug/kg	N.D.		60	46	27	83			31	161
4698 Dibenzofuran	33.	ug/kg	N.D.		66	54	21	93			53	125
1193 2,4-Dinitrotoluene	67.	ug/kg	N.D.		67	54	21	95			50	131
3767 2,6-Dinitrotoluene	33.	ug/kg	N.D.		71	58	21	103			53	130
3770 Diethylphthalate	67.	ug/kg	N.D.		68	56	20	97			54	130
3769 4-Chlorophenyl-phenylether	33.	ug/kg	N.D.		67	54	21	92			47	132
3768 Fluorene	33.	ug/kg	N.D.		65	53	20	92			42	142
4700 4-Nitroaniline	67.	ug/kg	N.D.		64	52	20	86			30	127
3751 4,6-Dinitro-2-methylphenol	170.	ug/kg	N.D.		52	37	33	76			14	143
3772 N-Nitrosodiphenylamine	33.	ug/kg	N.D.		70	57	21	97			49	130
3773 4-Bromophenyl-phenylether	67.	ug/kg	N.D.		70	57	22	96			53	132
3774 Hexachlorobenzene	33.	ug/kg	N.D.		70	56	22	95			40	144
1194 Pentachlorophenol	170.	ug/kg	N.D.		34	22	41	61			20	132
3775 Phenanthrene	33.	ug/kg	N.D.		69	45	30	94			42	141
3776 Anthracene	33.	ug/kg	N.D.		69	52	25	95			45	132
4702 Carbazole	33.	ug/kg	N.D.		70	55	23	94			48	129
3777 Di-n-butylphthalate	67.	ug/kg	N.D.		71	56	23	97			54	133
3778 Fluoranthene	33.	ug/kg	N.D.		64	36	33	92			37	142
1195 Pyrene	33.	ug/kg	N.D.		67	43	28	103			34	145
3780 Butylbenzylphthalate	67.	ug/kg	N.D.		72	59	21	104			47	138
3783 3,3'-Dichlorobenzidine	67.	ug/kg	N.D.		58	50	15	69			2	132
3781 Benzo(a)anthracene	33.	ug/kg	N.D.		69	47	29	94			44	133