US EPA RECORDS CENTER REGION 5
554248

SAMPLING DATA

M E M O R A N D U M

DATE: 2-19-88

TO: William Messenger, U.S. EPA

FROM: Cathy Schlesinger

SUBJECT: Drinking Water Sample Results

Sample RW2

Site Name Town & Country Auto Parts

PAN # F0H0523SA

TDD # F05-8703-347

EPA ID # OHD103536876

Please find attached the data summary sheets, a copy of the original data, and laboratory blank/quality control information for the drinking water sample collected from:

Name Richard Elsen / Town & Country Auto Parts

Address 6800 River Rd.

City New Baltimore (Harrison)

State OHIO

Zip Code 45030

Phone Number 513/385-4040

0099:3

No Contamination _X_
No hits above any health-related standards.

C.
6-9-88

RESIDENTIAL

WELL WATER

SAMPLE DATA

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 2 / CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM								1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE								1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE								75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE								15	
4-METHYL-2-PENTANONE								(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
ISOPHORONE								2.5	
2-NITROPHENOL								2	
2,4-DIMETHYLPHENOL								2	
BIS(2-CHLOROETHOXY) METHANE								2.5	
2,4-DICHLOROPHENOL								2	
1,2,4-TRICHLOROBENZENE								2	
NAPHTHALENE								2	
4-CHLOROANILINE								2	
HEXACHLOROBUTADIENE								2.5	
BENZOIC ACID								(30)	
2-METHYLNAPTHALENE								2	
4-CHLORO-3-METHYLPHENOL								1.5	
HEXACHLOROCYCLOPENTADIENE								2	
2,4,6-TRICHLOROPHENOL								1.5	
2,4,5-TRICHLOROPHENOL		10	52					1.5	
2-CHLORONAPTHALENE								1.5	
ACENAPTHYLENE								1.5	
DIMETHYL PHTHALATE								1.5	
2,6-DINITROTOLUENE								1	
ACENAPHTHENE								1.5	
3-NITROANILINE								2.5	
DIBENZOFURAN								1	
2,4-DINITROPHENOL								(15)	
2,4-DINITROTOLUENE								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
FLUORENE								1	
4-NITROPHENOL								1.5	
4-CHLOROPHENYL PHENYL ETHER								1	
DIETHYL PHTHALATE								1	
4,6-DINITRO-2-METHYLPHENOL								(15)	
1,2-DIPHENYLHYDRAZINE								1	
N-NITROSODIPHENYLAMINE									
DIPHENYLAMINE								1.5	
4-NITROANILINE								3	
4-BROMOPHENYL PHENYL ETHER								1.5	
HEXACHLOROBENZENE			NR					1.5	
PENTACHLOROPHENOL			220					2	
PHENANTHRENE								1	
ANTHRACENE								2.5	
DI-n-BUTYL PHTHALATE								2	
FLUORANTHENE								1.5	
PYRENE								1.5	
BUTYL BENZYL PHTHALATE								3.5	
CHRYSENE									
BENZO(a)ANTHRACENE								1.5	
BIS(2-ETHYLHEXYL) PHTHALATE	98					3B			
DI-n-OCTYL PHTHALATE								1	
BENZO(b)FLUORANTHENE								1.5	
BENZO(k)FLUORANTHENE									
BENZO(a)PYRENE								1.5	
								2	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SEMI-VOLATILE ORGANIC COMPOUNDS									
INDENO(1,2,3-cd)PYRENE								3.5	
DIBENZO(a,h)ANTHRACENE								2.5	
BENZO(g,h,i)PERYLENE								4	
2-NITROANILINE								1	
PESTICIDES AND PCBS									
ALDRIN								0.005	
alpha BHC								(0.010)	
beta BHC								(0.005)	
delta BHC								(0.005)	
gama BHC(LINDANE)		4	2					0.005	
CHLORDANE			NR					(0.020)	
4,4'-DDD								(0.020)	
4,4'-DDE								(0.005)	
4,4'-DDT								0.020	
DIELDRIN								0.010	
ENDOSULFAN I								0.010	
ENDOSULFAN II								0.010	
ENDOSULFAN SULFATE								(0.10)	
ENDRIN		0.2	0.32					0.010	
ENDRIN ALDEHYDE								(0.030)	
ENDRIN KETONE								(0.030)	
HEPTACHLOR			NR					0.030	
HEPTACHLOR EPOXIDE			NR					0.005	
4,4'-METHOXYCHLOR		5	340					0.020	
TOXAPHENE		100	NA					(0.25)	
PCB-1242			NA					(0.10)	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
PESTICIDES AND PCBS									
PCB-1248			NA					(0.10)	
PCB-1254			NA					(0.10)	
PCB-1260			NA					(0.10)	
INORGANIC ANALYTES									
ALUMINUM								80	
ANTIMONY								2	
ARSENIC		50	50R					2	
BARIUM		1000	1500					6	
BERYLLIUM								1	
BORON								80	
CADMIUM	0.62	10	5					10	
CADMIUM		10	5					0.2	
CALCIUM								0.5	
CHROMIUM	10.5	50	120					8	
COBALT								6	
COPPER	126	1000				26.7PNX		6	
IRON								80	
LEAD		50						2	
LEAD		50						70	
LITHIUM								10	
MAGNESIUM								0.1	
MANGANESE								5	
MERCURY		2	11					0.1	
MOLYBDENUM								15	
NICKEL			150					15	
POTASSIUM								2	

Table 1 (cont.)

CONTAMINANT INORGANIC ANALYTES	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SELENIUM		10						2	
SILVER		50						6	
SODIUM				20,000				1	
STRONTIUM								10	
SULFIDE								1	
SULFATE		250,000						0.05	
THALLIUM								2	
TITANIUM								25	
TIN								40	
VANADIUM								5	
YTTRIUM								5	
ZINC								40	
CYANIDE			154					8	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectroscopy
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative if it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride, acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

D. Analytical Method Qualifiers for Inorganic

"P" for ICP

"A" for Flame AA

"F" for Furnance AA

"CV" for Manual Cold Vapor AA

"AV" for Automated Cold Vapor AA

"AS" for Semi-automated Spectrophotometric

"C" for Manual Spectrophotometric

"T" for Titrimetric

"NR" if the analyte is not required to be analyzed.

Received 12-4-87
31 pages

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12/2/87

SUBJECT: Review of Region V CLP Data
Received for Review on 9-29-87

FROM: Curtis Ross, Director (5SCRL) Patrick J. Chunilla for
Central Regional Laboratory

TO: Data User: FI

We have reviewed the data for the following case(s).

SITE NAME: TOWN & COUNTRY AUTO PARTS SMO case No. 7914

EPA Data Set No. F4339 No. of Samples: 4 D.U./Activity Numbers Y905/C72100

CRL No. 87FC S47 -S50

SMO Traffic No. T126 -129

CLP Laboratory: MAZLETON Hrs. Required for Review: 3.5 hr

Following are our findings:

The review covers 4 soil sample analyses for full organics. The calibration outlier on the following pages of the review narrative.

Milia Felimonova
12/1/87

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

EPA FORM 1320-6 (Rev. 5/87)

DATA QUALIFIERS

Contractor: Hazleton

Case 7914

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

Sample holding time:
All sample holding time were met.

GC/MS Tuning and GC instrument performance:
All ions meet ion abundance criteria.
All standards were within 12 hours.
The linearity check is acceptable.

Calibration:
Compounds with a > 25 % D have been flagged as estimated (J). The continuing calibration on 8/20/87 at 10:04 instrument 5100B shows for 2-Butanone a low RF (4.05), for this positive results should be considered estimated (J) and for negative results, considered unusable (R). See calibration matrix forms.

The individual continuing calibrations:
All %D exceed between calibration factors during the 12 hour period is greater than 15% for some quantitated compounds.

Calibration dated 8/22/87; compounds:
Endosulfan II, 4,4-DDT, Methoxychlor, Alpha and Delta-BHC and Endrin.
All associated positive quantitations results should be considered as estimated (J).

Reviewed by: Nidia Filiama
Phone: 353-0651
Date: 12/1/87

PAGE ___ OF ___

DATA QUALIFIERS

Contractor: Hazleton

Case 7914

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

Blank

Common laboratory were noted such as Methylene Chloride, Acetone and Toluene for VOA and Di-n-butylphthalate for BNA. All associated positive results with concentration < 10 times blank level were flagged as undetected (UJ). Some other non common contaminant such as chloroform were noted, any positive on sample level flagged as undetected in the investigation level. < 5 times blank level.

Matrix Spike/MSD:

Recovery for VOA, Acids and Pest were within QC limits. For B/N 6 out of 12, outside QC limits. RPD: for B/N 4 out of 6) outside Q.C. limits
for Acid 3 out of 5)

Surrogates: Acceptable

For VOA and Pest recoveries were within QC limits. Semi-Volatile 4 out of 54, outside of QC limits.

Reviewed by: Milio Fabiano

Phone: 353-0651

Date: 12/1/87

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 7914 CONTRACTOR Hayleton

Instrument # Finn 51B	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/13/87 15:58			8/24/87 13:57			8/25/87 14:40			8/27/87 10:14					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether					54	J		33	J		48	J			
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol					127	J		107	J		115	J			
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether								29	J						
4-Methylphenol															
N-Nitroso-Di-n-Propylamine					26	J									
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline		67	J		94	J		73	J		88	J			
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene					26	J									
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline					67	J		26	J		62	J			
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol					39	J					34	J			
Dibenzofuran															

AFFECTED SAMPLES:

		Blank 8/21/87	ET129	Blank 8-26-87	
				ET126 115	
				ET128	

Reviewer Initials/Date: 11/30/87

* These flags should be applied to the analytes on the sample data sheets.

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

Date Received for Review 9/29 10/14 Date Review Completed 10/19/87
To: Don Clark
From: Zena Gold-Kaufman
Subject: Town v Country Auto

PAN: OH0523 Case # 7914

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	# 4	Low Soil
	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status _____ Completed!!

_____ Incomplete, awaiting: 6 org and inorg drink. water
4 org soils

FIT Data Review Findings:

* check IDADS forms for transcription errors

✓ Compounds were detected in sample(s); see enclosed Chemical Evaluation Form.

Book No. 6 Page No. 268 8/18

recycled paper

ecology and environment, inc.
CHICAGO, ILLINOIS

CHEMICAL EVALUATION FORM

SITE NAME: Town & Country PAN# OH0523 DATE: 10/14/87

CASE # 7914 UNITS- mg/kg REVIEWER: ZOK

TOX/ PERS	COMPOUND	CRDL	3-5xCRDL	746	747	748	749			
	ALUMINUM									
	ANTIMONY									
	ARSENIC	2		5.4	6.1	9.1	6			
	BARIUM									
	BERYLLIUM									
	CADMIUM	1			[2.4]		[2.5]			
	CHROMIUM	2		6.2	12	15	9.6			
	COBALT				~~10~~					
	COPPER	5		[12]	19	33	16			
	LEAD (F) ~~OK~~ J	1		8.7 J	525	161	79			
	MERCURY	.008			0.2	0.18				
	NICKEL	8		[10]	[8.5]	[14]	[9.9]			
	SELENIUM									
	SILVER									
	THALLIUM									
	TIN									
	VANADIUM	10		[11]	[9.7]	[16]	[7.7]			
	ZINC									
	CYANIDE									

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10-13-87

RECEIVED OCT 14 1987

SUBJECT: Review of Region V CLP Data
Received for Review on 9-29-87

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thilker

TO: Data User: FIT

We have reviewed the data for the following case(s).

SITE NAME: TOWN & COUNTRY AUTO PARTS SMO case No. 7914

EPA Data Set No. SF 4339 No. of Samples: 4 D.U./Activity Numbers Y905 / C72100

CRL No. 87FC16547-550

SMO Traffic No. MEU 746-749

CLP Laboratory: RMAL Hrs. Required for Review: 1½

Following are our findings:

This review covers analysis of four low soils for total metals and CN. Detection limits for Sb and Se require elevation due to spikes below limits, while the Pb spike by Furnace requires lower limits of detection. All three elements are flagged as estimated. Duplicates on Mg and Mn are OK for RPD less than soil limits of ±35%. Pb by ICP is OK.

10-9-87
DMM

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
( ) Data are unacceptable.

cc: Duane Geuder, Quality Assurance Officer, EPA Support Services
James Petty, Chief Quality Assurance Research, EMSL, Las Vegas

EPA FORM 1320-6 (Rev. 5/87)

QC EXCEPTION SUMMARY REPORT

CASE # 7914
DATA SET # SF4339
LAB Q.C. # 87217
DATE: October 9, 1987

SITE Town + Country Auto Parts
LAB R M A L
REVIEWED BY Dorothy M. May

MATRIX: soil
CONC. : low

WATER SAMPLE SPK.
WATER SAMPLE DUP.
SOIL SAMPLE SPK. MEU746
SOIL SAMPLE DUP. MEU746

	OVERALL CASE QC									MATRIX SPECIFIC QC						SAMPLE SPECIFIC QC		FIELD QC			REGIONAL QC			OTHER/ COMMENTS
	Holding Time	Cal Blanks	Init Calver	Contin Calver	Prep Blk AQ	Prep Blk SOL	ICS %R	ICS % AQ	ICS % SOL	Sol Dup RPD	Sol Spk. %R	AQ Dup RPD	AQ Spk %R	Ser Dilu AQ	Ser Dilu SOL	GFAA Dup	GFAA Spike	Blank	Dup RPD	Spike %R	Blind Blank	Blind Spike %R	Split Sample RPD	
Aluminum																								
Antimony											56%													
Arsenic																								
Barium																								
Beryllium																								
Cadmium																								
Calcium																								
Chromium																								
Cobalt																								
Copper																								
Iron																								
Lead											140%*													
Magnesium										33														
Manganese										23														
Mercury																								
Nickel																								
Potassium																								
Selenium											68%													
Silver																								
Sodium																								
Thallium																								
Tin																								
Vanadium																								
Zinc																								
Cyanide																								

* Pb by Furnace

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U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

Date 9-24-87

COVER PAGE
INORGANIC ANALYSIS DATA PACKAGE

Lab Name ROCKY MOUNTAIN ANALYTICAL
SOW No. 784

Case No. 7914
QC Report No. 87217

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
MEU746D			
MEU746			
MEU746S			
MEU747			
MEU748			
MEU749			
[MEU999]			

Comments: 4 LOW SOILS FOR TOTAL METALS AND CYANIDE ANALYSIS
SERIAL DILUTION FOR SAMPLE MEU749 IS IDENTIFIED AS [MEU999]

ICP interelement and background corrections applied? Yes X No ___.
If yes, corrections applied before X or after ___ generation of raw data.

Footnotes:

NR - not required by contract at this time
Form I:
Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the method used with P (for ICP/Flame AA) or F (for furnace).
U - indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 100).
E - indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.
S - indicates value determined by Method of Standard Addition.
N - indicates spike sample recovery is not within control limits.
* - indicates duplicate analysis is not within control limits.
+ - indicates the correlation coefficient for method of standard addition is less than 0.995
CV - indicates Cold Vapor
AS - indicates Automated Spectrophotometric

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

EPA Sample No. MEU746

Date 9-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 7914
QC REPORT NO. 87217

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	3610	P		13.	MAGNESIUM	38000	P	X
2.	ANTIMONY	14U	P	R UJ	14.	MANGANESE	509	P	X
3.	ARSENIC	NW ~~[5.4]~~ 5.4	F		15.	MERCURY	0.11U	CV	
4.	BARIUM	[41]	P		16.	NICKEL	[10]	P	
5.	BERYLLIUM	0.54U	P		17.	POTASSIUM	[490]	P	
6.	CADMIUM	2.2U	P		18.	SELENIUM	2.7U	F	R UJ
7.	CALCIUM	117000	P		19.	SILVER	2.2U	P	
8.	CHROMIUM	6.2	P		20.	SODIUM	592U	P	
9.	COBALT	4.9U	P		21.	THALLIUM	5.4U	F	
10.	COPPER	[12]	P		22.	TIN	12U	P	
11.	IRON	9480	P		23.	VANADIUM	[11]	P	
12.	LEAD	6.7	F	R UJ	24.	ZINC	32	P	

Cyanide 5.4U AS Percent Solids (%) 92

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager NW

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

EPA Sample No. MEU747

Date 9-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 7914
QC REPORT NO. 87217

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	3260	P	13.	MAGNESIUM	42100	P X
2.	ANTIMONY	14U	P R UJ	14.	MANGANESE	453	P X
3.	ARSENIC	6.1	F	15.	MERCURY	0.2	CV
4.	BARIUM	128	P	16.	NICKEL	[8.5]	P
5.	BERYLLIUM	0.56U	P	17.	POTASSIUM	[455]	P
6.	CADMIUM	[2.4]	P	18.	SELENIUM	2.8U	F R UJ
7.	CALCIUM	122000	P	19.	SILVER	2.2U	P
8.	CHROMIUM	12	P	20.	SODIUM	606U	P
9.	COBALT	5U	P	21.	THALLIUM	5.6U	F
10.	COPPER	19	P	22.	TIN	12U	P
11.	IRON	7990	P	23.	VANADIUM	[9.7]	P
12.	LEAD	525	P	24.	ZINC	249	P

Cyanide 0.56U AS Percent Solids (%) 90

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MEU748

Date 9-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 7914
QC REPORT NO. 87217

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	4670	P		13.	MAGNESIUM	27000	P X
2.	ANTIMONY	19U	P	R UJ	14.	MANGANESE	695	P X
3.	ARSENIC	9.1	F		15.	MERCURY	0.18	CV
4.	BARIUM	[101]	P		16.	NICKEL	[14]	P
5.	BERYLLIUM	0.76U	P		17.	POTASSIUM	[547]	P
6.	CADMIUM	3U	P		18.	SELENIUM	3.8U	F R UJ
7.	CALCIUM	90800	P		19.	SILVER	3U	P
8.	CHROMIUM	15	P		20.	SODIUM	826U	P
9.	COBALT	6.8U	P		21.	THALLIUM	7.6U	F
10.	COPPER	33	P		22.	TIN	17U	P
11.	IRON	16500	P		23.	VANADIUM	[16]	P
12.	LEAD	161	P		24.	ZINC	134	P

Cyanide 0.76U AS Percent Solids (%) 66

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager MW

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Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
209 Madison St. - Alexandria, VA 22314
703/557-2490 FTS: 8-557-2490

EPA Sample No.
MEU749

Date 9-24-87

INORGANIC ANALYSIS DATA SHEET

LAB NAME ROCKY MOUNTAIN ANALYTICAL
SOW NO. 784
LAB SAMPLE ID. NO. -

CASE NO. 7914
QC REPORT NO. 87217

Elements Identified and Measured

Concentration: Low X Medium ____
Matrix: Water ____ Soil X Sludge ____ Other ____

mg/kg dry weight

1.	ALUMINUM	2510	P	13.	MAGNESIUM	45600	P X
2.	ANTIMONY	14U	P R UJ	14.	MANGANESE	367	P X
3.	ARSENIC	6	F	15.	MERCURY	0.11U	CV
4.	BARIUM	[32]	P	16.	NICKEL	[9.9]	P
5.	BERYLLIUM	0.55U	P	17.	POTASSIUM	[348]	P
6.	CADMIUM	[2.5]	P	18.	SELENIUM	2.7U	F R UJ
7.	CALCIUM	119000	P	19.	SILVER	2.2U	P
8.	CHROMIUM	9.6	P	20.	SODIUM	599U	P
9.	COBALT	4.9U	P	21.	THALLIUM	5.5U	F
10.	COPPER	16	P	22.	TIN	12U	P
11.	IRON	8630	P	23.	VANADIUM	[7.7]	P
12.	LEAD	79	P	24.	ZINC	63	P

Cyanide 0.55U AS Percent Solids (%) 91

Footnotes: For reporting results to EPA, standard result qualifiers are used as defined on Cover Page. Additional flags or footnotes explaining results are encouraged. Definition of such flags must be explicit and contained on Cover Page, however.

Comments:

Lab Manager RW

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Form III

Q.C. Report No. 87217

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 7914

DATE 9-24-87 UNITS ug/L

Matrix Soils

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM		15u					
2. ANTIMONY		25u					
3. ARSENIC		~~10u~~ KS					
4. BARIUM		3u					
5. BERYLLIUM		1u					
6. CADMIUM		4u					
7. CALCIUM		179u					
8. CHROMIUM		4u					
9. COBALT		9u					
10. COPPER		6u					
11. IRON		24u					
12. LEAD		5u					
13. MAGNESIUM		153u					
14. MANGANESE		4u					
15. MERCURY							
16. NICKEL		8u					
17. POTASSIUM		175u					
18. SELENIUM							
19. SILVER		4u					
20. SODIUM		1090u					
21. THALLIUM							
22. TIN		22u					
23. VANADIUM		7u					
24. ZINC		3u					
Other:							
Cyanide							

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Form III

Q.C. Report No. 87217

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL CASE NO. 7914

DATE 9-24-87 UNITS ug/L

Matrix SOIL

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM	15U	15U				15U	
2. ANTIMONY	25U	25U				25U	
3. ARSENIC	10u	10u	10u			10u	
4. BARIUM	3U	3U				3U	
5. BERYLLIUM	1U	1U				1U	
6. CADMIUM	4U	4U				4U	
7. CALCIUM	179U	179U				179U	
8. CHROMIUM	4U	4U				4U	
9. COBALT	9U	9U				9U	
10. COPPER	6U	6U				6U	
11. IRON	24U	24U				24U	
12. LEAD	20U	20U				20U	(P)
13. MAGNESIUM	153U	153U				153U	
14. MANGANESE	[4.2]	4U				4U	
15. MERCURY	0.2u	0.2u				0.2u	
16. NICKEL	8U	8U				8U	
17. POTASSIUM	175U	175U				175U	
18. SELENIUM	5u	5u	5u			5u	
19. SILVER	4U	4U				4U	
20. SODIUM	1090U	1090U				1090U	
21. THALLIUM	10u	10u	10u			10u	
22. TIN	22U	22U				22U	
23. VANADIUM	7U	7U				7U	
24. ZINC	3U	3U				[4]	
Other:							
Cyanide	10u	10u	10u			10u	

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Form III

Q.C. Report No. 87217

BLANKS

LAB NAME ROCKY MOUNTAIN ANALYTICAL

CASE NO. 79147

DATE 9-24-87

UNITS ug/L

Matrix Soil

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. ALUMINUM							
2. ANTIMONY							
3. ARSENIC							
4. BARIUM							
5. BERYLLIUM							
6. CADMIUM							
7. CALCIUM							
8. CHROMIUM							
9. COBALT							
10. COPPER							
11. IRON							
12. LEAD	5u	5u	5u			5u	(F)
13. MAGNESIUM							
14. MANGANESE							
15. MERCURY							
16. NICKEL							
17. POTASSIUM							
18. SELENIUM							
19. SILVER							
20. SODIUM							
21. THALLIUM							
22. TIN							
23. VANADIUM							
24. ZINC							
Other:							
Cyanide							

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Form V

Q.C. Report No. 87217

SPIKE SAMPLE RECOVERY

LAB NAME ROCKY MOUNTAIN ANALYTICAL

CASE NO. 7914
EPA Sample No. MEU746
Lab Sample ID No. -
Units mg/kg

DATE 9-24-87

MATRIX SOIL

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R*	
Metals:						
1. ALUMINUM	75-125	3660	3320	NR		
2. ANTIMONY	75-125	140	12U	250	56	R
3. ARSENIC	75-125	24	[5]	20	95	
4. BARIUM	75-125	963	[38]	1000	92	
5. BERYLLIUM	75-125	24	0.5U	25	96	
6. CADMIUM	75-125	25	2U	25	100	
7. CALCIUM	75-125	117000	107000	NR		
8. CHROMIUM	75-125	103	5.7	100	97	
9. COBALT	75-125	237	4.5U	250	95	
10. COPPER	75-125	131	[11]	125	96	
11. IRON	75-125	7470	8720	NR		
12. LEAD	75-125	22 S	8.0	10	140	R(F
13. MAGNESIUM	75-125	35000	35000	NR		
14. MANGANESE	75-125	722	468	250	102	
15. MERCURY	75-125	0.48	0.1U	0.5	96	
16. NICKEL	75-125	241	[9.4]	250	93	
17. POTASSIUM	75-125	[568]	[451]	NR		
18. SELENIUM	75-125	3.4	2.5U	5	68	R
19. SILVER	75-125	28	2U	25	112	
20. SODIUM	75-125	5450	5450	NR		
21. THALLIUM	75-125	22	5U	25	88	
22. TIN	75-125	229	11U	250	92	
23. VANADIUM	75-125	254	[9.7]	250	98	
24. ZINC	75-125	260	30	250	92	
Other:						
Cyanide	75-125	4.1	5U	5	82	

* %R = [(SSR - SR)/SA] x 100
"R"- out of control

Comments: S- Determined by MSA

Form V

Q.C. Report No. 87217

SPIKE SAMPLE RECOVERY

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LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 9-24-87

MATRIX Soil

CASE NO. 7914
EPA Sample No. MEU746
Lab Sample ID No. -
Units mg/kg

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R[1]
Metals:					
1. ALUMINUM	75-125				
2. ANTIMONY	75-125				
3. ARSENIC	75-125				
4. BARIUM	75-125				
5. BERYLLIUM	75-125				
6. CADMIUM	75-125				
7. CALCIUM	75-125				
8. CHROMIUM	75-125				
9. COBALT	75-125				
10. COPPER	75-125				
11. IRON	75-125				
12. LEAD	75-125	245	~~13~~ 10u	250	98
13. MAGNESIUM	75-125				
14. MANGANESE	75-125				
15. MERCURY	75-125				
16. NICKEL	75-125				
17. POTASSIUM	75-125				
18. SELENIUM	75-125				
19. SILVER	75-125				
20. SODIUM	75-125				
21. THALLIUM	75-125				
22. TIN	75-125				
23. VANADIUM	75-125				
24. ZINC	75-125				
Other:					
Cyanide	75-125				

[1] %R = [(SSR - SR)/SA] x 100

"R"- out of control

Comments:

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Form VI

Q.C. Report No. 87217

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 9-24-87

CASE NO. 7914
EPA Sample No. MEU746
Lab Sample ID No. -
Units mg/kg

Matrix SOIL

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]	
Metals:					
1. ALUMINUM		3320	2980	11	
2. ANTIMONY		12U	12U	NC	
3. ARSENIC		[5]	[5]	NC	
4. BARIUM		[38]	[33]	NC	
5. BERYLLIUM		0.5U	0.5U	NC	
6. CADMIUM		2U	2U	NC	
7. CALCIUM		107000	89400	18	
8. CHROMIUM		5.7	6.7	16	
9. COBALT		4.5U	4.5U	NC	
10. COPPER		[11]	[9.6]	NC	
11. IRON		8720	7360	17	
12. LEAD		8.0	8.0	0	(F)
13. MAGNESIUM		35000	25000	33	X
14. MANGANESE		468	371	23	X
15. MERCURY		0.1U	0.1U	NC	
16. NICKEL		[9.4]	[13]	NC	
17. POTASSIUM		[451]	[440]	NC	
18. SELENIUM		2.5U	2.5U	NC	
19. SILVER		2U	2U	NC	
20. SODIUM		545U	545U	NC	
21. THALLIUM		5U	5U	NC	
22. TIN		11U	11U	NC	
23. VANADIUM		[9.7]	[9.4]	NC	
24. ZINC		30	26	14	
Other: % SOLIDS		92	92	0	
Cyanide		5U	5U	NC	

X Out of Control

[1] To be added at a later date.

[2] RPD = [|S-D|/((S+D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

2 of 2

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Form VI

Q.C. Report No. 87217

DUPLICATES

LAB NAME ROCKY MOUNTAIN ANALYTICAL

DATE 9-24-87

CASE NO. 7914
EPA Sample No. MEU746
Lab Sample ID No. -
Units mg/kg

MATRIX Soil

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. ALUMINUM				
2. ANTIMONY				
3. ARSENIC				
4. BARIUM				
5. BERYLLIUM				
6. CADMIUM				
7. CALCIUM				
8. CHROMIUM				
9. COBALT				
10. COPPER				
11. IRON				
12. LEAD		~~7.3~~ KS 10u	15	NC (P)
13. MAGNESIUM				
14. MANGANESE				
15. MERCURY				
16. NICKEL				
17. POTASSIUM				
18. SELENIUM				
19. SILVER				
20. SODIUM				
21. THALLIUM				
22. TIN				
23. VANADIUM				
24. ZINC				
Other:				
Cyanide				

X Out of Control

[1] To be added at a later date.

[2] RPD = [|S-D|/((S+D)/2)] x 100

NC - Non calculable RPD due to value(s) less than CRDL

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Form VII

Q.C. Report No. 87217
INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME ROCKY MOUNTAIN ANALYTICAL
DATE 9-24-87

CASE NO 7914
UNITS ug/L

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. ALUMINUM	200	15		1980	2000	101
2. ANTIMONY	60	25		1010	989	98
3. ARSENIC	10	31	2	49	46	94
4. BARIUM	200	3		1980	1860	94
5. BERYLLIUM	5	1		481	479	100
6. CADMIUM	5	4		489	459	94
7. CALCIUM	5000	179		49800	49800	100
8. CHROMIUM	10	4		506	485	96
9. COBALT	50	9		474	473	100
10. COPPER	25	6		542	534	98
11. IRON	100	24		1990	1970	99
12. LEAD	5	20	1	4510	4100	91
13. MAGNESIUM	5000	153		25000	23900	95
14. MANGANESE	15	4		513	495	97
15. MERCURY	0.2		0.2CV	1.0	1.03	103
16. NICKEL	40	8		496	461	93
17. POTASSIUM	5000	175		50200	49000	98
18. SELENIUM	5		1	98	96	98
19. SILVER	10	4		509	412	81
20. SODIUM	5000	1090		50700	49300	97
21. THALLIUM	10		1	97	88	91
22. TIN	40	22		2000	1980	99
23. VANADIUM	50	7		511	501	98
24. ZINC	20	3		3100	2750	89
Other:						
Cyanide	10		10AS	58	58	100

CV - Cold Vapor
AS - Automated Spectrophotometric

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Form VII

Q.C. Report No. 87217
INSTRUMENT DETECTION LIMITS AND
LABORATORY CONTROL SAMPLE

LAB NAME ROCKY MOUNTAIN ANALYTICAL
DATE 9-24-87

CASE NO 7914
UNITS ug/L

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Furnace	Lab Control Sample True	Found	%R
Metals:						
1. ALUMINUM	200	15		1980		
2. ANTIMONY	60	25		1090		
3. ARSENIC	10	31	2	49		
4. BARIUM	200	3		1980		
5. BERYLLIUM	5	1		481		
6. CADMIUM	5	4		489		
7. CALCIUM	5000	179		49800		
8. CHROMIUM	10	4		506		
9. COBALT	50	9		474		
10. COPPER	25	6		542		
11. IRON	100	24		1990		
12. LEAD	5	20	1	~~4510~~ 98	84	
13. MAGNESIUM	5000	153		25000		
14. MANGANESE	15	4		513		
15. MERCURY	.2		0.2CV	1.0		
16. NICKEL	40	8		496		
17. POTASSIUM	5000	175		50200		
18. SELENIUM	5		1	98		
19. SILVER	10	4		509		
20. SODIUM	5000	1090		50700		
21. THALLIUM	10		1	97		
22. TIN	40	22		2000		
23. VANADIUM	50	7		511		
24. ZINC	20	3		3100		
Other:						
Cyanide	10		10AS			

CV - Cold Vapor
AS - Automated Spectrophotometric

AUG 20 1987

SUPERFUND 43337

SAMPLE DATES: 8/18-9/18/87
LOG IN DATE: 9/11/87
DUE DATE: 10/27/87

CENTRAL REGIONAL LABORATORY SAMPLE DATA REPORT
ORGANICS/INORGANICS

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

CASE NUMBER/SAS No. 7914 SITE NAME Town & Country Auto Parts LABORATORY Hazlet/BMAL DATE SHIPPED 8/18/87

SUPERFUND DU NUMBER 4905 EPA RPM or OSC (S.M.S.)/(CES) _____ CERCLIS NUMBER OHD1035320876 PAGE 1 OF 2

ACTIVITY NUMBER C72100

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	INORGANIC TRAFFIC REPORT NUMBER or SAS Packing List No.	WATER OR LIQUIDS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN UG/L TOX17574	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN UG/L TOX17564	WATER POLYCHLORINATED BIPHENYLS UG/L PES 17144	WATER CHLORINATED PESTICIDES UG/L PES17134	TOTAL METALS IN WATER UG/L MET111	WATER CYANIDE UG/L MIN74919	NITRATE NITRITE MG/L MIN7284	AMMONIA MG/L MIN7294	RESIDUE, FILTERABLE TDS MG/L MIN7362	RESIDUE, NON-FILT TSS MG/L MIN7372			SEDIMENTS or SOILS: ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG/KG TOX215722	VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG/KG TOX215622	SEDIMENTS POLYCHLORINATED BIPHENYLS MG/KG PES211422	SEDIMENT CHLORINATED PESTICIDES MG/KG 211322	TOTAL METALS MG/KG MET413	CYANIDE MG/KG MIN44930	EP TOXICITY METALS MG/KG	AMMONIA MG/KG MIN42925			
87FC16547	ET126	MEU746													✓	✓	✓	✓	✓	✓					
87FC16548	ET127	MEU747													✓	✓	✓	✓	✓	✓					
87FC16549	ET128	MEU748													✓	✓	✓	✓	✓	✓					
87FC16550	ET129	MEU749													✓	✓	✓	✓	✓	✓					

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ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

CRL Receipt Date 9-29-87 FIT Receipt Date 12-4-87 Review Completed 12-7-87

TO: DON CLARK

FROM: Jim Mertes

SUBJECT: Town + Country Auto Parts

PAN: OH 0523 CASE # 7914/3048 E

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
# 4	Low Soil	#	Low Soil
	Low Water		Low Water
	Drinking Water		Drinking Water
	Other		Other

Project Data Status X Completed!!

_____ Incomplete, awaiting: _____

FIT Data Review Findings:

No cmpds. were detected >5x the d. limit.
Individual detection limits should be read off the OADS form for each sample. TICs were found in each sample.

Check Data Sheets for Transcription Errors

X Compounds were detected in sample(s); see enclosed sheet.

Book No. 6 Page No. 268 Date Sampled 8-19-87

26U:001

Hm. charged to above pay weekending 12-12-87 Q.
J.M.

recycled paper

Town & Country Auto PARTS
Case #

	COMPOUND	SAMPLE DETECTION LIMIT	ppb ET126	ET127	ET128	ET129
↓	dimethyl phthalate					
	acenapthylene	390		45J		
	3-nitroaniline					
	acenaphthene					
	2,4-dinitrophenol					
	4-nitrophenol					
	dibenzofuran					
	2,4-dinitrotoluene					
S	2,6-dinitrotoluene					
	diethylphthalate					
	4-chlorophenyl-phenylether					
V	fluorene					
	4-nitroaniline					
	4,6-dinitro-2-methylphenol					
	N-nitrosodiphenylamine					
	4-bromophenyl-phenylether					
	hexachlorobenzene					
	pentachlorophenol					
	phenanthrene	390		43J	85J	
	anthracene	390		64J		
	di-n-butylphthalate	390	740 B	500 4J	220 4J	
	fluoranthene	390		200J	440J	
	benzidine	390		150		
	pyrene	390		140J	270J	
	butylbenzylphthalate	390			1800 4J	
	3,3'-dichlorobenzidine					
	benzo(a)anthracene				120J	
	bis(2-ethylhexyl)phthalate	520		360J	650	
	chrysene	520		180J	150J	
	di-n-octylphthalate					
	benzo(b&k)fluoranthene	520		240J		
	benzo(a)pyrene	520		210J	84J	
	indeno(1,2,3-cd)pyrene					
	dibenzo(a,h)anthracene					
↑	benzo(g,h,i)perylene					
↓	alpha-BHC					
	beta-BHC					
	delta-BHC					
	gamma-BHC(lindane)					
P	heptachlor					
	aldrin					
E	heptachlor epoxide					
	endosulfan I					
S	dieldrin					
T	4,4'-DDE					
	endrin					
	endosulfan II					
	4,4'-DDD					
	endrin aldehyde					
	endosulfan sulfate					
	4,4'-DDT	37		D.L.=37 110		
	methoxychlor					
	endrin ketone					
	chlordane	620			1100 D.L.=620	480 D.L.=480
	toxaphene					
	Aroclor-1016					
P	Aroclor-1221					
C	Aroclor-1232					
B	Aroclor-1242					
	Aroclor-1248					
	Aroclor-1254					
	Aroclor-1260					

Town & Country Auto Parts
Case #

	COMPOUND	SAMPLE DET. LIMIT	ppb ET 126	ET 127	ET 128	ET 129				
	chloromethane									
	bromomethane									
	vinyl chloride									
	chloroethane									
	methylene chloride	11	6uJ	9uJ	20uJ	12uJ				
	acetone	11	28uJ	27uJ	52uJ	80uJ				
	carbon disulfide									
	1,1-dichloroethene									
	1,1-dichloroethane									
V	trans-1,2,-dichloroethene									
O	chloroform	8	2BJ	2uJ	8B	3BJ				
	1,2-dichloroethane									
A	2-butanone	8	1J	2J	2J	6J				
	1,1,1-trichloroethane									
	carbon tetrachloride									
	vinyl acetate									
	bromodichloromethane									
	1,1,2,2-tetrachloroethane									
	1,2-dichloropropane									
	trans-1,3-dichloropropene									
	trichloroethene									
	dibromochloromethane									
	1,1,2-trichloroethane									
	benzene									
	cis-1,3-dichloropropene									
	2-chloroethylvinylether									
	bromoform									
	2-hexanone									
	4-methyl-2-pentanone									
	tetrachloroethene	6		4J	1J					
	toluene	6	2BJ	2BJ	4uJ	2BJ				
	chlorobenzene									
	ethylbenzene	6			2J					
	styrene									
	total xylenes	8			1J					
	N-nitrosodimethylamine									
	phenol	370				130J				
	aniline									
	bis(2-chloroethyl)ether									
	2-chlorophenol									
	1,3-dichlorobenzene									
	1,4-dichlorobenzene									
	benzyl alcohol									
	1,2-dichlorobenzene									
	2-methylphenol									
	bis(2-chloroisopropyl)ether									
	4-methylphenol									
	N-nitroso-di-n-propylamine									
	hexachloroethane									
	nitrobenzene									
S	isophrone									
	2-nitrophenol									
V	2,4-dimethylphenol									
	benzoic acid									
	bis(2-chloroethoxy)methane									
	2,4-dichlorophenol									
	1,2,4-trichlorobenzene									
	napthalene									
	4-chloroaniline									
	hexachlorobutadiene									
	4-chloro-3-methylphenol									
	2-methylnapthalene									
	hexachlorocyclopentadiene									
	2,4,6-trichlorophenol									
	2,4,5-trichlorophenol									
	2-chloronaphthalene									

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 7914 CONTRACTOR Hayleton

Instrument # Finn 51B	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/13/87 15:58			8/24/87 19:57			8/25/87 14:46			8/27/87 10:14					
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline					220	J					180	J			
4,6-Dinitro-2-Methylphenol								39	J						
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: M.F. 11/30/87

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 7914 CONTRACTOR Hazleton

Instrument # 5100A	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/3/87 8:55			8/17/87 8:55			8/20/87 10:04								
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane					26	J									
Bromomethane															
Vinyl Chloride															
Chloroethane					30	J									
Methylene Chloride		40	J		26	J									
Acetone		66	J												
Carbon Disulfide					330	J		410	J						
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone		49	J		38	J	042		R/J						
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate					160	J		150	J						
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone					38	J									
2-Hexanone					48	J									
Tetrachloroethene															
1,1,2,2-Tetrachloroethane					34	J		26	J						
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

		Method Blank	Method Blank		
		ET126	ET127		
			ET128		
			ET129		
			ET130		
			ET131		

Reviewer's Initials/Date: 11/30/87

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 7714 CONTRACTOR Hampton

Instrument # HP5973S	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	2/24/87 10:35			9/2/87 9:52											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol					78	J									
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether					51	J									
4-Methylphenol															
N-Nitroso-Di-n-Propylamine					76	J									
Hexachloroethane															
Nitrobenzene					54	J									
Isophorone					31	J									
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid					56	J									
bis(2-Chloroethoxy)Methane					30	J									
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene					28	J									
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline					47	J									
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline					27	J									
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol					38	J									
Dibenzofuran															

AFFECTED SAMPLES:

Blank 8/28/87

Reviewer Initials/Date: 11/30/87

* These flags should be applied to the analytes on the sample data sheets.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 7714 CONTRACTOR Hayleton

Instrument # HP5985	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	2/24/87			9/2/87 9:52											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene					39	J									
2,6-Dinitrotoluene					28	J									
Diethylphthalate					35	J									
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: M.F. 11/30/87

HAZLETON LABORATORIES AMERICA, INC.
3301 KINSMAN BLVD. • P.O. BOX 7545 • MADISON, WI 53707 • (608) 241-4471 • TLX 703956 HAZRAL MDS UD

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US ... 1987
... LAB.
SF 4339

September 25, 1987

Sample Management Office
Viar and Company
300 North Lee Street
Alexandria VA 22314

Enclosed is the data package for Case No. 7914. Under this case number, we received a total of four soil samples on August 19, 1987 from Region V. All samples were analyzed and reported according to the protocols provided under our Contract No. 68-01-7146 bid lot #1.

Please note the following summary comments relating to the contractual quality control in this case:

- <u>GC-MS Tuning.</u> All tuning requirements for both BFB and DFTPP for samples analyzed in this case were within contract criteria.

- <u>Instrumental Calibrations.</u> All instrumental calibrations for all fractions analyzed were within contract criteria for both initial and continuing calibrations.

- <u>Method Blanks.</u> All method blanks for the volatile, semivolatile, and pesticide fractions were found to be within contract criteria.

- <u>Surrogate Recoveries.</u> All calculated surrogate recoveries for the volatile, semivolatile and pesticide fractions were found to be within contract criteria.

  Two samples (ET126MS and ET128) required re-extraction due to noncompliant surrogate recoveries, in the semivolatile fraction. The re-extractions of both ET128 and ET126MS were performed on 8-26-87. The re-analysis of these re-extracted samples produced acceptable recoveries for all surrogates although the method blank extracted with these samples produced a recovery for 2-fluorophenol which was 7% below the acceptable criteria. The method blank (8-26-87) was reinjected and again produced the same low

recovery. A third blank has been supplied with this case demonstrating acceptable surrogate recoveries.

- <u>Pesticide Confirmation Analysis.</u> GC confirmation analysis of samples in this case was performed using a DB-608 Megabore Capillary Column. Please note that a 1.5% DBC shift criteria has been established by Joan Fisk when using Megabore capillary columns.

If you have any questions regarding this case or need any further clarifications, please feel free to call.

Sincerely,

David C. Hills

David C. Hills
Manager, Environmental Analysis

DCH/sc

cc: Region V
USEPA EMSL-LV
Central File

SOIL SURROGATE PERCENT RECOVERY SUMMARY

Case No. 7914 Contract Laboratory HAZLETON LABORATORIES Contract No. 68-01-7146

Low ✓ Medium _____

	VOLATILE			SEMI-VOLATILE								PESTICIDE
SMO TRAFFIC NO.	TOLUENE-D8 (81-117)	BFB (74-121)	1,2 DICHLORO-ETHANE-D4 (70-121)	NITRO-BENZENE-D5 (23-120)	2-FLUORO-BIPHENYL (30-115)	TERPHENYL-D14 (18-137)			PHENOL-D5 (24-113)	2-FLUORO-PHENOL (25-121)	2,4,6 TRIBROMO-PHENOL (19-122)	DIBUTYL-CHLORENDATE** (20-150)
ET126	104	104	94	25	27*	71			26	25	57	91
ET127	110	108	94	23	28*	28			29	23*	29	122
ET128	117	87	91	42	52	56			52	48	53	86
ET129	105	102	93	32	49	70			42	36	60	136
ET126MS	104	97	92	33	63	103			62	41	100	117
ET126MSD	104	103	96	27	31	62			28	26	48	102
M.Blk-1	102	98	97	34	34	88			34	34	49	93
M.Blk-2	103	106	95	29	37	94			30	19*	56	NA
M.Blk-3	NR	NR	NR	64	58	75			55	61	70	NA

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

**ADVISORY LIMITS ONLY

Volatiles: 0 out of 24 ; outside of QC limits

Semi-Volatiles: 4 out of 54 ; outside of QC limits

Pesticides: 0 out of 7 ; outside of QC limits

7/85

Comments: _____

FORM II

SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Case No. 7914 **Contractor** HAZLETON LABORATORIES **Contract No.** 68-01-7146

Low Level ✓ **Medium Level** _____

FRACTION	COMPOUND	CONC. SPIKE ADDED (ug/Kg)	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY
VOA SMO SAMPLE NO. ET126	1,1-Dicholorethene	56	0	39	70	36	64	9	22	59-172
	Trichloroethene			57	102	54	96	6	24	62-137
	Chlorobenzene			65	116	61	109	6	21	60-133
	Toluene		2	63	109	59	102	7	21	59-139
	Benzene		0	49	88	46	82	7	21	66-142
B/N SMO SAMPLE NO. ET126	1,2,4-Trichlorobenzene	1850		650	35*	490	26*	30*	23	38-107
	Acenaphthene			1280	69	780	42	49*	19	31-137
	2,4 Dinitrotoluene			1360	74	860	46	47	47	28-89
	Pyrene			2380	129	1560	84	42*	36	35-142
	N-Nitrosodi-n-Propylamine			640	35*	400	22*	46*	38	41-126
	1,4-Dichlorobenzene			450	24*	430	23*	4	27	28-104
ACID SMO SAMPLE NO. ET126	Pentachlorophenol	3700		1740	47	1160	31	41	47	17-109
	Phenol			2370	64	1130	31	69*	35	26-90
	2-Chlorophenol			1620	44	1050	28	44	50	25-102
	4-Chloro-3-Methylphenol			3550	96	2230	60	46*	33	26-103
	4-Nitrophenol			3200	86	1660	45	63*	50	11-114
PEST SMO SAMPLE NO. ET126	Lindane	29.6	0	26.1	88	30.3	102	15	50	46-127
	Heptachlor			26.1	88	26.6	90	1.9	31	35-130
	Aldrin			17.9	60	19.2	65	7.0	43	34-132
	Dieldrin	74.0		63.6	86	67.2	91	5.5	38	31-134
	Endrin			75.1	101	75.1	101	0	45	42-139
	4,4'-DDT			76.0	103	73.5	99	3.3	50	23-134

*ASTERISKED VALUES ARE OUTSIDE QC LIMITS.

RPD: VOAs 0 out of 5 outside QC limits
B/N 4 out of 6 outside QC limits
ACID 3 out of 5 outside QC limits
PEST 0 out of 6 outside QC limits

RECOVERY: VOAs 0 out of 10 outside QC limits
B/N 6 out of 12 outside QC limits
ACID 0 out of 10 outside QC limits
PEST 0 out of 12 outside QC limits

Comments: _____

METHOD BLANK SUMMARY

Case No. 7914 Region 5 Contractor HAZLETON LABORATORIES Contract No. 68-01-7146

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
M.Blk-1 881V108	8-19-87	VOA	SOIL	L	5100A	75-09-2	Methylene Chloride	10	µg/kg	5
						67-64-1	Acetone	10		10
						67-66-3	Chloroform	0.7J		5
						108-88-3	Toluene	0.9J		5
						1066-40-6	Silanol, trimethyl-	10		—
M.Blk-2 881V119	8-20-87	VOA	SOIL	L	5100A	75-09-2	Methylene Chloride	4J	µg/kg	5
						67-64-1	Acetone	11		10
						67-66-3	Chloroform	0.6J		5
						108-88-3	Toluene	0.7J		5
						—	Unknown	12		—
						1066-40-6	Silanol, trimethyl-	8		—
M.Blk-1 BAN954	8-25-87	BNA	SOIL	L	FINN 51B	84-74-2	Di-n-Butylphthalate	60J	µg/kg	330
						3970-62-5	3-pentanol, 2,2-dimethyl-	300		—
M.Blk-2 BAN971	8-27-87	BNA	SOIL	L	FINN 51B	84-74-2	Di-n-butylphthalate	51J	µg/kg	330
						85-68-7	Butylbenzylphthalate	440		330
						—	Unknown	320		—
						—	Unknown	150		—
						—	Unknown	140		—
						—	Unknown	230		—

Comments:

METHOD BLANK SUMMARY

Case No. 7914 Region 5 Contractor HAZLETON LABORATORIES Contract No. 68-01-7146

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL, TIC OR UNKNOWN)	CONC.	UNITS	CRDL
M.Blk-3 29427	9-2-87	BNA	SOIL	L	HP5985	84-74-2	Di-n-butylphthalate	57J	Mg/kg	330
↓	↓	↓	↓	↓	↓	105-46-4	Acetic Acid, 1-methylpropyl ester	1100	↓	—
M.Blk-1 3274	9-21-87	PEST	SOIL	L	5779	—	— NONE FOUND —			

Comments:

Sample Number
ET126

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES
Case No: 7914
Lab Sample ID No: 70803872
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7146
Data Release Authorized By: David C. Gilel
Date Sample Received: 8-19-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8-19-87
Date Analyzed: 8-19-87
Conc/Dil Factor: 1 pH 7.6
Percent Moisture: (Not Decanted) 10.2
C.F. 1.11

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	6B UJ
67-64-1	Acetone	28B UJ
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	2BJ
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	1J
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	11U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	6U
79-01-6	Trichloroethene	6U
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	6U
71-43-2	Benzene	6U
10061-01-5	cis-1, 3-Dichloropropene	6U
110-75-8	2-Chloroethylvinylether	11U
75-25-2	Bromoform	6U
108-10-1	4-Methyl-2-Pentanone	11U
591-78-6	2-Hexanone	11U
127-18-4	Tetrachloroethene	6U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	2BJ UJ
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	6U
100-42-5	Styrene	6U
	Total Xylenes	6U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number
ET126

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8-21-87

Date Analyzed: 8-25-87

Conc/Dil Factor: 1

Percent Moisture (Decanted) 10.2

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	370U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	1800U
111-91-1	bis(-2-Chloroethoxy)Methane	370U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	1800U
91-58-7	2-Chloronaphthalene	370U
88-74-4	2-Nitroaniline	1800U
131-11-3	Dimethyl Phthalate	370U
208-96-8	Acenaphthylene	370U
99-09-2	3-Nitroaniline	1800U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	370U
51-28-5	2, 4-Dinitrophenol	1800U
100-02-7	4-Nitrophenol	1800U
132-64-9	Dibenzofuran	370U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1800U
534-52-1	4, 6-Dinitro-2-Methylphenol	1800U
86-30-6	N-Nitrosodiphenylamine (1)	370U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1800U
85-01-8	Phenanthrene	370U
120-12-7	Anthracene	370U
84-74-2	Di-n-Butylphthalate	740 B
206-44-0	Fluoranthene	370U
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	740U
56-55-3	Benzo(a)Anthracene	370U
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON LABORATORIES

Case No 7914

Sample Number
ET 126

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8-21-87

Date Analyzed: 9-21-87

Conc/Dil Factor: 1.0

Percent Moisture (decanted): 10.2

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	8.9	U
319-85-7	Beta-BHC	8.9	U
319-86-8	Delta-BHC	8.9	U
58-89-9	Gamma-BHC (Lindane)	8.9	U
76-44-8	Heptachlor	8.9	U
309-00-2	Aldrin	8.9	U
1024-57-3	Heptachlor Epoxide	8.9	U
959-98-8	Endosulfan I	8.9	U
60-57-1	Dieldrin	18	U
72-55-9	4, 4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4, 4'-DDD	18	U
1031-07-8	Endosulfan Sulfate	18	U
50-29-3	4, 4'-DDT	18	U
72-43-5	Methoxychlor	89	U
53494-70-5	Endrin Ketone	18	U
57-74-9	Chlordane	89	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	89	U
11104-28-2	Aroclor-1221	89	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	89	U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 26.9 g. dry wt. V_t 20,000 ul V_i 4.0 ul

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number: ET.126

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	1066-40-6	Silanol, trimethyl-	VOA	241	6 BJ
2.	108-87-2	2-Pentene, 4,4-dimethyl-	↓	348	6
3.	589-34-4	Hexane, 3-methyl-	↓	392	6
4.	3970-62-5	3-Pentanol, 2,2-dimethyl-	BNA	207	230
5.	54105-67-8	Heptadecane, 2,6-dimethyl-	↓	1942	520
6.		Unknown	↓	1997	430
7.	51295-56-4	Dodecane, 2,6,11-trimethyl-	↓	2047	670
8.		Unknown	↓	2118	640
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117.

Sample Number
ET127

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES
Case No: 7914
Lab Sample ID No: 70803873
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7146
Data Release Authorized By: David C. Kelly
Date Sample Received: 8-19-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8-20-87
Date Analyzed: 8-20-87
Conc/Dil Factor: 1 pH 7.7
Percent Moisture: (Not Decanted) 13.9
C.F. 1.16

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	12U
74-83-9	Bromomethane	12U
75-01-4	Vinyl Chloride	12U
75-00-3	Chloroethane	12U
75-09-2	Methylene Chloride	9B 11J
67-64-1	Acetone	27B 11J
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	2 BJ 11J
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	2 J
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	12U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	6U
79-01-6	Trichloroethene	6U
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	6U
71-43-2	Benzene	6U
10061-01-5	cis-1, 3-Dichloropropene	6U
110-75-8	2-Chloroethylvinylether	12U
75-25-2	Bromoform	6U
108-10-1	4-Methyl-2-Pentanone	12U
591-78-6	2-Hexanone	12U
127-18-4	Tetrachloroethene	4 J
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	2 BJ 11J
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	6U
100-42-5	Styrene	6U
	Total Xylenes	6U

11.7.

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J.

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number
ET127

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/25/87

Conc/Dil Factor: 1

Percent Moisture (Decanted) 13.9

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	390U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	2000U
111-91-1	bis(-2-Chloroethoxy)Methane	390U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	2000U
91-58-7	2-Chloronaphthalene	390U
88-74-4	2-Nitroaniline	2000U
131-11-3	Dimethyl Phthalate	390U
208-96-8	Acenaphthylene	45J
99-09-2	3-Nitroaniline	2000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	390U
51-28-5	2, 4-Dinitrophenol	2000U
100-02-7	4-Nitrophenol	2000U
132-64-9	Dibenzofuran	390U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	2000U
534-52-1	4, 6-Dinitro-2-Methylphenol	2000U
86-30-6	N-Nitrosodiphenylamine (1)	390U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	2000U
85-01-8	Phenanthrene	43J
120-12-7	Anthracene	64J
84-74-2	Di-n-Butylphthalate	500B
206-44-0	Fluoranthene	200J
129-00-0	Pyrene	140J
85-68-7	Butylbenzylphthalate	390U
91-94-1	3, 3'-Dichlorobenzidine	780U
56-55-3	Benzo(a)Anthracene	390U
117-81-7	bis(2-Ethylhexyl)Phthalate	360J
218-01-9	Chrysene	180J
117-84-0	Di-n-Octyl Phthalate	390U
205-99-2	Benzo(b)Fluoranthene	240J
207-08-9	Benzo(k)Fluoranthene	390U
50-32-8	Benzo(a)Pyrene	210J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	390U
53-70-3	Dibenzo(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

11.7.

Laboratory Name HAZLETON LABORATORIES

Case No 7914

Sample Number
ET127

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8-21-87

Date Analyzed: 9-22-87

Conc/Dil Factor: 20 (2.0*)

Percent Moisture (decanted): 13.9

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	190 U
319-85-7	Beta-BHC	190 U
319-86-8	Delta-BHC	190 U
58-89-9	Gamma-BHC (Lindane)	190 U
76-44-8	Heptachlor	190 U
309-00-2	Aldrin	190 U
1024-57-3	Heptachlor Epoxide	190 U
959-98-8	Endosulfan I	190 U
60-57-1	Dieldrin	370 U
72-55-9	4, 4'-DDE	370 U
72-20-8	Endrin	370 U
33213-65-9	Endosulfan II	370 U
72-54-8	4, 4'-DDD	370 U
1031-07-8	Endosulfan Sulfate	370 U
50-29-3	4, 4'-DDT	* 110
72-43-5	Methoxychlor	1900 U
53494-70-5	Endrin Ketone	370 U
57-74-9	Chlordane	1900 U
8001-35-2	Toxaphene	3700 U
12674-11-2	Aroclor-1016	1900 U
11104-28-2	Aroclor-1221	1900 U
11141-16-5	Aroclor-1232	1900 U
53469-21-9	Aroclor-1242	1900 U
12672-29-6	Aroclor-1248	1900 U
11097-69-1	Aroclor-1254	3700 U
11096-82-5	Aroclor-1260	3700 U

D.L. = 37

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 25.8 g dry wt. V_t 20,000 µl V_i 4.0 µl

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number: ET127

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 60-29-7	Ethane, 1,1'-oxybis-	VOA	191	6
2. 109-66-0	Pentane	↓	277	6
3. 3970-62-5	3-Pentanol, 2,2-dimethyl-	BNA	211	520
4. 3240-09-3	5-Hexen-2-one, 5-methyl-		277	620
5.	Unknown		573	370
6. 505-20-4	1,2-dithiane		836	220
7.	Unknown		906	220
8. 57-10-3	Hexadecanoic Acid		1357	1100
9. 10544-50-0	Sulfur Mol.		1379	6200
10.	Unknown		1589	220
11.	Unknown		1647	280
12.	Unknown		1696	270
13.	Unknown		1896	430
14.	Unknown	↓	2025	440
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Sample Number
ET128

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES
Case No: 7914
Lab Sample ID No: 70803874
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7146
Data Release Authorized By: David C. Gyles
Date Sample Received: 8-19-87

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8-20-87
Date Analyzed: 8-20-87
Conc/Dil Factor: 1 pH 7.6
Percent Moisture: (Not Decanted) 35.7
C.F. 1.55

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	16U
74-83-9	Bromomethane	16U
75-01-4	Vinyl Chloride	16U
75-00-3	Chloroethane	16U
75-09-2	Methylene Chloride	20 B. 10J
67-64-1	Acetone	52 B. 10J
75-15-0	Carbon Disulfide	8U
75-35-4	1, 1-Dichloroethene	8U
75-34-3	1, 1-Dichloroethane	8U
156-60-5	Trans-1, 2-Dichloroethene	8U
67-66-3	Chloroform	8 B
107-06-2	1, 2-Dichloroethane	8U
78-93-3	2-Butanone	2 J
71-55-6	1, 1, 1-Trichloroethane	8U
56-23-5	Carbon Tetrachloride	8U
108-05-4	Vinyl Acetate	16U
75-27-4	Bromodichloromethane	8U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	8U
10061-02-6	Trans-1, 3-Dichloropropene	8U
79-01-6	Trichloroethene	8U
124-48-1	Dibromochloromethane	8U
79-00-5	1, 1, 2-Trichloroethane	8U
71-43-2	Benzene	8U
10061-01-5	cis-1, 3-Dichloropropene	8U
110-75-8	2-Chloroethylvinylether	16U
75-25-2	Bromoform	8U
108-10-1	4-Methyl-2-Pentanone	16U
591-78-6	2-Hexanone	16U
127-18-4	Tetrachloroethene	1 J
79-34-5	1, 1, 2, 2-Tetrachloroethane	8U
108-88-3	Toluene	4 BJ 10J
108-90-7	Chlorobenzene	8U
100-41-4	Ethylbenzene	2 J
100-42-5	Styrene	8U
	Total Xylenes	13

D.L=8
M.T.

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J). If limit of detection is 10 µg/l and a concentration of 3 µg/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number
ET 128

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 8-26-87

Date Analyzed: 8-27-87

Conc/Dil Factor: 1

Percent Moisture (Decanted) 35.7

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	520u
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	2600u
111-91-1	bis(-2-Chloroethoxy)Methane	520u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	2600u
91-58-7	2-Chloronaphthalene	520u
88-74-4	2-Nitroaniline	2600u
131-11-3	Dimethyl Phthalate	520u
208-96-8	Acenaphthylene	520u
99-09-2	3-Nitroaniline	2600u

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	520u
51-28-5	2, 4-Dinitrophenol	2600u
100-02-7	4-Nitrophenol	2600u
132-64-9	Dibenzofuran	520u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	2600u
534-52-1	4, 6-Dinitro-2-Methylphenol	2600u
86-30-6	N-Nitrosodiphenylamine (1)	520u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	2600u
85-01-8	Phenanthrene	85J
120-12-7	Anthracene	520u
84-74-2	Di-n-Butylphthalate	220JB UJ
206-44-0	Fluoranthene	410J
129-00-0	Pyrene	270J
85-68-7	Butylbenzylphthalate	1800B UJ
91-94-1	3, 3'-Dichlorobenzidine	1000u
56-55-3	Benzo(a)Anthracene	120J
117-81-7	bis(2-Ethylhexyl)Phthalate	650
218-01-9	Chrysene	150J
117-84-0	Di-n-Octyl Phthalate	520u
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	84J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	520u
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be seperated from diphenylamine

21.7.

Laboratory Name HAZLETON LABORATORIES

Case No 7914

Sample Number
ET 128

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 8-21-87

Date Analyzed: 9-22-87

Conc/Dil Factor: 5.0

Percent Moisture (decanted) 35.7

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	62	U
319-85-7	Beta-BHC	62	U
319-86-8	Delta-BHC	62	U
58-89-9	Gamma-BHC (Lindane)	62	U
76-44-8	Heptachlor	62	U
309-00-2	Aldrin	62	U
1024-57-3	Heptachlor Epoxide	62	U
959-98-8	Endosulfan I	62	U
60-57-1	Dieldrin	120	U
72-55-9	4, 4'-DDE	120	U
72-20-8	Endrin	120	U
33213-65-9	Endosulfan II	120	U
72-54-8	4, 4'-DDD	120	U
1031-07-8	Endosulfan Sulfate	120	U
50-29-3	4, 4'-DDT	120	U
72-43-5	Methoxychlor	620	U
53494-70-5	Endrin Ketone	~~120~~	U
57-74-9	Chlordane	1100	
8001-35-2	Toxaphene	~~1200~~	U
12674-11-2	Aroclor-1016	620	U
11104-28-2	Aroclor-1221	620	U
11141-16-5	Aroclor-1232	620	U
53469-21-9	Aroclor-1242	620	U
12672-29-6	Aroclor-1248	620	U
11097-69-1	Aroclor-1254	1200	U
11096-82-5	Aroclor-1260	1200	U

620 D.L.

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 19.3g. dry wt. V_t 20,000 µl V_i 4.0 µl

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number
ET 128

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	541-85-5	3-Heptanone, 5-methyl-	VOA	575	18
2.		Unknown	BNA	213	260
3.	109-87-5	Methane, dimethoxy-		377	1200
4.		Unknown		1255	430
5.		Unknown		1314	300
6.	57-10-3	Hexadecanoic Acid		1355	430
7.		Unknown phenol		1379	460
8.		Unknown Ester		1718	1800
9.		Unknown		1844	970
10.		Unknown		1904	660
11.		Unknown		2028	840
12.					
13.					
14.					
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29.					
30.					

Sample Number
ET129

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: HAZLETON LABORATORIES
Case No: 7914
Lab Sample ID No: 70803875
QC Report No:
Sample Matrix: SOIL
Contract No: 68-01-7146
Data Release Authorized By: David C. Gelb
Date Sample Received: 8-19-87

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8-20-87
Date Analyzed: 8-20-87
Conc/Dil Factor: 1 pH 8.0
Percent Moisture: (Not Decanted) 9.4
C.F. 1.10

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	12 B 11J
67-64-1	Acetone	80 B 11J
75-15-0	Carbon Disulfide	6U
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	3 BJ
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	6 J
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	11U
75-27-4	Bromodichloromethane	6U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	6U
79-01-6	Trichloroethene	6U
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	6U
71-43-2	Benzene	6U
10061-01-5	cis-1, 3-Dichloropropene	6U
110-75-8	2-Chloroethylvinylether	11U
75-25-2	Bromoform	6U
108-10-1	4-Methyl-2-Pentanone	11U
591-78-6	2-Hexanone	11U
127-18-4	Tetrachloroethene	6U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
108-88-3	Toluene	2 BJ 11J
108-90-7	Chlorobenzene	6U
100-41-4	Ethylbenzene	6U
100-42-5	Styrene	6U
	Total Xylenes	6U

For reporting results to EPA, the following flags/footnotes are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10 J indicates the compound 10 ug/l and a

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number
ET 129

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 8-21-87

Date Analyzed: 8-25-87

Conc/Dil Factor: 1

Percent Moisture (Decanted): 9.4

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	130J
111-44-4	bis(2-Chloroethyl)Ether	370U
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	1800U
111-91-1	bis(2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	1800U
91-58-7	2-Chloronaphthalene	370U
88-74-4	2-Nitroaniline	1800U
131-11-3	Dimethyl Phthalate	370U
208-96-8	Acenaphthylene	370U
99-09-2	3-Nitroaniline	1800U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	370U
51-28-5	2, 4-Dinitrophenol	1800U
100-02-7	4-Nitrophenol	1800U
132-64-9	Dibenzofuran	370U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	1800U
534-52-1	4, 6-Dinitro-2-Methylphenol	1800U
86-30-6	N-Nitrosodiphenylamine (1)	370U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	1800U
85-01-8	Phenanthrene	370U
120-12-7	Anthracene	370U
84-74-2	Dibutylphthalate	1800U
206-44-0	Fluoranthene	370U
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	740U
56-55-3	Benzo(a)Anthracene	370U
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Laboratory Name HAZLETON LABORATORIES

Case No 7914

Sample Number
ET 129

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration (Low) Medium (Circle One)

Date Extracted/Prepared: 8-21-87

Date Analyzed: 9-22-87

Conc/Dil Factor: 5.0

Percent Moisture (decanted) 9.4

GPC Cleanup ☐Yes ☐No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-6	Alpha-BHC	44	U
319-85-7	Beta-BHC	44	U
319-86-8	Delta-BHC	44	U
58-89-9	Gamma-BHC (Lindane)	44	U
76-44-8	Heptachlor	44	U
309-00-2	Aldrin	44	U
1024-57-3	Heptachlor Epoxide	44	U
959-98-8	Endosulfan I	44	U
60-57-1	Dieldrin	88	U
72-55-9	4, 4'-DDE	88	U
72-20-8	Endrin	88	U
33213-65-9	Endosulfan II	88	U
72-54-8	4, 4'-DDD	88	U
1031-07-8	Endosulfan Sulfate	88	U
50-29-3	4, 4'-DDT	88	U
72-43-5	Methoxychlor	440	U
[illegible]	[illegible]	[illegible]	[illegible]
57-74-9	Chlordane	480	
8001-35-2	Toxaphene	880	U
12674-11-2	Aroclor-1016	440	U
11104-28-2	Aroclor-1221	440	U
11141-16-5	Aroclor-1232	440	U
53469-21-9	Aroclor-1242	440	U
12672-29-6	Aroclor-1248	440	U
11097-69-1	Aroclor-1254	880	U
11096-82-5	Aroclor-1260	880	U

440 D.L.

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s — or W_s 27.2g. dry wt. V_t 20,000 µl V_i 4.0 µl

Laboratory Name: HAZLETON LABORATORIES

Case No: 7914

Sample Number: ET129

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	1066-40-6	Silanol, trimethyl-	VOA	239	6
2.	—	Unknown	↓	510	19
3.		Unknown	BNA	208	380
4.		Unknown		274	410
5.		Unknown phenol		1371	1900
6.		Unknown phenol	↓	1422	1200
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ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

CRL Receipt Date 9/13/87 FIT Receipt Date 10/16 Review Completed 10/21

TO: D. Clark

FROM: Zena Gold-Kaufman

SUBJECT: Town & Country Auto

PAN: OH0523 CASE # 7914/3048E

Sample Description

Organics (VOA, ABN, Pest/PCB)		Inorganics (Metals, Cyanide)	
#	Low Soil	#	Low Soil
	Low Water		Low Water
6	Drinking Water		Drinking Water
	Other		Other

Project Data Status _____ Completed!!

Incomplete, awaiting: GW: 4org/4inorg

6 inorg waters

FIT Data Review Findings:

Check Data Sheets for Transcription Errors

✓ Compounds were detected in sample(s); see enclosed sheet.

Book No. 6 Page No. 268 Date Sampled 8/18/87

26U:001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10/15/87
FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory
Patrick G. Chmielka for

RECEIVED OCT 16 1987

SUBJECT: Review of Region V CLP Data
Received for Review on September 13, 1987

We have reviewed the data for the following case(s).

SITE NAME Town & Country Auto Parts SMO Case No. 7914/3048E
D.U./ACTIVITY

EPA DATA SET NO Sf-4339F No. OF SAMPLES 6 NUMBERS Y905/C72100

CRL No.: 87FC16S51-S54, D54, R06
SMO
Traffic No. ET121-125, 131

CLP Laboratory: CAL Hrs. Required for Review: 6

PAN #OH0523

Following are our findings.

Reviewed by Zena Hold-Kaufman
10/13/87

(X) Data are acceptable for use.
( ) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by contractor lab.
( ) Data are unacceptable.

cc: Dr. Alfred Haeber/Joan Fisk/Gary Ward. EPA Support Services.
Ross K. Robeson, EMSL - LasVegas
Don Trees, CLP/Sample Management Office

Town & Country Auto Parts
SMO Case # 7914/3048E

This review covers 6 low drinking waters for full organic analysis. Sample ET 131 is the blank; ET 125 and ET 124 are duplicates of one another.

RECEIVED OCT 6 1987

A - Holding Times - Acceptable

B - Surrogates - Acceptable
Volatiles: 0 out of 27; outside of QC limits
Semi-volatiles: 0 out of 72; outside of QC limits
Pesticides: 1 out of 9; outside of QC limits

C - MS/MSD Acceptable
VOA - No VOA compounds found
Pesticides - No pesticides found
SVS - Bis(2-ethylhexyl)phthalate
3 SV TICS

E - Calibrations - Acceptable
VOA - initial and continuing -acceptable
SV - initial and continuing - acceptable
Some comounds were outside specification with respect to RF, %D and %RSD. These compounds are so noted on the calibration outlier form.

F - Tuning - Acceptable
ET131 could not be accounted for on any bromofluorobenzene tuning sheet. Lab was contacted and suggested that it was an oversight on their part. Sample was run on 8/24/87 at 1708. ET126 is recorded as being run at that time period. ET126 was assigned to the sampler for that site, however, sample ET126 was not sent in with this case number. The RIC for the VOAS originally lists the sample as ET126, however, this is changed to 131. Based on these pieces of information, it is the opinion of the reviewer that the lab incorrectly labeled ET131 as ET126 on the tuning sheet.

LAB SENT CORRECTED TUNING SHEET. -PSC 10-15-87

G - Pesticides - Acceptable
Linearity - acceptable
DBC shift - acceptable
DDT retention time - acceptable

ZGK 10/13/87

page 3of 12

USER INFORMATION SHEET

Town & Country Auto
OH0523

RECEIVED OCT 16 1987

Sample	TCL	TIC compounds
ET121	None detected	VOA - none SV - 2 TICs
ET122	None detected	VOA - none SV - none
ET123	None detected	VOA - none SV - none
ET124	Tetrachloroethene = 1 ug/L CRDL - 1 ug/L	VOA - none SV - none
ET125	Tetrachloroethene - 2 ug/L CRDL - 1 ug/L	VOA - none SV - none
ET131 Blank	Acetone 8J ug/L 2-Butanone 1J ug/L Toluene 2 ug/L (CRDL - 1 ug/L)	VOA - 1 TIC SV - 3 TICs

Tetrachloroethene was detected above the CRDL in the 2 duplicate residential wells. Bis (2-ethyl hexyl) phthalate, a common lab artifact, was also detected.

ZGK
10/13/87

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS # 7914/30488 CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/21/87			8/24 843											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Chloromethane															
Bromomethane															
Vinyl Chloride															
Chloroethane					30.6	J									
Methylene Chloride															
Acetone															
Carbon Disulfide															
1,1-Dichloroethane															
1,1-Dichloroethene															
Trans-1,2-Dichloroethene															
Chloroform															
2-Butanone	.023		~~J~~	.025	.025	~~J~~									
1,2-Dichloroethane															
1,1,1-Trichloroethane															
Carbon Tetrachloride															
Vinyl Acetate															
Bromodichloromethane															
1,2-Dichloropropane															
Trans-1,3-Dichloropropene															
Trichloroethene															
Dibromochloromethane															
1,1,2-Trichloroethane															
Benzene															
cis-1,3-Dichloropropene															
2-Chloroethylvinylether															
Bromoform															
4-Methyl-2-Pentanone															
2-Hexanone															
Tetrachloroethene															
1,1,2,2-Tetrachloroethane															
Toluene															
Chlorobenzene															
Ethylbenzene															
Styrene															
m-Xylene															
o/p-Xylene															

AFFECTED SAMPLES:

VOA Blank	VOA Blank
ET 113	ET 117
ET 114	ET 117 MS
ET 115	ET 117 MSD
ET 116	ET 121
	ET 122
	ET 123
	ET 124
	ET 125
	ET 126
	ET 121 MS
	ET 121 MSD

Reviewer's Initials/Date: ZCK 10/8/87

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* These flags should be applied to the analytes on the sample data sheets.

9/1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 7914/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9/1/87			9/1/87 725											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline					33	J									
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

ET121
ET122

Reviewer Initials/Date: ZGK 10/8/87

* These flags should be applied to the analytes on the sample data sheets.

9/1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 7914/3048E CONTRACTOR CAL

RECEIVED OCT 16 1987

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	9/1/87			9/1/87 725											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: ZGK 10/8/87

8/29

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 7914/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/29/87			9/01 739											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene					27	J									
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol					33	J									
Dibenzofuran															

AFFECTED SAMPLES:

ET 331	ET 125
ET 332	ET 131
ET 333	

Reviewer Initials/Date: EGK 10/8/87

* These flags should be applied to the analytes on the sample data sheets.

8/29

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 7914/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/29/87			89/01 739											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol					36.5	J									
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: ZGK 10/8/87

8/31

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
(Page 1)

CASE/SAS # 7914/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/31/87			8/31 1402											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
Phenol															
bis(-2-Chloroethyl)Ether															
2-Chlorophenol															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
Benzyl Alcohol															
1,2-Dichlorobenzene															
2-Methylphenol															
bis(2-chloroisopropyl)Ether															
4-Methylphenol															
N-Nitroso-Di-n-Propylamine															
Hexachloroethane															
Nitrobenzene															
Isophorone															
2-Nitrophenol															
2,4-Dimethylphenol															
Benzoic Acid															
bis(2-Chloroethoxy)Methane															
2,4-Dichlorophenol															
1,2,4-Trichlorobenzene															
Naphthalene															
4-Chloroaniline															
Hexachlorobutadiene															
4-Chloro-3-Methylphenol															
2-Methylnaphthalene															
Hexachlorocyclopentadiene															
2,4,6-Trichlorophenol															
2,4,5-Trichlorophenol															
2-Chloronaphthalene															
2-Nitroaniline															
Dimethyl Phthalate															
Acenaphthylene															
3-Nitroaniline															
Acenaphthene															
2,4-Dinitrophenol															
4-Nitrophenol															
Dibenzofuran															

AFFECTED SAMPLES:

ET 121 MS
ET 121 DS
ET 123
ET 124

Reviewer Initials/Date: ZCK 10/8/87

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* These flags should be applied to the analytes on the sample data sheets.

8/31

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION V
CALIBRATION OUTLIERS
SEMIVOLATILE HSL COMPOUNDS
Page 2

CASE/SAS # 7914/3048E CONTRACTOR CAL

Instrument #	Init. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
DATE/TIME:	8/31/87			8/31 1402											
	RF	%RSD	*	RF	%D	*	RF	%D	*	RF	%D	*	RF	%D	*
2,4-Dinitrotoluene															
2,6-Dinitrotoluene															
Diethylphthalate															
4-Chlorophenyl-phenylether															
Fluorene															
4-Nitroaniline															
4,6-Dinitro-2-Methylphenol															
N-Nitrosodiphenylamine															
4-Bromophenyl-phenylether															
Hexachlorobenzene															
Pentachlorophenol															
Phenanthrene															
Anthracene															
Di-n-Butylphthalate															
Fluoranthene															
Pyrene															
Butylbenzylphthalate															
Benzo(a)Anthracene															
bis(2-Ethylhexyl)Phthalate															
Chrysene															
Di-n-Octyl Phthalate															
Benzo(b)Fluoranthene															
Benzo(k)Fluoranthene															
Benzo(a)Pyrene															
Indeno(1,2,3-cd)Pyrene															
Dibenz(a,h)Anthracene															
Benzo(g,h,i) Perylene															

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SEE PAGE 1 FOR AFFECTED SAMPLES.

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: ZGK 10/8/87

Enseco

RECEIVED OCT 16 1987

SF 4339

September 2, 1987

Joan Fisk
U.S. EPA
Hazardous Waste Investigation
401 M Street, SW
Washington, DC 20460

Dear Ms. Fisk:

Enclosed are data summary sheets and documentation for samples and QA/QC comprising case 7914/3048E of Contract 68-01-7140. These samples were received 8/20/87 and logged in under the following Enseco-Cal Lab numbers:

Enseco-Cal Lab Number	Sample I.D.
30952-1	ET 121
30952-2	ET 122
30952-3	ET 123
30952-4	ET 124
30952-5	ET 125
30952-6	ET 131

The samples were analyzed as low concentration water samples for low detection limits on a fifteen day turnaround. No problems were encountered.

This report was checked for contractual compliance, assembled, paginated then printed and assembled by a Kodak copier/assembler. Each copy has been checked for completeness. This check may miss some individual pages. **Please request by page number if any page is missing.**

If you have any questions, please give us a call.

Sincerely,

Michael W. Orbanosky
Director of GC/MS Services

Michael S. Filigenzi
GC/MS Supervisor

Ben N. Buechler
Director of Chromatography

Karin S. Yee
Data Specialist

2544 Industrial Boulevard
West Sacramento, California 95691
916/372-1393 Facsimile: 916/372-1059

EV
pw

METHOD BLANK SUMMARY

CASE NO. 7914/3048E REGION: 5 CONTRACTOR: ENSECO - CALIFORNIA ANALYTICAL LABS,INC CONTRACT NO. 68-01-7140

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
VBK9870824	8/24/87	VOA	WATER	LOW	F9	_	NO VOA COMPOUND FOUND	_	_	_
30952MB	8/30/87	PEST	WATER	LOW	GC6	_	NO PESTICIDES FOUND	_	_	_
30952MB	9/1/87	ABN	WATER	LOW	F10	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	15	UG/L	1
						108-88-3	BENZENE, METHYL-	12	UG/L	_
						19456-20-3	1,3-BENZODIOXOL-2-ONE, HEXAHYD	4	UG/L	_
						4337-65-9	HEXANEDIOIC ACID, MONO(2-ETHYL)	3	UG/L	_
30952MB	9/1/87	ABN	WATER	LOW	F12	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	15	UG/L	1

COMMENTS:

FORM IV 7/85

RECEIVED OCT 16 1987

WATER SURROGATE PERCENT RECOVERY SUMMARY

CASE NO.: 7914/3048E CONTRACT LABORATORY: CALIFORNIA ANALYTICAL LABS CONTRACTR NO. :68-01-7140 DATA PREP/RELEASE BY: EV, [illegible]

SMO TRAFFIC NO.	VOLATILE			SEMI-VOLATILE						PESTICIDE
	TOLUENE D8 (88-110)	BFB (86-115)	1,2 DICHLORO ETHANE D4 (76-114)	NITRO-BENZENE D5 (36-114)	2-FLUORO BIPHENYL (43-116)	TERPHENYL D14 (33-141)	PHENOL-D5 (10-94)	2-FLUORO-PHENOL (21-100)	2,4,6 TRIBROMO-PHENOL (10-123)	DIBUTYL-CHLORENDATE (24-154)**
ET 121	99	99	97	51	75	81	32	45	75	~~48~~
ET 122	99	99	97	59	68	77	33	46	65	18*
ET 123	96	100	97	57	82	84	27	34	50	~~40~~
ET 124	97	104	101	52	77	86	30	40	60	74
ET 125	98	105	107	40	70	74	32	50	55	47
ET 131	103	108	108	42	69	68	29	48	48	41
ET 121 MS	101	107	111	59	73	82	34	40	60	NR
ET 121 MSD	101	105	107	53	68	72	35	43	70	NR
VBK9870824	97	99	94	NR	NR	NR	NR	NR	NR	NR
ET 121 MS	NR	NR	NR	59	74	84	33	40	62	37
ET 121 MSD	NR	NR	NR	53	69	72	34	43	69	39
30952MB(10)	NR	NR	NR	45	74	84	32	50	55	36
30952MB(12)	NR	NR	NR	58	69	92	34	48	84	NR

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS

** ADVISORY LIMITS ONLY

VOLATILES: ~~0~~ OUT OF 27 : OUTSIDE OF QC LIMITS
SEMI-VOLATILES: ~~0~~ OUT OF 72 : OUTSIDE OF QC LIMITS
PESTICIDES: 1 OUT OF 9 : OUTSIDE OF QC LIMITS

RECEIVED OCT 15 1997

COMMENTS:

EV

WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

CASE NO.: 7914/3048E CONTRACTOR ENSECO - CAL LAB CONTRACT NO.68-01-7140

FRACTION	COMPOUND	CONC.SPIKE ADDED(ug/L) SPIKE	DUPLICATE	SAMPLE RESULT	CONC. MS	% REC	CONC. MSD	% REC	%RPD	QC LIMITS* RPD	RECOVERY
VOA	1,1-Dichloroethene	10	10	0	8	80	9.1	91	13	14	61-145
SMO	Trichloroethene	10	10	0	9	90	9.3	93	3	14	71-120
SAMPLE NO.	Chlorobenzene	10	10	0	9	90	9.4	94	4	13	75-130
	Toluene	10	10	0	8.1	81	8.5	85	5	13	76-125
ET 121	Benzene	10	10	0	9	90	9.4	94	4	11	76-127
B/N	1,2,4-Trichlorobenzene	20	20	0	15.2	76	12.3	62	20	28	39-98
SMO	Acenaphthene	20	20	0	16.8	84	15.9	80	5	31	46-118
SAMPLE NO.	2,4-Dinitrotoluene	20	20	0	10.8	54	10.8	54	0	38	24-96
	Pyrene	20	20	0	17	85	15	75	13	31	26-127
	N-Nitrosodi-n-Propylamine	20	20	0	14.4	72	13.7	69	4	38	41-116
ET 121	1,4-Dichlorobenzene	20	20	0	12.2	61	10.6	53	14	28	36-97
ACID	Pentachlorophenol	40	40	0	11.7	29	13.9	35	19	50	9-103
SMO	Phenol	40	40	0	12.3	31	13.1	33	6	42	12-89
SAMPLE NO.	2-Chlorophenol	40	40	0	26.9	67	28.3	71	6	40	27-123
	4-Chloro-3-Methylphenol	40	40	0	23	58	23.8	60	3	42	23-97
ET 121	4-Nitrophenol	40	40	0	7.6	19	8.8	22	14	50	10-80
PEST	Lindane	0.02	0.02	0	0.02	100	0.02	100	0	15	56-123
SMO	Heptachlor	0.02	0.02	0	0.01	50	0.01	50	0	20	40-131
SAMPLE NO.	Aldrin	0.02	0.02	0	0.01	50	0.01	50	0	22	40-120
	Dieldrin	0.05	0.05	0	0.04	80	0.04	80	0	18	52-126
	Endrin	0.05	0.05	0	0.04	80	0.04	80	0	21	56-121
ET 121	4,4-DDT	0.05	0.05	0	0.04	80	0.04	80	0	27	38-127

* ASTERISKED VALUES ARE OUTSIDE QC LIMITS

RPD: VOAs 0 out of 5 ; outside QC limits
B/Ns 0 out of 6 ; outside QC limits
ACID 0 out of 5 ; outside QC limits
PEST 0 out of 6 ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/Ns 0 out of 12 ; outside QC limits
ACID 0 out of 10 ; outside QC limits
PEST 0 out of 12 ; outside QC limits

Comments:

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FORM III

7/85

Sample Number
F9

LABORATORY INSTRUMENT DETECTION LIMITS

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No:

Lab Sample ID No:

QC Report No:

Sample Matrix:

Contract No: 68-01-6958, 68-01-6965, 68-01-7140, 68-01-7147

Data Release Authorized By:

Date Sample Received:

RECEIVED OCT 16 1987

Volatile Compounds

Concentration:

Date Extracted/Prepared:

Date Analyzed:

Conc/Dil Factor:

Percent Moisture:

Percent Moisture (Decanted):

CAS Number		NG
74-87-3	Chloromethane	48
74-83-9	Bromomethane	22
75-01-4	Vinyl Chloride	23
75-00-3	Chloroethane	19
75-09-2	Methylene Chloride	6.0
67-64-1	Acetone	8.5
75-15-0	Carbon Disulfide	7.4
75-35-4	1,1-Dichloroethene	7.9
75-34-3	1,1-Dichloroethane	8.7
156-60-5	Trans-1,2-Dichloroethene	7.5
67-66-3	Chloroform	7.7
107-06-2	1,2-Dichloroethane	10
78-93-3	2-Butanone	4.5
71-55-6	1,1,1-Trichloroethane	6.0
56-23-5	Carbon Tetrachloride	4.1
108-05-4	Vinyl Acetate	4.1
75-27-4	Bromodichloromethane	2.3

CAS Number		NG
78-87-5	1,2-Dichloropropane	8.1
10061-02-6	Trans-1,3-Dichloropropene	8.3
79-01-6	Trichloroethene	4.4
124-48-1	Dibromochloromethane	2.1
79-00-5	1,1,2-Trichloroethane	4.4
71-43-2	Benzene	6.5
10061-01-5	cis-1,3-Dichloropropene	8.2
110-75-8	2-Chloroethylvinylether	3.1
75-25-2	Bromoform	2.4
108-10-1	4-Methyl-2-Pentanone	9.7
591-78-6	2-Hexanone	10
127-18-4	Tetrachloroethene	4.9
79-34-5	1,1,2,2-Tetrachloroethane	5.2
108-88-3	Toluene	4.9
108-90-7	Chlorobenzene	3.7
100-41-4	Ethylbenzene	2.1
100-42-5	Styrene	3.3
	Total Xylenes	2.9

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read. U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

NA Not Analyzed
See cover letter.
NR Not Required.
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No

Sample Number
F10, F12

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Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: _____

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/DiL Factor: _____

GPC Cleanup: _____

Separatory Funnel Extraction: _____

Continuous Liquid - Liquid Extraction: _____

CAS Number		NG
108-95-2	Phenol	1.7
111-44-4	bis(-2-Chloroethyl)Ether	1.9
95-57-8	2-Chlorophenol	1.7
541-73-1	1,3-Dichlorobenzene	1.8
106-46-7	1,4-Dichlorobenzene	1.8
100-51-6	Benzyl Alcohol	1.2
95-50-1	1,2-Dichlorobenzene	1.7
95-48-7	2-Methylphenol	1.4
39638-32-9	bis(2-chloroisopropyl)Ether	1.9
106-44-5	4-Methylphenol	1.1
621-64-7	N-Nitroso-Di-n-Propylamine	1.7
67-72-1	Hexachloroethane	1.7
98-95-3	Nitrobenzene	1.9
78-59-1	Isophorone	1.8
88-75-5	2-Nitrophenol	1.6
105-67-9	2,4-Dimethylphenol	1.5
65-85-0	Benzoic Acid	0
111-91-1	bis(-2-Chloroethoxy)Methane	1.2
120-83-2	2,4-Dichlorophenol	1.2
120-82-1	1,2,4-Trichlorobenzene	2.1
91-20-3	Naphthalene	1.9
106-47-8	4-Chloroaniline	1.4
87-68-3	Hexachlorobutadiene	2.0
59-50-7	4-Chloro-3-Methylphenol	2.0
91-57-6	2-Methylnaphthalene	1.7
77-47-4	Hexachlorocyclopentadiene	2.5
88-06-2	2,4,6-Trichlorophenol	1.7
95-95-4	2,4,5-Trichlorophenol	3.5
91-58-7	2-Chloronaphthalene	1.7
88-74-4	2-Nitroaniline	3.8
131-11-3	Dimethyl Phthalate	1.7
208-96-8	Acenaphthylene	1.6
99-09-2	3-Nitroaniline	3.6

CAS Number		NG
83-32-9	Acenaphthene	1.7
51-28-5	2,4-Dinitrophenol	2.5
100-02-7	4-Nitrophenol	3.4
132-64-9	Dibenzofuran	1.7
121-14-2	2,4-Dinitrotoluene	1.7
606-20-2	2,6-Dinitrotoluene	1.6
84-66-2	Diethylphthalate	1.7
7005-72-3	4-Chlorophenyl-phenylether	1.8
86-73-7	Fluorene	1.6
100-01-6	4-Nitroaniline	4.6
534-52-1	4,6-Dinitro-2-Methylphenol	3.2
86-30-6	N-Nitrosodiphenylamine(1)	2.6
101-55-3	4-Bromophenyl-phenylether	1.8
118-74-1	Hexachlorobenzene	1.8
87-86-5	Pentachlorophenol	4.8
85-01-8	Phenanthrene	1.7
120-12-7	Anthracene	1.9
84-74-2	Di-n-Butylphthalate	1.6
206-44-0	Fluoranthene	1.7
129-00-0	Pyrene	1.8
85-68-7	Butylbenzylphthalate	1.6
91-94-1	3,3'-Dichlorobenzidine	0.0
56-55-3	Benzo(a)Anthracene	1.7
117-81-7	bis(2-Ethylhexyl)Phthalate	2.1
218-01-9	Chrysene	1.8
117-84-0	Di-n-Octyl Phthalate	1.4
205-99-2	Benzo(b)Fluoranthene	3.0
207-08-9	Benzo(k)Fluoranthene	3.0
50-32-8	Benzo(a)Pyrene	1.4
193-39-5	Indeno(1,2,3-cd)Pyrene	1.4
53-70-3	Dibenz(a,h)Anthracene	1.4
191-24-2	Benzo(g,h,i)Perylene	1.8

(1) - Cannot be separated from diphenylamine

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC
Case No

Sample Number
0Cl6

LABORATORY INSTRUMENT DETECTION LIMITS

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: _____

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

GPC Cleanup: _____

Separatory Funnel Extraction: _____

Continuous Liquid - Liquid Extraction: _____

CAS Number		PQ (On Column)
319-820-6	Alpha-BHC	5
319-85-7	Beta-BHC	5
319-86-8	Delta-BHC	5
58-89-9	Gamma-BHC (Lindane)	5
76-2020-8	Heptachlor	5
309-00-10	Aldrin	5
801020-57-3	Heptachlor Epoxide	5
959-98-8	Endosulfan I	10
60-57-1	Dieldrin	10
710-55-9	20,20'-DDE	10
710-100-8	Endrin	10
331013-65-9	Endosulfan II	10
72-520-8	20,20'-DDD	20
1031-07-8	Endosulfan Sulfate	20
50-29-3	20,20'-DDT	20
72-203-5	Methoxychlor	100
5320920-70-5	Endrin Ketone	20
57-720-9	Chlordane	100
8001-35-2	Toxaphene	1000
136720-11-2	Aroclor-1016	100
11104-28-2	Aroclor-1221	100
11141-16-5	Aroclor-1232	100
53469-21-9	Aroclor-1242	100
12672-29-6	Aroclor-1248	100
11097-69-1	Aroclor-1254	100
11096-82-5	Aroclor-1260	100

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s = or W_s = NR V_t = V_i =

Case: 7914/3048E

Contractor: CAL

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TENTATIVELY IDENTIFIED COMPOUNDS
WATCH ASSESSMENT

NOTE: Reviewer should note directly on Organic Analysis Data Sheet (OADS) those matches that in his opinion (based on contract criteria) are unreasonable.

CRITERIA

(1) Relative intensities of major ions (>10%) reference spectrum should be present in the sample spectrum.

(2) Relative intensities of major ions in sample spectrum should agree to within ± 20% of reference spectrum intensities.

(3) Molecular ions present in reference spectrum should be present in sample spectrum.

(4) Ions present in sample spectrum, but not in reference spectrum should be reviewed for possible background contamination or presence of coeluting interferences.

(5) Ions present in reference spectrum, but not in the sample spectrum should be reviewed for possible subtraction from the sample spectrum because of background contamination or coeluting interferences.

(6) If, in the reviewer's opinion, no valid identification can be made the compound should be labelled as "unknown" and the initials and date of the reviewer placed on the OADS.

Reviewer's Initials/Date: ZGK 10/8/87

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Case 7918/3048E

Enseco-Cal I.D.	EPA I.D.	ug/L (ppb) Found Aniline
30952-1	ET 121	10 U
30952-2	ET 122	10 U
30952-3	ET 123	10 U
30952-4	ET 124	10 U
30952-5	ET 125	10 U
30952-6	ET 131	10 U
30952-MB	Method Blank	10 U
30952-1MS	ET 121MS	10 U
30952-1MSD	ET 121MSD	10 U

Enseco-Cal I.D.	EPA I.D.	ug/L (ppb) Found	
		Acrolein	Acrylonitrile
30952-1	ET 121	100 U	50 U
30952-2	ET 122	100 U	50 U
30952-3	ET 123	100 U	50 U
30952-4	ET 124	100 U	50 U
30952-5	ET 125	100 U	50 U
30952-6	ET 131	100 U	50 U
30952-1MS	ET 121MS	100 U	50 U
30952-1MSD	ET 121MSD	100 U	50 U
VBK9870824	VOA Blank	100 U	50 U

Sample Number
ET 121

Organics Analysis Data Sheet
(Page 1)

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Laboratory Name: ENSECO CAL LAB
Case No: 7914/3048E
Lab Sample ID No: 30952-1
QC Report No: 3048E
Sample Matrix: WATER
Contract No: 68-01-7140
Data Release Authorized By:
Date Sample Received: 8/20/87

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 8/24/87
Date Analyzed: 8/24/87
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	5 U
74-83-9	Bromomethane	5 U
75-01-4	Vinyl Chloride	5 U
75-00-3	Chloroethane	1 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	1 U
75-35-4	1,1-Dichloroethene	1 U
75-34-3	1,1-Dichloroethane	1 U
156-60-5	Trans-1,2-Dichloroethene	1 U
67-66-3	Chloroform	1 U
107-06-2	1,2-Dichloroethane	1 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	1 U
56-23-5	Carbon Tetrachloride	1 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	1 U

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1 U
78-87-5	1,2-Dichloropropane	1 U
10061-02-6	Trans-1,3-Dichloropropene	1 U
79-01-6	Trichloroethene	1 U
124-48-1	Dibromochloromethane	1 U
79-00-5	1,1,2-Trichloroethane	1 U
71-43-2	Benzene	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	1 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	1 U
108-88-3	Toluene	1 U
108-90-7	Chlorobenzene	1 U
100-41-4	Ethylbenzene	1 U
100-42-5	Styrene	1 U
	Total Xylenes	1 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.
NA Not Analyzed.
e See cover letter.
NR Not Required.
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 121

RECEIVED OCT 16 1987

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 9/1/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	24 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

CLF: 10/11/85 Form I Prepared by: EV 7/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No.7914/3048E

Sample Number
ET 121

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Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/30/87

Conc/Dil Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s = 1000 or W_s = NR V_t = 5000 V_i = 5

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7914/3048E Sample No. ET 121

QC Report No. 3048E Lab Sample No. 3095201ABRI

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC J VALUE
1.	629-74-3	1-HEXADECYNE	A/BN	1328	842	5.8 UG/L
2.	4337-65-9	HEXANEDIOIC ACID, MONO(2-ETHYL	A/BN	1503	888	6.8 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 1-HEXADECYNE	1. B	1.
2. HEXANEDIOIC ACID, MONO(2-ETHYL	2. A	2. or isomer

no volatile Compounds

FORM 1, PART B

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Sample Number
ET 122

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB

Case No: 7914/3048E

Lab Sample ID No: 30952-2

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/20/87

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Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 8/24/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	5 U
74-83-9	Bromomethane	5 U
75-01-4	Vinyl Chloride	5 U
75-00-3	Chloroethane	1 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	1 U
75-35-4	1,1-Dichloroethene	1 U
75-34-3	1,1-Dichloroethane	1 U
156-60-5	Trans-1,2-Dichloroethene	1 U
67-66-3	Chloroform	1 U
107-06-2	1,2-Dichloroethane	1 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	1 U
56-23-5	Carbon Tetrachloride	1 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	1 U

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1 U
78-87-5	1,2-Dichloropropane	1 U
10061-02-6	Trans-1,3-Dichloropropene	1 U
79-01-6	Trichloroethene	1 U
124-48-1	Dibromochloromethane	1 U
79-00-5	1,1,2-Trichloroethane	1 U
71-43-2	Benzene	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	1 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	1 U
108-88-3	Toluene	1 U
108-90-7	Chlorobenzene	1 U
100-41-4	Ethylbenzene	1 U
100-42-5	Styrene	1 U
	Total Xylenes	1 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

NA Not Analyzed.

See cover letter.

NR Not Required.

S Spiked Compound.

Laboratory Name: CALIFORI ALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 122

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low
Date Extracted/Prepared: 8/24/87
Date Analyzed: 9/1/87
Conc/DiL Factor: 1

GPC Cleanup: NO
Separatory Funnel Extraction: YES
Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	9 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Laboratory Name: CALIFORI ALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 122

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW
Date Extracted/Prepared: 8/21/87
Date Analyzed: 8/30/87
Conc/Dil Factor: 1

GPC Cleanup: NO
Separatory Funnel Extraction: YES
Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s =1000 or W_s =NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: EV 7/85

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7914/3048E Sample No. ET 122

QC Report No. 3048E Lab Sample No. 3095202ABRI

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
	No A/BN				

No volatile compounds

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FORM 1, PART B

Sample Number
ET 123

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ENSECO CAL LAB
Case No: 7914/3048E
Lab Sample ID No: 30952-3
QC Report No: 3048E
Sample Matrix: WATER
Contract No: 68-01-7140
Data Release Authorized By:
Date Sample Received: 8/20/87

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Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 8/24/87
Date Analyzed: 8/24/87
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	5 U
74-83-9	Bromomethane	5 U
75-01-4	Vinyl Chloride	5 U
75-00-3	Chloroethane	1 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	1 U
75-35-4	1,1-Dichloroethene	1 U
75-34-3	1,1-Dichloroethane	1 U
156-60-5	Trans-1,2-Dichloroethene	1 U
67-66-3	Chloroform	1 U
107-06-2	1,2-Dichloroethane	1 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	1 U
56-23-5	Carbon Tetrachloride	1 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	1 U

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1 U
78-87-5	1,2-Dichloropropane	1 U
10061-02-6	Trans-1,3-Dichloropropene	1 U
79-01-6	Trichloroethene	1 U
124-48-1	Dibromochloromethane	1 U
79-00-5	1,1,2-Trichloroethane	1 U
71-43-2	Benzene	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	1 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	1 U
108-88-3	Toluene	1 U
108-90-7	Chlorobenzene	1 U
100-41-4	Ethylbenzene	1 U
100-42-5	Styrene	1 U
	Total Xylenes	1 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/ dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No.7914/3048E

Sample Number
ET 123

RECEIVED OCT 1 9 1987

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 8/31/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	6 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

CLF: 10/11/85 Form I Prepared by: EV 7/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 123

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Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/30/87

Conc/Dil Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane,	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s =1000 or W_s =NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: _____ 7/85

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7914/304BE Sample No. ET123

QC Report No. 304BE Lab Sample No. 3095203AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
	No A/BN				

No volatile compounds

FORM 1, PART B

Sample Number
ET 124

Organics Analysis Data Sheet
(Page 1)

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Laboratory Name: ENSECO CAL LAB

Case No: 7914/3048E

Lab Sample ID No: 30952-4

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/20/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 8/24/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	5 U
74-83-9	Bromomethane	5 U
75-01-4	Vinyl Chloride	5 U
75-00-3	Chloroethane	1 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	1 U
75-35-4	1,1-Dichloroethene	1 U
75-34-3	1,1-Dichloroethane	1 U
156-60-5	Trans-1,2-Dichloroethene	1 U
67-66-3	Chloroform	1 U
107-06-2	1,2-Dichloroethane	1 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	1 U
56-23-5	Carbon Tetrachloride	1 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	1 U

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1 U
78-87-5	1,2-Dichloropropane	1 U
10061-02-6	Trans-1,3-Dichloropropene	1 U
79-01-6	Trichloroethene	1 U
124-48-1	Dibromochloromethane	1 U
79-00-5	1,1,2-Trichloroethane	1 U
71-43-2	Benzene	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	1 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	1
108-88-3	Toluene	1 U
108-90-7	Chlorobenzene	1 U
100-41-4	Ethylbenzene	1 U
100-42-5	Styrene	1 U
	Total Xylenes	1 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

NA Not Analyzed.

See cover letter.

NR Not Required.

S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 124

RECEIVED OCT 16 1987

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 8/31/87

Conc/Dil. Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	8 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 124

RECEIVED OCT 16 1987

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW
Date Extracted/Prepared: 8/21/87
Date Analyzed: 8/30/87
Conc/Dil Factor: 1

GPC Cleanup: NO
Separatory Funnel Extraction: YES
Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s =1000 or W_s =NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: EV 7/85

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAL Case No. 7914/3048E Sample No. ET 124

QC Report No. 3048E Lab Sample No. 3095204AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY. ~~BNA~~ VOA

RECEIVED OCT 16 1987

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
	No A/BN				

No volatile compounds

FORM 1, PART B

Sample Number
ET 125

Organics Analysis Data Sheet
(Page 1)

RECEIVED OCT 1 0 1987

Laboratory Name: ENSECO CAL LAB

Case No: 7914/3048E

Lab Sample ID No: 30952-5

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/20/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 8/24/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	5 U
74-83-9	Bromomethane	5 U
75-01-4	Vinyl Chloride	5 U
75-00-3	Chloroethane	1 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	1 J
75-15-0	Carbon Disulfide	1 U
75-35-4	1,1-Dichloroethene	1 U
75-34-3	1,1-Dichloroethane	1 U
156-60-5	Trans-1,2-Dichloroethene	1 U
67-66-3	Chloroform	1 U
107-06-2	1,2-Dichloroethane	1 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	1 U
56-23-5	Carbon Tetrachloride	1 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	1 U

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1 U
78-87-5	1,2-Dichloropropane	1 U
10061-02-6	Trans-1,3-Dichloropropene	1 U
79-01-6	Trichloroethene	1 U
124-48-1	Dibromochloromethane	1 U
79-00-5	1,1,2-Trichloroethane	1 U
71-43-2	Benzene	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	1 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	2
108-88-3	Toluene	1 U
108-90-7	Chlorobenzene	1 U
100-41-4	Ethylbenzene	1 U
100-42-5	Styrene	1 U
	Total Xylenes	1 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

CLF: 11/14/85 Form I Prepared by: 10/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/9048E

Sample Number
ET 125

RECEIVED

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 9/1/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 125

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/30/87

Conc/Dil Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s =1000 or W_s =NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: EV 7/85

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

RECEIVED OCT 16 1987

Lab Name: CAL Case No. 7914/3048E Sample No. ET 125

QC Report No. 3048E Lab Sample No. 3095205AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1.	108-88-3	BENZENE, METHYL-	A/BN	237	940	4.8 UG/L
2.	19456-20-3	1,3-BENZODIOXOL-2-ONE, HEXAHYD	A/BN	378	637	4.0 UG/L
3.	2341-86-8	BENZENAMINE, N-[(PENTAFLUOROPH	A/BN	1439	248	1.8 UG/L
4.	4337-65-9	HEXANEDIOIC ACID, MONO(2-ETHYL	A/BN	1588	856	5.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. BENZENE, METHYL-	1. A+D	1. ~~[illegible]~~
2. 1,3-BENZODIOXOL-2-ONE, HEXAHYD	2. B D Dar	2. See blank
3. BENZENAMINE, N-[(PENTAFLUOROPH	3. C	3.
4. HEXANEDIOIC ACID, MONO(2-ETHYL	4. B D Dar	4. see blank

No volatile Compounds

FORM 1, PART B

Sample Number
ET 125

Organics Analysis Data Sheet
(Page 1)

RECEIVED OCT 15 1987

Laboratory Name: ENSECO CAL LAB

Case No: 7914/3048E

Lab Sample ID No: 30952-5

QC Report No: 3048E

Sample Matrix: WATER

Contract No: 68-01-7140

Data Release Authorized By:

Date Sample Received: 8/20/87

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 8/24/87

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	5 U
74-83-9	Bromomethane	5 U
75-01-4	Vinyl Chloride	5 U
75-00-3	Chloroethane	1 U
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	1 J
75-15-0	Carbon Disulfide	1 U
75-35-4	1,1-Dichloroethene	1 U
75-34-3	1,1-Dichloroethane	1 U
156-60-5	Trans-1,2-Dichloroethene	1 U
67-66-3	Chloroform	1 U
107-06-2	1,2-Dichloroethane	1 U
78-93-3	2-Butanone	10 U
71-55-6	1,1,1-Trichloroethane	1 U
56-23-5	Carbon Tetrachloride	1 U
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	1 U

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1 U
78-87-5	1,2-Dichloropropane	1 U
10061-02-6	Trans-1,3-Dichloropropene	1 U
79-01-6	Trichloroethene	1 U
124-48-1	Dibromochloromethane	1 U
79-00-5	1,1,2-Trichloroethane	1 U
71-43-2	Benzene	1 U
10061-01-5	cis-1,3-Dichloropropene	1 U
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	1 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	2
108-88-3	Toluene	1 U
108-90-7	Chlorobenzene	1 U
100-41-4	Ethylbenzene	1 U
100-42-5	Styrene	1 U
	Total Xylenes	1 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J). If limit of detection is 10ug/l and a concentration of 3ug/l is calculated, report as 3J

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides >= 10ng/ul in the final extract should be confirmed by GC/MS

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

NA Not Analyzed.
See cover letter.
NR Not Required.
S Spiked Compound.

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 125

RECEIVED

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 9/1/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

CLF: 10/11/85 Form I Prepared by: EV 7/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 125

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 8/21/87

Date Analyzed: 8/30/87

Conc/Dil Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.010 U
319-85-7	Beta-BHC	0.0050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.0050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	0.10 U
11104-28-2	Aroclor-1221	0.10 U
11141-16-5	Aroclor-1232	0.10 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s = 1000 or W_s = NR V_t = 5000 V_i = 5

CLF: 11/14/85 Form I Prepared by: EV 7/85

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

RECEIVED OCT 16 1987

Lab Name: CAL Case No. 7914/3048E Sample No. ET 125

QC Report No. 3048E Lab Sample No. 3095205AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1.	108-88-3	BENZENE, METHYL-	A/BN	237	940	4.8 UG/L
2.	19456-20-3	1,3-BENZODIOXOL-2-ONE, HEXAHYD	A/BN	378	637	4.0 UG/L
3.	2341-86-8	BENZENAMINE, N-[(PENTAFLUOROPH	A/BN	1439	248	1.8 UG/L
4.	4337-65-9	HEXANEDIOIC ACID, MONO(2-ETHYL	A/BN	1588	856	5.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. BENZENE, METHYL-	1. A+D	1. ~~[illegible]~~
2. 1,3-BENZODIOXOL-2-ONE, HEXAHYD	2. C D Dar	2. see blank
3. BENZENAMINE, N-[(PENTAFLUOROPH	3. C	3.
4. HEXANEDIOIC ACID, MONO(2-ETHYL	4. B D Dar	4. see blank

No volatile Compounds

FORM 1, PART B

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ET131

Lab Name: ENSECO CAL LAB Contract: 68-01-7140

Lab Code: _____ Case No.: 7914 7914 SAS No.: 3048E SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 30952-4

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

Level: (low/med) LOW Date Received: 8-20-87

% Moisture: not dec. _____ Date Analyzed: 8-24-87

Column: (pack/cap) _____ Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	5	U
74-83-9	Bromomethane	5	U
75-01-4	Vinyl Chloride	5	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	1	J
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	2	
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 131

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Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 8/24/87

Date Analyzed: 9/1/87

Conc/DiL Factor: 1

GPC Cleanup: NO

Separatory Funnel Extraction: YES

Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
108-95-2	Phenol	1.0 U
111-44-4	bis(-2-Chloroethyl)Ether	1.0 U
95-57-8	2-Chlorophenol	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
100-51-6	Benzyl Alcohol	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
95-48-7	2-Methylphenol	1.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	1.0 U
106-44-5	4-Methylphenol	1.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	1.0 U
67-72-1	Hexachloroethane	1.0 U
98-95-3	Nitrobenzene	1.0 U
78-59-1	Isophorone	1.0 U
88-75-5	2-Nitrophenol	1.0 U
105-67-9	2,4-Dimethylphenol	1.0 U
65-85-0	Benzoic Acid	20 U
111-91-1	bis(-2-Chloroethoxy)Methane	1.0 U
120-83-2	2,4-Dichlorophenol	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
91-20-3	Naphthalene	1.0 U
106-47-8	4-Chloroaniline	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 U
91-57-6	2-Methylnaphthalene	1.0 U
77-47-4	Hexachlorocyclopentadiene	1.0 U
88-06-2	2,4,6-Trichlorophenol	1.0 U
95-95-4	2,4,5-Trichlorophenol	1.0 U
91-58-7	2-Chloronaphthalene	1.0 U
88-74-4	2-Nitroaniline	5.0 U
131-11-3	Dimethyl Phthalate	1.0 U
208-96-8	Acenaphthylene	1.0 U
99-09-2	3-Nitroaniline	5.0 U

CAS Number		ug/L
83-32-9	Acenaphthene	1.0 U
51-28-5	2,4-Dinitrophenol	15 U
100-02-7	4-Nitrophenol	15 U
132-64-9	Dibenzofuran	1.0 U
121-14-2	2,4-Dinitrotoluene	1.0 U
606-20-2	2,6-Dinitrotoluene	1.0 U
84-66-2	Diethylphthalate	1.0 U
7005-72-3	4-Chlorophenyl-phenylether	1.0 U
86-73-7	Fluorene	1.0 U
100-01-6	4-Nitroaniline	5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	15 U
86-30-6	N-Nitrosodiphenylamine(1)	1.5 U
101-55-3	4-Bromophenyl-phenylether	1.5 U
118-74-1	Hexachlorobenzene	1.5 U
87-86-5	Pentachlorophenol	2.0 U
85-01-8	Phenanthrene	1.0 U
120-12-7	Anthracene	2.5 U
84-74-2	Di-n-Butylphthalate	2.0 U
206-44-0	Fluoranthene	1.5 U
129-00-0	Pyrene	1.5 U
85-68-7	Butylbenzylphthalate	3.5 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	1.5 U
117-81-7	bis(2-Ethylhexyl)Phthalate	8 B
218-01-9	Chrysene	1.5 U
117-84-0	Di-n-Octyl Phthalate	1.5 U
205-99-2	Benzo(b)Fluoranthene	1.5 U
207-08-9	Benzo(k)Fluoranthene	1.5 U
50-32-8	Benzo(a)Pyrene	2.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	3.5 U
53-70-3	Dibenz(a,h)Anthracene	2.5 U
191-24-2	Benzo(g,h,i)Perylene	4.0 U

(1) - Cannot be separated from diphenylamine

CLF: 10/11/85 Form I Prepared by: EV 7/85

Laboratory Name: CALIFORNIA ANALYTICAL LABORATORIES, INC.
Case No:7914/3048E

Sample Number
ET 131

Organics Analysis Data Sheet
(Page 3)

RECEIVED OCT 16 1987

Pesticide/PCBs

Concentration: LOW
Date Extracted/Prepared: 8/21/87
Date Analyzed: 8/30/87
Conc/Dil Factor: 10

GPC Cleanup: NO
Separatory Funnel Extraction: YES
Continuous Liquid - Liquid Extraction: NO

CAS Number		ug/L
319-84-6	Alpha-BHC	0.10 U
319-85-7	Beta-BHC	0.050 U
319-86-8	Delta-BHC	0.0050 U
58-89-9	Gamma-BHC (Lindane)	0.050 U
76-44-8	Heptachlor	0.030 U
309-00-2	Aldrin	0.0050 U
1024-57-3	Heptachlor Epoxide	0.0050 U
959-98-8	Endosulfan I	0.010 U
60-57-1	Dieldrin	0.010 U
72-55-9	4,4'-DDE	0.0050 U
72-20-8	Endrin	0.010 U
33213-65-9	Endosulfan II	0.010 U
72-54-8	4,4'-DDD	0.020 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.020 U
72-43-5	Methoxychlor	0.020 U
53494-70-5	Endrin Ketone	0.030 U
57-74-9	Chlordane	0.020 U
8001-35-2	Toxaphene	0.25 U
12674-11-2	Aroclor-1016	1.0 U
11104-28-2	Aroclor-1221	1.0 U
11141-16-5	Aroclor-1232	1.0 U
53469-21-9	Aroclor-1242	0.10 U
12672-29-6	Aroclor-1248	0.10 U
11097-69-1	Aroclor-1254	0.10 U
11096-82-5	Aroclor-1260	0.10 U

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s =990 or W_s =NR V_t = 50000 V_i = 5

CLF: 11/14/85 Form I Prepared by: EV 7/85

ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

RECEIVED OCT 16 1989

Lab Name: CAL Case No. 7914/3048E Sample No. ET131

QC Report No. 3048E Lab Sample No. 3095206AB

Probability that Identification is Correct:
A= HIGH B= MODERATE C= UNKNOWN D= SOLVENT IMPURITY, see VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
1.	52097-85-5	CYCLOBUTENE, 2-PROPENYLIDENE-	A/BN	234	922	9.0 UG/L
2.	7206-15-7	4-DODECENE, (E)-	A/BN	377	657	3.8 UG/L
3.	4337-65-9	HEXANEDIOIC ACID, MONO(2-ETHYL	A/BN	1588	761	2.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. CYCLOBUTENE, 2-PROPENYLIDENE-	1. D	1.
2. 4-DODECENE, (E)-	2. ~~B~~ D	2. see blank
3. HEXANEDIOIC ACID, MONO(2-ETHYL	3. ~~B~~ D	3.

FORM 1, PART B

ORGANICS ANALYSIS DATA SHEET
PAGE 4
TENTATIVELY IDENTIFIED COMPOUNDS

LAB NAME: CAL 3048E CASE NO. 7914 /3048E SAMPLE NO. ET 126 13/ 17

QC REPORT NO. 3048E LAB SAMPLE NO. 3095206V

RECEIVED

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SEE ABN

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	75-28-5	PROPANE, 2-METHYL-	VOA	67	975	260.9 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. PROPANE, 2-METHYL-	1. B A 1.	

FORM 1, PART B

SAMPLE PROPOSAL
FIT REGION V

1. Date Form Completed 7/15/87

2. Account # F0405235I TDD # F05-8703-347

EPA I.D. # OHD103536876

3. Site Name, City, State Town & Country Auto Parts
New Baltimore, Ohio (Hamilton Co.)

4. Team Leader Don Clark Sampler ~~TBD~~ Ron Short

5. Number and Type of Samples:

Soil/Sediment 4-5 Surface Water _____ Ground Water _____

Residential/Municipal Wells 4 Other _____

Number of Blanks 1 Number of Duplicates 1

6. RAS Parameters Requested:

A/B/N ✓ Pest/PCB ✓ Volatiles ✓ Metals ✓ Cyanide ✓

SAS Parameters Requested: None

7. Expected Sampling Date(s): Week of August ~~16-22~~ 18, 19

Expected Shipping Date(s): same day (s)

8. Lab Used For Analysis: Organic Soil ~~Hazlet~~ Rec CAL

Inorganic Soil ~~RMAL~~ Rec Chemtech

SAS _____

9. Case Number 7914 SAS Number 3048E

10. Airbill Numbers:

Organic Lab _____ # Coolers _____ # Samples _____

Inorganic Lab _____ # Coolers _____ # Samples _____

CRL/SAS Lab _____ # Coolers _____ # Samples _____

SAMPLE PROPOSAL
FIT REGION V

1. Date Form Completed 7/15/87

2. Account # FOH0523SI TDD # F05-8703-347

EPA I.D. # OHD103536876

3. Site Name, City, State Town & Country Auto Parts
New Baltimore, Ohio

4. Team Leader Don Clark Sampler TBD

5. Number and Type of Samples:

Soil/Sediment 4-5 Surface Water _____ Ground Water _____

Residential/Municipal Wells 4 Other _____

Number of Blanks 1 Number of Duplicates 1

6. RAS Parameters Requested:

A/B/N ✓ Pest/PCB ✓ Volatiles ✓ Metals ✓ Cyanide ✓

SAS Parameters Requested: None

7. Expected Sampling Date(s): Week of August 16-22 Aug. 18-19

Expected Shipping Date(s): same day(s)

8. Lab Used For Analysis: Organic _____

Inorganic _____

SAS _____

9. Case Number _____ SAS Number _____

10. Airbill Numbers:

Organic Lab _____ # Coolers _____ # Samples _____

Inorganic Lab _____ # Coolers _____ # Samples _____

CRL/SAS Lab _____ # Coolers _____ # Samples _____

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION S1 background

SAMPLING DATE 8/18/87 SAMPLING TIME 1730

ORGANIC TRAFFIC NUMBER ET 126

INORGANIC TRAFFIC NUMBER MEV 746

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 oz	Metals/Cyanide	5-152505	F7206112
8 oz	Organics	5-152506	F7206112
120 ml.	VOA	5-152507	45288032
120 ml.	VOA	5-152508	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Light brown sandy Loam.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH N/A

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION 52

SAMPLING DATE 8/18/87 SAMPLING TIME 1135

ORGANIC TRAFFIC NUMBER ET 127

INORGANIC TRAFFIC NUMBER MEU 747

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 oz	Metals/Cyanide	5-152509	F7206112
8 oz	Organics	5-152510	F7206112
120 ml.	VOA	5-152511	45288032
120 ml.	VOA	5-152512	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Moist brown sand and gravel

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH N/A

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION 53

SAMPLING DATE 8/18/87 SAMPLING TIME 1210

ORGANIC TRAFFIC NUMBER ET 128

INORGANIC TRAFFIC NUMBER MEV 748

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	Metals /cyanide	5-152513	F7206112
8oz	Organics	5-152514	F7206112
120ml.	VOA	5-152515	45288032
120ml.	VOA	5-152516	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Moist Dark Brown Sand and Gravel.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE

N/A

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION S 4

SAMPLING DATE 8/18/87 SAMPLING TIME 1705

ORGANIC TRAFFIC NUMBER ET 129

INORGANIC TRAFFIC NUMBER MEU 749

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 oz	Metals / Cyanide	5-152517	F 7206112
8 oz	Organics	5-152518	F 7206112
120 ml.	VOA	5-152519	45288032
120 ml.	VOA	5-152520	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Dry dark brown sandy Loam

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE

N/A

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914 / 3048E

SAMPLE #/STATION LOCATION RW1 - MSD 6950 River Rd. New Baltimore, OH 45030

SAMPLING DATE 8/19/87 SAMPLING TIME 9:15

ORGANIC TRAFFIC NUMBER ET 121

INORGANIC TRAFFIC NUMBER MEU 751

BOTTLE	ANALYSIS	TAG NUMBERS MSD	LOT NUMBER MSD
1 liter amber	organics	5-152553, 5-152558	H7134142, H7133302
1 liter amber	organics	5-152554, 5-152559	H7134142, H7133302
1 liter amber	organics	5-152555, 5-152560	H7134142, H7133302
1 liter plastic	Metals	5-152551	C7173112
1 liter plastic	Cyanide	5-152552	C7173112
40ml. VOA	VOA	5-152556, 5-152561	B7132131
40ml. VOA	VOA	5-152557, 5-152562	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS

pH 6.92

CONDUCTIVITY 1200 m.moles

TEMPERATURE 17°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914/3048E

SAMPLE #/STATION LOCATION RW2 6800 River Rd.
New Baltimore, OH 45030

SAMPLING DATE 8/19/87 SAMPLING TIME 1010

ORGANIC TRAFFIC NUMBER ET.122

INORGANIC TRAFFIC NUMBER MEU 752

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152565	H7133302
1 liter amber	organics	5-152566	H7133302
1 liter amber	organics	5-152567	H7133302
1 liter plastic	Metals	5-152563	C7173112
1 liter plastic	Cyanide	5-152564	C7173112
40ml. VOA	VOA	5-152568	B7132131
40ml. VOA	VOA	5-152569	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS

pH 6.99

CONDUCTIVITY 1200 m.mc

TEMPERATURE 17°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347
CASE NUMBER 7914 / 3048 E

SAMPLE #/STATION LOCATION RW 3 10250 Tule Ln.
New Baltimore, OH 45030

SAMPLING DATE 8/19/87 SAMPLING TIME 1050

ORGANIC TRAFFIC NUMBER ET 123
INORGANIC TRAFFIC NUMBER MEU 753

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152572	H7133302
1 liter amber	organics	5-152573	H7133302
1 liter amber	organics	5-152574	H7133302
1 liter plastic	Metals	5-152570	C7173122
1 liter plastic	Cyanide	5-152571	C7173122
40ml. VOA	VOA	5-152575	B7132131
40ml. VOA	VOA	5-152576	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS
pH 7.19
CONDUCTIVITY 500 m.m.
TEMPERATURE 20°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347
CASE NUMBER 7914 / 3048E

SAMPLE #/STATION LOCATION RW4 6959 River Rd.
New Baltimore, OH 45030

SAMPLING DATE 8/19/87 SAMPLING TIME 1130

ORGANIC TRAFFIC NUMBER ET.124
INORGANIC TRAFFIC NUMBER MEU 754

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152579	H7133302
1 liter amber	organics	5-152580	H7133302
1 liter amber	organics	5-152581	H7133302
1 liter plastic	Metals	5-152577	C7173122
1 liter plastic	Cyanide	5-152578	C7173122
40ml. VOA	VOA	5-152582	B7132131
40ml. VOA	VOA	5-152583	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS
pH 7.22
CONDUCTIVITY 1000 m.m.
TEMPERATURE 23° C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347
CASE NUMBER 7914/3048E

SAMPLE #/STATION LOCATION Duplicate 6959 River Rd. New Baltimore, OH 45030

SAMPLING DATE 8/19/87 SAMPLING TIME 1130

ORGANIC TRAFFIC NUMBER ET 125
INORGANIC TRAFFIC NUMBER MEU 755

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152586	H7134132
1 liter amber	organics	5-152587	H7134132
1 liter amber	organics	5-152588	H7134132
1 liter plastic	Metals	5-152584	C7173122
1 liter plastic	Cyanide	5-152585	C7173122
40ml. VOA	VOA	5-152589	B7132131
40ml. VOA	VOA	5-152590	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS
pH 7.22
CONDUCTIVITY 1000 mm.
TEMPERATURE 23° C.

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914 / 3048E

SAMPLE #/STATION LOCATION Blank

SAMPLING DATE 8/19/87 SAMPLING TIME 1000

ORGANIC TRAFFIC NUMBER ET. 131

INORGANIC TRAFFIC NUMBER MEU 756

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152593	H7134132
1 liter amber	organics	5-152594	H7134132
1 liter amber	organics	5-152595	H7134132
1 liter plastic	Metals	5-152591	C7173112
1 liter plastic	Cyanide	5-152592	C7173112
40ml. VOA	VOA	5-152596	B713213
40ml. VOA	VOA	5-152597	B713213

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS

pH 5.88

CONDUCTIVITY 0

TEMPERATURE 28°C

WELL LOG AND DRILLING REPORT

ORIGINAL

PLEASE USE PENCIL
OR TYPEWRITER
DO NOT USE INK.

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

№ 291498

County Hamilton Township Crosby Section of Township 16

Owner Frank Tucker Address Rt 1 Harrison, O

Location of property New Baltimore, O.

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 62

Type of screen ____ Length of screen —

Type of pump ____

Capacity of pump ____

Depth of pump setting ____

Date of completion ____

BAILING OR PUMPING TEST

Pumping Rate ____ G.P.M. Duration of test ____ hrs.

Drawdown ____ ft. Date 12/10/64

Static level-depth to water 42 ft.

Quality (clear, cloudy, taste, odor) ____

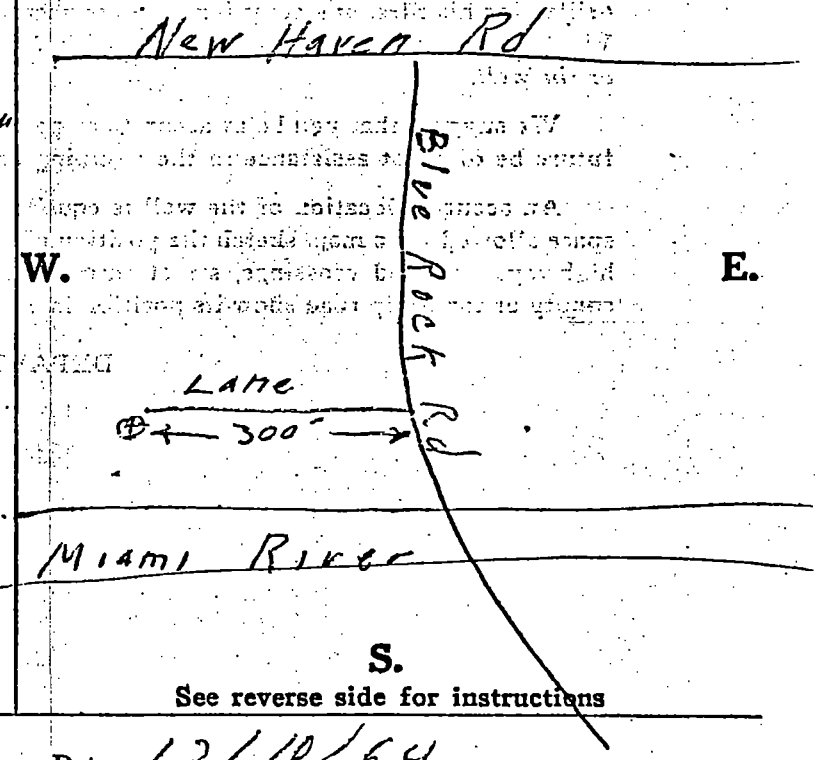
Pump installed by ____

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Top soil	0	2
Red clay	2	4
Coarse gravel	4	26
Blue clay	26	61'6"
Shale	61'6"	70
Water at 63'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 12/10/64

Address Shandon, O Signed Wm Crane

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

Nº 145698

County Hamilton Township Crosby Section of Township or Lot Number 16

Owner Loren Hann Address Harrison O Rt #1

Location of property New Baltimore O

CONSTRUCTION DETAILS

Casing diameter 5" Length of casing 28'

Type of screen Cook WW #30 brass Length of screen 4'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 21'7 ft.

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To Ft.
Top soil & sand	0	18'
Gravel	18'	32'5"
Clay below		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. Harrison-New Haven Rd. E.

New Baltimore

X

S.

See reverse side for instructions

Drilling Firm Wm Crane Date 5/5/55

Address Shandon O Signed Wm Crane

OHIO WATER RESOURCES BOARD

Well Record No. 489

31 Crosby 3

Co. Hamilton Twp. ~~Colerain~~ Sec. 16

Well Location S.E.part of Town Size 6" X 53½'

ithin 100 ft.of Miami River Map Hamilton

Baltimore Gardens,

Owner Stanley Schulze Address New Baltimore, O

Driller Hyden Brothers Date 3-10-49

Well Head Elev. or M. P.

Elev. of Ground at Well

Pumping Test: Approx.800 G.P.H 13

Static Level Date 3-10-49

Normal Pumpage

Quality Use

Adequacy of supply

Owner's Well No. or Other Designation

Source of Data Driller

Collected by cb Date 1949

73502 STRATA	DEPTH From	DEPTH To
Sand & gravel	0	19
Blue mud		53
Hard shale (gray)		85
5		
Type of pump: ½ h.p. Jet		
Capacity: 350 G.P.H.		
Depth of setting: 63 ft.		

X 1,386,800
Y 467,800 S

* Chief Aquifer

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIF

Heavy-duty

Medium-duty

U. S. Route

OHIO

QUADRANGLE LOCATION

SW/4

N39

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242

1974 Survey - New Baltimore

OEPA (HOSLER) W/HAM. CO. H.D.

		Condu.	Total Residue	SO4	N Ammonia	Chloride	Sodium	Al	Ba	Lead	Zinc	Phenol	Ca	Mg	COD	Cu	Fe	Nitrate	TOC	Total Phosphate PO4	Formaldehyde
			mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l
1	R BLOEMKER	820	630	53	0	92	58	0	0	0	920	0	103	38	3	70	190	7.8	5	0	
X 10	Jones Well (HERBERT LEE)		⊗																		
		1880	1270	0	13.6	480	370	300	400	0	30	7	132	45	32	0	9000	0	10.0	0.1	
4	Jones Again	9910	2666		12.8	1250		?	?						56			.05			
		2050	1222	Impossible	—	400	260	0	0	0	70	—	153	39	—	0	6800	0	6.0	0.2	Inter Ference
X 6	Homelike Inn		⊗																		
		1160	844	81	1.87	250	172	300	400	0	10	0	116	42	4	60	1200	0.2	0.5	0	
X 7	KOEHLER'S WELL		(DISS)																		
		1280	958	0	8.8	245	216	200	400	0	70	3	100	35	36	40	6000	0.2	24.0	0.4	
X 4	ALLEN'S WELL ~~Sent to Chandler~~	621	769	41	.06							<2			<6			1.74			
		550	400	50	.01	13	11	—	400	400	1130	0	87	30	4	3060	180	2.4	1.5	0	Inter Ference
1	ECKERLE WELL	DISS→	348																		
		510	350	28	0.33	12	8	0	0	0	1090	0	77	27	8	0	630	0.1	8.0	0	
X 1	THOROUGHMAN'S WELL COOOS	1320	780	43	.09	156						<2			10			5.67			
		950	696	57	0.0	125	64	0	0	0	0	Phenol Poisoned	26	39	4	0	0	11.7	3.0	0	Inter Ference
4	E MOON WELL		⊗																		
		940	706	56	.09	115	54	0	700	—	2670	0	120	44	8	40	230	10.61	4.5	0	
	STRUNK'S WELL	DISS→	322																		
1		450	330	5.0	.12	3	19	0	0	0	460	0	77	21	4	40	1190	0.1	3.5	0.1	
X 6	WELCH CONSTRUCTION WELL	DISS→	714									<2									
		950	808	6.0	.55	120	160	0	300	0	760	0	82	29	24	0	28200	0.1	24.0	0.1	
2	TRESSLER COMET GAS STATION JACKSON	DISS→	444		3.77							<2			12			<.05			
		650	478	4.0	5.84	45	77	0	0	0	570	0	66	28	12	0	1630	0.1	7.5	0.2	Inter Ference
2	WARDWELL'S WELL SAME	DISS→	384																		
		510	396	67	0	10	8	200	0	0	210	0	81	30	0	0	1130	1.3	3.5	0.1	
3	LUCAS' WELL																				
		550	404	35	0.0	49	32	400	300	0	140	0	73	26	4	180	260	5.0	2.5	0.4	
4	NEW BALTIMORE MARKET		422																		
		630	438	8	3.27	18	18	0	300	0	320	0	88	37	4	520	4250	0.2	4.0	0.9	
1	WILSON WELL		398																		
		590	404	10	.00	13	50	200	0	0	930	0	88	21	4	80	1400	1.8	0	0.1	
X 4	WUEST WELL SAME	1300	804	43	.09	143						<2			6			8.57			
		860	678	48	0	110	44.5	200	300	0	1240	0	134	45	0	250	100	11.2	0.5	0	0.13
2	HENSLER WELL		⊗																		
		850	646	93	0.16	100	40.5	200	300	0	10	0	124	44	0	40	100	2.3	1.5	0	
1	GILL'S WELL									pump											
		360	252	38	0.47	13	8	0	0	46	90	0	57	18	4	170	200	3.12	5.5	0.1	
4	New Baltimore Auto Parts PROD. WELL	470	490	15	2.85	5	13	1000	400	—	110	0	85	29	8	0	9000	0	3.0	0.1	
2	New Baltimore Auto Parts Deep Well	880	660	49	.02	100	66	200	300	—	300	0	126	42	0	90	0	8.9	0.5	0.0	
	Fort Scott Comp	524	310		.08	33						<2			6			3.95			0.155

[ ] EXCEEDS PRIMARY OR SECONDARY STANDARD

⊗ PROBABLY WOULD EXCEED STANDARD IF ANALYZED

GEN 1003

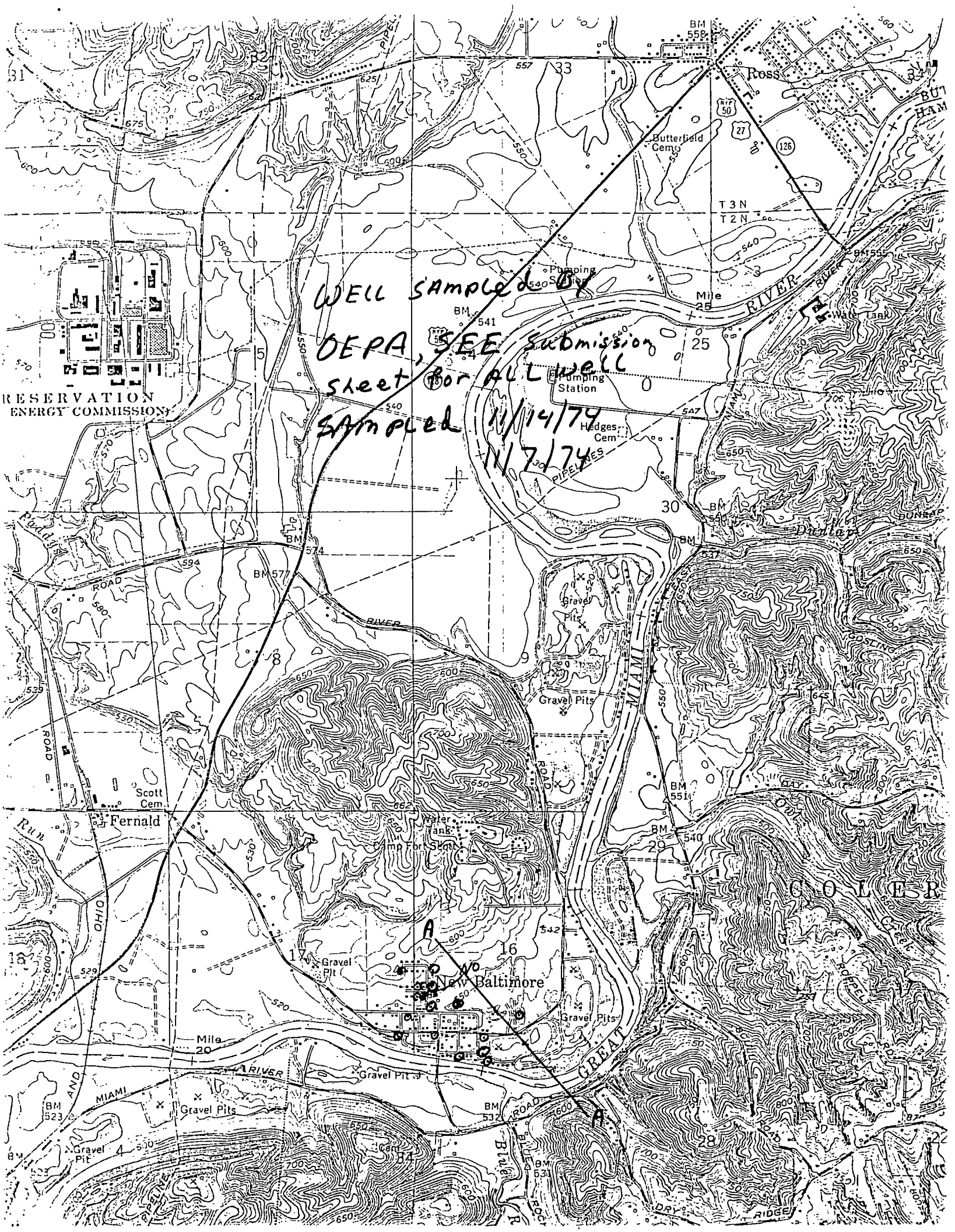
Pumping Station
Hedges Cem
PIPELINES
MIAMI
Gravel Pits
Gravel Pits
RIVER
BM 577
BM 574
BM 551
BM 540
BM 532
BM 531
BM 635
Water Tank
Camp Fort Scott
New Baltimore
Gravel Pit
Gravel Pits
Gravel Pit
Gravel Pits
Mile 20
RIVER
GREAT
Blue Rock
COLERAIN
Dunlap
DUNLAP
DAY
ROAD
DRY RIDGE
BARNESBURG 2.5 MI.
703000m.E.
INTERIOR—GEOLOGICAL SURVEY WASHINGTON, D.C.
ROAD CLASSIFICATION
Heavy-duty
Medium-duty
Light-duty
Unimproved di
U. S. Route
State
1 MILE
7000 FEET
1 KILOMETER
OHIO
QUADRANGLE LOCATION
SHANDO
SW/4 HAMILTON

Wells sampled by EPA
in New Baltimore
~~[illegible]~~ 11/7, 14/74

1 - Wyest
2 - Home Like Inn
3 - Hensler
4 - New Baltimore Auto Parts Shallow well
5 - " " " " Deep Well
6 - Jones well
7 - Tresler Comet Gas station
8 - New Baltimore market
9 - Wilson
10 - Allen ?
11 - Wardwell
12 - Lucus
13 - Eckerle ?
14 - Gill (Cistern)
15 - Trunk ? — (CISTERN) ?
16 - Moon
17 - Thoroughman
18 - Koehlec
19 - Welch construction
20 - Bloemker - same as N. B. auto parts shallow well

1. Jones well
2 Wuest well
3 Homelike Inn well
4 Hensler well
5 New Balt. Au. Pt. Prod. well
6 New Balt. A. Pt. Deep well

Heavy-duty
Medium duty


WELL SAMPLED BY
OEPA, SEE Submission
sheet for ALL well
SAMPLED 11/14/74
11/7/74
RESERVATION
ENERGY COMMISSION
Ross
Butterfield Cemo
T 3 N
T 2 N
Pumping Station
Mile 25
RIVER
Water Tank
Pumping Station
Hedges Cem
PIPELINES
Dunlap
Gravel Pits
MIAMI
Scott Cem
Fernald
Water Tank
Camp Fort Shaw
COLER
Gravel Pit
New Baltimore
Gravel Pits
Mile 20
GREAT
Gravel Pit
Gravel Pits
Gravel Pit
Blue
DRY RIDGE
A
A

1 MILE

4000 5000 6000 7000 FEET

1 KILOMETER

ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

U. S. Route — State Route

OHIO

SHANDON, O

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 172574

County Hamilton Township Crosby Section of Township or Lot Number 17

Owner M C Pottenger Address Harrison O Rtu

Location of property

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 43

Type of screen Freeman #30 Length of screen 7'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date 5/4/56

Developed capacity

Static level—depth to water 27'6 ft.

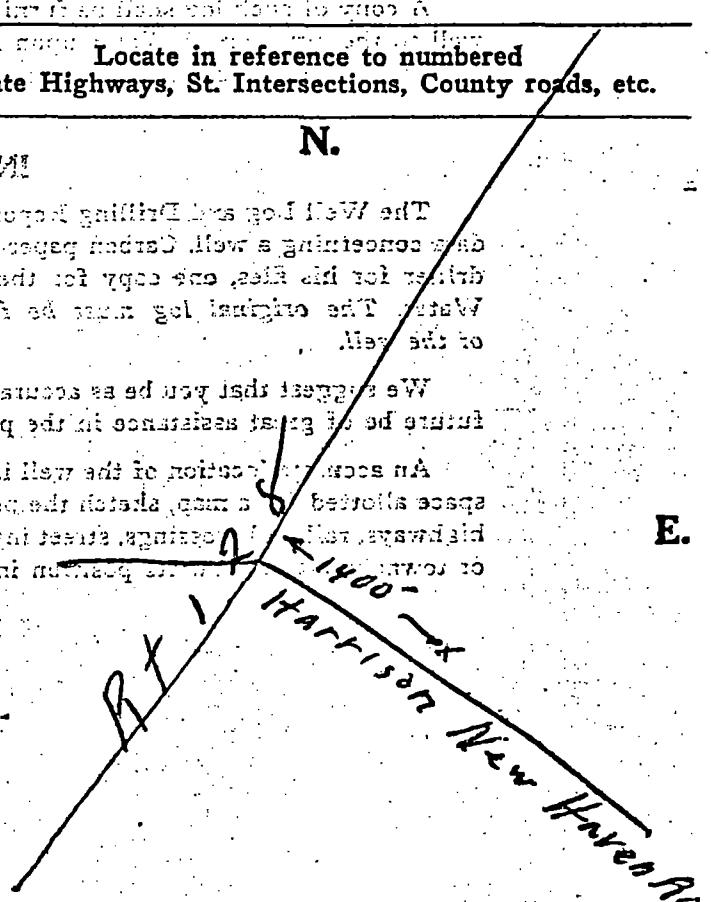
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Top soil	0	12
Gravel	12	30
Med gravel	30	50
Clay	50	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 5/4/56

Address Shandon O Signed Wm Crane

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 172574

County Hamilton Township Crosby Section of Township or Lot Number 17

Owner MC Pottenger Address Harrison O Rtu

Location of property

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 43

Type of screen Freeman #30 Length of screen 7'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date 5/4/56

Developed capacity

Static level—depth to water 27'6 ft.

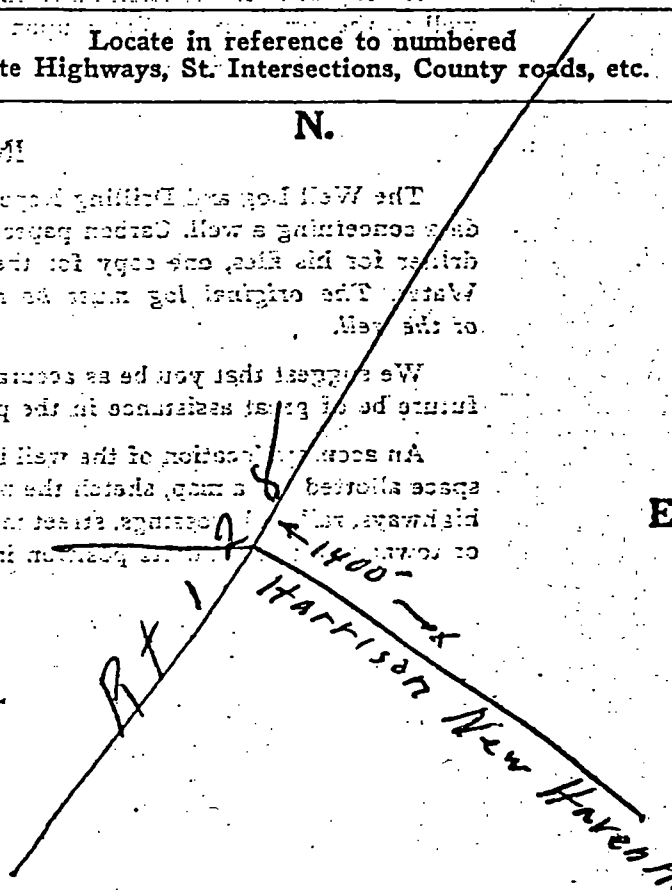
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Top soil	0	12
Gravel	12	30
Med gravel	30	50
Clay	50	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 5/4/56

Address Shandon O Signed Wm Crane

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

№ 145698

County Hamilton Township Crosby Section of Township or Lot Number 16

Owner Loren Hann Address Harrison O Rt #1

Location of property New Baltimore O

CONSTRUCTION DETAILS

Casing diameter 5" Length of casing 28'

Type of screen Cook brass WW #30 Length of screen 4'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs

Drawdown ft. Date

Developed capacity

Static level—depth to water 21'7 ft

Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To Ft.
Top soil & sand	0	18'
Gravel	18'	32'5"
Clay below		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.

N.

W. Harrison-New Haven Rd. X New Baltimore E

S.

See reverse side for instructions

Drilling Firm Wm Crane Date 5/5/55

Address Shandon O Signed Wm Crane

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

№ 291498

County Hamilton Township Crosby Section of Township 16

Owner Frank Tucker Address Rt 1 Harrison, O

Location of property New Baltimore, O.

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 62

Type of screen — Length of screen —

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.

Drawdown ft. Date 12/10/64

Static level-depth to water 42 ft.

Quality (clear, cloudy, taste, odor)

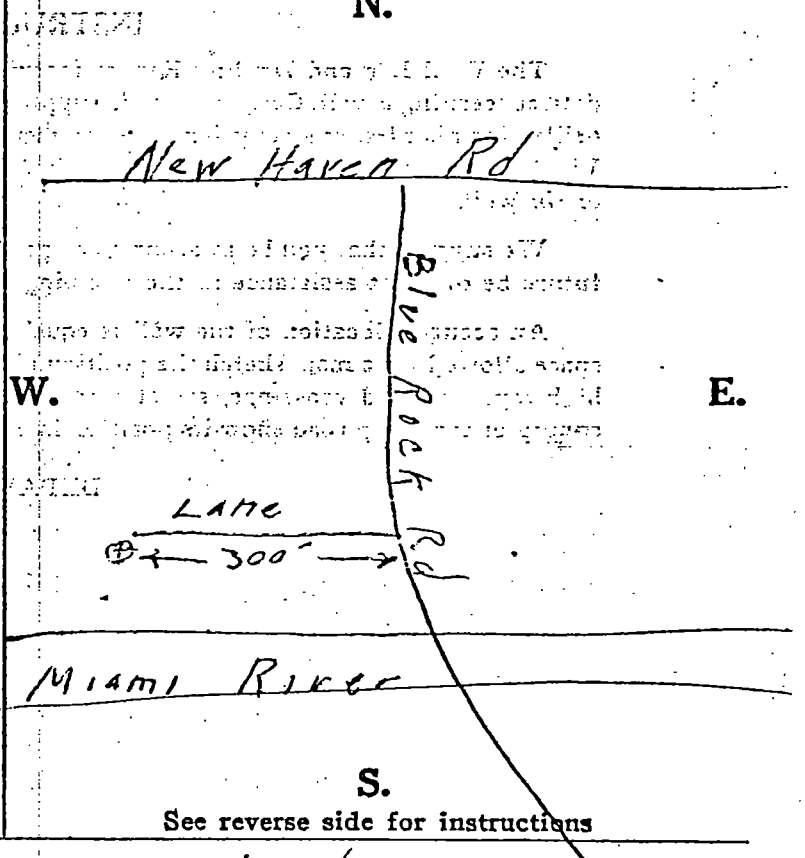
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To Ft.
Top soil	0	2
Red clay	2	4
Coarse gravel	4	26
Blue clay	26	61'6"
Shale	61'6"	70
Water at 63'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 12/10/64

Address Shandon, O Signed Wm Crane

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

№ 291473

County Hamilton Township Crosby Section of Township 16

Owner Matilda Kelsch Address 2122 Kemper Ln. Cincinnati 6, O

Location of property New Baltimore, O.

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 28

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.

Drawdown ft. Date 10/2/63

Static level-depth to water 24' ft.

Quality (clear, cloudy, taste, odor) OK

3gpm bailer test

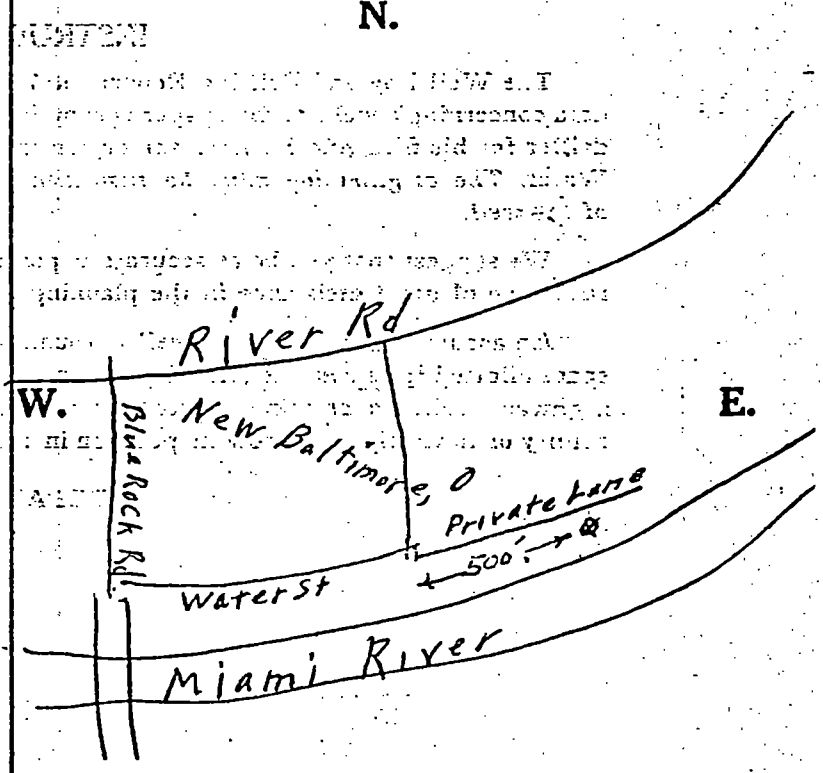
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To Ft.
Top soil	0	1
Coarse gravel	1	16
Blue clay	16	26
Shale	26	50
Water at 30'	44'	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 10/2/63

Address Shandon, O Signed Wm Crane

WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

435586

County Hamilton Township Crosby Section of Township 17

Owner Bradford Estes Address 698 River Rd

Location of property Symmes (New Baltimore) Harrison Ohio 45030

CONSTRUCTION DETAILS

Casing diameter 4 Length of casing 150

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 20 G.P.M. Duration of test hrs

Drawdown ft. Date

Static level-depth to water ft.

Quality (clear, cloudy, taste, odor)

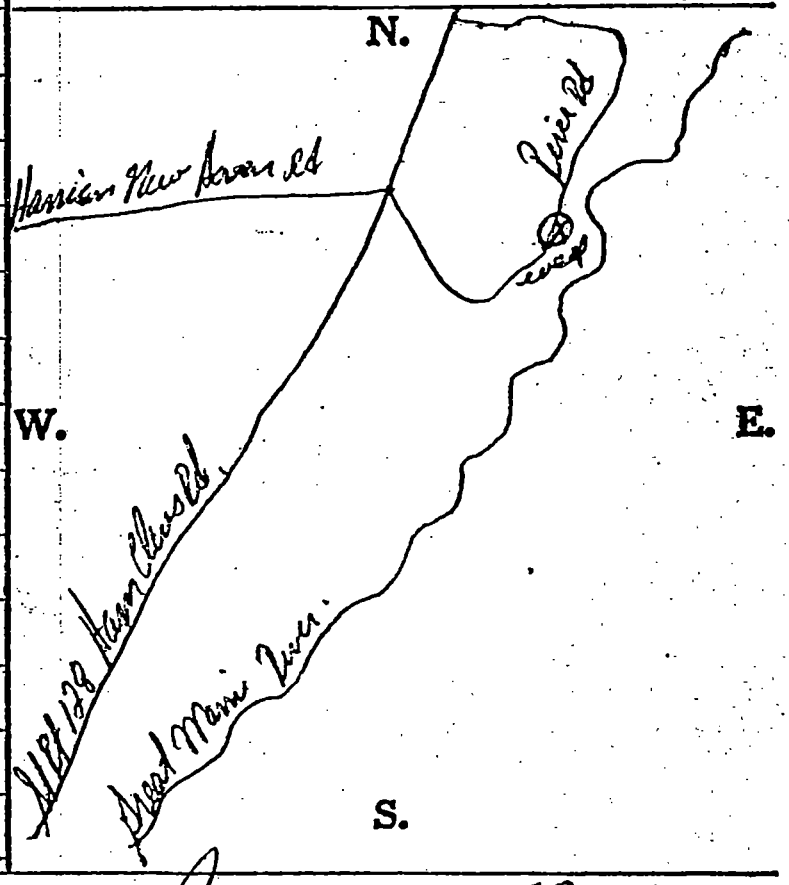
Pump installed by

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top Soil	0 Feet	1 Ft.
Sub Soil	1	2
Clay Gravel	2	8
Gravel	8	30
Blue Clay	30	50
Water @ 30'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm HOOVER WELL DRIL

Address 4253 SCIPIO RD HAM-OHIO

Date June 28-1972

Signed [illegible]

*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL

W L LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 230004

County HAMILTON Township Crosby Section of Township

Owner VIRGINIA CAROLINA Address FERNALD, OHIO

Location of property FERNALD OHIO Corner of Pippin Rd & New Haven Rd

CONSTRUCTION DETAILS

Casing diameter 8" Length of casing 86'

Type of screen Wire wound Length of screen 15'

Type of pump BYRON JACKSON

Capacity of pump 150 GPM.

Depth of pump setting 96'-90'

Date of completion 1957

BAILING OR PUMPING TEST

Pumping rate ? G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 12' ft.

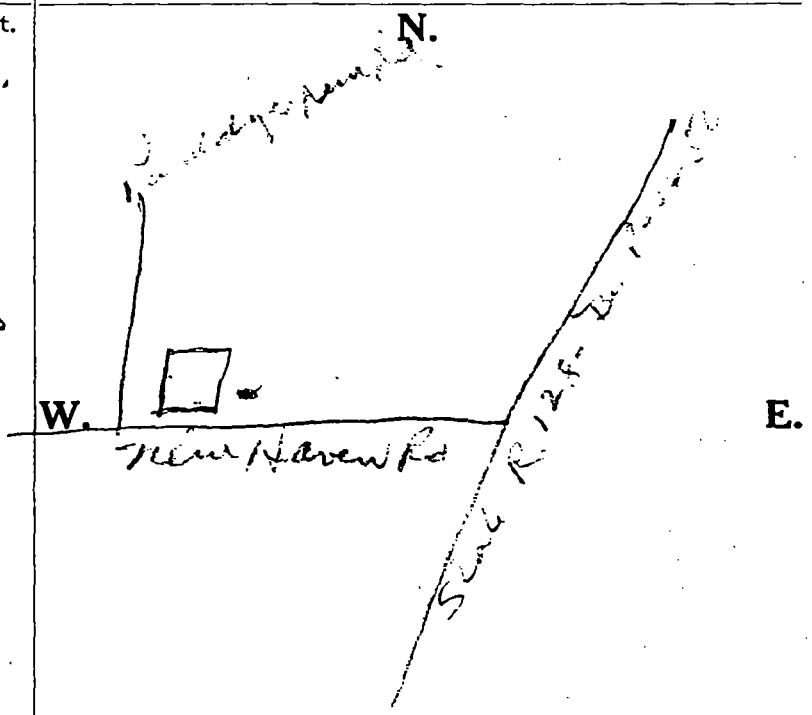
Pump installed by POSEY

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
MUD & SAND.	0 Feet	20 Ft.
MED SAND	20	50'
COURSE SAND	50	70
MED SAND	70	100

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



S.

See reverse side for instructions

Drilling Firm A.P. POSEY CO. Date 1-30-59

Address 246 COMPTON RIDGE Signed M. ENGLEDEE

DRY

Twp 1 Comp. 4 Range 2 Mi. Maiv

WEL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

No. 402900

County Hamilton Township Crosby Section of Township 5

Owner F & C Sand & Gravel Co Address Miamitown, O

Location of property

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 57

Type of screen Cook brass #30 Length of screen 2'

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 35 G.P.M. Duration of test 4 hrs.

Drawdown 2 ft. Date 8/13/71

Static level-depth to water 22' ft.

Quality (clear, cloudy, taste, odor)

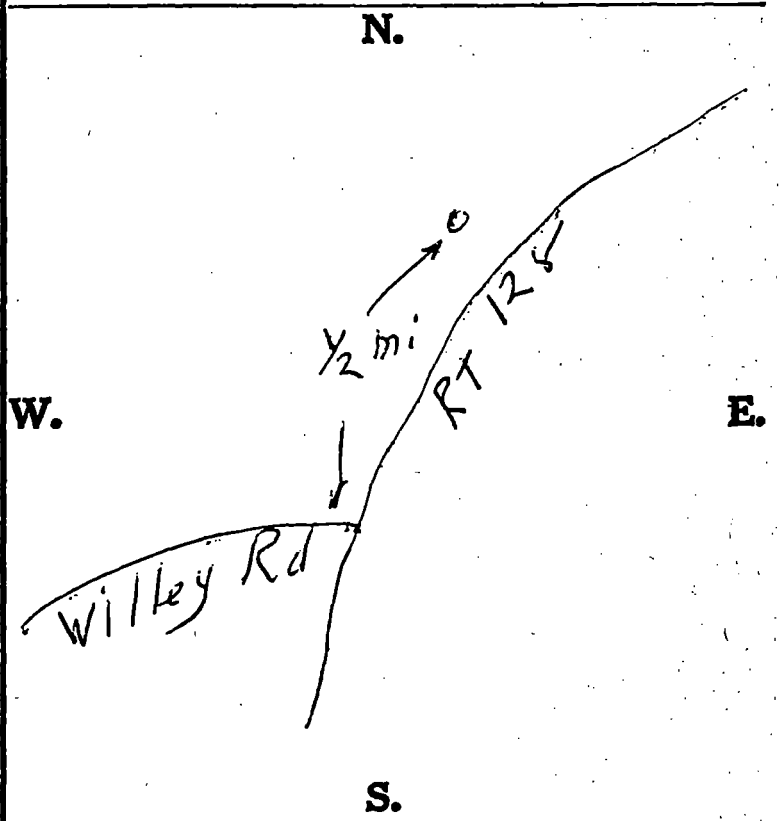
Pump installed by Crane

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Pit	0	6
Sand & Gravel	6	65

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm Wm Crane Date 8/28/71

Address Box 33 Shandon, O Signed Wm Crane

*If additional space is needed to complete well log, use next consecutive numbered form.

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

No. 263172

County HAMILTON Township COLERAIN Section of Township

Owner ROBERT MERTZ Address 5523 DRY RIDGE Rd CINCINNATI, 39, OHIO

Location of property SAME AS ABOVE

CONSTRUCTION DETAILS

Casing diameter 6½ Length of casing 32'

Type of screen Length of screen

Type of pump DEEP WELL JET

Capacity of pump 200 G.P.

Depth of pump setting 95'

Date of completion 3-3-61

BAILING OR PUMPING TEST

Pumping rate 1½ G.P.M. Duration of test 1 hrs.

Drawdown 70 ft. Date 3-3-61

Developed capacity 1½ G.P.M.

Static level—depth to water 30 ft.

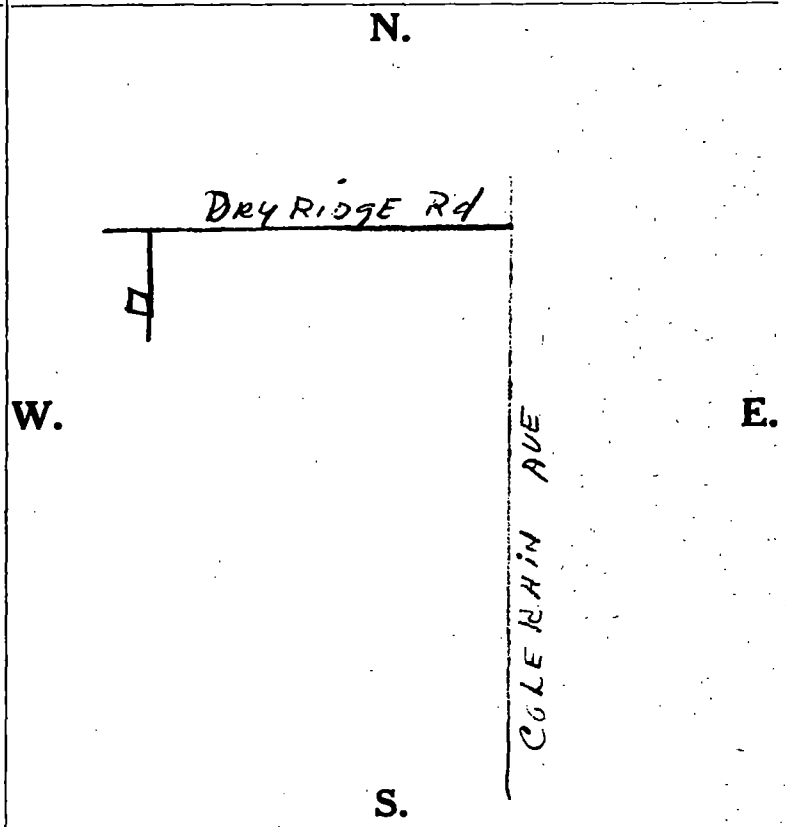
Pump installed by SUBURBAN WELL DRILLING

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	18 Ft.
CLAY + SHALE	18	27
LIMESTONE ROCK + SHALE	27	100
WATER at 40'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm SUBURBAN WELL DRILLING Date 4-17-61

Address R#1, BOX 8 MELBOURNE KY Signed James Hyden

15

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

No. 95441

x 1,390,800
y 478,400

County Hamilton Township Colerain Section of Township or Lot Number 30

Owner Geo Gausman Address Mt Healthy O Rt #4

Location of property E. Miami River Rd

CONSTRUCTION DETAILS

Casing diameter 4" Length of casing 31'

Type of screen Miami, brass #30 Length of screen 3'

Type of pump

Capacity of pump

Depth of pump setting

PUMPING TEST

Pumping rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Developed capacity

Static level—depth to water 26'0 11/12/52 ft.

Pump installed by

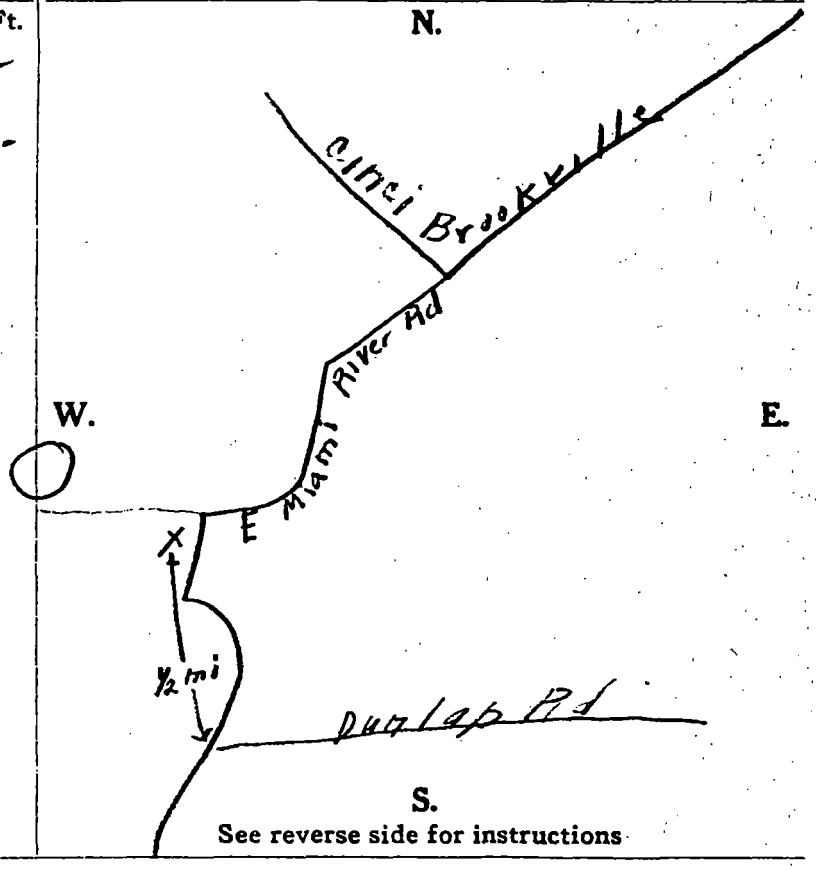
WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
	0 Feet	Ft.
Top soil	0	6'
Sand & gravel	6'	34'
Below 34' shale		

Southwestern Water Co well here

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 11/12/52

Address Sharonville O. Signed

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

Nº 173086

County Hum. Co. Township Colrain Section of Township or Lot Number

Owner Ed Wattenman Address Berin Rd.

Location of property Brem Rd.

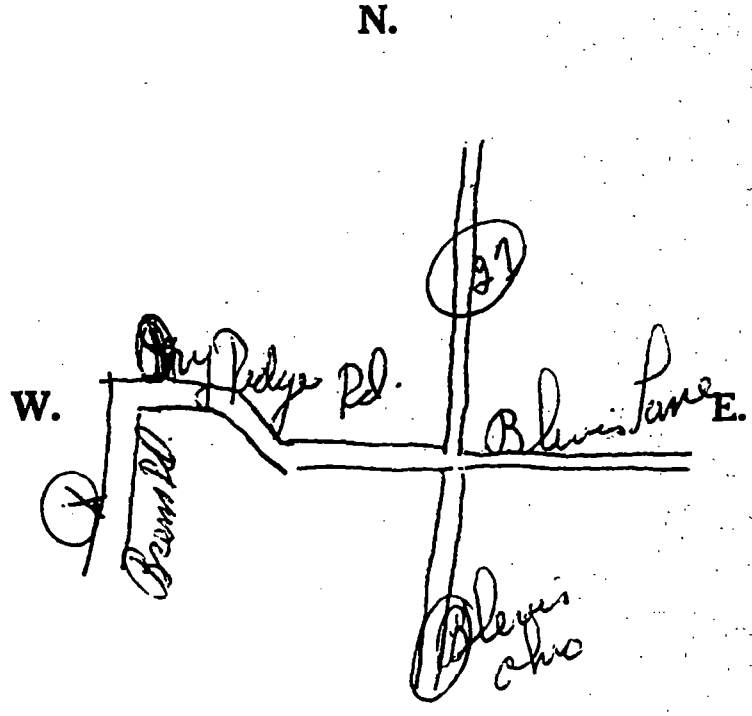
CONSTRUCTION DETAILS	PUMPING TEST
Casing diameter 6 1/4 Length of casing 47	Pumping rate G.P.M. Duration of test hrs.
Type of screen Length of screen	Drawdown ft. Date
Type of pump	Developed capacity
Capacity of pump	Static level—depth to water ft.
Depth of pump setting	Pump installed by Bailer test 100 g. in 24 hrs.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
top soil	0 Feet	2 Ft.
Sub soil	2	4
clay	4	48
Stone	48	118

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm J B Hoover Date 12-20-56

Address 4253 Sagin Rd Signed J B Hoover

35

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio 43212

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK.

№ 352405

County Hamilton Township Colerain Section of Township 93

Owner Harold Helm Contractor Address 6300 Day Rd.

Location of property 6300 Day Rd Cin. Ohio

CONSTRUCTION DETAILS

Casing diameter 4" Length of casing 75

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.

Drawdown ft. Date

Static level-depth to water ft.

Quality (clear, cloudy, taste, odor)

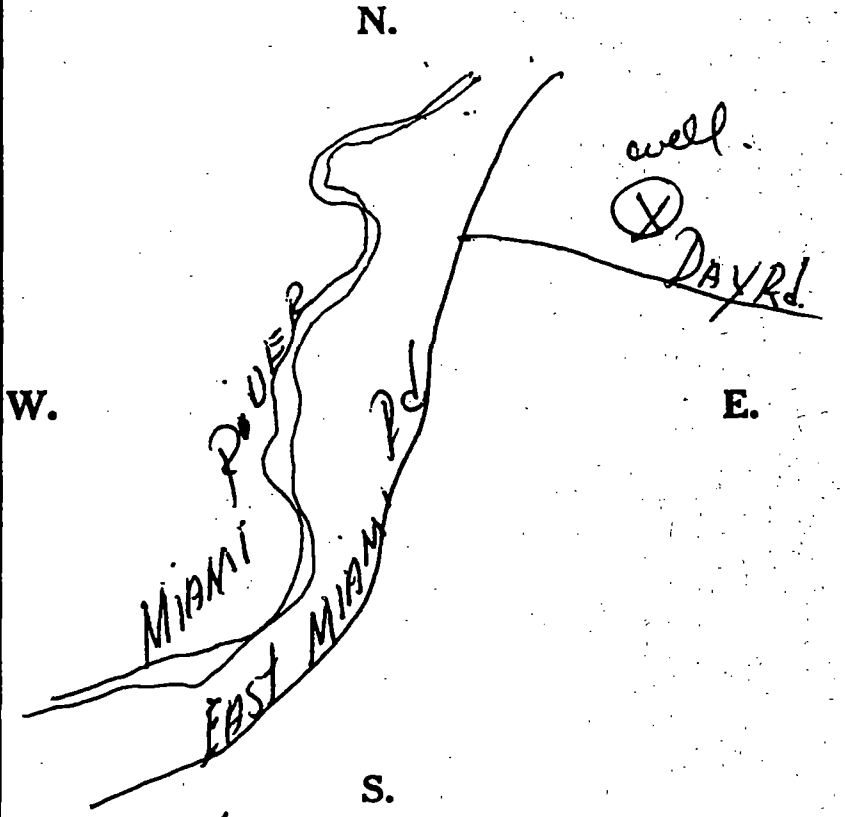
Pump installed by Backtest 5 G.P.M.

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top Soil	0 Feet	1 Ft.
Clay	1	4
Clay & Sand.	4	15
Sand Gravel	15	32
Clay	32	68
Stone	68	75
Water at 68'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Flower Well Drilling Date June 13-66

Address 4253 Sepio Rd. Signed [illegible]

*If additional space is needed to complete well log, use next consecutive numbered form.

5HR-12

Ray Wuest
6959 River Road
New Baltimore, OH 45030

Re: Drinking Water Sample Results

Dear Mr. Wuest,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

Enclosed for your information is a summary table of results. The summary table presents the concentration of organic compounds, metals and cyanide detected in your sample, a blank sample and a duplicate sample (if applicable). Additionally, drinking water standards for several substances are presented on the summary table. Should you be interested in securing a second opinion of our results, the quality assurance data, which describe the testing procedures can be obtained from this office at your request.

The data were reviewed to compare the levels found with proposed standards in the Safe Drinking Water Act with Health Advisory Levels (HAL) that are issued periodically from U.S. EPA's Office of Drinking Water in Washington, D.C. The standards in the Safe Drinking Water Act set Maximum Contaminant Levels (MCL) for nine synthetic organic chemicals. The MCL's are intended to reduce the risk of adverse health effects from consuming these chemicals over a lifetime. The HAL's on the other hand, are intended to reduce the risk of adverse health effects from consuming certain chemicals for even a short period of time.

The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

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SHR-12

Ray Muest
6959 River Road
New Baltimore, OH 45030

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5HR-12

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New Baltimore, OH 45030

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SWR-12

Ray Wunst
4563 River Road
New Baltimore, OH 45345

Re: Drinking Water Sample Results

Dear Mr. Wunst,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

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SHR-12

Ray Nuest
6959 River Road
New Baltimore, OH 45030

Re: Drinking Water Sample Results

Dear Mr. Nuest,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

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The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

There are other contaminants with MCLs established that are not usually associated with the type of sites that we are looking at and thus we did not analyze for. These include nitrates, radionuclides, coliform bacteria, total trihalomethanes, turbidity and fluoride. You may wish to contact your state agency that addresses private well water usage regarding testing for these other possible contaminants.

If you have any questions about your well samples, please contact me at (312) 353-1057.

Sincerely yours,

William D. Messenger, Chief
Pre-Remedial Unit

Enclosures

cc: Plumbing Division
Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

WDM 6/25/86

WDM 6/11/86

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If you have any questions about your well samples, please contact me at (312) 353-1067.

Sincerely yours,

William D. Messenger, Chief
Pre-Remedial Unit

Enclosures

cc: Plumbing Division
Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

RIN NO. Tonawanda Country Posts

POSITIVE
DETERMINATION

FREEDOM OF INFORMATION ACT RESPONSES

F O I A

ENERGENCY & REMEDIAL RESPONSE BRANCH ROUTING SLIP

TO:	INITIALS	DATE
1. SPIU Staff		
2. Chief, State Programs and Information Unit		
3. Staff, Pre-Remedial Unit	NM	8/9/88
4. Chief, Pre-Remedial Unit	[illegible]	8-11-88
5. Jeanne Griffin, PRU (KRS Release Only)		
6. Chief, Program Support Section		

(This is an interim response only.)

*NOTE: PLEASE HAND CARRY TO TOM GEISHECKER, CHIEF - PROGRAM SUPPORT SECTION

11th FLOOR - S.W. CORNER

V

M E M O R A N D U M

DATE: 2-19-88

TO: William Messenger, U.S. EPA

FROM: Cathy Schlesinger

SUBJECT: Drinking Water Sample Results

Sample RW 4

Site Name Town & Country Auto Parts

PAN # F0H0523SA

TDD # F05-8703-347

EPA ID # OHD103536876

Please find attached the data summary sheets, a copy of the original data, and laboratory blank/quality control information for the drinking water sample collected from:

Name Ray Wuest

Address 6959 River Road

City New Baltimore (Harrison)

State OHIO

Zip Code 45030

Phone Number 513/385-8580

0099:3

No Contamination _X_
No hits above any health-related standards.

C.
6-9-88

RESIDENTIAL

WELL WATER

SAMPLE DATA

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 4 / CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM								1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE								1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE	/		NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE								75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE								15	
4-METHYL-2-PENTANONE								(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			620					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
ISOPHORONE								2.5	
2-NITROPHENOL								2	
2,4-DIMETHYLPHENOL								2	
BIS(2-CHLOROETHOXY) METHANE								2.5	
2,4-DICHLOROPHENOL								2	
1,2,4-TRICHLOROBENZENE								2	
NAPHTHALENE								2	
4-CHLOROANILINE								2	
HEXACHLOROBUTADIENE								2.5	
BENZOIC ACID								(30)	
2-METHYLNAPTHALENE								2	
4-CHLORO-3-METHYLPHENOL								1.5	
HEXACHLOROCYCLOPENTADIENE								2	
2,4,6-TRICHLOROPHENOL								1.5	
2,4,5-TRICHLOROPHENOL		10	52					1.5	
2-CHLORONAPTHALENE								1.5	
ACENAPTHYLENE								1.5	
DIMETHYL PHTHALATE								1.5	
2,6-DINITROTOLUENE								1	
ACENAPHTHENE								1.5	
3-NITROANILINE								2.5	
DIBENZOFURAN								1	
2,4-DINITROPHENOL								(15)	
2,4-DINITROTOLUENE								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
FLUORENE								1	
4-NITROPHENOL								1.5	
4-CHLOROPHENYL PHENYL ETHER								1	
DIETHYL PHTHALATE								1	
4,6-DINITRO-2-METHYLPHENOL								(15)	
1,2-DIPHENYLHYDRAZINE								1	
N-NITROSODIPHENYLAMINE DIPHENYLAMINE								1.5	
4-NITROANILINE								3	
4-BROMOPHENYL PHENYL ETHER								1.5	
HEXACHLOROBENZENE			NR					1.5	
PENTACHLOROPHENOL			220					2	
PHENANTHRENE								1	
ANTHRACENE								2.5	
DI-n-BUTYL PHTHALATE								2	
FLUORANTHENE								1.5	
PYRENE								1.5	
BUTYL BENZYL PHTHALATE								3.5	
CHRYSENE									
BENZO(a)ANTHRACENE								1.5	
BIS(2-ETHYLHEXYL) PHTHALATE	8B					8B			
DI-n-OCTYL PHTHALATE								1	
BENZO(b)FLUORANTHENE								1.5	
BENZO(k)FLUORANTHENE								1.5	
BENZO(a)PYRENE								2	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SEMI-VOLATILE ORGANIC COMPOUNDS									
INDENO(1,2,3-cd)PYRENE								3.5	
DIBENZO(a,h)ANTHRACENE								2.5	
BENZO(g,h,i)PERYLENE								4	
2-NITROANILINE								1	
PESTICIDES AND PCBS									
ALDRIN								0.005	
alpha BHC								(0.010)	
beta BHC								(0.005)	
delta BHC								(0.005)	
gama BHC(LINDANE)		4	2					0.005	
CHLORDANE			NR					(0.020)	
4,4'-DDD								(0.020)	
4,4'-DDE								(0.005)	
4,4'-DDT								0.020	
DIELDRIN								0.010	
ENDOSULFAN I								0.010	
ENDOSULFAN II								0.010	
ENDOSULFAN SULFATE								(0.10)	
ENDRIN		0.2	0.32					0.010	
ENDRIN ALDEHYDE								(0.030)	
ENDRIN KETONE								(0.030)	
HEPTACHLOR			NR					0.030	
HEPTACHLOR EPOXIDE			NR					0.005	
4,4'-METHOXYCHLOR		5	340					0.020	
TOXAPHENE		100	NA					(0.25)	
PCB-1242			NA					(0.10)	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
PESTICIDES AND PCBS									
PCB-1248			NA					(0.10)	
PCB-1254			NA					(0.10)	
PCB-1260			NA					(0.10)	
INORGANIC ANALYTES									
ALUMINUM								80	
ANTIMONY								2	
ARSENIC		50	50R					2	
BARIUM		1000	1500					6	
BERYLLIUM								1	
BORON								80	
CADMIUM	0.52	10	5					10	
CADMIUM		10	5					0.2	
CALCIUM								0.5	
CHROMIUM		50	120					8	
COBALT								6	
COPPER	101	1000				26.7PNA		6	
IRON	2.42							80	
LEAD		50						2	
LEAD		50						70	
LITHIUM								10	
MAGNESIUM								0.1	
MANGANESE								5	
MERCURY		2	11					0.1	
MOLYBDENUM								15	
NICKEL			150					15	
POTASSIUM								2	

Table 1 (cont.)

CONTAMINANT INORGANIC ANALYTES	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SELENIUM		10						2	
SILVER	5.6	50						6	
SODIUM				20,000				1	
STRONTIUM								10	
SULFIDE								1	
SULFATE		250,000						0.05	
THALLIUM								2	
TITANIUM								25	
TIN								40	
VANADIUM								5	
YTTRIUM								5	
ZINC								40	
CYANIDE			154					8	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWIN TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectrosc
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chlori acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
s	s	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

D. Analytical Method Qualifiers for Inorganic

"P" for ICP

"A" for Flame AA

"F" for Furnance AA

"CV" for Manual Cold Vapor AA

"AV" for Automated Cold Vapor AA

"AS" for Semi-automated Spectrophotometric

"C" for Manual Spectrophotometric

"T" for Titrimetric

"NR" if the analyte is not required to be analyzed.

RIN NO. Town & Country Parts

POSITIVE
DETERMINATION

FREEDOM OF INFORMATION ACT RESPONSES

F O I A

EMERGENCY & REMEDIAL RESPONSE BRANCH ROUTING SLIP

TO:	INITIALS	DATE
1. SPIU Staff		
2. Chief, State Programs and Information Unit		
3. Staff, Pre-Remedial Unit	NM	8/9/88
4. Chief, Pre-Remedial Unit	[illegible]	8-11-88
5. Jeanne Griffin, PRU (HRS Release Only)		
6. Chief, Program Support Section		

(____ This is an interim response only.)

*NOTE: PLEASE HAND CARRY TO TOM GEISHECKER, CHIEF - PROGRAM SUPPORT SECTION

11th FLOOR - S.W. CORNER

5HR-12

Winton Norman
ARC Auto Parts
6950 River Road
New Baltimore, OH 45030

Re: Drinking Water Sample Results

Dear Mr. Norman,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

Enclosed for your information is a summary table of results. The summary table presents the concentration of organic compounds, metals and cyanide detected in your sample, a blank sample and a duplicate sample (if applicable). Additionally, drinking water standards for several substances are presented on the summary table. Should you be interested in securing a second opinion of our results, the quality assurance data, which describe the testing procedures can be obtained from this office at your request.

The data were reviewed to compare the levels found with proposed standards in the Safe Drinking Water Act with Health Advisory Levels (HAL) that are issued periodically from U.S. EPA's Office of Drinking Water in Washington, D.C. The standards in the Safe Drinking Water Act set Maximum Contaminant Levels (MCL) for nine synthetic organic chemicals. The MCL's are intended to reduce the risk of adverse health effects from consuming these chemicals over a lifetime. The HAL's on the other hand, are intended to reduce the risk of adverse health effects from consuming certain chemicals for even a short period of time.

The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

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6950 River Road
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5WR-12

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ARC Auto Parts
6950 River Road
New Baltimore, OH 48030

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5HR-12

Winton Norman
ARC Auto Parts
5550 River Road
New Baltimore, OH 45030

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The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

SWB-12

Winton Norman
ARC Auto Parts
6550 River Road
New Baltimore, OH 46039

Re: Drinking Water Sample Results

Dear Mr. Norman,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

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The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

SHO-12

Winton Harman
ABC Auto Parts
5550 River Road
New Baltimore, OH 48030

Re: Drinking Water Sample Results

Dear Mr. Harman,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

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The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

There are other contaminants with MCLs established that are not usually associated with the type of sites that we are looking at and thus we did not analyze for. These include nitrates, radionuclides, coliform bacteria, total trihalomethanes, turbidity and fluoride. You may wish to contact your state agency that addresses private well water usage regarding testing for these other possible contaminants.

If you have any questions about your well samples, please contact me at (312) 353-1057.

Sincerely yours,

William D. Messenger, Chief
Pre-Remedial Unit

Enclosures

cc: Plumbing Division
Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

WD 6-11-86

NM 8/25/86

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If you have any questions about your well samples, please contact me at (312) 353-1067.

Sincerely yours,

William D. Messenger, Chief
Pre-Remedial Unit

Enclosures

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Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
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Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

MEMORANDUM

DATE: 2-19-88

TO: William Messenger, U.S. EPA

FROM: Cathy Schlesinger

SUBJECT: Drinking Water Sample Results

Sample RW 1

Site Name Town & Country Auto Parts

PAN # F0H0523SA

TDD # F05-8703-347

EPA ID # OHD103536876

Please find attached the data summary sheets, a copy of the original data, and laboratory blank/quality control information for the drinking water sample collected from:

Name Winton Norman / ARC Auto Parts

Address 6950 River Rd.

City New Baltimore (Harrison)

State OHIO

Zip Code 45030

Phone Number 513/741-4611 HOME: 738-2173

0099:3

No Contamination _X_
No hits above any health-related standards.

C.
6-9-88

RESIDENTIAL

WELL WATER

SAMPLE DATA

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 1 / CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM								1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE								1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE								75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE								15	
4-METHYL-2-PENTANONE								(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL) ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			820					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
ISOPHORONE								2.5	
2-NITROPHENOL								2	
2,4-DIMETHYLPHENOL								2	
BIS(2-CHLOROETHOXY) METHANE								2.5	
2,4-DICHLOROPHENOL								2	
1,2,4-TRICHLOROBENZENE								2	
NAPHTHALENE								2	
4-CHLOROANILINE								2	
HEXACHLOROBUTADIENE								2.5	
BENZOIC ACID								(30)	
2-METHYLNAPTHALENE								2	
4-CHLORO-3-METHYLPHENOL								1.5	
HEXACHLOROCYCLOPENTADIENE								2	
2,4,6-TRICHLOROPHENOL								1.5	
2,4,5-TRICHLOROPHENOL		10	52					1.5	
2-CHLORONAPTHALENE								1.5	
ACENAPTHYLENE								1.5	
DIMETHYL PHTHALATE								1.5	
2,6-DINITROTOLUENE								1	
ACENAPHTHENE								1.5	
3-NITROANILINE								2.5	
DIBENZOFURAN								1	
2,4-DINITROPHENOL								(15)	
2,4-DINITROTOLUENE								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
FLUORENE								1	
4-NITROPHENOL								1.5	
4-CHLOROPHENYL PHENYL ETHER								1	
DIETHYL PHTHALATE								1	
4,6-DINITRO-2-METHYLPHENOL								(15)	
1,2-DIPHENYLHYDRAZINE								1	
N-NITROSODIPHENYLAMINE									
DIPHENYLAMINE								1.5	
4-NITROANILINE								3	
4-BROMOPHENYL PHENYL ETHER								1.5	
HEXACHLOROBENZENE			NR					1.5	
PENTACHLOROPHENOL			220					2	
PHENANTHRENE								1	
ANTHRACENE								2.5	
DI-n-BUTYL PHTHALATE								2	
FLUORANTHENE								1.5	
PYRENE								1.5	
BUTYL BENZYL PHTHALATE								3.5	
CHRYSENE									
BENZO(a)ANTHRACENE								1.5	
BIS(2-ETHYLHEXYL) PHTHALATE	24B					9B			
DI-n-OCTYL PHTHALATE								1	
BENZO(b)FLUORANTHENE								1.5	
BENZO(k)FLUORANTHENE									
BENZO(a)PYRENE								1.5 2	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SEMI-VOLATILE ORGANIC COMPOUNDS									
INDENO(1,2,3-cd)PYRENE								3.5	
DIBENZO(a,h)ANTHRACENE								2.5	
BENZO(g,h,i)PERYLENE								4	
2-NITROANILINE								1	
PESTICIDES AND PCBS									
ALDRIN								0.005	
alpha BHC								(0.010)	
beta BHC								(0.005)	
delta BHC								(0.005)	
gama BHC(LINDANE)		4	2					0.005	
CHLORDANE			NR					(0.020)	
4,4'-DDD								(0.020)	
4,4'-DDE								(0.005)	
4,4'-DDT								0.020	
DIELDRIN								0.010	
ENDOSULFAN I								0.010	
ENDOSULFAN II								0.010	
ENDOSULFAN SULFATE								(0.10)	
ENDRIN		0.2	0.32					0.010	
ENDRIN ALDEHYDE								(0.030)	
ENDRIN KETONE								(0.030)	
HEPTACHLOR			NR					0.030	
HEPTACHLOR EPOXIDE			NR					0.005	
4,4'-METHOXYCHLOR		5	340					0.020	
TOXAPHENE		100	NA					(0.25)	
PCB-1242			NA					(0.10)	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
PESTICIDES AND PCBS									
PCB-1248			NA					(0.10)	
PCB-1254			NA					(0.10)	
PCB-1260			NA					(0.10)	
INORGANIC ANALYTES									
ALUMINUM								80	
ANTIMONY								2	
ARSENIC		50	50R					2	
BARIUM	[1.11]P	1000	1500					6	
BERYLLIUM								1	
BORON								80	
CADMIUM	0.55	10	5					10	
CADMIUM		10	5					0.2	
CALCIUM								0.5	
CHROMIUM		50	120					8	
COBALT								6	
COPPER	121	1000				26.7PNR		6	
IRON								80	
LEAD		50						2	
LEAD		50						70	
LITHIUM								10	
MAGNESIUM								0.1	
MANGANESE								5	
MERCURY		2	11					0.1	
MOLYBDENUM								15	
NICKEL			150					15	
POTASSIUM								2	

Table 1 (cont.)

CONTAMINANT INORGANIC ANALYTES	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SELENIUM	3.13	10						2	
SILVER		50						6	
SODIUM				20,000				1	
STRONTIUM								10	
SULFIDE								1	
SULFATE		250,000						0.05	
THALLIUM								2	
TITANIUM								25	
TIN								40	
VANADIUM								5	
YTTRIUM								5	
ZINC								40	
CYANIDE			154					8	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWIN TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectrosco
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative i it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chloride acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE OLD	FOOTNOTE NEW	DEFINITION	INTERPRETATION
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
S	S	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

D. Analytical Method Qualifiers for Inorganic

"P" for ICP

"A" for Flame AA

"F" for Furnance AA

"CV" for Manual Cold Vapor AA

"AV" for Automated Cold Vapor AA

"AS" for Semi-automated Spectrophotometric

"C" for Manual Spectrophotometric

"T" for Titrimetric

"NR" if the analyte is not required to be analyzed.

M E M O R A N D U M

DATE: 2-19-88

TO: William Messenger, U.S. EPA

FROM: Cathy Schlesinger

SUBJECT: Drinking Water Sample Results

Sample RW 3

Site Name Town & Country Auto Parts

PAN # FOH0523SA

TDD # F05-8703-347

EPA ID # OHD103536876

Please find attached the data summary sheets, a copy of the original data, and laboratory blank/quality control information for the drinking water sample collected from:

Name Vicky & Ron Ritz

Address 10250 Tule Lane

City New Baltimore (Harrison)

State OHIO

Zip Code 45030

Phone Number 513/741-4072

0099:3

6-9-88

RESIDENTIAL

WELL WATER

SAMPLE DATA

Table 1

DATA OF RESIDENTIAL WELL SAMPLE ANALYSIS
AND APPLICABLE FEDERAL DRINKING WATER STANDARDS
AND HEALTH ADVISORIES

SAMPLE: RW 3						LABORATORY QUALITY CONTROL DATA (ppb)			
CONTAMINANT / VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	COMMENTS
BENZENE		5	NR					1.5	
BROMODICHLOROMETHANE								1.5	
BROMOFORM								1.5	
BROMOMETHANE								10	
CARBON TETRACHLORIDE		5	NR					1.5	
CHLOROBENZENE			300					1.5	
CHLOROETHANE								1.5	
2-CHLOROETHYL VINYL ETHER								1.5	
CHLOROFORM								1.5	
CHLOROMETHANE								10	
DIBROMOCHLOROMETHANE								1.5	
1,1-DICHLOROETHANE								1.5	
1,2-DICHLOROETHANE		5	NR					1.5	
1,1-DICHLOROETHENE		7	7					1.5	
trans-1,2-DICHLOROETHENE			70					1.5	
1,2-DICHLOROPROPANE			NA					1.5	
cis-1,3-DICHLOPROPROPENE								2	
trans-1,3-DICHLOROPROPENE								1	
ETHYL BENZENE			680					1.5	
METHYLENE CHLORIDE			NR					1	
1,1,2,2-TETRACHLOROETHANE								1.5	
TETRACHLOROETHENE			NR					1.5	
TOLUENE			2420					1.5	
1,1,1-TRICHLOROETHANE		200	200					1.5	
1,1,2-TRICHLOROETHANE								1.5	
TRICHLOROETHENE		5	NR					1.5	
VINYL CHLORIDE		2	NR					10	

Table I (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
VOLATILE ORGANIC COMPOUNDS									
ACROLEIN								100	
ACETONE								75	
ACRYLONITRILE								50	
CARBON DISULFIDE								3	
2-BUTANONE			170					(50)	
VINYL ACETATE								15	
4-METHYL-2-PENTANONE								(3)	
2-HEXANONE								(50)	
STYRENE			140					1	
XYLENE, TOTAL			440					2	
SEMI-VOLATILE ORGANIC COMPOUNDS									
ANILINE								1.5	
BIS(2-CHLOROETHYL)ETHER								1.5	
PHENOL								2	
2-CHLOROPHENOL								2	
1,3-DICHLOROBENZENE			620					2	
1,4-DICHLOROBENZENE		75	75					2	
1,2-DICHLOROBENZENE			820					2.5	
BENZYL ALCOHOL								2	
BIS(2-CHLOROISOPROPYL) ETHER								2.5	
2-METHYLPHENOL								1	
HEXACHLOROETHANE								2	
N-NITROSODIPROPYLAMINE								1.5	
NITROBENZENE								2.5	
4-METHYLPHENOL								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
ISOPHORONE								2.5	
2-NITROPHENOL								2	
2,4-DIMETHYLPHENOL								2	
BIS(2-CHLOROETHOXY) METHANE								2.5	
2,4-DICHLOROPHENOL								2	
1,2,4-TRICHLOROBENZENE								2	
NAPHTHALENE								2	
4-CHLOROANILINE								2	
HEXACHLOROBUTADIENE								2.5	
BENZOIC ACID								(30)	
2-METHYLNAPTHALENE								2	
4-CHLORO-3-METHYLPHENOL								1.5	
HEXACHLOROCYCLOPENTADIENE								2	
2,4,6-TRICHLOROPHENOL								1.5	
2,4,5-TRICHLOROPHENOL		10	52					1.5	
2-CHLORONAPTHALENE								1.5	
ACENAPTHYLENE								1.5	
DIMETHYL PHTHALATE								1.5	
2,6-DINITROTOLUENE								1	
ACENAPHTHENE								1.5	
3-NITROANILINE								2.5	
DIBENZOFURAN								1	
2,4-DINITROPHENOL								(15)	
2,4-DINITROTOLUENE								1	

Table 1 (cont.)

CONTAMINANT SEMI-VOLATILE ORGANIC COMPOUNDS	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
FLUORENE								1	
4-NITROPHENOL								1.5	
4-CHLOROPHENYL PHENYL ETHER								1	
DIETHYL PHTHALATE								1	
4,6-DINITRO-2-METHYLPHENOL								(15)	
1,2-DIPHENYLHYDRAZINE								1	
N-NITROSODIPHENYLAMINE									
DIPHENYLAMINE								1.5	
4-NITROANILINE								3	
4-BROMOPHENYL PHENYL ETHER								1.5	
HEXACHLOROBENZENE			NR					1.5	
PENTACHLOROPHENOL			220					2	
PHENANTHRENE								1	
ANTHRACENE								2.5	
DI-n-BUTYL PHTHALATE								2	
FLUORANTHENE								1.5	
PYRENE								1.5	
BUTYL BENZYL PHTHALATE								3.5	
CHRYSENE									
BENZO(a)ANTHRACENE								1.5	
BIS(2-ETHYLHEXYL) PHTHALATE	68					8B			
DI-n-OCTYL PHTHALATE								1	
BENZO(b)FLUORANTHENE								1.5	
BENZO(k)FLUORANTHENE									
BENZO(a)PYRENE								1.5	
								2	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SEMI-VOLATILE ORGANIC COMPOUNDS									
INDENO(1,2,3-cd)PYRENE								3.5	
DIBENZO(a,h)ANTHRACENE								2.5	
BENZO(g,h,i)PERYLENE								4	
2-NITROANILINE								1	
PESTICIDES AND PCBS									
ALDRIN								0.005	
alpha BHC								(0.010)	
beta BHC								(0.005)	
delta BHC								(0.005)	
gama BHC(LINDANE)		4	2					0.005	
CHLORDANE			NR					(0.020)	
4,4'-DDD								(0.020)	
4,4'-DDE								(0.005)	
4,4'-DDT								0.020	
DIELDRIN								0.010	
ENDOSULFAN I								0.010	
ENDOSULFAN II								0.010	
ENDOSULFAN SULFATE								(0.10)	
ENDRIN		0.2	0.32					0.010	
ENDRIN ALDEHYDE								(0.030)	
ENDRIN KETONE								(0.030)	
HEPTACHLOR			NR					0.030	
HEPTACHLOR EPOXIDE			NR					0.005	
4,4'-METHOXYCHLOR		5	340					0.020	
TOXAPHENE		100	NA					(0.25)	
PCB-1242			NA					(0.10)	

Table 1 (cont.)

CONTAMINANT	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
PESTICIDES AND PCBS									
PCB-1248			NA					(0.10)	
PCB-1254			NA					(0.10)	
PCB-1260			NA					(0.10)	
INORGANIC ANALYTES									
ALUMINUM								80	
ANTIMONY								2	
ARSENIC		50	50R					2	
BARIUM		1000	1500					6	
BERYLLIUM								1	
BORON								80	
CADMIUM	0.66	10	5					10	
CADMIUM		10	5					0.2	
CALCIUM								0.5	
CHROMIUM		50	120					8	
COBALT								6	
COPPER	115	1000				26.7 PNR		6	
IRON	2.15							80	
LEAD		50						2	
LEAD		50						70	
LITHIUM								10	
MAGNESIUM								0.1	
MANGANESE								5	
MERCURY		2	1 1					0.1	
MOLYBDENUM								15	
NICKEL			150					15	
POTASSIUM								2	

Table 1 (cont.)

CONTAMINANT INORGANIC ANALYTES	CONCENTRATION OF DETECTED CONTAMINANT (ppb)	MAXIMUM CONTAMINANT LEVEL (ppb)	HEALTH ADVISORY LEVEL (ppb)	OTHER HEALTH-RELATED GUIDANCE VALUE	RANGE	LABORATORY QUALITY CONTROL DATA (ppb)			COMMENTS
						LAB BLANK	SAMPLE DUPLICATE	DETECTION LIMIT	
SELENIUM		10						2	
SILVER		50						6	
SODIUM				20,000				1	
STRONTIUM								10	
SULFIDE								1	
SULFATE		250,000						0.05	
THALLIUM								2	
TITANIUM								25	
TIN								40	
VANADIUM								5	
YTTRIUM								5	
ZINC								40	
CYANIDE			154					8	

A SURVEY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED. HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC IS PROVIDED IN THE ATTACHED DATA SHEETS.

I. REPORTING UNITS

A. Organics

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - ug/kg or ppb (parts per billion)

B. Metals

1. Water Samples - ug/L or ppb (parts per billion)
2. Soils or Sediments - mg/kg or ppm (parts per million)

II. DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A. Organics

FOOTNOTE	DEFINITION	INTERPRETATION
U	Indicates compound was analyzed for but not detected.	Compound was not detected.
J	Indicates an estimated value.	Compound value may be semi-quantitative.
UJ	Quantitation limit is estimated due to a Quality Control (QC) protocol.	Compound was not detected.
C	This flag applies to pesticide results where the identification has been confirmed by GC/MS. Single component pesticides >10 ng/ul in the final extract shall be confirmed by GC/MS.	Compound was confirmed by mass spectrosco
B	This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.	Compound value may be semi-quantitative i it is <5x the blank concentration (<10x the blank concentrations for common lab artifacts: phthalates, methylene chlorid acetone, toluene, 2-butanone).
E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods.	Compound value may be semi-quantitative.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.	Alerts data user to a possible change in the CRQL.
A	This flag indicates that a TIC is a suspected aldol-condensation product.	Alerts data user of a lab artifact.
R	Results are unusable due to a major violation of QC protocol.	Compound value is not usable.

B. Inorganics

FOOTNOTE		DEFINITION	INTERPRETATION
OLD	NEW		
E	E	Estimated or not reported due to inteference. See laboratory narrative.	Compound or element was not detected or value may be semi-quantitative.
s	s	Analysis by Method of Standard Additions.	Value may be quantitative.
R	N	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semi-quantitative.
*	*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be semi-quantitative.
+	+	Correlation coefficient for standard additions in less than 0.995. See review and laboratory narrative.	Data value may be biased.
[ ]	B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
UJ		DL is estimated because of a QC protocol. DL is possibly above or below CRDL.	Compound or element was not detected.
J		Value is above CRDL and is an estimated value because of a QC Protocol.	Value may be semi-quantitative.
U	U	Compound was analyzed for but not detected.	Compound was not detected.
	M	Duplicate injection precision not met.	Value may be semi-quantitative.
	W	Post digestion spike for furnance AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semi-quantitative.

C. Other Symbols Used

NA Value not available due to insufficient data.
NR Value not recommended to be calculated, since chemical has proven to be a human carcinogen.
( ) Estimated value.

D. Analytical Method Qualifiers for Inorganic

"P" for ICP

"A" for Flame AA

"F" for Furnance AA

"CV" for Manual Cold Vapor AA

"AV" for Automated Cold Vapor AA

"AS" for Semi-automated Spectrophotometric

"C" for Manual Spectrophotometric

"T" for Titrimetric

"NR" if the analyte is not required to be analyzed.

RIN NO. Town & Country Bluffs

POSITIVE
DETERMINATION

FREEDOM OF INFORMATION ACT RESPONSES

F O I A

EMERGENCY & REMEDIAL RESPONSE BRANCH ROUTING SLIP

TO:	INITIALS	DATE
1. SPIU Staff		
2. Chief, State Programs and Information Unit		
3. Staff, Pre-Remedial Unit	NLL	8/9/88
4. Chief, Pre-Remedial Unit	Leon	8-11-88
5. Jeanne Griffin, PRU (KRS Release Only)		
6. Chief, Program Support Section		

(____ This is an interim response only.)

*NOTE: PLEASE HAND CARRY TO TOM GEISHECKER, CHIEF - PROGRAM SUPPORT SECTION

11th FLOOR - S.W. CORNER

5HR-12

Richard Elsen
Town & Country Auto Parts
6800 River Road
New Baltimore, OH 45030

Re: Drinking Water Sample Results

Dear Mr. Elsen,

Several months ago, a contractor to the U.S. Environmental Protection Agency, Ecology and Environment, Inc., obtained a sample of your drinking well water. This sample was analyzed for over one hundred organic compounds, metals and cyanide at a U.S. EPA contract laboratory under stringent quality assurance and quality control (QA/QC) protocol. Thank you for your cooperation in this effort.

Enclosed for your information is a summary table of results. The summary table presents the concentration of organic compounds, metals and cyanide detected in your sample, a blank sample and a duplicate sample (if applicable). Additionally, drinking water standards for several substances are presented on the summary table. Should you be interested in securing a second opinion of our results, the quality assurance data, which describe the testing procedures can be obtained from this office at your request.

The data were reviewed to compare the levels found with proposed standards in the Safe Drinking Water Act with Health Advisory Levels (HAL) that are issued periodically from U.S. EPA's Office of Drinking Water in Washington, D.C. The standards in the Safe Drinking Water Act set Maximum Contaminant Levels (MCL) for nine synthetic organic chemicals. The MCL's are intended to reduce the risk of adverse health effects from consuming these chemicals over a lifetime. The HAL's on the other hand, are intended to reduce the risk of adverse health effects from consuming certain chemicals for even a short period of time.

The results from your well show that none of the analyzed chemicals that were tested were found to exceed a MCL or HAL. Your water is acceptable to drink regarding these tested chemicals.

5HR-12

Richard Elsen
Town & Country Auto Parts
6800 River Road
New Baltimore, OH 45030

Re: Drinking Water Sample Results

Dear Mr. Elsen,

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5HR-12

Richard Elsen
Town & Country Auto Parts
5800 River Road
New Baltimore, OH 45030

Re: Drinking Water Sample Results

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6300 River Road
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SMR-12

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Town & Country Auto Parts
6900 River Road
New Baltimore, OH 45030

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If you have any questions about your well samples, please contact me at (312) 353-1057.

Sincerely yours,

William D. Messenger, Chief
Pre-Remedial Unit

Enclosures

cc: Plumbing Division
Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

WDM
8-11-88

WDM
8-25-88

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Hamilton County Health Department
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ORGANICS ANALYSIS DATA SHEET
Page 4
TENTATIVELY IDENTIFIED COMPOUNDS

Case No. 7914/30848E

Sample No. ET131

Lab Sample No. 30 [illegible]6AB

RECEIVED OCT 16 1987

ification is Correct:
ATE

= UNKNOWN D= SOLVENT IMPURITY, see WDA

COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	Estimated CONC. J VALUE
UTENE, 2-PROPENYLIDENE-	A/BN	234	922	9.0 UG/L
ENE, (E)-	A/BN	377	657	3.8 UG/L
DIOIC ACID, MONO(2-ETHYL	A/BN	588	761	2.2 UG/L

NAME	PROBABILITY		COMMENTS
ROPENYLIDENE-	2 D	1	
	2 D	2	
MONO(2-ETHYL	2 D	3	

FORM 1, PART 3

New Baltimore Area / Dick's Auto Part
5/21/85

Sampling 15 wells -
→ Overcast
All samples iced immediately after taki
Samples - 4 glass quarts each, 1 w/C
2 40ml septum vials

Sample #1 Les Flick's ~~Homelike In~~

Well on 9:30 AM
Well off at 9:40

Les Flick

Sample #2 Ray Wuest
and Sample #6 (Duplicate)
Well on at 10:01 AM
Well off at 10:12 AM

Ray Wuest

Sampling Crew

Mark Allen OEPA
Scott R. Shaw OEPA
Mary F. Bergstrom OEPA
David Condit - pictures Taken of Many
taking Samples (2)

Thomas M. [illegible]
Dennis [illegible]

Ohio Dept.
Deborah P. St
Col. Oh (614) 4

Ohio Dept Hea
Marcie J. Mc
Col 614-466-1

~~Sample #3 Ft. Scott Camp~~ MQ
~~Summer (Newer) well~~ MQ
~~Girls lodge, Mens Rest Room~~ MQ
~~Well on 10:47 AM~~ MQ ~~MOVED SAMPLING POINT TO~~ MQ
~~Well off~~ MQ

~~Sample #4 Ft. Scott Camp~~ MQ
~~Old well; (winter well)~~ MQ
~~Well on~~ MQ
~~Well off~~ MQ

Summer (Newer) Well Sample #3
Well on at 11:03 AM, Hydrant flushing
Samples taken from drinking fountain
at Girl's Mess Hall Bridge
Well off 11:13 AM
Ed Shannon

Winter well (OLD WELL) Sample #4
Taken prior to any tanks or treatment
well on 11:42
well off 11:56
No need for ten minute flush;
Direct discharge from well discharge
pipe.
Ed Shannon

Sample #5 Richard ~~Sw~~ MQ Schwarte
~~Well on at 12:10 AM~~ MQ
Well on at 12:10 PM
Well off at 12:21 PM
Richard Schwarte

Mark Allen

Mark Allen

Sample #7 Paul + Sally Perkins
Well on 12:38 PM
Well off 12:50 PM
Paul Perkins

SRS notes

Sample #8 Michelle Hill
Well on 1:07 PM
Well off 1:20
Michele Hill

Mark Allen

Sample #9 TRIP BLANKS

Samples transported to Columbus Ohio and iced up at 8:30PM (20:30) and locked in truck inside locked garage at 2380 Zollinger Rd, Columbus Ohio 43221, residence of C.M. Allen
C. M. Allen May 21, 1985 - 8:37pm.
Samples arrive at Alert section of Wadsworth Laboratories in Canton, O. at 11:30AM, 5/22/85
5/24/85 MG
Conversation with Ronald Avel 10:40Am 5/23/85
Avel says Don Bloemker (Dick's Brother) knows all about the alleged dumping. Says Don told him that Liebowitz "left town" recently when we began to investigate the New Baltimore situation. Avel thinks they may have also dumped in Rubin Bros. Auto parts which Dick Bloemker used to own. Miami Auto Parts is owned Curently by Don Bloemker and is located

Mark Allen

at the Harrison Ave Exit off I-74.
Don Bloemker lives in a grey Module
right next to the Miami Auto Parts place.
Stop talking to Avel at 11:00AM -
Mary Bergstrom present during above
conversation with Ronald Avel -
Mary F. Bergstrom ESII
Conversation with Don Bloemker
(2:15 PM) 14:15 Tuesday 5/28/85
Dick's Auto Parts was what is now
Rubin Bros. Auto Parts. New Baltimore
Auto Parts is what I've been calling
Dick's Auto Parts.

"I have no knowledge of any industrial
dumping at New Baltimore Auto Parts
prior to December 1984. What I
know of the incident I learned
from the media since December of
1984." 5/28/85 Don Bloemker

1964-1966 Dick operated at Miami Auto
Parts, then called Miami Auto Service and
Parts Company. Left Rubin's in 1964 after
bankruptcy.

35 MG 1/85

Crosby Twp Trustees' Meeting 5/28/85
19:30 (7:30PM) - Left at 20:15 with James
Miller Sr. and went to Watson Gravel
on Kilby Rd., Whitewater Twp Harrison
plant to talk Earl Corson. Mr. Corson

operated a backhoe for Mr. Miller to install a waterline from Bloemker's well (Now Norman Winton's) to serve the trailers on long Street. In the process of digging the trench for the waterline Mr. Corson struck several barrels with the backhoe, breaking them open. Depth of line was ≈ 42 inches. 80 to 100 feet behind the metal Garage (Now part of Town + Country Auto parts) is where the ~~bar~~ drums were found. The bucket brought up a plastic drum liner. Mr. Corson had to dig between drums to put the water line in. Mr. Miller looked in ditch and saw several drums and detected a "dry cleaning fluid" smell. Mr. Corson says he can show me where the barrels are

James a Miller 6990 Rue Rd
Harrison Ohio 45030 385 8522
Carl A. Corson - 113 Joyce Ave. Harrison Ohio
513-367-9371

Above notes taken by Mark Allen and concluded at 21:25. Mark Allen
5/29/85 Sample drum exposed on Winton Norman Property - 12:00 Noon
With Mr. Norman's permission
Winton Norman Mark V. Allen

6/3/85 Resample Ray Wuestwell for split between ODH Occupational Chemistry Lab and Alert section of Wadsworth lab
Well on at 8:25, ~~Rus~~ Runs for 10 min.
Well off at 8:40 AM
Two glass quarts w/teflon caps filled and iced. Raymond Wuest
Samples arrive at Mike Allen's home, 4236 Fry Road at 5:00 PM (1700) and will remain here locked up for the night (6/3/85)
Michael C. Allen, June 3 '85, 5:00 pm

5HR-12

Vicky and Ron Ritz
10250 Tule Lane
New Baltimore, OH 45030

Re: Drinking Water Sample Results

Dear Mr. and Mrs. Ritz,

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Sincerely yours,

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Pre-Remedial Unit

Enclosures

cc: Plumbing Division
Hamilton County Health Department
Administration Building
138 E. Court Street
Cincinnati, OH 45202

Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, OH 43266-0149

WD 5-11-88

WM 5/25/88

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Hamilton County Health Department
Administration Building
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Cincinnati, OH 45202

Ohio Environmental Protection Agency
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E.P.A. Columbus Ohio — Transmittal Sheet

To: Mark Allen

Date: 6/24/85

Region/Co./District 5WD.

Fax number: (513) 449-6357

Subj: New Baltimore

From: Chris Snider

Phone: (614) 466-8508

Date: 6/24/85

Pages to Follow: 1

If you have any questions Call (614) 466-7715
Ask for Harold Fenner [redacted] for verification
Over Fax Machine is a 3M 9165 — 614-466-4281

Approved By: Steve Grossman / ch
Steve Grossman

Additional Note:

OhioEPA

NEWS RELEASE

CONTACT: Christine Snider
(614) 466-8508

For Release: Immediately

Water sample analyses from wells in New Baltimore show no formaldehyde, however there may be contamination from area septic tanks, the Ohio Environmental Protection Agency (Ohio EPA) said today.

"A private lab in Wadsworth tested the water for 86 different chemicals commonly associated with water contaminated by hazardous or industrial waste sites, and none of them were present at detectable levels," said Ohio EPA Acting Deputy Director Paul Flanigan. "However, it appears that the presence of nitrates--most likely from septic tank contamination--interfered with the sampling in many cases. Nevertheless, it's our best judgement that the water is free of these industrial contaminants."

Flanigan explained that since individual home septic systems fail under local jurisdiction, Ohio EPA has asked the Hamilton County Health Department to look into the nitrate problem.

Of six samples analyzed last February by the Ohio Department of Health, formaldehyde was found in two samples. Results could not be determined for the remaining four due to interference in the samples. Ohio EPA then contracted with the Wadsworth lab to do the second series of tests.

Residents whose wells are affected by the nitrate problem have been notified by Ohio EPA. Those who couldn't be reached by phone will receive letters explaining the results of the tests.

-30-

June 24, 1985

Inter-Office Communication

OhioEPA

John J. Gilligan
Governor
Dr. Ira L. Whitman
Director

to Jeff Hosler, Geologist, SWDO

from Russ Stein, Chief, Ground Water Section, CO

RS

date November 12, 1974

subject:

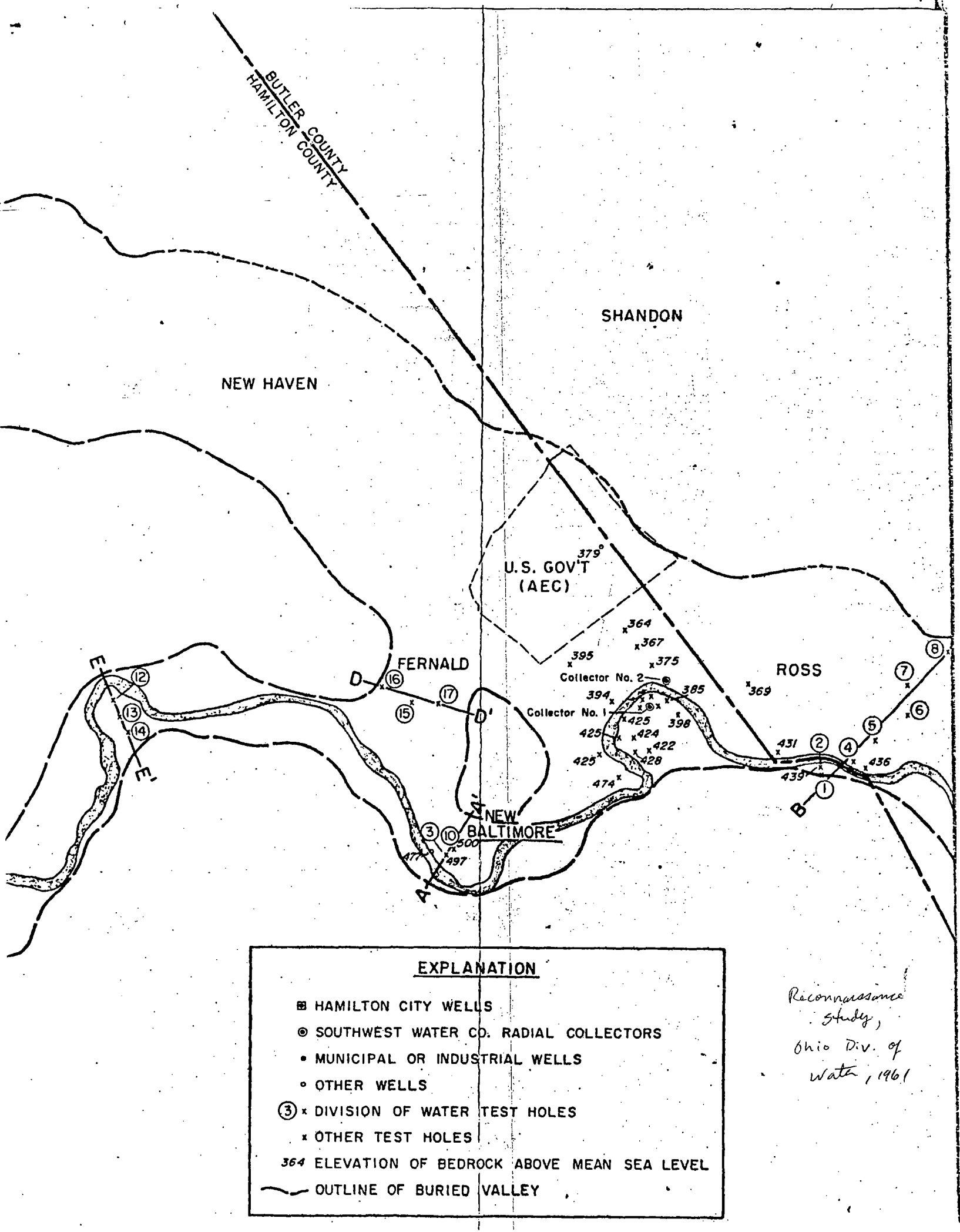
Enclosed are logs of wells and test borings in the New Baltimore area. The cross-section map and boring logs are from a reconnaissance study conducted by the Ohio Division of Water in 1961.

RBS/bjk

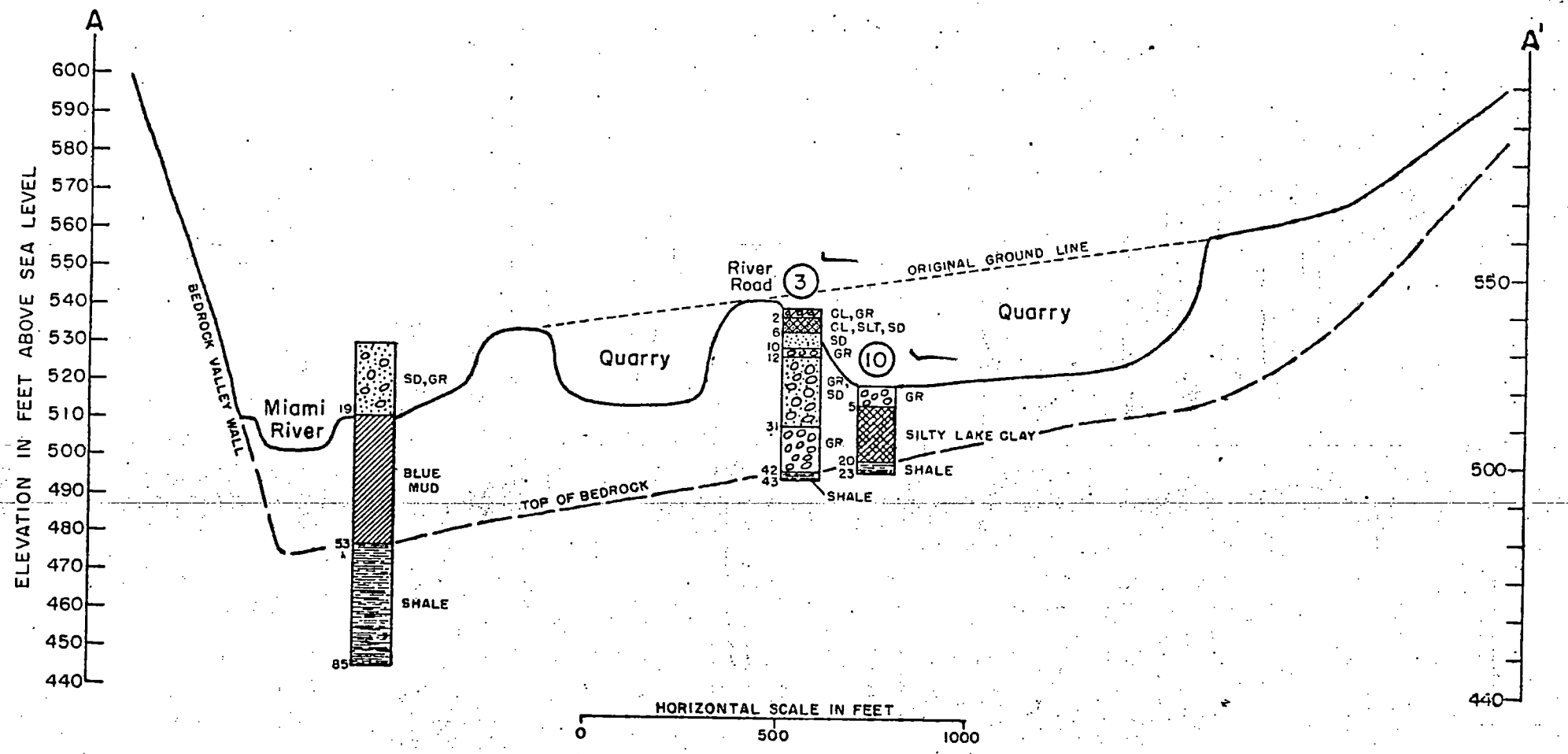
Enclosure

RECEIVED
NOV 14 1974
Ohio Environmental Protection Agency
SOUTHWEST DISTRICT

100% Recycled Paper



Reconnaissance Study, Ohio Div. of Water, 1961



CROSS-SECTION A-A', NEAR NEW BALTIMORE
(See plate 2. for location)

CINCINNATI #3 ✓

New Baltimore Gravel Pit Area, North Side River Road
Section 16, Crosby Township, Hamilton County

Depth	Material	Color	Description
0.0 - 2.0	Clay & Gravel	Red-Brown	Soft to firm; Probably road fill.
2.0 - 6.0±	Clay, Silt, Sand	Brown	Soft; Most clay; Sand-fine to coarse; Damp; Non-calcareous; Alluvium.
6.0± - 9.9	Sand	Brown	Soft; Little clay; Trace silt; Moist; Non-calcareous; Alluvium.
9.9 - 12.3	Gravel	Brown	Dense; Gravel-fine to medium, trace coarse; Sand-fine to coarse; Moist; Calcareous.
12.3 - 30.8	Gravel & Sand	Brown	Dense; Gravel-fine to medium, trace coarse; Sand-fine to coarse; Moist; Calcareous.
30.8 - 33.0	Gravel	Brown	Dense; Coarse, little fine & medium; Moist; Calcareous.
33.0 - 42.3	Gravel	Brown	Dense; Most fine to medium, some coarse; Wet; Calcareous.
42.3 - 43.0	Shale	Blue-Gray	NO SAMPLE: Lost bottom two sections of drill string. Brought up what looked like weathered blue-gray clay shale on fishing tool.

CINCINNATI #10

New Baltimore Quarry Area, 400± ' NNE or #3 Test Hole & River Road
Section 16, Crosby Township, Hamilton County

Depth	Material	Color	Description
0.0 - 5.0±	Gravel	Brown	Loose to medium-dense; Fine to coarse; Little coarse sand; Damp to 2', then moist; Calcareous.
5.0± - 5.5±	Clay	Brown	Stiff; With pebbles in it; Some rust-stained; Damp; Non-calcareous; Varved & contorted; Composition like glacial till.
5.5±-20.0	Clay	Blue-Gray	Soft to firm; Silty; Some fine sand; Damp; Slightly calcareous; Lake Deposit.
20.0 - 23.0	Shale	Dark Green	Very stiff at 20.0' to hard at 21.0'; Dry; Non-calcareous; Bedrock.

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

№ 279281

County Hamilton Township Crosby Section of Township

Owner Fort Scott Camps Address

Location of property New Baltimore, Ohio

CONSTRUCTION DETAILS

Casing diameter 12" Length of casing 30'

Type of screen Cook Everdur Length of screen

Type of pump Sumo Submersible 5E91

Capacity of pump 200 GPM

Depth of pump setting 25'

Date of completion 6-12-64

BAILING OR PUMPING TEST

Pumping Rate 200 G.P.M. Duration of test hrs.

Drawdown 0 ft. Date

Static level-depth to water ft.

Quality (clear, cloudy, taste, odor)

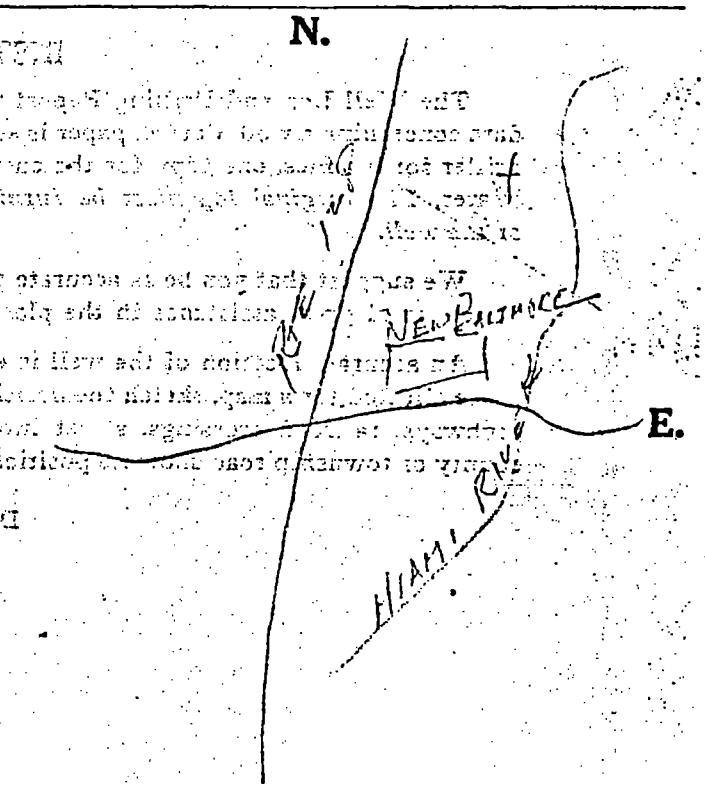
Pump installed by Diehl Pump & Supply Co.

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
Loam	0 Feet	3 Ft.
Sand & gravel	3'	28'

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Diehl Pump & Supply Co. Date November 2, 1964

Address 3985 Race Road Signed Edw. Smith

Cincinnati 11, Ohio

WELL LOG AND DRILLING REPORT

ORIGINAL

NO CARBON PAPER NECESSARY— SELF-TRANSCRIBING

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
65 S. Front St., Rm. 815 Phone (614) 469-2646
Columbus, Ohio 43215

435586

County Hamilton Township Crosby Section of Township 17

Owner Bradford Estes Address 698 River Rd

Location of property Symmes (New Baltimore) Harrison Ohio 45030

CONSTRUCTION DETAILS

Casing diameter 4 Length of casing 150

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST
(Specify one by circling)

Test Rate 20 G.P.M. Duration of test hrs

Drawdown ft. Date

Static level-depth to water ft.

Quality (clear, cloudy, taste, odor)

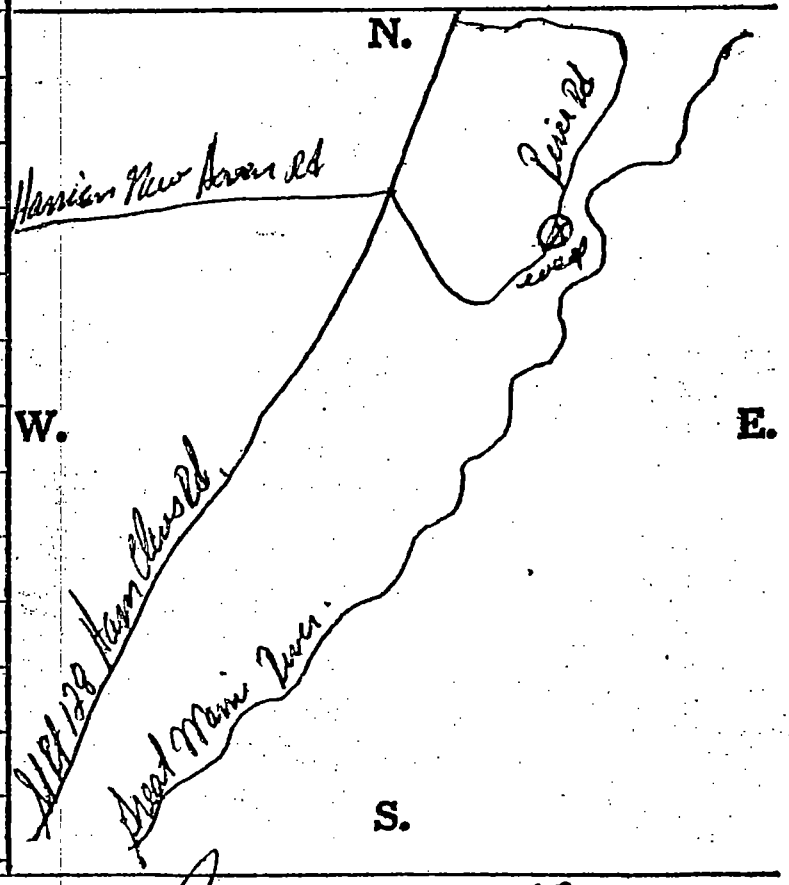
Pump installed by

WELL LOG*

Formations Sandstone, shale, limestone, gravel and clay	From	To
Top-Soil	0 Feet	1 Ft.
Sub-Soil	1	2
Clay Gravel	2	8
Gravel	8	30
Blue Clay	30	50
WATER @ 30'		

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Drilling Firm HOOVER WELL DRIL

Address 4253 SCIPIO RD HAM-OHIO

Date June 28-1972

Signed [illegible]

*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus 12, Ohio

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

№ 291473

County Hamilton Township Crosby Section of Township 16

Owner Matilda Kelsch Address 2122 Kemper Ln. Cincinnati 6, O

Location of property New Baltimore, O.

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 28

Type of screen Length of screen

Type of pump

Capacity of pump

Depth of pump setting

Date of completion

BAILING OR PUMPING TEST

Pumping Rate G.P.M. Duration of test hrs.

Drawdown ft. Date 10/2/63

Static level-depth to water 24' ft.

Quality (clear, cloudy, taste, odor) OK

3gpm bailer test

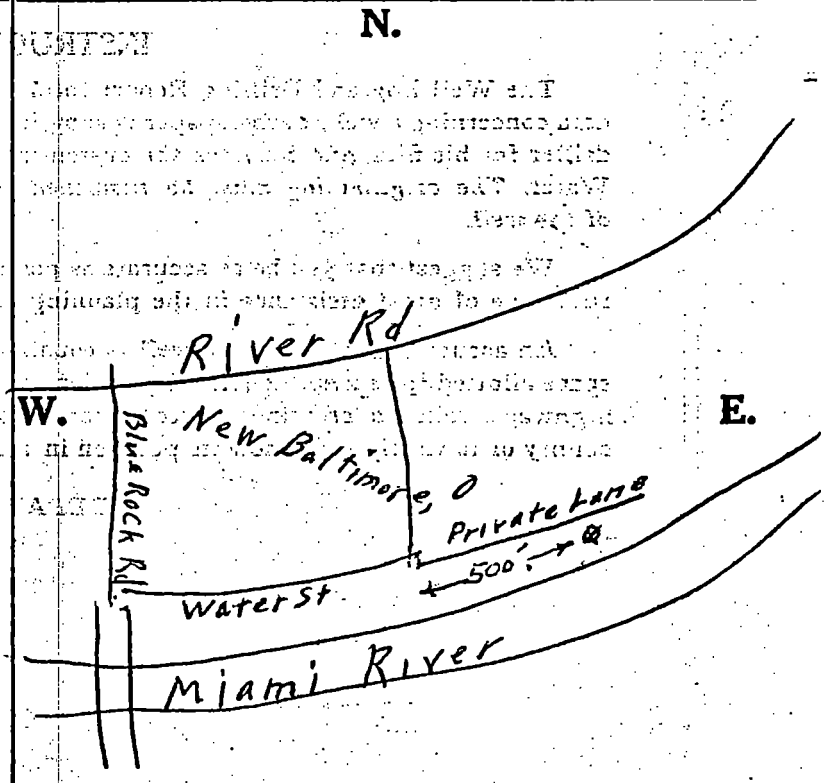
Pump installed by

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From 0 Feet	To Ft.
Top soil	0	1
Coarse gravel	1	16
Blue clay	16	26
Shale	26	50
Water at 30'	44'	

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



See reverse side for instructions

Drilling Firm Wm Crane Date 10/2/63

Address Shandon, O Signed Wm Crane

SAMPLE PROPOSAL
FIT REGION V

1. Date Form Completed 7/15/87

2. Account # F0H0523SI TDD # F05-8703-347

EPA I.D. # OHD103536876

3. Site Name, City, State Town & Country Auto Parts
New Baltimore, Ohio (Hamilton Co.)

4. Team Leader Don Clark Sampler ~~TBD~~ Ron Short

5. Number and Type of Samples:

Soil/Sediment 4-5 Surface Water _____ Ground Water _____

Residential/Municipal Wells 4 Other _____

Number of Blanks 1 Number of Duplicates 1

6. RAS Parameters Requested:

A/B/N ✓ Pest/PCB ✓ Volatiles ✓ Metals ✓ Cyanide ✓

SAS Parameters Requested: None

7. Expected Sampling Date(s): Week of August ~~16-22~~ 18, 19

Expected Shipping Date(s): same day (s)

8. Lab Used For Analysis: Organic Soils Hazlet Res CAL

Inorganic Soils RMAL Res Chemtech

SAS _____

9. Case Number 7914 SAS Number 3048E

10. Airbill Numbers: 8/18

Organic Lab Hazlet 4228773920 # Coolers 1 # Samples 4 soils

Inorganic Lab RMAL 4228773931 # Coolers 1 # Samples 4 soils

CRL/SAS Lab _____ # Coolers _____ # Samples _____

8/19

CAL 4228773916 3 6 res

Chem 4228773942 1 6 res

ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment

OK

M E M O R A N D U M

DATE: September 1, 1987

TO: File

FROM: Ronald Short

SUBJECT: Corrections in Sampling Paperwork/Town and Country Auto Parts Case #7914/3048E

On the sampling paperwork for Town and Country Auto Parts these mistakes and omissions were noted.

On organic traffic report ET121 the increased volume for the MSD was not indicated. The number of containers for extractables should have been six with a total volume of six liters. The number of containers for VOAs should have been four with a total volume of 160 mls.

On Chain-of-Custody form #09112, "metals not filtered" was omitted.

18P:2T

recycled paper

SAMPLE DESCRIPTION

OH

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION S1 background

SAMPLING DATE 8/18/87 SAMPLING TIME 1730

ORGANIC TRAFFIC NUMBER ET 126

INORGANIC TRAFFIC NUMBER MEU 746

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 oz	Metals/Cyanide	5-152505	F7206112
8 oz	Organics	5-152506	F7206112
120 ml.	VOA	5-152507	45288032
120 ml.	VOA	5-152508	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Light brown sandy Loam.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH N/A

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION 52

SAMPLING DATE 8/18/87 SAMPLING TIME 1135

ORGANIC TRAFFIC NUMBER ET 127

INORGANIC TRAFFIC NUMBER MEU 747

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 oz	Metals/Cyanide	5-152509	F7206112
8 oz	Organics	5-152510	F7206112
120 ml.	VOA	5-152511	45288032
120 ml.	VOA	5-152512	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Moist brown sand and gravel

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH N/A

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION 53

SAMPLING DATE 8/18/87 SAMPLING TIME 1210

ORGANIC TRAFFIC NUMBER ET 128

INORGANIC TRAFFIC NUMBER MEU 748

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8oz	Metals /cyanide	5-152513	F7206112
8oz	Organics	5-152514	F7206112
120ml.	VOA	5-152515	45288032
120ml.	VOA	5-152516	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Moist Dark Brown Sand and Gravel.

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH N/A

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914

SAMPLE #/STATION LOCATION S 4

SAMPLING DATE 8/18/87 SAMPLING TIME 1705

ORGANIC TRAFFIC NUMBER ET 129

INORGANIC TRAFFIC NUMBER MEU 749

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
8 oz	Metals / Cyanide	5-152517	F 7206112
8 oz	Organics	5-152518	F 7206112
120 ml.	VOA	5-152519	45288032
120 ml.	VOA	5-152520	45288032

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: Dry dark brown sandy Loam

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: None

INSTRUMENT READINGS

pH

CONDUCTIVITY

TEMPERATURE

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347
CASE NUMBER 7914 / 3048E

SAMPLE #/STATION LOCATION RW1 - MSD

SAMPLING DATE 8/19/87 SAMPLING TIME 9:15

ORGANIC TRAFFIC NUMBER ET 121
INORGANIC TRAFFIC NUMBER MEU 751

BOTTLE	ANALYSIS	TAG NUMBERS MSD	LOT NUMBER MSD
1 liter amber	organics	5-152553, 5-152558	H7134142, H7133302
1 liter amber	organics	5-152554, 5-152559	H7134142, H7133302
1 liter amber	organics	5-152555, 5-152560	H7134142, H7133302
1 liter plastic	Metals	5-152551	C7173112
1 liter plastic	Cyanide	5-152552	C7173112
40ml. VOA	VOA	5-152556, 5-152561	B7132131
40ml. VOA	VOA	5-152557, 5-152562	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS
pH 6.92
CONDUCTIVITY 1200 m.moles
TEMPERATURE 17°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347
CASE NUMBER 7914/3048E

SAMPLE #/STATION LOCATION RW2

SAMPLING DATE 8/19/87 SAMPLING TIME 1010

ORGANIC TRAFFIC NUMBER ET.122
INORGANIC TRAFFIC NUMBER MEU 752

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152565	H7133302
1 liter amber	organics	5-152566	H7133302
1 liter amber	organics	5-152567	H7133302
1 liter plastic	Metals	5-152563	C7173112
1 liter plastic	Cyanide	5-152564	C7173112
40ml. VOA	VOA	5-152568	B7132131
40ml. VOA	VOA	5-152569	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS
pH 6.99
CONDUCTIVITY 1200 m.mi
TEMPERATURE 17°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347
CASE NUMBER 7914 / 3048 E

SAMPLE #/STATION LOCATION RW 3

SAMPLING DATE 8/19/87 SAMPLING TIME 1050

ORGANIC TRAFFIC NUMBER ET 123
INORGANIC TRAFFIC NUMBER MEU 753

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152572	H7133302
1 liter amber	organics	5-152573	H7133302
1 liter amber	organics	5-152574	H7133302
1 liter plastic	Metals	5-152570	C7173122
1 liter plastic	Cyanide	5-152571	C7173122
40 ml. VOA	VOA	5-152575	B7132131
40 ml. VOA	VOA	5-152576	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS
pH 7.19
CONDUCTIVITY 500 m.m.
TEMPERATURE 20°C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914 / 3048E

SAMPLE #/STATION LOCATION RW4

SAMPLING DATE 8/19/87 SAMPLING TIME 1130

ORGANIC TRAFFIC NUMBER ET. 124

INORGANIC TRAFFIC NUMBER MEU 754

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152579	H7133302
1 liter amber	organics	5-152580	H7133302
1 liter amber	organics	5-152581	H7133302
1 liter plastic	Metals	5-152577	C7173122
1 liter plastic	Cyanide	5-152578	C7173122
40ml. VOA	VOA	5-152582	B7132131
40ml. VOA	VOA	5-152583	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS

pH 7.22

CONDUCTIVITY 1000 m.m.

TEMPERATURE 23° C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914 / 3048E

SAMPLE #/STATION LOCATION Duplicate

SAMPLING DATE 8/19/87 SAMPLING TIME 1130

ORGANIC TRAFFIC NUMBER ET 125

INORGANIC TRAFFIC NUMBER MEU 755

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152586	H7134132
1 liter amber	organics	5-152587	H7134132
1 liter amber	organics	5-152588	H7134132
1 liter plastic	Metals	5-152584	C7173122
1 liter plastic	Cyanide	5-152585	C7173122
40ml. VOA	VOA	5-152589	B7132131
40ml. VOA	VOA	5-152590	B7132131

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS

pH 7.22

CONDUCTIVITY 1000 mm.

TEMPERATURE 23° C

SAMPLE DESCRIPTION

SITE NAME/TDD# Town + Country F05-8703-347

CASE NUMBER 7914/3048E

SAMPLE #/STATION LOCATION Blank

SAMPLING DATE 8/19/87 SAMPLING TIME 1000

ORGANIC TRAFFIC NUMBER ET.131

INORGANIC TRAFFIC NUMBER MEU 756

BOTTLE	ANALYSIS	TAG NUMBERS	LOT NUMBER
1 liter amber	organics	5-152593	H7134132
1 liter amber	organics	5-152594	H7134132
1 liter amber	organics	5-152595	H7134132
1 liter plastic	Metals	5-152591	C7173112
1 liter plastic	Cyanide	5-152592	C7173112
40ml. VOA	VOA	5-152596	B713213
40ml. VOA	VOA	5-152597	B713213

PHYSICAL DESCRIPTION AT TIME OF COLLECTION: N/A

PHYSICAL CHANGES FROM TIME OF COLLECTION UNTIL SHIPMENT: NONE

INSTRUMENT READINGS

pH 5.88

CONDUCTIVITY 0

TEMPERATURE 28°C

Site Name: Town & Country
Location: New Baltimore OH
Case Number: 7914/3048E

SAMPLE SHIPMENT CHECKLIST:
LOW CONCENTRATION SAMPLES

Mark each item with an "X" to verify completion.

✓ 1. Is each sample bottle permanently labeled with the following information: Sample number, date, time of collection, and a brief description?

✓ 2. Are sample volumes marked on all sample bottles (except VOA's)?

✓ 3. Is each sample bottle lid secured with strapping tape or evidence tape?

✓ 4. Have all bottles been packed in plastic bags?

✓ 5. Are all samples properly preserved and iced, when appropriate, for shipment?

✓ 6. Are samples packaged in such a way as to prevent breakage?

✓ 7. Has the proper cushioning material (ie-vermiculite) been used for sample packaging?

✓ 8. Is each cooler drain taped shut?

✓ 9. Have all coolers been labeled with the proper laboratory address and has this label been covered with clear tape?

✓ 10. Has each cooler been labeled with "This Side Up" stickers on all four sides and "Fragile" stickers on at least two sides?

✓ 11. Is there at least one Chain-Of-Custody record per cooler?

✓ 12. Have the proper sections of the sampling paperwork been put in a plastic bag and taped to the inside lid of the coolers?

✓ 13. Has each cooler been secured properly with strapping tape?

✓ 14. Have numbered custody seals been affixed to the front right and back left of each cooler and covered with clear tape?

✓ 15. Has the sampler double-checked all paperwork and packiging procedures for accuracy and completeness immediately prior to strapping each cooler for shipment?

✓ 16. Have photos of each cooler, showing ice, custody seals, and proper packaging procedures, been taken?

I certify that all the above procedures have been followed and that all coolers have been properly packaged for shipment.

X Ronald W. Short Sampler Signature

X Donald L. Clark Team Leader Signature

NOTE: If there is any question that one of the above has been done incorrectly by any member of your team, DO NOT ship samples without checking your suspicions (even if this means re-opening coolers that have already been strapped shut!)

45T:6M

Low soils & residentials

Site Name Town & Country Auto Parts TDD FS-8703-247 DH0523 Case Number 7914/30486

OTR	ITR	CRL	NEIC TAG NUMBER	ORG CHAIN OF CUSTODY	INO CHAIN OF CUSTODY	SAS NUMBER
ET126	MEU746			21784	21783	
ET127	MEU747	See	See	21784	21783	
ET128	MEU748			21784	21783	
ET129	MEU749			21784	21783	
ET121	MEU751	Book	Book	21785	09112	
ET122	MEU752			21785	09112	
ET123	MEU753			21786	09112	
ET124	MEU754	Book	Book	21786	09112	
ET125	MEU755			21786	09112	
ET131	MEU756			09111	09112	

CB, KG/df
9-30-81

SMP-002