INSPECTION REPORT
FOR
PEOPLE'S AVENUE LANDFILL
ROCKFORD, IL
ILD980679583
R05-8303-01D

DECEMBER 1985

US EPA RECORDS CENTER REGION 5
531217

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

MEMORANDUM

DATE: December 13, 1985
TO: File
FROM: Kevin Phillips KP
SUBJECT: Illinois/R05-8303-1D/IL0111
Rockford/People's Ave. Landfill
ILD980679583

People's Avenue Landfill was the City of Rockfords Municipal Dump from 1947 to 1972. During this time, general municipal and industrial wastes were accepted for disposal. Although no records were kept, it is believed that cyanide bearing plating waste, heavy metals and toxic and ignitable solvents from local screw and tool manufacturers were also disposed here. The site was originally a sand and gravel pit approximately 30-40 feet deep. Waste was reportedly dumped into the groundwater and run-off that collected in the bottom of the pit. Recent problems associated with the site include the contamination and subsequent abandonment of nearby private and industrial wells and methane gas migrating off-site. This site was assigned to FIT for site inspection after being identified by IEPA in the form of a Preliminary Assessment submitted to U.S. EPA.

On August 14, 1984 FIT conducted a site inspection at People Avenue Landfill. Four soil samples were collected from around a small incinerator on-site. At that time, it was also determined that a groundwater monitoring program was needed to properly score the site for HRS. Pursuant to TDD R05-8303-1G FIT installed and sampled twenty groundwater monitoring wells in the area. Monitoring well locations are shown on a map inserted at the end of this report. A detailed hydrogeology report, to be completed by FIT, will address contaminant sources, groundwater flow and groundwater quality at this site and at

recycled paper

IPC, located directly north of People's Avenue Landfill. Sample results and a table matching well numbers with sample numbers is included in this report.

In general, there was a significant amount of contamination, particularly in the volatile fraction, detected in downgradient wells as compared to up-gradient wells. Glacial outwash sand and gravel predominates below the site and local groundwater discharges to the Rock River, less than 1/4 mile to the west. Therefore, contaminants will enter the Rock River before they can affect the present municipal water supply.

60X:6F

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
PEOPLE'S AVENUE LANDFILL	PEOPLES AVE. & MAGNOLIA ST

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
ROCKFORD	IL	61108	WINNEBAGO	201	16

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
42 14 20.0	089 05 50.0	■ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ■ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
8 14 84 (MONTH DAY YEAR)	☐ ACTIVE ■ INACTIVE	1947 (BEGINNING YEAR) 1972 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ■ B. EPA CONTRACTOR ECOLOGY & ENVIRONMENT (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR ___ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR ___ (Name of firm) ☐ G. OTHER ___ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
RON ST. JOHN	HYDROGEOLOGIST	E&E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO
TONY BAHNICK	GEOLOGIST	E&E	(312) 663-9415
KEVIN PHILLIPS	GEOLOGIST	E&E	(312) 663-9415
LUIS MORALES	GEOLOGIST	E&E	(312) 663-9415
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
PAUL SAHLSTROM	OWNER	217 PEOPLES AVE ROCKFORD IL. 61108	(815) 965-2643
			( )
TOM TULLOCK	DIRECTOR DEPT. PUBLIC WORKS	425 E. STATE. ROCKFORD	(815) 987-5771
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	1:00 PM	SUNNY 75°

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
ROBERT L. MUNGER	IEPA/DLPC	(815) 987-7404

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
KEVIN PHILLIPS	FIT	ECOLOGY & ENVIRONMENT	312-663-9415	12 9 85 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ■ A. SOLID
- ☐ B. POWDER, FINES
- ■ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ■ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS UNKNOWN

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- ■ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ■ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ■ G. FLAMMABLE
- ■ H. IGNITABLE
- ■ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	UNKNOWN		DETECTED IN GROUNDWATER SAMPLES
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	UNKNOWN		DETECTED IN GROUNDWATER AND SOIL
IOC	INORGANIC CHEMICALS	UNKNOWN		DETECTED IN GROUNDWATER SAMPLES
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKOWN		DETECTED IN GROUNDWATER SAMPLES

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	SEE ATTACHED ANALYTICAL RESULTS FOR GROUNDWATER 4-25-85 AND SOIL 8-14-85				

V. FEEDSTOCKS (See Appendix for CAS Numbers) N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA/DLPC FILES, ROCKFORD REGION
ECOLOGY & ENVIRONMENT INC. FILES, CHICAGO IL. OFFICE

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
FL	D980674583

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE: 4-25-85) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 140,000
04 NARRATIVE DESCRIPTION
MONITORING WELL SAMPLE RESULTS SHOW ELEVATED LEVELS OF METALS AND ORGANICS. SEE ATTACHED SAMPLE RESULTS.

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
THE POTENTIAL EXISTS FOR CONTAMINATED RUN-OFF TO ENTER AN OLD GROUNDWATER FILLED GRAVEL PIT LOCATED JUST EAST OF FILLED AREA. ACCESS TO POND IS RESTRICTED AND IT IS NOT USED FOR WATER SUPPLY.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
NONE

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE:) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:
04 NARRATIVE DESCRIPTION
NONE

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 5,000
04 NARRATIVE DESCRIPTION
POTENTIAL EXISTS FOR WORKERS TO COME IN CONTACT WITH CONTAMINATED SOIL. SEE ATTACHED SOIL SAMPLE RESULTS.

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 8-14-85) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 20 (Acres)
04 NARRATIVE DESCRIPTION
SURFICIAL SOIL SAMPLES TAKEN ON-SITE (EXACT LOCATION UNKNOWN) BY FIT 8-14-85 SHOW ELEVATED LEVELS OF VOLATILE, SEMI-VOLATILE AND HEAVY METAL COMPOUNDS. ALSO PCB-1254 DETECTED AT 12,680 ppb IN ONE SAMPLE. SAMPLES ARE BELIEVED TO BE FROM INCINERATOR AREA. SEE ATTACHED SAMPLE RESULTS

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 140,000
04 NARRATIVE DESCRIPTION
UNLIKELY BECAUSE CONTAMINATED GROUNDWATER DISCHARGES TO ROCK RIVER < 1/4 MI. AWAY. SURROUNDING POPULATION IS SERVED BY MUNICIPAL WATER. ALL MUNICIPAL WELLS ARE UPGRADIENT BUT A SMALL POTENTIAL COULD EXIST DURING PERIODS OF HEAVY MUNICIPAL/INDUSTRIAL PUMPAGE AND/OR BACKWASHING OF AQUIFER DURING FLOOD STAGE OF ROCK RIVER.

01 ■ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 5-10
04 NARRATIVE DESCRIPTION
POTENTIAL FOR WORKERS AT SAHLSTROM BUILDING PRODUCTS CO. (LOCATED ON-SITE) TO BE EXPOSED TO CONTAMINATED SOILS. ALSO WORKERS AT A DRUM RECYCLING OPERATION LOCATED ON TOP OF OLD LANDFILL MAY BE EXPOSED TO CONTAMINATED SOILS.

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: < 50
04 NARRATIVE DESCRIPTION
GENERAL POPULATION EXPOSURE IS REMOTE. SITE IS FENCED AND LOCATED IN AN INDUSTRIAL AREA. POTENTIAL EXISTS FOR OCCASSIONAL TRUCK DRIVER OR SAHLSTROM BUILDING PRODUCTS CLIENTS.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980679583

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE OBSERVED

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

NONE OBSERVED

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE

01 ■ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/Runoff/Standing liquids, Leaking drums)* — 02 ■ OBSERVED (DATE: 4-25-85) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

WASTES DUMPED INTO UNLINED GRAVEL PIT HAVE CONTAMINATED GROUNDWATER IN THE AREA.

01 ■ N. DAMAGE TO OFFSITE PROPERTY — 02 ■ OBSERVED (DATE: 4-25-85) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

MONITORING WELL SAMPLE RESULTS SHOW THAT WASTES HAVE MIGRATED OFF-SITE.

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

NONE

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

HAZARDOUS WASTE ACTIVITIES WERE LEGAL AT THE TIME OF DISPOSAL, WOULD BE ILLEGAL NOW.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

FROM 1966 TO 1973, NINE (9) WELLS IN THE AREA HAD TO BE ABANDONED DUE TO INCREASING MINERAL CONTENT AND FOUL TASTE AND ODORS. THIS INCLUDED: ROCKFORD MUNICIPAL WELL #14 (1973), 4 PRODUCTION WELLS AT QUAKER OATS CO. (1966) AND 4 DOMESTIC WELLS (1969)

III. TOTAL POPULATION POTENTIALLY AFFECTED: 140,000

IV. COMMENTS

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

IEPA/DLPC FILES, ROCKFORD REGION
E&E FILES, CHICAGO OFFICE
SHUSTER, KENNETH; LEACHATE DAMAGE ASSEMENT, CASE STUDY OF THE PEOPLES AVENUE WASTE DISPOSAL SITE IN ROCKFORD, IL, 1976, EPA/530/SW-517

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
■ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
■ F. LANDFILL	UNKNOWN	
☐ G. LANDFARM		
■ H. OPEN DUMP	UNKNOWN	
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
NONE
☐ A. INCENERATION
☐ B. UNDERGROUND INJECTION
☐ C. CHEMICAL/PHYSICAL
☐ D. BIOLOGICAL
☐ E. WASTE OIL PROCESSING
☐ F. SOLVENT RECOVERY
☐ G. OTHER RECYCLING/RECOVERY
☐ H. OTHER (Specify)

05 OTHER
■ A. BUILDINGS ON SITE
5

06 AREA OF SITE
APPROX. 20 (Acres)

07 COMMENTS
LANDFILL WAS AN OLD SAND & GRAVEL PIT, 30-40 FEET DEEP. WASTE WAS DUMPED IN OR NEAR GROUNDWATER THAT SURFACED IN THE PIT. OPERATED AS AN OPEN DUMP UNTIL MID-1950'S. SOME COVER APPLIED AFTER THAT. PRESENTLY, WASTE MOUND STANDS 15-20 FEET ABOVE GRADE. EAST OF MAGNOLIA ST., LANDFILL PROPERTY USED FOR HEAVY EQUIP. STORAGE AND A DRUM RECYCLING OPERATION.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE C. INADEQUATE, POOR ■ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.
LANDFILL IS UNLINED SAND & GRAVEL PIT. PRESENTLY IT IS COVERED AND SEEDED WITH GRASS. WASTES ARE MIGRATING OFF-SITE IN GROUNDWATER. SOME SURFICIAL SOILS

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ■ NO
02 COMMENTS
SECTIONS OF THE SITE ARE COVERED, FENCED OR BOTH.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

IEPA/DLPC FILES, ROCKFORD REGION
E&E FILES, CHICAGO OFFICE
SHUSTER, KEN., LEACHATE DAMAGE ASSESSMENT, 1976, EPA/530/SW-517

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ■
NON-COMMUNITY	C. ☐	D. ■

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ■
D. ☐	E. ☐	F. ■

03 DISTANCE TO SITE

A. 1 (mi)
B. 1 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

■ A. ONLY SOURCE FOR DRINKING
B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 140,000

03 DISTANCE TO NEAREST DRINKING WATER WELL 1 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
45 (ft)	WSW	45 (ft)	>100 MGD (gpd)	☐ YES ■ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

ROCKFORD MUNICIPAL WATER WELLS ARE FINISHED BOTH IN SAND & GRAVEL AQUIFER AND DEEPER BEDROCK AQUIFERS. CLOSEST MUNICIPAL WELL IS #35, 210 FEET DEEP IN SAND AND GRAVEL. SHALLOW SAND & GRAVEL DOMESTIC WELLS ARE AROUND 1 MILE ESE OF SITE.

10 RECHARGE AREA

■ YES
☐ NO

COMMENTS

11 DISCHARGE AREA

☐ YES
■ NO

COMMENTS GROUNDWATER DISCHARGES TO ROCK RIVER 1/4 WEST OF SITE.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

■ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE
Rock River
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
■ D. NOT CURRENTLY USED
SAHLSTROM POND

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Rock River (POTENTIALLY AFFECTED BY G.W. DISCHARGE ONLY)	☐	1/4 (mi)
SAHLSTROM POND (POTENTIALLY AFFECTED BY RUNOFF)	☐	ON SITE (mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 5,000 NO. OF PERSONS	B. 10,000 NO. OF PERSONS	C. 140,000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 1/4 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

CITY OF ROCKFORD

04 DISTANCE TO NEAREST OFF-SITE BUILDING 100 FT. (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

SITE IS LOCATED IN HEAVILY INDUSTRIALIZED SOUTHWEST ROCKFORD BUT HOUSING SUBDIVISIONS ARE SCATTERED THROUGHOUT THE ARE. CLOSEST ONE IS 1-2 BLOCKS NORTH OF SITE.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE *(Check one)*

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ■ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK *(Check one)*

☐ A. IMPERMEABLE *(Less than 10^{-6} cm/sec)* ☐ B. RELATIVELY IMPERMEABLE *($10^{-4} - 10^{-6}$ cm/sec)* ■ C. RELATIVELY PERMEABLE *($10^{-2} - 10^{-4}$ cm/sec)* ☐ D. VERY PERMEABLE *(Greater than 10^{-2} cm/sec)*

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
LOCATED ON BEDROCK VALLEY 100 - 400 (ft)	30 - 40 (ft)	UNKNOWN

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
5 (in)	2.5 (in)	1 %	WEST	1 %

09 FLOOD POTENTIAL: SITE IS IN N/A YEAR FLOODPLAIN

10 N/A ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS *(5 acre minimum)*: ESTUARINE N/A OTHER

A. _____ (mi) B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT *(of endangered species)*: N/A (mi)

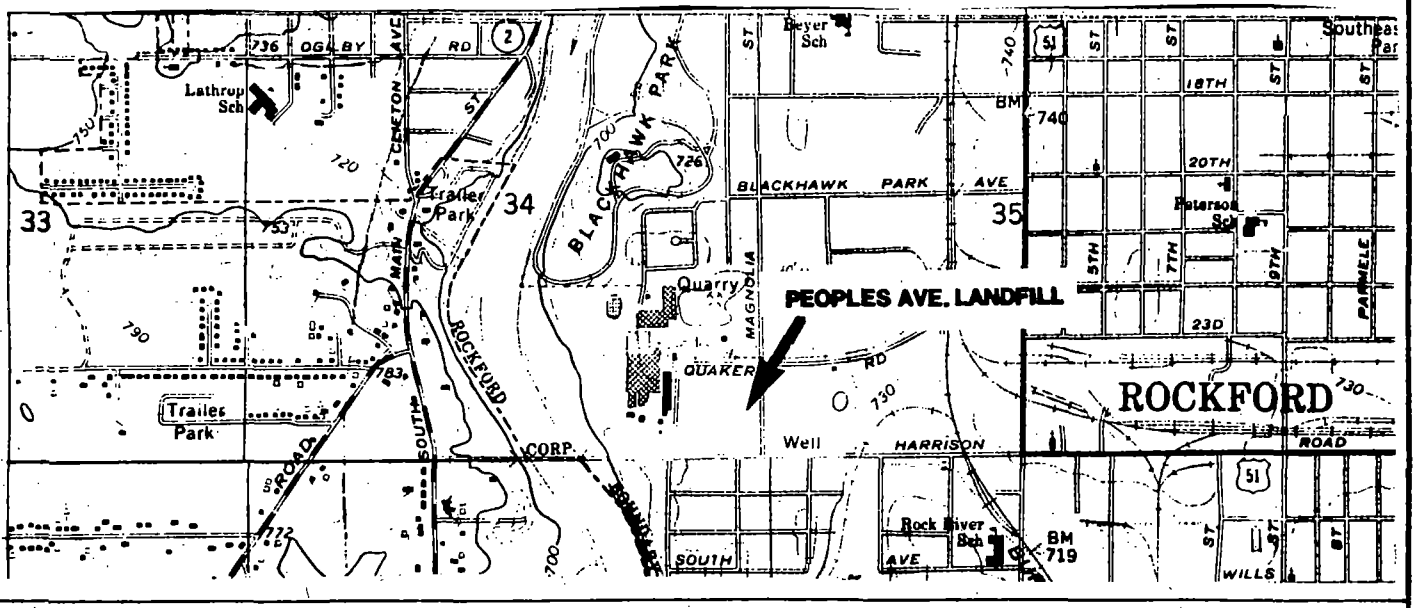
ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. BORDERS ON SITE (mi)	B. 1-2 BLOCKS (mi)	C. 2 (mi)	D. NA (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

U.S.G.S. TOPO MAPS. 7.5' SERIES. QUADS: ROCKFORD NORTH, SOUTH; WINNEBAGO; KISHWAUKEE. 1971
E&E FILES, CHICAGO OFFICE
CENSUS OF POPULATION, 1980, US. DEPT. OF COMMERCE
SHUSTER, KEN., LEACHATE DAMAGE ASSESSMENT, 1976, EPA/530/SW-517
IEPA/OLPC FILES, ROCKFORD REGION

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	29	TAKEN BY FIT 4-25-85	AVAILABLE
SURFACE WATER		ORGANICS: CALIFORNIA ANALYTICAL LAB; INORGANICS: CHEMTECH	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	TAKEN BY FIT 8-14-85	AVAILABLE
VEGETATION		ORGANICS: HAZELTON LABS AMERICA INC.	
OTHER		INORGANICS: CALIFORNIA ANALYTICAL LAB	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
N/A	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ■ AERIAL

02 IN CUSTODY OF ECOLOGY & ENVIRONMENT INC. CHICAGO (Name of organization or individual)

03 MAPS ■ YES ☐ NO

04 LOCATION OF MAPS E&E CHICAGO

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

MONITORING WELL WATER LEVELS

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

CITY OF ROCKFORD PUBLIC WORKS DEPT. AND WATER DEPT.
CLIMATIC ATLAS OF THE UNITED STATES, 1968, U.S. DEPT. OF COMMERCE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
CITY OF ROCKFORD		CITY HALL 425 E. STATE		ROCKFORD	IL	61104
PAUL SAHLSTROM		217 PEOPLES AVE.		ROCKFORD	IL	61104

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
NONE						

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
NONE						

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
NONE						

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA / DLPC FILES, ROCKFORD REGION
E&E FILES, CHICAGO OFFICE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980679583

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
NONE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
NONE	

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
CITY OF ROCKFORD		NONE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
CITY HALL 425 E. STATE			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
ROCKFORD	IL	61104			

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
UNKNOWN	SAME

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
ROCKFORD DISPOSAL SERVICE INC.			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
1208 MILFORD AVE.			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
ROCKFORD	IL	61104			

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
UNKNOWN	CITY OF ROCKFORD

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
BROWNING-FERRIS IND.			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
1827 WALDEN OFFICE SUITE 107			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
SCHAUMBURG	IL	60195			

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
UNKNOWN	CITY OF ROCKFORD

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA / DLPC FILES, ROCKFORD REGION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980679583

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
NONE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
UNKNOWN			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
SEE "OPERATORS"			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

IEPA/DLPC FILES, ROCKFORD REGION

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980679583

II. PAST RESPONSE ACTIVITIES

01 ■ A. WATER SUPPLY CLOSED — 02 DATE 1966-1973 — 03 AGENCY CITY OF ROCKFORD
04 DESCRIPTION ROCKFORD MUNICIPAL WELL #14, PRODUCTION WELLS AT QUAKER OATS CO. AND 4 DOMESTIC WELLS ABANDONED DUE TO CONTAMINATION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ■ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE 1966, 1969 — 03 AGENCY CITY OF ROCKFORD
04 DESCRIPTION MUNICIPAL WATER PROVIDED TO QUAKER OATS CO. IN 1966. ALSO TO NEARBY RESIDENTS IN 1969 BY CITY OF ROCKFORD

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ F. WASTE REPACKAGED — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ H. ON SITE BURIAL — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ L. ENCAPSULATION — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ N. CUTOFF WALLS — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE — 03 AGENCY
04 DESCRIPTION
NA

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980679583

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ■ S. CAPPING/COVERING — 02 DATE AFTER 1972 — 03 AGENCY CITY OF ROCKFORD
04 DESCRIPTION SOIL CAP APPLIED AFTER CLOSURE

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ■ W. GAS CONTROL — 02 DATE 1967 — 03 AGENCY CITY OF ROCKFORD
04 DESCRIPTION METHANE GAS VENTS INSTALLED IN LANDFILL TO PREVENT GAS FROM MIGRATING INTO QUAKER OATS CO. BASEMENT

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NA

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

IEPA/DLPC FILES, ROCKFORD REGION
E&E FILES, CHICAGO OFFICE
SHUSTER, KEN., LEACHATE DAMAGE ASSESSMENT, 1976, EPA/530/SW-517

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980679583

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ■ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

THE CITY OF ROCKFORD WAS FINED $15,000 ON SEPT. 12, 1974 BY THE ILLINOIS POLLUTION CONTROL BOARD FOR VIOLATIONS OF THE ENVIRONMENTAL PROTECTION ACT. COMPLAINANT WAS THE IEPA. VIOLATIONS INCLUDED FAILURE TO PROVIDE DAILY & FINAL COVER, FAILURE TO SUPERVISE UNLOADING OF REFUSE, OPERATING WITHOUT A PERMIT, AND FAILURE TO PROVIDE PROPER CONTROL OF VECTORS. VIOLATIONS ALLEGEDLY OCCURRED FROM JULY, 1970 TO APRIL 1, 1974.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

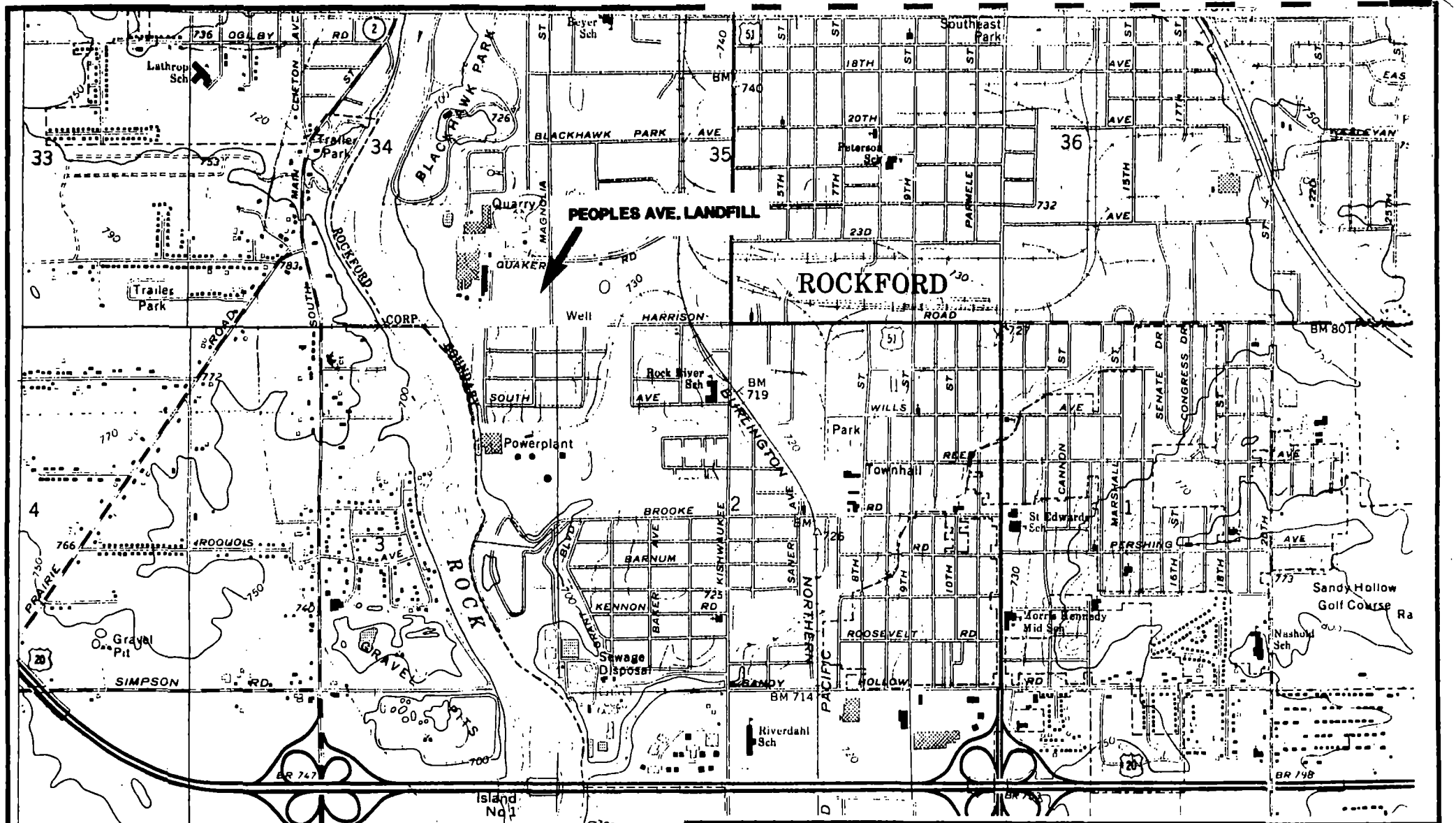
IEPA/DLPC FILES, ROCKFORD REGION

Immediate Removal Action Check Sheet

	High	Moderate	Low
Fire and Explosion Hazard			
Flammable Materials N/A			
Explosives N/A			
Incompatable Chemicals N/A			
Direct Contact with Acutely Toxic Chemicals			
Site Security N/A			
Leaking Drums or Tanks N/A			
Open Lagoons or pits N/A			
Materials on Surface			✓
Proximity of Population N/A			
Evidence of Casual Site Use			✓
Contaminated Water Supply			
Exceeds 10 Day Snarl N/A			
Gross Taste or Odors N/A			
Alternate Water Available N/A			
Potential Contamination N/A			
Is the site abandoned or active? BUT NO LONGER ACCEPTING WASTE			

Comments

SOIL SAMPLES TAKEN AROUND INCINERATOR ON-SITE SHOW ELEVATED LEVELS OF ORGANICS AND INORGANICS (INCLUDING PCB'S). WORKERS ON-SITE MAY BE EXPOSED TO CONTAMINANTS. SEE ATTACHED SAMPLE RESULTS.



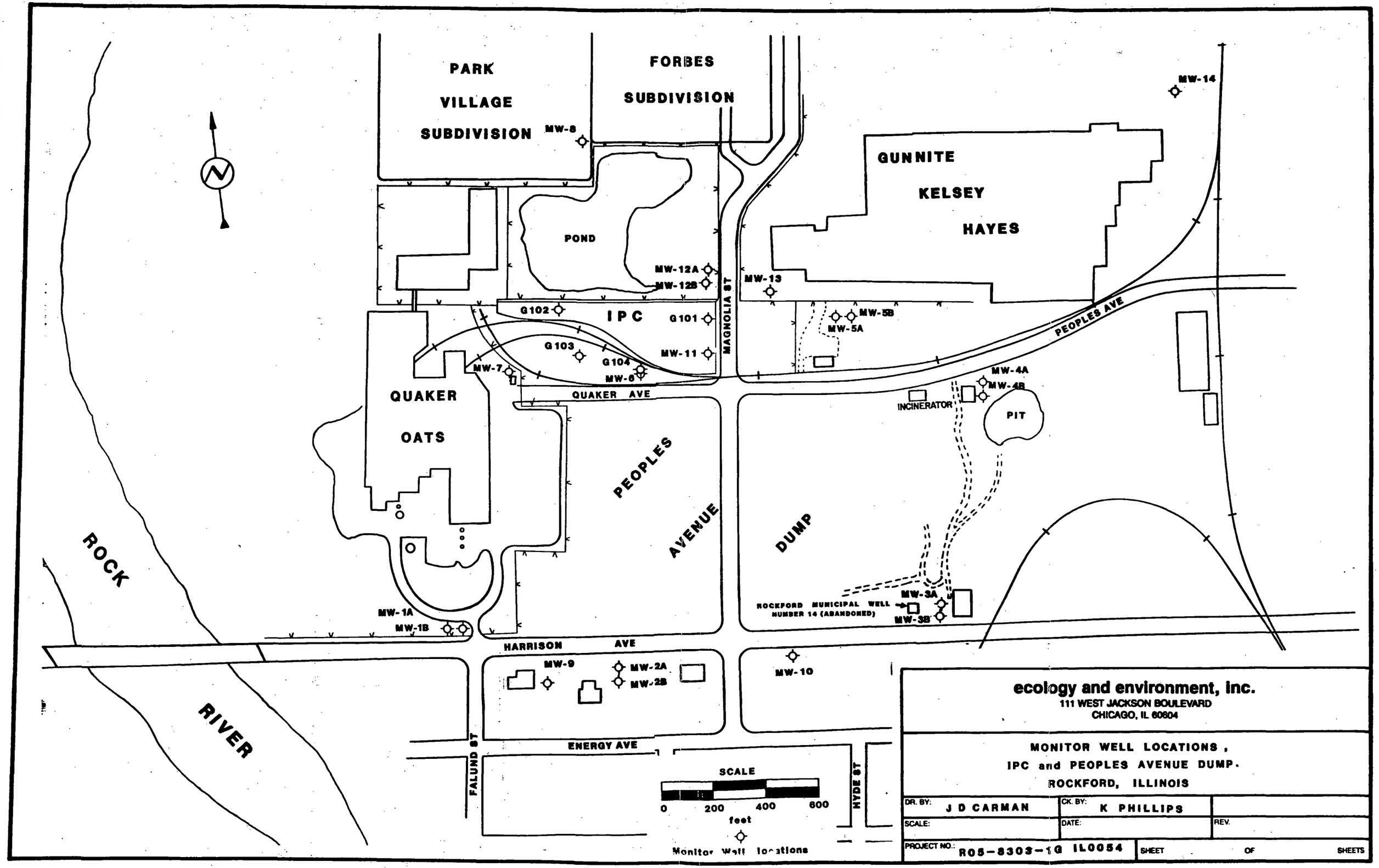
ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

SCALE: 1:24000	R05—8303—1D	DRAWN BY K. PHILLIPS
DATE: 1976		REVISED

PEOPLES AVENUE LANDFILL ROCKFORD, ILLINOIS

ROCKFORD SOUTH QUADRANGLE, IL

DRAWING NUMBER


PARK
VILLAGE
SUBDIVISION
FORBES
SUBDIVISION
MW-8
MW-14
GUNNITE
KELSEY
HAYES
POND
MW-12A
MW-12B
MW-13
MAGNOLIA ST
G102
IPC
G101
MW-5B
MW-5A
PEOPLES AVE
G103
MW-11
G104
MW-7
MW-6
QUAKER AVE
MW-4A
MW-4B
INCINERATOR
PIT
QUAKER
OATS
PEOPLES
AVENUE
DUMP
ROCK
RIVER
MW-3A
ROCKFORD MUNICIPAL WELL
NUMBER 14 (ABANDONED)
MW-3B
MW-1A
MW-1B
HARRISON AVE
MW-9
MW-2A
MW-2B
MW-10
ENERGY AVE
FALUND ST
HYDE ST
SCALE
0
200
400
600
feet
Monitor Well locations
ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604
MONITOR WELL LOCATIONS,
IPC and PEOPLES AVENUE DUMP.
ROCKFORD, ILLINOIS
DR. BY: J D CARMAN
CK. BY: K PHILLIPS
SCALE:
DATE:
REV.
PROJECT NO.: R05-8303-1G IL0054
SHEET
OF
SHEETS

ANALYTICAL RESULTS
FOR
FIT SOIL SAMPLES TAKEN
AUGUST 14, 1984 AT
PEOPLES AVENUE LANDFILL
ROCKFORD, IL

TABLE MATCHING SOIL SAMPLE
DESCRIPTION WITH SAMPLE TRAFFIC NUMBER

Sample	Organic Number	Inorganic Number
X - 101: Fine Brown Dirt	E 8333	ME 3271
X - 102: Dark Brown Chunky Coal/Ash Mixture ... Incinerator Ash	E 8374	ME 3272
X - 103: Black Chunky Coal/Ash Mixture, somewhat Moist ...Incinerator Ash	E 8375	ME 3275
X - 104: Fine Dark Brown Dirt	E 8376	ME 3274

Note: Exact location of samples on-site is unknown.
Thought to be near on-site incinerator.

Site Name / TDD#: 22 PEOPLES AVE LANDFILL / RG-8303-10

Case Number : 3138

Sampling Date: 8-14-84

Sampling Time: 14:30

Sample/Station Location: S-1 / X-101

Organic Traffic Number E 8333

Inorganic Traffic Number ME 3271

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Soil sample

Physical Changes (if any)

From time of collection until shipment: NONE

Instrument Readings (i.e. - pH, conductivity...): NONE

Sampling Date: 8-14-84

Sampling Time: 14:30

Sample/Station Location: S-2/X-102

Organic Traffic Number E 8374

Inorganic Traffic Number ME 3272

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. Soil sample

Physical Changes (if any)

From time of collection until shipment: NONE

Instrument Readings (i.e. - ph, conductivity...): NONE

Site Name / TDD#: ROGERS AVE LANDFILL / RS-8303-010

Case Number : 3138

Sampling Date: 8-14-84

Sampling Time: 14:30

Sample/Station Location: S-3/X-103

Organic Traffic Number E 8375

Inorganic Traffic Number ME 3273

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. soil sample

Physical Changes (if any)

From time of collection until shipment: none

Instrument Readings (i.e. - pH, conductivity...): none

Sampling Date: 8-14-84

Sampling Time: 14:30

Sample/Station Location: S-4/X-104

Organic Traffic Number E 8376

Inorganic Traffic Number ME 3274

High Hazard Traffic Number E

Physical Description

At time of collection: Low Conc. soil sample

Physical Changes (if any)

From time of collection until shipment: none

Instrument Readings (i.e. - ph, conductivity...): none

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Date Received for Review: 1/15/85 Date Review Completed: 1/16/85

To: Ron St. John

From: Cynthia Bachunas /D. Cg

Subject: Peoples Ave LF Case 3138
R5-8303-1D

Sample Description: Low Soil Organics

Project Data Status: Complete

FIT Data Review Findings:

E 8376 analyzed as a med concentration
SEE CRL qualifications

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/14/85

SUBJECT: Review of Region V CLP Data
Received for Review on 12/21/84

RECEIVED JAN 15 1985

FROM: Curtis Ross, Director
Central Regional Laboratory
Chuck Kelly

TO: Data User: FIT

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

SITE NAME Peoples Ave Landfill Rockford SMO Case No. 3138

EPA Data Set No. SF 636 No. of Samples 4 D.U./Activity Numbers ~~3138~~ 7905 C48500

CRL No. 84MS09962 to 84MS09965

SMO Traffic No. ~~ME 3271 to ME 3274~~ E8333-E8374

Contract Laboratory: Hours Required for Review: 16

Following are our findings.

1. 8333 toluene not reported on the ODAS
2. Very difficult to recalculate results. There is no calculation form supplied. Nor is the wt/moisture always listed on the Result Report.
3.) E8376 analyzed as a med level soil No hits Screen check
4.) DBC masked by matrix in all low samples.
5.) MS/MSD spots with high % Recoveries. apparent matrix problem.

Reviewed 11 Dec 85 Tom Clyne

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

cc: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

EPA FORM 1220-4 (REV 3-78)

RECEIVED JAN 1 5 1985

USER'S SUMMARY REVIEW

ITE: People Ave LE 3138 Date: 11 Jan 85

CASE NUMBER(S): 3138

LABS:

SAMPLES: #4 84MS09 S62 to S65

~~M~~E 3271 to 3274

RACTION:

1. Data is usable as written
2. MS/MSD for ABN had problems but on the high side for recovery.
3. Matrix was part of the problem.

HAZLETON LABORATORIES AMERICA, INC.

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

RECEIVED JAN 1 5 1985

December 19, 1984

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

Dear Gentlemen:

Enclosed please find the sample data packages for Case 3138 received on August 15, 1984. All samples were analyzed and reported according to the protocols provided under Contract No. 68-01-6725.

Please note the following relating to the quality control items in this case:

Sample Matrices

Due to the major problems with quality control, particularly with Samples E8374 and E8375 in the base/neutral/acid fraction, I believe a description of the sample matrices is warranted.

- E8333 - Fine brown dirt.
- E8374 - Dark brown chunky coal/ash mixture, appears to be an incinerator ash.
- E8375 - Black chunky coal/ash mixture, somewhat moist, appears to be an incinerator ash.
- E8376 - Fine dark brown dirt.

Volatile Fraction

- All tuning criteria were met for all sample runs.
- All surrogate recoveries and matrix spike recoveries were within the contract limits.
- 1,1,1-Trichloroethane was present in the blanks and sample at a levels of 5 to 6 ppb; it was later determined to be a contaminant in our helium carrier gas.

RECEIVED JAN 1 5 1985

Base/Neutral/Acid Fraction

- All tuning criteria were met for all sample runs.
- Surrogate recoveries as well as matrix spike recoveries were poor in samples E8374, E8375, and the matrix spikes performed on E8375. Because of the limited quantity of sample provided for samples E8333 and E8376 our choice of which sample to prepare for the matrix spike/matrix spike duplicate was narrowed to the two samples which provided the worst matrices.
- Sample E8376 screened as a medium level sample, but no compounds were detected in this fraction at the medium level extract.

Pesticide Fraction

- Major interferences masked the recovery of the di-n-butylchlorendate surrogate with the exception of the medium level extract of E8376.

- All samples in this case had aroclors 1253 and 1016 of PCB identified and confirmed in their matrices.

If you have any questions, or if we may be of further service, please feel free to call.

Sincerely,

David C. Hills
David C. Hills
Manager, Environmental Analysis

12-19-84
Date

S Sturino
Emilio Sturino, PhD
Scientific Director

12-19-84
Date

DCH/lmw

cc: USEPA Region V
USEPA EMSL-LV
Central File

(6631B)

VOA

RECEIVED JAN 15 1985

	E 8373	E 8374	E 8375	E 8376
acrolein				
acrylonitrile				
benzene				
carbon tetrachloride				
chlorobenzene				
1,2-dichloroethane				
1,1,1-trichloroethane				
1,1-dichloroethane				
1,1,2-trichloroethane	ND B	11 K	ND B	50 K
1,2,2-tetrachloroethane				
chloroethane				
chloroethylvinyl ether				
chloroform	28 K	11 K	26 K	50 K
1,1-dichloroethene				
trans-1,2-dichloroethene				
1,2-dichloropropane				
trans-1,3-dichloropropene				
cis-1,3-dichloropropene				
ethylbenzene				
methylene chloride	665	340	532	4300
chloromethane				
bromomethane				
bromoform				
bromodichloromethane				
fluorotrichloromethane				
dichlorodifluoromethane				
chlorodibromomethane				
tetrachloroethene				
toluene	28 K	22	26 K	50 K
trichloroethene				
vinyl chloride				
acetone	—	260	—	—
2-butanone	—	12	—	—
carbon disulfide				
2-hexanone				
4-methyl-2-pentanone				
styrene				
vinyl acetate				
total xylenes				

B = found in blank
K = found, but < DL
J = estimate value

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Acid	E 8333	E 837[illegible]	E 8375	E 837[illegible]
2,4,6-trichlorophenol				
chloro-m-cresol				
2-chlorophenol				
2,4-dichlorophenol				
4-dimethylphenol				
2-nitrophenol				
nitrophenol				
4-dinitrophenol				
4,6-dinitro-2-methylphenol				
ntachlorophenol				
phenol	2000	—	2000K	—
nzoic acid				
methylphenol				
4-methylphenol				
4,5-trichlorophenol				

RECEIVED JAN 15 1985

...enaphthene	2000K			
...nzidine				
...,2,4-trichlorobenzene				
...xachlorobenzene				
...xachloroethane				
...is(2-chloroethyl)ether				
...chloronaphthalene				
...-dichlorobenzene				
...,3-dichlorobenzene				
...-dichlorobenzene				
...,3'-dichlorobenzidine				
...4-dinitrotoluene				
...6-dinitrotoluene				
...1,2-diphenylhydrazine				
...uoranthene	2200K		18,000	—
...chlorophenyl phenyl ether				
...4-bromophenyl phenyl ether				
...2-chloroisopropyl) ether				
...s (2-chloroethoxy) methane				
...achlorobutadiene				
...achlorocyclopentadiene				
...isophorone				
...phthalene	—		2000K	—
...robenzene				
...-nitrosodimethylamine				
...itrosodiphenylamine				
...-nitrosodipropylamine				
...(2-ethylhexyl) phthalate	42,000	130,000	11,000	—
...yl butyl phthalate				
...-n-butyl phthalate	—	2000K	2000K	—
...n-octyl phthalate				
...ethyl phthalate				
...imethyl phthalate	17,000	—	33400	—
...nzo(a)anthracene	—	—	3000	—
...benzo(a)pyrene				
...nzo(b)fluoranthene	—	—	9,2	—
...nzo(k)fluoranthene	—	—	0,0	—
...chrysene	—	—	8200K	—
...enaphthylene	—	—	2000K	—
...anthracene				
...nzo(ghi)perylene				
...rene	—	—	2000K	—
...henanthrene	2200K	—	22,000	—
...nzo(a,h)anthracene				
...no(1,2,3-cd)pyrene	4400K			
...yrene	2200K		13,000	—
...line				
...nzyl alcohol				
...-chloroaniline				
...dibenzofuran	—	—	2000K	—
...thylnaphthalene	—	—	2000K	—
...2-nitroaniline				
...roaniline				

RECEIVED JAN 1 5 1985

Pest.	E 8333	E 8334	E 8375	E 8376
aldrin				
dieldrin				
chlordane				
p,p'-DDT				
p,p'-DDE				
p,p'-DDD				
α-endosulfan				
β-endosulfan				
endosulfan sulfate				
endrin				
endrin aldehyde				
heptachlor				
heptachlor epoxide				
α-BHC				
β-BHC				
δ-BHC				
γ-BHC (lindane)				
PCB-1242				
PCB-1254	534	200K	251	13,000
PCB-1221				
PCB-1232				
PCB-1248				
PCB-1260				
PCB-1016	505	238	355	13,000
toxaphene				

ERUN ☐ Y ☐ N

VALUE (X) CONC/DIL FACTOR (X) $\frac{100}{100-\%H_2O}$ =

LIQUID ☐ S/S/S ☐

[illegible]	LEVEL	CAS #	COMPOUNDS HSL	CORRECTED AMOUNT ug/kg/ul/l	CORRECT DL
			Numerous hits in the four samples both in ABN & VOA [signature]		

RECEIVED JAN 15 1985

U.S. ENVIRONMENTAL PROTECTION AGENCY
P.O. Box 818, Alexandria, Virginia 22313 • 703/557-2090

Sample Number
E 8333

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 40905390
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. Sills
Date Sample Received: 8-15-84

SEMIVOLATILE COMPOUNDS

RECEIVED JAN 15 1985

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-17-84
DATE ANALYZED: 10-12-84
PERCENT MOISTURE: 9.6

Multiply Detection Limits by 1 [ ] or 10 [ ] or [X] 5.55 → 5 / 0.9
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/kg (circle one)		PP #	CAS #		ug/l or ug/kg (circle one)	
(21A)	88-06-2	2,4,6-trichlorophenol	520	U	(52B)	87-68-3	hexachlorobutadiene	400	U
(22A)	59-50-7	p-chloro-m-cresol	400	U	(53B)	77-47-4	hexachlorocyclopentadiene	400	U
(26A)	95-57-8	2-chlorophenol	400	U	(54B)	78-59-1	isophorone	400	U
(31A)	120-83-2	2,4-dichlorophenol	400	U	(55B)	91-20-3	naphthalene	400	U
(34A)	105-67-9	2,4-dimethylphenol	400	U	(56B)	98-95-3	nitrobenzene	400	U
(37A)	88-75-5	2-nitrophenol	4800	U	(62B)	86-30-6	N-nitrosodiphenylamine	400	U
(38A)	100-02-7	4-nitrophenol	2400	U	(63B)	621-64-7	N-nitrosodipropylamine	400	U
(39A)	51-28-5	2,4-dinitrophenol	400	U	(66B)	117-81-7	bis (2-ethylhexyl) phthalate 22000	400	U
(60A)	534-52-1	4,6-dinitro-2-methylphenol	400	U	(67B)	85-68-7	benzyl butyl phthalate	400	U
(64A)	87-86-5	pentachlorophenol	400	U	(68B)	84-74-2	di-n-butyl phthalate	400	U
(65A)	108-95-2	phenol 2030	400	U	(69B)	117-84-0	di-n-octyl phthalate	400	U
	65-85-0	benzoic acid	4000	U	(70B)	84-66-2	diethyl phthalate	400	U
	95-48-7	2-methylphenol	400	U	(71B)	131-11-3	dimethyl phthalate 16800	400	U
	108-39-4	4-methylphenol	400	U	(72B)	56-55-3	benzo(a)anthracene	400	U
	95-95-4	2,4,5-trichlorophenol	4000	U	(73B)	50-32-8	benzo(a)pyrene	800	U
(1B)	83-32-9	acenaphthene	400	U	(74B)	205-99-2	benzo(b)fluoranthene	800	U
(5B)	92-87-5	benzidine	1600	U	(75B)	207-08-9	benzo(k)fluoranthene	800	U
(8B)	120-82-1	1,2,4-trichlorobenzene	400	U	(76B)	218-01-9	chrysene	1600	U
(9B)	118-74-1	hexachlorobenzene	400	U	(77B)	208-96-8	acenaphthylene	400	U
(12B)	67-72-1	hexachloroethane	400	U	(78B)	120-12-7	anthracene	400	U
(18B)	111-44-4	bis(2-chloroethyl)ether	400	U	(79B)	191-24-2	benzo(ghi)perylene	800	U
(20B)	91-58-7	2-chloronaphthalene	400	U	(80B)	86-73-7	fluorene	400	U
(25B)	95-50-1	1,2-dichlorobenzene	400	U	(81B)	85-01-8	phenanthrene 1444 K	400	
(26B)	541-73-1	1,3-dichlorobenzene	400	U	(82B)	53-70-3	dibenzo(a,h)anthracene	800	U
(27B)	106-46-7	1,4-dichlorobenzene	400	U	(83B)	193-39-5	indeno(1,2,3-cd)pyrene K	800	U
(28B)	91-94-1	3,3'-dichlorobenzidine	800	U	(84B)	129-00-0	pyrene K	400	U
(35B)	121-14-2	2,4-dinitrotoluene	800	U		62-53-3	aniline	400	U
(36B)	606-20-2	2,6-dinitrotoluene	800	U		100-51-6	benzyl alcohol	800	U
(37B)	122-66-7	1,2-diphenylhydrazine	800	U		106-47-8	4-chloroaniline	2000	U
(39B)	206-44-0	fluoranthene 7148 K	400			132-64-9	dibenzofuran	400	U
(40B)	7005-72-3	4-chlorophenyl phenyl ether	640	U		91-57-6	2-methylnaphthalene	800	U
(41B)	101-55-3	4-bromophenyl phenyl ether	400	U		88-74-4	2-nitroaniline	4000	U
(42B)	39638-32-9	bis (2-chloroisopropyl) ether	800	U		99-09-2	3-nitroaniline	4000	U
(43B)	111-91-1	bis (2-chloroethoxy) methane	800	U		100-01-6	4-nitroaniline	4000	U

Values found but below DL

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

Sample Number
E-8333

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Lab Sample ID No: 40803790
Sample Matrix: SOIL
Data Release Authorized By: David C. Hill

Case No: 3138
QC Report No:
Contract No.: 68-01-6725
Date Sample Received: 9-15-84

RECEIVED JAN 15 1985

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-22-84
DATE ANALYZED: 8-22-84
PERCENT MOISTURE: 9.6 %

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ ~~8~~ 5.6 XDL
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/kg (circle one)
(2V)	107-02-8	acrolein	170U
(3V)	107-13-1	acrylonitrile	180U
(4V)	71-43-2	benzene	5U
(6V)	56-23-5	carbon tetrachloride	6U
(7V)	108-90-7	chlorobenzene	5U
(10V)	107-06-2	1,2-dichloroethane	10U
(11V)	71-55-6	1,1,1-trichloroethane	DL=28 ~~5U~~ NDB
(13V)	75-34-3	1,1-dichloroethane	5U
(14V)	79-00-5	1,1,2-trichloroethane	5U
(15V)	79-34-5	1,1,2,2-tetrachloroethane	10U
(16V)	75-00-3	chloroethane	10U
(19V)	110-75-8	2-chloroethylvinyl ether	10U
(23V)	67-66-3	chloroform	K 25 DL=28 ~~5U~~ K
(29V)	75-35-4	1,1-dichloroethene	5U
(30V)	156-60-5	trans-1,2-dichloroethene	5U
(32V)	78-87-5	1,2-dichloropropane	10U
(33V)	10061-02-6	trans-1,3-dichloropropene	8U
	10061-01-05	cis-1,3-dichloropropene	5U
(38V)	100-41-4	ethylbenzene	8U

PP #	GAS #		ug/l or ug/kg (circle one)
(44V)	75-09-2	methylene chloride	665 594 ~~119~~ K ~~10U~~
(45V)	74-87-3	chloromethane	10U
(46V)	74-83-9	bromomethane	10U
(47V)	75-25-2	bromoform	10U
(48V)	75-27-4	bromodichloromethane	5U
(49V)	75-69-4	fluorotrichloromethane	-
(50V)	75-71-8	dichlorodifluoromethane	-
(51V)	124-48-1	chlorodibromomethane	5U
(85V)	127-18-4	tetrachloroethene	5U
(86V)	108-88-3	toluene 9K	28=DL
(87V)	79-01-6	trichloroethene	10U
(88V)	75-01-4	vinyl chloride	10U
	67-64-1	acetone	40U
	78-93-3	2-butanone	5U
	75-15-0	carbondisulfide	5U
	519-78-6	2-hexanone	5U
	108-10-1	4-methyl-2-pentanone	6U
	100-42-5	styrene	5U
	108-05-4	vinyl acetate	5U
	1330-20-7	O-xylene	5U

11V due to Helium carrier gas

Low Level Soil

Sample Number
E8333

. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
b Sample ID No: 90303390
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. Shelb
Date Sample Received: 8/15/84

RECEIVED JAN 15 1985

PESTICIDES

CONCENTRATION: [LOW] MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8/17/84
DATE ANALYZED: 10/31/84
PERCENT MOISTURE: 9.6 %

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ (1.11) (5) = 5.55
(Check Box for Appropriate Factor)
moisture correction — dilution factor

PP #	CAS #		ug/l or ug/kg (circle one)
(89P)	309-00-2	aldrin	2.0U
(90P)	60-57-1	dieldrin	2.0U
(91P)	57-74-9	chlordane	20.0U
(92P)	50-29-3	4,4'-DDT	10.0U
(93P)	72-55-9	4,4'-DDE	10.0U
(94P)	72-54-8	4,4'-DDD	10.0U
(95P)	115-29-7	α-endosulfan	2.0U
(96P)	115-29-7	β-endosulfan	10.0U
(97P)	1031-07-8	endosulfan sulfate	10.0U
(98P)	72-20-8	endrin	10.0U
(99P)	7421-93-4	endrin aldehyde	2.0U
(100P)	76-44-8	heptachlor	2.0U
(101P)	1024-57-3	heptachlor epoxide	2.0U
(102P)	319-84-6	α-BHC	10.0U
(103P)	319-85-7	β-BHC	2.0U
(104P)	319-86-8	δ-BHC	20.0U
(105P)	58-89-9	γ-BHC (lindane)	10.0U

PP #	CAS #			ug/l or ug/kg (circle one)
(106P)	53469-21-9	PCB-1242		100.0U
(107P)	11097-69-1	PCB-1254	534	~~100.0U~~
(108P)	11104-28-2	PCB-1221		100.0U
(109P)	11141-16-5	PCB-1232		100.0U
(110P)	12672-29-6	PCB-1248		100.0U
(111P)	11096-82-5	PCB-1260		100.0U
(112P)	12674-11-2	PCB-1016	505	~~100.0U~~
(113P)	8001-35-2	toxaphene		100.0U

DIOXINS

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED:
DATE ANALYZED:
PERCENT MOISTURE:

PP #	CAS #		ug/l or ug/kg (circle one)
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

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Sample Number
E8333

Organics Analysis Data Sheet
(Page 4)

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Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 95449	1,3-ISOBENZOFURANDIONE	BAN	807	3400 J
2. 128370	PHENOL, 2,6-BIS(1,1-DIMETHYLETHYL)-4-METHYL		1004	3600 J
3. 5487503	PENTADECANOIC ACID, 13-METHYL-, METHYL ESTER		1359	16000 J
4. 13481453	10-OCTADECENOIC ACID, METHYL ESTER		1437	18000 J
5. 112615	OCTADECANOIC ACID, METHYL ESTER		1444	9000 J
6. 27554263	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL ESTER		1602	31000 J
7. 27554263	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL ESTER		1626	124500 J
8. 27554263	1,2-BENZENEDICARBOXYLIC ACID, DIISOOCTYL ESTER		1627	14000 J
9.				
10.				
11.	NONE DETECTED	VOA		
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Form I. (continued).

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

Sample Number: E 8374

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Lab Sample ID No: 40903391
Sample Matrix: SOIL
Data Release Authorized By: David C. Shelly

Case No: 3138
QC Report No:
Contract No.: 68-01-[illegible]25
Date Sample Received: 8-15-84

RECEIVED JAN 15 1985

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-22-84
DATE ANALYZED: 8-22-84
PERCENT MOISTURE: 1.3

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ 2.20
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/kg (circle one)
[illegible]V)	107-02-8	acrolein	170U
[illegible]3V)	107-13-1	acrylonitrile	180U
[illegible]V)	71-43-2	benzene	5U
[illegible]V)	56-23-5	carbon tetrachloride	6U
[illegible]7V)	108-90-7	chlorobenzene	5U
[illegible]0V)	107-06-2	1,2-dichloroethane	10U
[illegible]1V)	71-55-6	1,1,1-trichloroethane carrier gas	5U K
[illegible]3V)	75-34-3	1,1-dichloroethane	5U
[illegible]4V)	79-00-5	1,1,2-trichloroethane	5U
[illegible]5V)	79-34-5	1,1,2,2-tetrachloroethane	10U
[illegible]6V)	75-00-3	chloroethane	10U
[illegible]9V)	110-75-8	2-chloroethylvinyl ether	10U
[illegible]3V)	67-66-3	chloroform 4* DL=11	5U K
[illegible]9V)	75-35-4	1,1-dichloroethene	5U
[illegible]0V)	156-60-5	trans-1,2-dichloroethene	5U
[illegible]2V)	78-87-5	1,2-dichloropropane	10U
[illegible]3V)	10061-02-6	trans-1,3-dichloropropene	8U
	10061-01-05	cis-1,3-dichloropropene	5U
[illegible]8V)	100-41-4	ethylbenzene	8U

* Value found but below DL

PP #	GAS #		ug/l or ug/kg (circle one)
(44V)	75-09-2	methylene chloride	34a ~~10~~
(45V)	74-87-3	chloromethane	10
(46V)	74-83-9	bromomethane	10
(47V)	75-25-2	bromoform	10
(48V)	75-27-4	bromodichloromethane	5
(49V)	75-69-4	fluorotrichloromethane	–
(50V)	75-71-8	dichlorodifluoromethane	–
(51V)	124-48-1	chlorodibromomethane	5
(85V)	127-18-4	tetrachloroethene	5
(86V)	108-88-3	toluene	22 ~~5~~
(87V)	79-01-6	trichloroethene	10
(88V)	75-01-4	vinyl chloride	10
	67-64-1	acetone	260 ~~[illegible]~~
	78-93-3	2-butanone	12 ~~5~~
	75-15-0	carbondisulfide	5
	519-78-6	2-hexanone	5
	108-10-1	4-methyl-2-pentanone	6
	100-42-5	styrene	5
	108-05-4	vinyl acetate	5
	1330-20-7	O-xylene	5

U.S. ENVIRONMENTAL PROTECTION AGENCY
P.O. Box 818, Alexandria, Virginia 22313 • 703/557-2490

Sample Number
E8374

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 40603391
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. [illegible]
Date Sample Received: 8-15-84

SEMIVOLATILE COMPOUNDS

RECEIVED JAN 15 1985

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-17-84
DATE ANALYZED: 10-12-84
PERCENT MOISTURE: 1.3

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ 5.06
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/kg (circle one)		PP #	CAS #		ug/l or ug/kg (circle one)	
(21A)	88-06-2	2,4,6-trichlorophenol	520	U	(52B)	87-68-3	hexachlorobutadiene	400	U
(22A)	59-50-7	p-chloro-m-cresol	400	U	(53B)	77-47-4	hexachlorocyclopentadiene	400	U
(24A)	95-57-8	2-chlorophenol	400	U	(54B)	78-59-1	isophorone	400	U
(31A)	120-83-2	2,4-dichlorophenol	400	U	(55B)	91-20-3	naphthalene	400	U
(34A)	105-67-9	2,4-dimethylphenol	400	U	(56B)	98-95-3	nitrobenzene	400	U
(57A)	88-75-5	2-nitrophenol	4800	U	(62B)	86-30-6	N-nitrosodiphenylamine	400	U
(58A)	100-02-7	4-nitrophenol	2400	U	(63B)	621-64-7	N-nitrosodipropylamine	400	U
(59A)	51-28-5	2,4-dinitrophenol	400	U	(66B)	117-81-7	bis (2-ethylhexyl) phthalate	13200 ~~400~~	~~U~~
(60A)	534-52-1	4,6-dinitro-2-methylphenol	400	U	(67B)	85-68-7	benzyl butyl phthalate	400	U
(64A)	87-86-5	pentachlorophenol	400	U	(68B)	84-74-2	di-n-butyl phthalate K	400	U
(65A)	108-95-2	phenol	400	U	(69B)	117-84-0	di-n-octyl phthalate	400	U
	65-85-0	benzoic acid	4000	U	(70B)	84-66-2	diethyl phthalate	400	U
	95-48-7	2-methylphenol	400	U	(71B)	131-11-3	dimethyl phthalate 3350	~~400~~	~~U~~
	108-39-4	4-methylphenol	400	U	(72B)	56-55-3	benzo(a)anthracene	400	U
	95-95-4	2,4,5-trichlorophenol	4000	U	(73B)	50-32-8	benzo(a)pyrene	800	U
(1B)	83-32-9	acenaphthene	400	U	(74B)	205-99-2	benzo(b)fluoranthene	800	U
(5B)	92-87-5	benzidine	1600	U	(75B)	207-08-9	benzo(k)fluoranthene	800	U
(8B)	120-82-1	1,2,4-trichlorobenzene	400	U	(76B)	218-01-9	chrysene	1600	U
(9B)	118-74-1	hexachlorobenzene	400	U	(77B)	208-96-8	acenaphthylene	400	U
(12B)	67-72-1	hexachloroethane	400	U	(78B)	120-12-7	anthracene	400	U
(18B)	111-44-4	bis(2-chloroethyl)ether	400	U	(79B)	191-24-2	benzo(ghi)perylene	800	U
(20B)	91-58-7	2-chloronaphthalene	400	U	(80B)	86-73-7	fluorene	400	U
(25B)	95-50-1	1,2-dichlorobenzene	400	U	(81B)	85-01-8	phenanthrene	400	U
(26B)	541-73-1	1,3-dichlorobenzene	400	U	(82B)	53-70-3	dibenzo(a,h)anthracene	800	U
(27B)	106-46-7	1,4-dichlorobenzene	400	U	(83B)	193-39-5	indeno(1,2,3-cd)pyrene	800	U
(28B)	91-94-1	3,3'-dichlorobenzidine	800	U	(84B)	129-00-0	pyrene	400	U
(35B)	121-14-2	2,4-dinitrotoluene	800	U		62-53-3	aniline	400	U
(36B)	606-20-2	2,6-dinitrotoluene	800	U		100-51-6	benzyl alcohol	800	U
(37B)	122-66-7	1,2-diphenylhydrazine	800	U		106-47-8	4-chloroaniline	2000	U
(39B)	206-44-0	fluoranthene	400	U		132-64-9	dibenzofuran	400	U
(40B)	7005-72-3	4-chlorophenyl phenyl ether	640	U		91-57-6	2-methylnaphthalene	800	U
(41B)	101-55-3	4-bromophenyl phenyl ether	400	U		88-74-4	2-nitroaniline	4000	U
(42B)	39638-32-9	bis (2-chloroisopropyl) ether	800	U		99-09-2	3-nitroaniline	4000	U
(43B)	111-91-1	bis (2-chloroethoxy) methane	800	U		100-01-6	4-nitroaniline	4000	U

Low Level Soil

S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

Sample Number
E 8374

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 40803371
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. Hill
Date Sample Received: 8/15/84

RECEIVED JAN 15 1985

PESTICIDES

CONCENTRATION: [LOW] MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8/17/84
DATE ANALYZED: 10/31/84
PERCENT MOISTURE: 1.3 %

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ (1.01) (2) = 2.02
(Check Box for Appropriate Factor)
moisture correction dilution factor

PP #	CAS #		ug/l or ug/kg (circle one)
(89P)	309-00-2	aldrin	2.0U
(90P)	60-57-1	dieldrin	2.0U
(91P)	57-74-9	chlordane	20.0U
(92P)	50-29-3	4,4'-DDT	10.0U
(93P)	72-55-9	4,4'-DDE	10.0U
(94P)	72-54-8	4,4'-DDD	10.0U
(95P)	115-29-7	α-endosulfan	2.0U
(96P)	115-29-7	β-endosulfan	10.0U
(97P)	1031-07-8	endosulfan sulfate	10.0U
(98P)	72-20-8	endrin	10.0U
(99P)	7421-93-4	endrin aldehyde	2.0U
(100P)	76-44-8	heptachlor	2.0U
(101P)	1024-57-3	heptachlor epoxide	2.0U
(102P)	319-84-6	α-BHC	10.0U
(103P)	319-85-7	β-BHC	2.0U
(104P)	319-86-8	δ-BHC	20.0U
(105P)	58-89-9	γ-BHC (lindane)	10.0U

PP #	CAS #		ug/l or ug/kg (circle one)
(106P)	53469-21-9	PCB-1242	100.0U
(107P)	11097-69-1	PCB-1254	(150) K ~~100.0U~~
(108P)	11104-28-2	PCB-1221	100.0U
(109P)	11141-16-5	PCB-1232	100.0U
(110P)	12672-29-6	PCB-1248	100.0U
(111P)	11096-82-5	PCB-1260	100.0U
(112P)	12674-11-2	PCB-1016	238 ~~100.0U~~
(113P)	8001-35-2	toxaphene	100.0U

DIOXINS

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED:
DATE ANALYZED:
PERCENT MOISTURE:

PP #	CAS #		ug/l or ug/kg (circle one)
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

July 1983

Environmental Protection Agency CLP Sample Management Office
P.O. Box 816 Alexandria, Virginia 22313 703/557-2490

Sample Number
E8374

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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.	103208	4-UNDECANOL, 7-ETHYL-2-METHYL	BAN	429	11000 J
2.	627930	HEXANEDIOIC ACID, DIMETHYL ESTER		705	8000 J
3.	55956371	2-HEPTEN-3-OL, 4,5-DIMETHYL		1090	6000 J
4.	5487503	PENTADECANOIC ACID, 13-METHYL-METHYL ESTER		1366	8000 J
5.		NO LIBRARY MATCH FOUND		1563	75000 J
6.					
7.					
8.					
9.	108872	Methyl Cyclohexane	VOA	350	45 J
10.	589344	3-methyl hexane		387	36 J
11.	106354	3-heptanone		467	36 J
12.	104767	2-ethyl-1-hexanol		594	>360 J
13.					
14.					
15.					
16.					
17.					
18.					
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21.					
22.					
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27.					
28.					
29.					
30.					

Form 1, Part B 4/84

Form I. (continued).

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

Sample Number
E-9375

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 40803392
QC Report No:
Sample Matrix: SOIL
Contract No.: 68-01-6725
Data Release Authorized By: David C. Stell
Date Sample Received: 8-15-84

RECEIVED JAN 15 1985

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-23-84
DATE ANALYZED: 8-23-84
PERCENT MOISTURE: 2.3 %

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ 5.1
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/kg (circle one)
(2V)	107-02-8	acrolein	170U
(3V)	107-13-1	acrylonitrile	180U
(4V)	71-43-2	benzene	5U
(6V)	56-23-5	carbon tetrachloride	6U
(7V)	108-90-7	chlorobenzene	5U
(10V)	107-06-2	1,2-dichloroethane	10U
(11V)	71-55-6	1,1,1-trichloroethane	5U ND B
(13V)	75-34-3	1,1-dichloroethane	5U
(14V)	79-00-5	1,1,2-trichloroethane	5U
(15V)	79-34-5	1,1,2,2-tetrachloroethane	10U
(16V)	75-00-3	chloroethane	10U
(19V)	110-75-8	2-chloroethylvinyl ether	10U
(23V)	67-66-3	chloroform 15.8 < DL = 26*	5U K
(29V)	75-35-4	1,1-dichloroethene	5U
(30V)	156-60-5	trans-1,2-dichloroethene	5U
(32V)	78-87-5	1,2-dichloropropane	10U
(33V)	10061-02-6	trans-1,3-dichloropropene	8U
	10061-01-05	cis-1,3-dichloropropene	5U
(38V)	100-41-4	ethylbenzene	8U

* for info only TC

PP #	CAS #		ug/l or ug/kg (circle one)
(44V)	75-09-2	methylene chloride 532	~~10U~~ ~~10U~~
(45V)	74-87-3	chloromethane	10U
(46V)	74-83-9	bromomethane	10U
(47V)	75-25-2	bromoform	10U
(48V)	75-27-4	bromodichloromethane	5U
(49V)	75-69-4	fluorotrichloromethane	--
(50V)	75-71-8	dichlorodifluoromethane	--
(51V)	124-48-1	chlorodibromomethane	5U
(85V)	127-18-4	tetrachloroethene	5U
(86V)	108-88-3	toluene	1K 5U
(87V)	79-01-6	trichloroethene	10U ~~10U~~
(88V)	75-01-4	vinyl chloride	10U
	67-64-1	acetone	40U
	78-93-3	2-butanone	5U
	75-15-0	carbondisulfide	5U
	591-78-6	2-hexanone	5U
	108-10-1	4-methyl-2-pentanone	6U
	100-42-5	styrene	5U
	108-05-4	vinyl acetate	5U
	1330-20-7	o-xylene	5U

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2090

Sample Number: E8375

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 40903392
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. Gillis
Date Sample Received: 8-15-84

SEMIVOLATILE COMPOUNDS

RECEIVED JAN 15 1985

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-17-84
DATE ANALYZED: 11-12-84
PERCENT MOISTURE: 2.3

Multiply Detection Limits by: 1 ☐ or 10 ☐ or ☒ 5.06
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/kg (circle one)	
(21A)	88-06-2	2,4,6-trichlorophenol	520	U
(22A)	59-50-7	p-chloro-m-cresol	400	U
(24A)	95-57-8	2-chlorophenol	400	U
(31A)	120-83-2	2,4-dichlorophenol	400	U
(34A)	105-67-9	2,4-dimethylphenol	400	U
(37A)	88-75-5	2-nitrophenol	4800	U
(38A)	100-02-7	4-nitrophenol	2400	U
(39A)	51-28-5	2,4-dinitrophenol	400	U
(60A)	534-52-1	4,6-dinitro-2-methylphenol	400	U
(64A)	87-86-5	pentachlorophenol	~~400~~	~~U~~
(65A)	108-95-2	phenol	K 400	~~U~~
	65-85-0	benzoic acid	4000	U
	95-48-7	2-methylphenol	400	U
	108-39-4	4-methylphenol	400	U
	95-95-4	2,4,5-trichlorophenol	~~4000~~	~~U~~
(1B)	83-32-9	acenaphthene	K 400	~~U~~
(5B)	92-87-5	benzidine	1600	U
(8B)	120-82-1	1,2,4-trichlorobenzene	400	U
(9B)	118-74-1	hexachlorobenzene	400	U
(12B)	67-72-1	hexachloroethane	400	U
(18B)	111-44-4	bis(2-chloroethyl)ether	400	U
(20B)	91-58-7	2-chloronaphthalene	400	U
(25B)	95-50-1	1,2-dichlorobenzene	400	U
(26B)	541-73-1	1,3-dichlorobenzene	400	U
(27B)	106-46-7	1,4-dichlorobenzene	400	U
(28B)	91-94-1	3,3'-dichlorobenzidine	800	U
(35B)	121-14-2	2,4-dinitrotoluene	800	U
(36B)	606-20-2	2,6-dinitrotoluene	800	U
(37B)	122-66-7	1,2-diphenylhydrazine	800	U
(39B)	206-44-0	fluoranthene	18300 ~~400~~	~~U~~
(40B)	7005-72-3	4-chlorophenyl phenyl ether	640	U
(41B)	101-55-3	4-bromophenyl phenyl ether	400	U
(42B)	39638-32-9	bis(2-chloroisopropyl) ether	800	U
(43B)	111-91-1	bis(2-chloroethoxy) methane	800	U

PP #	CAS #		ug/l or ug/kg (circle one)	
(52B)	87-68-3	hexachlorobutadiene	400	U
(53B)	77-47-4	hexachlorocyclopentadiene	400	U
(54B)	78-59-1	isophorone	~~400~~	~~U~~
(55B)	91-20-3	naphthalene	K 400	
(56B)	98-95-3	nitrobenzene	~~400~~	~~U~~
(62B)	86-30-6	N-nitrosodiphenylamine	400	U
(63B)	621-64-7	N-nitrosodipropylamine	400	U
(66B)	117-81-7	bis(2-ethylhexyl) phthalate	25100 400	U
(67B)	85-68-7	benzyl butyl phthalate	400	U
(68B)	84-74-2	di-n-butyl phthalate	400	U
(69B)	117-84-0	di-n-octyl phthalate	400	U
(70B)	84-66-2	diethyl phthalate	400	U
(71B)	131-11-3	dimethyl phthalate	10600 ~~400~~	~~U~~
(72B)	56-55-3	benzo(a)anthracene	3200 ~~400~~	~~U~~
(73B)	50-32-8	benzo(a)pyrene	800	U
(74B)	205-99-2	benzo(b)fluoranthene	9200 ~~800~~	~~U~~
(75B)	207-08-9	benzo(k)fluoranthene	~~800~~	~~U~~
(76B)	218-01-9	chrysene	K 1600	
(77B)	208-96-8	acenaphthylene	K 400	
(78B)	120-12-7	anthracene	400	U
(79B)	191-24-2	benzo(ghi)perylene	800	U
(80B)	86-73-7	fluorene	K 400	
(81B)	85-01-8	phenanthrene	22000 ~~400~~	~~U~~
(82B)	53-70-3	dibenzo(a,h)anthracene	800	U
(83B)	193-39-5	indeno(1,2,3-cd)pyrene	800	U
(84B)	129-00-0	pyrene	12600 ~~400~~	~~U~~
	62-53-3	aniline	400	U
	100-51-6	benzyl alcohol	800	U
	106-47-8	4-chloroaniline	2000	U
	132-64-9	dibenzofuran	K 400	
	91-57-6	2-methylnaphthalene	K 800	
	88-74-4	2-nitroaniline	4000	U
	99-09-2	3-nitroaniline	4000	U
	100-01-6	4-nitroaniline	4000	U

Low Level Soil

Sample Number
E8375

. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
b Sample ID No: 40803392
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. Hill
Date Sample Received: 8/15/84

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PESTICIDES

CONCENTRATION: [LOW] MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8/17/84
DATE ANALYZED: 10/31/84
PERCENT MOISTURE: 2.3

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ (1.02)(2) = 2.04
(Check Box for Appropriate Factor)
Moisture Correction Factor — Dilution Factor

PP #	CAS #		ug/l or ug/kg (circle one)
89P)	309-00-2	aldrin	2.0U
90P)	60-57-1	dieldrin	2.0U
(91P)	57-74-9	chlordane	20.0U
92P)	50-29-3	4,4'-DDT	10.0U
93P)	72-55-9	4,4'-DDE	10.0U
(94P)	72-54-8	4,4'-DDD	10.0U
95P)	115-29-7	α-endosulfan	2.0U
96P)	115-29-7	β-endosulfan	10.0U
(97P)	1031-07-8	endosulfan sulfate	10.0U
98P)	72-20-8	endrin	10.0U
99P)	7421-93-4	endrin aldehyde	2.0U
(100P)	76-44-8	heptachlor	2.0U
101P)	1024-57-3	heptachlor epoxide	2.0U
(102P)	319-84-6	α-BHC	10.0U
(103P)	319-85-7	β-BHC	2.0U
104P)	319-86-8	δ-BHC	20.0U
(105P)	58-89-9	γ-BHC (lindane)	10.0U

PP #	CAS #		ug/l or ug/kg (circle one)
(106P)	53469-21-9	PCB-1242	100.0U
(107P)	11097-69-1	PCB-1254	251 ~~100.0U~~
(108P)	11104-28-2	PCB-1221	100.0U
(109P)	11141-16-5	PCB-1232	100.0U
(110P)	12672-29-6	PCB-1248	100.0U
(111P)	11096-82-5	PCB-1260	100.0U
(112P)	12674-11-2	PCB-1016	355 ~~100.0U~~
(113P)	8001-35-2	toxaphene	100.0U

DIOXINS

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED:
DATE ANALYZED:
PERCENT MOISTURE:

PP #	CAS #		ug/l or ug/kg (circle one)
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.1U

July 1983

Environmental Protection Agency CLP Sample Management Office
P.O. Box 818 Alexandria, Virginia 22313 703/557-2490

Sample Number
E8375

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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.	5124602	PENTADECANOIC ACID, 14-METHYL-METHYL ESTER	BAN	1355	10700 J
2.	13481953	10-OCTADECENOIC ACID, METHYL ESTER	BAN	1432	13100 J
3.	192972	BENZO [e] PYRENE PAH	BAN	1797	3080 J
4.	205823	BENZO [j] FLUORANTHENE	BAN	1807	4000 J
5.	16539029	1,4-METHANONAPHTHALENE, 6,7-diethyldecahydro-, cis-	BAN	1465	20 J
6.		NO LIBRARY MATCH FOUND	BAN	2062	11200 J
7.	193395	INDENO [1,2,3-cd] PYRENE PAH	BAN	2125	5700 J
8.		NO LIBRARY MATCH FOUND	BAN	2194	4300 J
9.		NO LIBRARY MATCH FOUND	BAN	2214	6100 J
10.					
11.				(RT)	
12.	109660	Pentane	VOA	13.87	110 J
13.					
14.					
15.					
16.					
17.					
18.					
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30.					

Form 1, Part B 4/84

Form I. (continued).

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

Sample Number
E 2376

ORGANICS ANALYSIS DATA SHEET

RECEIVED JAN 15 1985

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 40903393
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: David C. [illegible]
Date Sample Received: 8-15-84

VOLATILES

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-23-84
DATE ANALYZED: 8-23-84
PERCENT MOISTURE: 4.6% = 1.05

1:10 dilution
0.5g/sample
5g normal

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ 10.5
(Check Box for Appropriate Factor) 1.05 X 10.0

04

PP #	CAS #		ug/l or ug/kg (circle one)
(2V)	107-02-8	acrolein	170U
(3V)	107-13-1	acrylonitrile	180U
(4V)	71-43-2	benzene	5U
(6V)	56-23-5	carbon tetrachloride	6U
(7V)	108-90-7	chlorobenzene	5U
(10V)	107-06-2	1,2-dichloroethane	10U
(11V)	71-55-6	1,1,1-trichloroethane DL=50	5U K
(13V)	75-34-3	1,1-dichloroethane	5U
(14V)	79-00-5	1,1,2-trichloroethane	5U
(15V)	79-34-5	1,1,2,2-tetrachloroethane	10U
(16V)	75-00-3	chloroethane	10U
(19V)	110-75-8	2-chloroethylvinyl ether	10U
(23V)	67-66-3	chloroform DL=50	5U K
(29V)	75-35-4	1,1-dichloroethene	5U
(30V)	156-60-5	trans-1,2-dichloroethene	5U
(32V)	78-87-5	1,2-dichloropropane	10U
(33V)	10061-02-6	trans-1,3-dichloropropene	8U
	10061-01-05	cis-1,3-dichloropropene	5U
(38V)	100-41-4	ethylbenzene	8U

PP #	CAS #		ug/l or ug/kg (circle one)
(44V)	75-09-2	methylene chloride 4:73	10U
(45V)	74-87-3	chloromethane	10U
(46V)	74-83-9	bromomethane	10U
(47V)	75-25-2	bromoform	10U
(48V)	75-27-4	bromodichloromethane	5U
(49V)	75-69-4	fluorotrichloromethane	--
(50V)	75-71-8	dichlorodifluoromethane	--
(51V)	124-48-1	chlorodibromomethane	5U
(85V)	127-18-4	tetrachloroethene	5U
(86V)	108-88-3	toluene DL=50	52 K
(87V)	79-01-6	trichloroethene	10U
(88V)	75-01-4	vinyl chloride	10U
	67-64-1	acetone	40U
	78-93-3	2-butanone	5U
	75-15-0	carbondisulfide	5U
	519-78-6	2-hexanone	5U
	108-10-1	4-methyl-2-pentanone	6U
	100-42-5	styrene	5U
	108-05-4	vinyl acetate	5U
	1330-20-7	total xylenes	5U

For IFO only
11V = 46 DL = 50
23V = 35 DL = 50

U.S. ENVIRONMENTAL PROTECTION AGENCY • CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 • 703/557-2090

Medium Level Soils

Sample Number
E8374

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 4-803393
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6925
Date Release Authorized By: David C. Stills
Date Sample Received: 8-15-84

SEMIVOLATILE COMPOUNDS

RECEIVED JAN 15 1985

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED: 8-17-84
DATE ANALYZED: 12-5-84
PERCENT MOISTURE: 4.6

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ 1.05
(Check Box for Appropriate Factor)

PP #	CAS #		ug/l or ug/g (circle one)
(21A)	88-06-2	2,4,6-trichlorophenol	65 U
(22A)	59-50-7	p-chloro-m-cresol	100 U
(24A)	95-57-8	2-chlorophenol	50 U
(31A)	120-83-2	2,4-dichlorophenol	50 U
(34A)	105-67-9	2,4-dimethylphenol	50 U
(57A)	88-75-5	2-nitrophenol	50 U
(58A)	100-02-7	4-nitrophenol	600 U
(59A)	51-28-5	2,4-dinitrophenol	300 U
(60A)	534-52-1	4,6-dinitro-2-methylphenol	200 U
(64A)	87-86-5	pentachlorophenol	125 U
(65A)	108-95-2	phenol	50 U
	65-85-0	benzoic acid	450 U
	95-48-7	2-methylphenol	10 U
	108-39-4	4-methylphenol	5 U
	95-95-4	2,4,5-trichlorophenol	500 U
(1B)	83-32-9	acenaphthene	50 U
(5B)	92-87-5	benzidine	200 U
(8B)	120-82-1	1,2,4-trichlorobenzene	50 U
(9B)	118-74-1	hexachlorobenzene	50 U
(12B)	67-72-1	hexachloroethane	50 U
(18B)	111-44-4	bis(2-chloroethyl)ether	50 U
(20B)	91-58-7	2-chloronaphthalene	50 U
(25B)	95-50-1	1,2-dichlorobenzene	50 U
(26B)	541-73-1	1,3-dichlorobenzene	50 U
(27B)	106-46-7	1,4-dichlorobenzene	50 U
(28B)	91-94-1	3,3'-dichlorobenzidine	50 U
(35B)	121-14-2	2,4-dinitrotoluene	50 U
(36B)	606-20-2	2,6-dinitrotoluene	50 U
(37B)	122-66-7	1,2-diphenylhydrazine	100 U
(39B)	206-44-0	fluoranthene	50 U
(40B)	7005-72-3	4-chlorophenyl phenyl ether	80 U
(41B)	101-55-3	4-bromophenyl phenyl ether	50 U
(42B)	39638-32-9	bis (2-chloroisopropyl) ether	50 U
(43B)	111-91-1	bis (2-chloroethoxy) methane	50 U

PP #	CAS #		ug/l or ug/g (circle one)
(52B)	87-68-3	hexachlorobutadiene	50 U
(53B)	77-47-4	hexachlorocyclopentadiene	50 U
(54B)	78-59-1	isophorone	50 U
(55B)	91-20-3	naphthalene	50 U
(56B)	98-95-3	nitrobenzene	50 U
(62B)	86-30-6	N-nitrosodiphenylamine	50 U
(63B)	621-64-7	N-nitrosodipropylamine	50 U
(66B)	117-81-7	bis (2-ethylhexyl) phthalate	50 U
(67B)	85-68-7	benzyl butyl phthalate	50 U
(68B)	84-74-2	di-n-butyl phthalate	50 U
(69B)	117-84-0	di-n-octyl phthalate	50 U
(70B)	84-66-2	diethyl phthalate	50 U
(71B)	131-11-3	dimethyl phthalate	50 U
(72B)	56-55-3	benzo(a)anthracene	50 U
(73B)	50-32-8	benzo(a)pyrene	100 U
(74B)	205-99-2	benzo(b)fluoranthene	125 U
(75B)	207-08-9	benzo(k)fluoranthene	100 U
(76B)	218-01-9	chrysene	200 U
(77B)	208-96-8	acenaphthylene	50 U
(78B)	120-12-7	anthracene	50 U
(79B)	191-24-2	benzo(ghi)perylene	125 U
(80B)	86-73-7	fluorene	50 U
(81B)	85-01-8	phenanthrene	125 U
(82B)	53-70-3	dibenzo(a,h)anthracene	125 U
(83B)	193-39-5	indeno(1,2,3-cd)pyrene	125 U
(84B)	129-00-0	pyrene	125 U
	62-53-3	aniline	10 U
	100-51-6	benzyl alcohol	50 U
	106-47-8	4-chloroaniline	125 U
	132-64-9	dibenzofuran	25 U
	91-57-6	2-methylnaphthalene	50 U
	88-74-4	2-nitroaniline	450 U
	99-09-2	3-nitroaniline	350 U
	100-01-6	4-nitroaniline	500 U

Medium Level Soils

U.S. ENVIRONMENTAL PROTECTION AGENCY - CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 - 703/557-2490

Sample Number
E 8376

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: Hazleton Laboratories America
Case No: 3138
Lab Sample ID No: 4080373
QC Report No:
Sample Matrix: Soil
Contract No.: 68-01-6725
Data Release Authorized By: [illegible]
Date Sample Received: 3/15/84

RECEIVED JAN 15 1985

PESTICIDES

CONCENTRATION: LOW [MEDIUM] HIGH (circle one)
DATE EXTRACTED/PREPARED: 3/21/84
DATE ANALYZED: 10/30/84
PERCENT MOISTURE: 4.6

Multiply Detection Limits by 1 ☐ or 10 ☐ or ☒ (1.05)(5) = 5.25
(Check Box for Appropriate Factor)
Moisture dilution correction factor

PP #	CAS #		ug/l ~~or ug/kg~~ (circle one)
(89P)	309-00-2	aldrin	100 U
(90P)	60-57-1	dieldrin	100 U
(91P)	57-74-9	chlordane	500 U
(92P)	50-29-3	4,4'-DDT	500 U
(93P)	72-55-9	4,4'-DDE	500 U
(94P)	72-54-8	4,4'-DDD	500 U
(95P)	115-29-7	α-endosulfan	100 U
(96P)	115-29-7	β-endosulfan	100 U
(97P)	1031-07-8	endosulfan sulfate	100 U
(98P)	72-20-8	endrin	500 U
(99P)	7421-93-4	endrin aldehyde	100 U
(100P)	76-44-8	heptachlor	100 U
(101P)	1024-57-3	heptachlor epoxide	100 U
(102P)	319-84-6	α-BHC	500 U
(103P)	319-85-7	β-BHC	100 U
(104P)	319-86-8	δ-BHC	500 U
(105P)	58-89-9	γ-BHC (lindane)	500 U

PP #	CAS #		ug/l ~~or ug/kg~~ (circle one)
(106P)	53469-21-9	PCB-1242	1000 U
(107P)	11097-69-1	PCB-1254	12,680 ~~2000 U~~
(108P)	11104-28-2	PCB-1221	1250 U
(109P)	11141-16-5	PCB-1232	1750 U
(110P)	12672-29-6	PCB-1248	2000 U
(111P)	11096-82-5	PCB-1260	2000 U
(112P)	12674-11-2	PCB-1016	12,565 ~~1000 U~~
(113P)	8001-35-2	toxaphene	2000 U

DIOXINS

CONCENTRATION: LOW MEDIUM HIGH (circle one)
DATE EXTRACTED/PREPARED:
DATE ANALYZED:
PERCENT MOISTURE:

PP #	CAS #		ug/l or ug/kg (circle one)
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	500 U

July 1983

RECEIVED JAN 1 5 1985

Environmental Protection Agency CLP Sample Management Office
P. O. Box 818 Alexandria, Virginia 22313 703/557-2490

Sample Number
E8376

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. [illegible]	[illegible] compound identification for sample [illegible]	VOA	23.2	174
2.	(Petaine)			
3.				
4.				
5.	NONE DETECTED	BAN		
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Form 1, Part B 4/84

Form I. (continued).

RECEIVED JAN 1 5 1985

DETECTION LIMIT SUMMARY
HAZARDOUS SUBSTANCE LIST COMPOUNDS

Prepared by Hazleton Raltech,INC.

Volatile Compounds

COMPOUND I.D.	LOW LEVEL DETECTION LIMIT		MEDIUM LEVEL DETECTION LIMIT		INSTRUMENTAL DETECTION LIMI
	WATER (ug/l)	SOIL (ug/kg)	WATER (ug/ml)	SOIL (ug/g)	3 times S.d. (ng on column)
acrolein	170	85	17		855
acrylonitrile	180	90	18		915
benzene	5	2.5	1		8.5
carbon tetrachloride	6	3.0	1		28
chlorobenzene	5	2.5	1		14
1,2-dichloroethane	10	5	5		10
1,1,1-trichloroethane	5	2.5	1		23
1,1-dichloroethane	5	2.5	1		4.5
1,1,2-trichloroethane	5	2.5	1		16
1,1,2,2-tetrachloroethane	10	5	1		36
chloroethane	10	5	1		18
2-chloroethylvinyl ether	10	5	1		9.5
chloroform	5	2.5	1		14
1,1-dichloroethene	5	2.5	1		26
trans-1,2-dichloroethene	5	2.5	1		14
1,2-dichloropropane	10	5	1		3.5
trans-1,3-dichloropropene	8	4	1		24
cis-1,3-dichloropropene	5	2.5	1		7
ethylbenzene	8	4	1		38
methylene chloride	10	5	1		38
chloromethane	10	5	1		21
bromomethane	10	5	1		24

RECEIVED JAN 1 5 1985

DETECTION LIMIT SUMMARY
HAZARDOUS SUBSTANCE LIST COMPOUNDS

Prepared by Hazleton Raltech, INC.

Volatile Compounds

COMPOUND I.D.	LOW LEVEL DETECTION LIMIT		MEDIUM LEVEL DETECTION LIMIT		INSTRUMENTAL DETECTION LIMIT
	WATER (ug/l)	SOIL (ug/kg)	WATER (ug/ml)	SOIL (ug/g)	3 times S.d. (ng on column)
bromoform	10	5	1		32
bromodichloromethane	5	2.5	1		25
dichlorodifluoromethane	–	–	–	–	–
chlorodibromomethane	5	2.5	1		18
tetrachloroethene	5	2.5	1		26
toluene	5	2.5	1		18
trichloroethene	10	5	1		48
vinyl chloride	10	5	1		28
acetone	40	20	1		194
2-butanone	5	2.5	1		14
carbondisulfide	5	2.5	0.5		24
2-hexanone	5	2.5	1		8.5
4-methyl-2-pentanone	6	3	1		32
styrene	5	2.5	1		13
vinyl acetate	5	2.5	1		21
o-xylene	5	2.5	1		5.5

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DETECTION LIMIT SUMMARY
HAZARDOUS SUBSTANCE LIST COMPOUNDS

Prepared by Hazleton Raltech,INC.

Acid Compounds

COMPOUND I.D.	LOW LEVEL DETECTION LIMIT		MEDIUM LEVEL DETECTION LIMIT		INSTRUMENTAL DETECTION LIMIT
	WATER (ug/l)	SOIL (ug/kg)	WATER (ug/ml)	SOIL (ug/g)	3 times S.d. (ng on column)
2,4,6-trichlorophenol	26	520	13	65	13.2
p-chloro-m-cresol	20	400	20	100	1.2
2-chlorophenol	20	400	10	50	3.0
2,4-dichlorophenol	20	400	10	50	4.2
2,4-dimethylphenol	20	400	10	50	3.6
2-nitrophenol	40	400	10	50	6.9
4-nitrophenol	240	4800	120	600	120
2,4-dinitrophenol	120	2400	60	300	57
4,6-dinitro-2-methylphenol	20	400	40	200	38
pentachlorophenol	20	400	25	125	3.9
phenol	20	400	10	50	5.4
benzoic acid	200	4000	90	450	60
2-methylphenol	20	400	2	10	1.5
4-methylphenol	20	400	1	5	0.8
2,4,5-trichlorophenol	200	4000	100	500	30

RECEIVED JAN 1 5 1985

DETECTION LIMIT SUMMARY
HAZARDOUS SUBSTANCE LIST COMPOUNDS

Prepared by Hazleton Raltech, INC.

Base/Neutral Compounds

COMPOUND I.D.	LOW LEVEL DETECTION LIMIT WATER (ug/l)	LOW LEVEL DETECTION LIMIT SOIL (ug/kg)	MEDIUM LEVEL DETECTION LIMIT WATER (ug/ml)	MEDIUM LEVEL DETECTION LIMIT SOIL (ug/g)	INSTRUMENTAL DETECTION LIMIT 3 times S.d. (ng on column)
acenaphthene	20	400	10	50	6.2
benzidine	80	1600	40	200	—
1,2,4-trichlorobenzene	20	400	10	50	0.6
hexachlorobenzene	20	400	10	50	9.0
hexachloroethane	20	400	10	50	1.5
bis(2-chloroethyl)ether	20	400	10	50	7.8
2-chloronaphthalene	20	400	10	50	6.9
1,2-dichlorobenzene	20	400	10	50	1.8
1,3-dichlorobenzene	20	400	10	50	3.9
1,4-dichlorobenzene	20	400	10	50	0.6
3,3'-dichlorobenzidine	40	800	10	50	10
2,4-dinitrotoluene	40	800	10	50	6.6
2,6-dinitrotoluene	40	800	10	50	10
1,2-diphenylhydrazine	40	800	20	100	15
fluoranthene	20	400	10	50	7.2
4-chlorophenyl phenyl ether	32	640	16	80	16.2
4-bromophenyl phenyl ether	20	400	10	50	2.5
bis(2-chloroisopropyl)ether	40	800	10	50	2.9
bis(2-chloroethoxy)methane	40	800	10	50	2.6
hexachlorobutadiene	20	400	10	50	4.8
hexachlorocyclopentadiene	20	400	10	50	1.9
isophorone	20	400	10	50	1.2

RECEIVED JAN 1 5 1985

DETECTION LIMIT SUMMARY
HAZARDOUS SUBSTANCE LIST COMPOUNDS

Prepared by Hazleton Raltech,INC.

Base/Neutral Compounds

COMPOUND I.D.	LOW LEVEL DETECTION LIMIT WATER (ug/l)	LOW LEVEL DETECTION LIMIT SOIL (ug/kg)	MEDIUM LEVEL DETECTION LIMIT WATER (ug/ml)	MEDIUM LEVEL DETECTION LIMIT SOIL (ug/g)	INSTRUMENTAL DETECTION LIMIT 3 times S.d. (ng on column)
naphthalene	20	400	10	50	2.1
nitrobenzene	20	400	10	50	1.5
N-nitrosodipropylamine	20	400	10	50	5.7
bis(2-ethylhexyl)phthalate	20	400	10	50	9.6
benzyl butyl phthalate	20	400	10	50	0.8
di-n-butyl phthalate	20	400	10	50	4.4
di-n-octyl phthalate	20	400	10	50	2.7
diethyl phthalate	20	400	10	50	3.2
dimethyl phthalate	20	400	10	50	2.4
benzo(a)anthracene	20	400	10	50	2.8
benzo(a)pyrene	40	800	20	100	16
benzo(b)fluoranthene	40	800	25	125	17
benzo(k)fluoranthene	40	800	20	100	17
chrysene	80	1600	40	200	39
acenaphthylene	20	400	10	50	5.4
anthracene	20	400	10	50	3.6
benzo(ghi)perylene	40	800	25	125	4
fluorene	20	400	10	50	4.6
phenanthrene	20	400	25	125	4.5
dibenzo(a,h)anthracene	40	800	25	125	11
indeno(1,2,3-cd)pyrene	40	800	25	125	9
pyrene	20	400	25	125	1.7

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DETECTION LIMIT SUMMARY
HAZARDOUS SUBSTANCE LIST COMPOUNDS

Prepared by Hazleton Raltech, INC.

Base/Neutral Compounds

COMPOUND I.D.	LOW LEVEL DETECTION LIMIT		MEDIUM LEVEL DETECTION LIMIT		INSTRUMENTAL DETECTION LIMIT
	WATER (ug/l)	SOIL (ug/kg)	WATER (ug/ml)	SOIL (ug/g)	3 times S.d. (ng on column)
aniline	20	400	2	10	0.9
benzyl alcohol	40	800	10	50	4.0
4-chloroaniline	100	2000	50	125	33
dibenzofuran	20	400	5	25	2.5
2-methylnaphthalene	40	800	10	50	1.7
2-nitroaniline	200	4000	90	450	63
3-nitroaniline	200	4000	70	350	45
4-nitroaniline	200	4000	100	500	52
N-nitrosodiphenylamine	20	400	10	50	6.0

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Date Received for Review: 9/27/84 Date Review Completed: 10/1/84

To: RON ST. JOHN

From: Cynthia Bachunas

Subject: PEOPLES AVE. LANDFILL (ILLINOIS)
ROS-8303-01D

Sample Description: CASE 3138 - LOW SOIL METALS

Project Data Status: STILL AWAITING ORGANICS

FIT Data Review Findings:

SEE ATTACHED CRL REVIEW FOR COMMENTS

Additional Comments:

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE 9/25/84

SUBJECT Review of Region V CLP Data
Received for Review on 9/19/84

FROM Curtis Ross, Director
Central Regional Laboratory Chuck E Illy

RECEIVED SEP 27 1984

TO Data User: FIT

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

SITE NAME Peoples Ave L.F. SMO Case No. 3138

EPA Data Set No. SF636 No. of Samples 4 D.U./Activity Numbers Y905 1C48500

CRL No. 84MS09562 to 84MS09565

SMO Traffic No. ME3271 to ME3274

Contract Laboratory: Cal Hours Required for Review: 18

Following are our findings.

Contractural:

1. No integrated value for reported Cu spike concentration is included in raw data.
2. Cu blank is 30 ppb by integration, more than ½ CRDL.
3. The Co duplicates of 246 ppb. and 250 ppb. are not listed on the duplicate sheet.
4. Pb has a very high concentration giving also an RPD of 63.
5. Se was not detected, due to high Pb and Fe, causing matrix interference. Repeat on spike 9-5-84 gave no recovery. Void results.

Interpretative:

6. Ag, analyzed by flame, was incorrectly listed for initial calibration verification; % R = 92%

DM 9-25-84

( ) 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: Dr. Alfred Haeberer/Joan Fisk/Cary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Robert Pritchard, CLP/SMO

EPA FORM 1320-6 (REV 3-76)

California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

SF636

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U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

DATE REPORTED: 9/13/84
Date Received: 8/15/84

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name: Cal Labs

Case No.: 3138
Q.C. Report No.: 3138

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
ME3271	P1367	ME3272	P1368
ME3273	P1369	ME3274	P1370

Comments: Please review the spiked recovery limits form for elements that were not within control limits.

ICP Interelement and background corrections applied? Yes.

Footnotes:

NR - not required by contract at this time
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 analytical method used with P (for ICP/Flame AA), F (for furnace), or CV (for cold vapor).
U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., <10U).
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.
Under - Indicates spike sample recovery is under control limit.
Over - Indicates spike sample recovery is over control limit.
O - Indicates spike sample recovery is within control limit.

Mark Masino by [illegible]
Mark Masino
Director of Inorganic Services

Anthony S. Wong
Anthony S. Wong, PhD
Vice President
Research and Analytical Services

RECEIVED SEP 2 7 1984

P1367
~~MB3272~~ Ho
3271

SPIKED SAMPLE RECOVERY LIMITS

CASE NO. 3138

ILYSIS METHOD	INORGANIC SPECIES	QC LIMITS	OUTSIDE LIMITS	COMMENTS
ICP	Aluminum	80-120		
	Barium	80-120		
	Beryllium	80-120		
	Chromuim	80-120		
	Cobalt	80-120		
	Copper	80-120		
	Iron	80-120		
	Manganese	80-120		
	Nickel	80-120		
	Silver	80-120		
	Vanadium	80-120		
	Zinc	80-120		
AA	Arsenic	75-125		
	Antimony	75-125		
	Cadmium	75-125		
	Lead	75-125		
	Mercury	75-125		
	* Selenium	75-125	0	matrix interference
	Thallium	75-125		
	Tin	75-125		
ther Analyses	Ammonia	80-120		
	Cyanide	80-120		
	Sulfide	80-120		

* many additional runs applied but still unable to obtain a good recovery. Ho 9/13/84

_____ All spikes within QC limits.

pproved_____ Date_____

FORM 1

RECEIVED SEP 27 1984
84MS09562

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
ME 3271

DATE 9-13-84

INORGANIC ANALYSIS DATA SHEET

LAB NAME CAL LABS

CASE NO. 3138

CONTRACT NO. 68-01-6873 10B

LAB SAMPLE ID NO. P1367

QC REPORT NO. 3138

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water _____ Soil ✓ Sludge _____ Other _____

CAL SAMPLE #		P1367
METAL,	METHOD	MG/KG
1. ALUMINIUM...	P	3300
2. ANTIMONY....	F	1.4
3. ARSENIC.....	F	11
4. BARIUM.....	P	136
5. BERYLLIUM...	P	0.32
6. CADMIUM.....	P	14
6. CADMIUM.....	F	N/R
7. CALCIUM.....	P	N/R
8. CHROMIUM....	P	134
9. COBALT.....	P	13
10.COPPER.....	P	259
11.IRON.....	P	147000
12.LEAD.....	P	11350
12.LEAD.....	F	N/R
13.MAGNESIUM...	P	N/R
14.MANGANESE...	P	1150
15.MERCURY....	CV	<0.09 U
16.NICKEL.....	P	102
17.POTASSIUM...	P	N/R
18.SELENIUM....	F	<0.1 U
19.SILVER.....	P	1
20.SODIUM.....	P	N/R
21.THALLIUM....	F	<0.13 U
22.TIN.....	F	18
23.VANADIUM....	P	13
24.ZINC.....	P	297
26.% SOLID.....		N/R

Comments: _____

Lab Manager:

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FORM I

84MS09563

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
ME3272

DATE 9-13-84

INORGANIC ANALYSIS DATA SHEET

LAB NAME CAL LABS

CASE NO. 3138

CONTRACT NO. 68-01-6873 10B

LAB SAMPLE ID NO. P1368

QC REPORT NO. 3138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

CAL SAMPLE #	P1368
METAL, METHOD	MG/KG
1. ALUMINIUM...P	3850
2. ANTIMONY....F	1.2
3. ARSENIC.....F	5
4. BARIUM.....P	37
5. BERYLLIUM...P	[0.08]
6. CADMIUM.....P	N/R
6. CADMIUM.....F	0.27
7. CALCIUM.....P	N/R
8. CHROMIUM....P	108
9. COBALT.....P	8
10.COPPER.....P	111
11.IRON.....P	200500
12.LEAD.....P	820
12.LEAD.....F	N/R
13.MAGNESIUM...P	N/R
14.MANGANESE...P	1350
15.MERCURY....CV	<0.09 U
16.NICKEL.....P	70
17.POTASSIUM...P	N/R
18.SELENIUM....F	<0.1 U
19.SILVER.....P	[0.25]
20.SODIUM.....P	N/R
21.THALLIUM....F	<0.13 U
22.TIN.....F	1.7
23.VANADIUM....P	12
24.ZINC.....P	60
26.% SOLID.....	N/R

Comments: ____

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84M509564

FORM I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No.
ME3273

DATE 9-13-84

INORGANIC ANALYSIS DATA SHEET

LAB NAME CAL LABS

CASE NO. 3138

CONTRACT NO. 68-01-6873 10B

LAB SAMPLE ID NO. P1369

QC REPORT NO. 3138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

CAL SAMPLE #	P1369
METAL, METHOD	MG/KG
1. ALUMINIUM...P	2300
2. ANTIMONY....F	<0.38 U
3. ARSENIC.....F	5.5
4. BARIUM.....P	24
5. BERYLLIUM...P	<0.017 U
6. CADMIUM.....P	N/R
6. CADMIUM.....F	0.16
7. CALCIUM.....P	N/R
8. CHROMIUM....P	80
9. COBALT.....P	5.5
10.COPPER.....P	106
11.IRON.....P	128000
12.LEAD.....P	90
12.LEAD.....F	N/R
13.MAGNESIUM...P	N/R
14.MANGANESE...P	930
15.MERCURY....CV	<0.09 U
16.NICKEL.....P	55
17.POTASSIUM...P	N/R
18.SELENIUM....F	<0.1 U
19.SILVER.....P	[0.25]
20.SODIUM.....P	N/R
21.THALLIUM....F	<0.13 U
22.TIN.....F	4.6
23.VANADIUM....P	[6.5]
24.ZINC.....P	34
26.% SOLID.....	N/R

Comments: ____

Lab Manager: [illegible]

RECEIVED SEP 27 1984

FORM 1

84MS09565

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. ME3274

DATE 9-13-84

INORGANIC ANALYSIS DATA SHEET

LAB NAME CAL LABS

CASE NO. 3138

CONTRACT NO. 68-01-6873 10B

LAB SAMPLE ID NO. P1370

QC REPORT NO. 3138

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

CAL SAMPLE #	P1370
METAL, METHOD	MG/KG
1. ALUMINIUM...P	8300
2. ANTIMONY....F	[0.65]
3. ARSENIC.....F	15
4. BARIUM.....P	122
5. BERYLLIUM...P	0.85
6. CADMIUM.....P	37
6. CADMIUM.....F	N/R
7. CALCIUM.....P	N/R
8. CHROMIUM....P	45
9. COBALT.....P	4.2
10.COPPER.....P	55
11.IRON.....P	21100
12.LEAD.....P	139
12.LEAD.....F	N/R
13.MAGNESIUM...P	N/R
14.MANGANESE...P	1950
15.MERCURY....CV	<0.09 U
16.NICKEL.....P	15
17.POTASSIUM...P	N/R
18.SELENIUM....F	<0.1 U
19.SILVER.....P	[0.45]
20.SODIUM.....P	N/R
21.THALLIUM....F	<0.13 U
22.TIN.....F	4.6
23.VANADIUM....P	15
24.ZINC.....P	590
26.% SOLID.....	N/R

Comments: ____

Lab Manager: ____

ANALYTICAL RESULTS
FOR
FIT GROUNDWATER SAMPLES TAKEN
APRIL 24-25, 1985
AT PEOPLE'S AVENUE LANDFILL
ROCKFORD, IL

TABLE OF MONITORING WELL NUMBERS
AND MATCHING SAMPLE TRAFFIC NUMBERS

Well Number	Organic Number	Inorganic Number
G-101	ED161	MED 354
G-101 Dup	ED023	ME 3826
G-102	ED162	ME 3801
G-103	ED163	ME 3802
G-104	ED001	ME 3803
MW-1A	ED002	ME 3804
MW-1B	ED003	ME 3805
MW-1B Dup	ED022	ME 3825
MW-2A	ED004	ME 3806
MW-2B	ED005	ME 3807
MW-3A	ED006	ME 3808
MW-3B	ED007	ME 3809
MW-4A	ED008	ME 3810
MW-4B	ED009	ME 3811
MW-5A	ED010	ME 3812
MW-5B	ED011	ME 3814
MW-6 (Deep)	ED012	ME 3815
MW-7	ED013	ME 3816
MW-8	ED014	ME 3817
MW-9	ED015	ME 3818
MW-10	ED016	ME 3819
MW-11 (Deep)	ED017	ME 3820
MW-12A	ED018	ME 3821
MW-12B	ED019	ME 3822
MW-13	ED020	ME 3823
MW-14	ED021	ME 3824
Blank 1	ED024	ME 3827
Blank 2	ED025	ME 3828
Drilling Mud	ED026	ME 3829

Note: Well number followed by "A" indicates deep well, "B" indicates shallow well in well nest. All others are shallow unless indicated.

Site Name / TDD#: Peoples Ave / IPC / RS-8303-16

Case Number : 4214

Sampling Date: 4-25-85

Sampling Time: 940

Sample/Station Location: W-1/G-101

Organic Traffic Number E D 161 Tags: 5-013421→426

Inorganic Traffic Number ME D 354

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: organics & Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, metals filtered to .45um and preserved w/5ml HNO_3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH=7, Temp=15°C, conductivity=1300 micromhos

Sampling Date: 4-25-85

Sampling Time: 850

Sample/Station Location: W-2/G-102

Organic Traffic Number E D 162 Tags: 5-013427→431

Inorganic Traffic Number ME 3801

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C. Cyanides preserved w/NaOH to PH~12, metals filtered to .45um and preserved w/5ml HNO_3 to PH~2.

Instrument Readings (i.e. - ph, conductivity...): PH=7, Temp=17.0°C

Site Name / TDDI: Peoples Ave - IPC / RS-8303-16

Case Number : 4214

Sampling Date: 4-25-85

Sampling Time: 845

Sample/Station Location: W-3/G-103

Organic Traffic Number ED 163 Tags: S-013433 → 438

Inorganic Traffic Number ME 3802

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics & Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH=7, Temp=14.0°C, Conductivity=450 micromhos

Sampling Date: 4-25-85

Sampling Time: 930

Sample/Station Location: W-4/G-104

Organic Traffic Number ED 001 Tags S-013439 → 444

Inorganic Traffic Number ME 3803

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics & Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um, and preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH=7, Temp=16.0°C

Site Name / TDD#: Peoples Ave-IPC/RS-8303-1C

Case Number : 4214

Sampling Date: 4-24-85

Sampling Time: 1045

Sample/Station Location: W-5/MW-1A

Organic Traffic Number ED 002 Tags: 5-013445-450

Inorganic Traffic Number ME 3804

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 15.5°C

Conductivity = 500 micromhos

Sampling Date: 4-24-85

Sampling Time: 1055

Sample/Station Location: W-6/MW-1B

Organic Traffic Number ED 003 Tags: 130001→006

Inorganic Traffic Number ME 3805

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH = 7 Temp = 15.0°C

te Name / TDD#: Peoples Ave IPC / RS-8303-1C

ase Number : 4214

mpling Date: 4-24-85

ampling Time: 940

mple/Station Location: W-7 / MW-2A

Organic Traffic Number ED 004 Tags: 5-130007 → 012

Inorganic Traffic Number ME 3806

High Hazard Traffic Number E

hysical Description

At time of collection: Ground Water

Physical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 16°C

Conductivity = 900 micromhos

Sampling Date: 4-24-85

Sampling Time: 950

Sample/Station Location: W-8 / MW-2B

Organic Traffic Number ED 005 Tags: 5-130013 → 018

Inorganic Traffic Number ME 3807

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH = 7 Temp = 16°C

te Name / IDDI: Peoples Ave IPC / RS-8303-1C
ase Number : 4214
mpling Date: 4-24-85
ampling Time: 930
mple/Station Location: W-9 / MW-3A

Organic Traffic Number ED 006 Tags: 5-130019 → 024
Inorganic Traffic Number ME 3808
High Hazard Traffic Number E

ysical Description
t time of collection: Ground Water

Physical Changes (if any)
om time of collection until shipment: Organics and Cyanides iced to 4°C
Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2
Instrument Readings (i.e. - pH, conductivity...):
PH = 7 Temp = 14.5°C
Conductivity = 1400 micromhos

Sampling Date: 4-24-85
ampling Time: 945
Sample/Station Location: W-10 / MW-3B

Organic Traffic Number ED 007 Tags: 5-130025 → 030
Inorganic Traffic Number ME 3809
High Hazard Traffic Number E

Physical Description
t time of collection: Ground Water

Physical Changes (if any)
From time of collection until shipment: Organics and Cyanides iced to 4°C
Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2
Instrument Readings (i.e. - ph, conductivity...): PH = 7 Temp = 14.5°C

le Name / TDDI: Peoples Ave-IPC/RS-8303-1C

ase Number : 4214

mpling Date: 4-24-85

ampling Time: 1100

mple/Station Location: W-11 / MW-4A

Organic Traffic Number ED 008 Tags: 5-130031→036

Inorganic Traffic Number ME 3810

High Hazard Traffic Number E

ysical Description

t time of collection: Ground Water

hysical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

nstrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 15.0°C

Conductivity = 500 micromhos

Sampling Date: 4-24-85

ampling Time: 1110

Sample/Station Location: W-12 / MW-4B

Organic Traffic Number ED 009 Tags: 5-130037→042

Inorganic Traffic Number ME 3811

High Hazard Traffic Number E

Physical Description

t time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH: 7 Temp = 15.0°C

te Name / TDD#: Peoples Ave-IPC/RS-8303-1C

Case Number : 4214

Sampling Date: 4-25-85

Sampling Time: 1130

Sample/Station Location: W-13 / MW-5A

Organic Traffic Number ED 010 Tags: 5-130043 → 048

Inorganic Traffic Number ME 3812

High Hazard Traffic Number E

hysical Description

At time of collection: Ground Water

Physical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 15.0 °C

Conductivity = 400 micromhos

Sampling Date: 4-25-85

Sampling Time: 1140

Sample/Station Location: W-14 / MW-5B

Organic Traffic Number ED 011 Tags: 5-130049 → 050

Inorganic Traffic Number ME 3814 5-130701 → 704

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH = 7 Temp = 17.0°C

te Name / TDD#: Peoples Ave IPC / RS-8303-1C

Case Number : 4214

Sampling Date: 4-25-85

Sampling Time: 1030

Sample/Station Location: W-15 / MW-6

Organic Traffic Number ED 012 Tags: 5-130705→710

Inorganic Traffic Number ME 3815

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 14°C

Conductivity = 500 micromhos

Sampling Date: 4-24-85

Sampling Time: 1130

Sample/Station Location: W-16 / MW-7 (Sample Matrix Spike)

Organic Traffic Number E D 013 Tags: 5-130711→716

Inorganic Traffic Number ME 3816 5-130793→796

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH: 6 Temp = 12.0°C

te Name / TDD#: Peoples Ave-IPC/RS-8303-1C

ase Number : 4214

mpling Date: 4-24-85

Sampling Time: 1135

mple/Station Location: W-17/MW-8

Organic Traffic Number ED 014 Tags: 5-130717→722

Inorganic Traffic Number ME 3817

High Hazard Traffic Number E —

hysical Description

At time of collection: Ground Water

Physical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 11°C

Conductivity = 450 micromhos

Sampling Date: 4-24-85

Sampling Time: 1300

Sample/Station Location: W-18/MW-9

Organic Traffic Number ED 015 Tags: 5-130723→728

Inorganic Traffic Number ME 3818

High Hazard Traffic Number E —

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH = 7 Temp = 14.5°C,

ite Name / IDD#: Peoples Ave IPC / RS-8303-1C

Case Number : 4214

ampling Date: 4-24-85

Sampling Time: 1230

ample/Station Location: W-19 / MW-10

Organic Traffic Number ED 016

Inorganic Traffic Number ME 3819

High Hazard Traffic Number E

Tags: 5-130729 → 734

hysical Description

At time of collection: Ground Water

Physical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 15.0°C

Conductivity = 2600 micromhos

Sampling Date: 4-25-85

Sampling Time: 1100

Sample/Station Location: W-20 / MW-11

Organic Traffic Number ED 017

Inorganic Traffic Number ME 3820

High Hazard Traffic Number E

Tags: 5-130735-740

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH = 7 Temp = 17.0°C

te Name / TDD#: Peoples Ave-IPC/RS-8303-1C

Case Number : 4214

mpling Date: 4-25-85

Sampling Time: 1145

mple/Station Location: W-21/MW-12A

Organic Traffic Number E D 018 Tags: 5-130741→746

Inorganic Traffic Number ME 3821

High Hazard Traffic Number E

hysical Description

At time of collection: Ground Water

Physical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 14.0°C

Conductivity = 450 micromhos

Sampling Date: 4-25-85

Sampling Time: 1155

Sample/Station Location: W-22/MW-12B

Organic Traffic Number E D 019 Tags: 5-130747→752

Inorganic Traffic Number ME 3822

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH: 7 Temp = 15.0°C

Site Name / TDDI: Peoples Ave IPC / RS-8303-16

Case Number : 4214

Sampling Date: 4-25-85

Sampling Time: 1115

Sample/Station Location: W-23 / MW-13

Organic Traffic Number ED 020 Tags: S-130757→758

Inorganic Traffic Number ME 3823

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 17.0°C

Conductivity = 900 micromhos

Sampling Date: 4-25-85

Sampling Time: 1010

Sample/Station Location: W-24 / MW-14

Organic Traffic Number ED 021 Tags: S-130759→764

Inorganic Traffic Number ME 3824

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH: 7 Temp = 16.5°C

te Name / TDD#: Peoples Ave-IPC/RS-8303-1C

ase Number : 4214

mpling Date: 4-24-85

ampling Time: 1055

mple/Station Location: W-25 / Duplicate-1 (MW-1B)

Organic Traffic Number ED 022 Tags: 5-130765→770

Inorganic Traffic Number ME 3825

High Hazard Traffic Number E

hysical Description

At time of collection: Ground Water

Physical Changes (if any)

rom time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

nstrument Readings (i.e. - pH, conductivity...):

PH = 7 Temp = 15.0°C

Conductivity = 1500 micromhos

Sampling Date: 4-25-85

ampling Time: 940

Sample/Station Location: W-26 / Duplicate-2 (G-101)

Organic Traffic Number ED 023 Tags: 5-130771→776

Inorganic Traffic Number ME 3826

High Hazard Traffic Number E

Physical Description

At time of collection: Ground Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides preserved w/NaOH to PH~12, Metals filtered to .45 um and Preserved w/5ml HNO3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH = 6 Temp = 15.5°C,

ite Name / TDD#: Peoples Ave -JPC / RS-8303-16

Case Number : 42H

Sampling Date: 4-24-85

Sampling Time: 1105

Sample/Station Location: W-27/ Blank-1

Organic Traffic Number ED 024

Inorganic Traffic Number ME 3827

High Hazard Traffic Number E —

Tags: 5-130777→782

Physical Description

At time of collection: Distilled Water

Physical Changes (if any)

From time of collection until shipment: Organics and Cyanides iced to 4°C Cyanides Preserved w NaOH to PH~12, Metals preserved w/5ml HNO_3 to PH~2

Instrument Readings (i.e. - pH, conductivity...):

PH=5, Temp=15.5°C

Conductivity=0 microhos

Sampling Date: 4-25-85

Sampling Time: 900

Sample/Station Location: W-28/ Blank-2

Organic Traffic Number ED 025

Inorganic Traffic Number ME 3828

High Hazard Traffic Number E —

Tags: 5-130783→788

Physical Description

At time of collection: Distilled Water

Physical Changes (if any)

From time of collection until shipment: Organics & Cyanides iced to 4°C Cyanides Preserved w/NaOH to PH~12, metals preserved w/5 ml HNO_3 to PH~2

Instrument Readings (i.e. - ph, conductivity...): PH=5 Temp=13.0°C

Site Name / TDD#: Peoples Ave-IPC / RI-8307-16

Case Number : 4214

Sampling Date: 1-31-85 (shipped 4-25-85)

Sampling Time: 1050

Sample/Station Location: S-1/W-3

Organic Traffic Number ED 026 Tags: 5-130789 → 792

Inorganic Traffic Number ME 3829

High Hazard Traffic Number E —

Physical Description

At time of collection: Drilling revert

Physical Changes (if any)

From time of collection until shipment: Organics iced to 4°C

Metals preserved w/5ml HNO_3 to pH ~ 2

Instrument Readings (i.e. - pH, conductivity...): None

Sampling Date:

Sampling Time:

Sample/Station Location:

Organic Traffic Number E

Inorganic Traffic Number ME

High Hazard Traffic Number E

Physical Description

At time of collection:

Physical Changes (if any)

From time of collection until shipment:

Instrument Readings (i.e. - ph, conductivity...):

ecology and environment, inc.
223 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60606, TEL. 312-663-9415
International Specialists in the Environmental Sciences

Date Received for Review: 7-8-85 Date Review Completed: 7-11-85

To: Kevin Phillips

From: Cynthia Bachunas/Cindy Pugh

Subject: Peoples Ave. Dump (Illinois)
(R5-8303-16)

Sample Description: CASE 4214- Low Water Organics

Project Data Status: Still awaiting Low Water Metals + Cyanide

FIT Data Review Findings:

Data acceptable with qualifications noted on attached review sheet.

Additional Comments:

* Also, the following percent differences exist between sample (ED003) and duplicate (ED022): vinyl chloride 40%, Chloroethane 100%, 51% 1,1, Dichloroethane, and 46% Trans-1,2-Dichloroethene.
% differences between sample (ED161) and duplicate (ED023): 100% vinyl chloride, 18% 1,1, Dichloroethane, 33% 1,1,1 Trichloroethane 15% trichloroethene, and 24% tetrachloroethene
*Data for these compounds may be unusable.

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 7/1/85

RECEIVED JUL 0 8 1985

SUBJECT: Review of Region V CLP Data
Received for Review on 5-29-85

FROM: Curtis Ross, Director (5SCRL)
Central Regional Laboratory
Francis Thomas

TO: Data User: FIT

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

SITE NAME: Peoples Ave. Dump SMO Case No. 4214

EPA Data Set No. SF 2292 No. of Samples: 29 D.U./Activity Numbers Y905/C48500

CRL No. 85FP05S99 to 85FP06S24

SMO Traffic No. ED001 - ED026 ED161 — ED163

CLP Laboratory: Cal Hrs. Required for Review: 19

Following are our findings.

1. SAMPLE HOLDING TIMES FOR THE VOA FRACTION OF SAMPLE ED017 WERE EXCEEDED BY 3 DAYS. THEREFORE, ~~ACCURATE~~ ALL COMPOUNDS FOR THE VOA FRACTION WERE FLAGGED AS ESTIMATED.

2. SAMPLE HOLDING TIMES FOR THE VOA FRACTIONS RERUN ON 5-8-85 WERE EXCEEDED BUT SINCE THESE RUNS WERE ONLY FOR QUANTIFYING VINYL CHLORIDE AND CHLOROETHANE THEY ARE ACCEPTABLE.

3. THE MEDIUM LEVEL SOIL VOA BLANK HAD HIGH LEVELS OF METHYLENE CHLORIDE, ACETONE AND 2-BUTANONE

4. FIELD DUPLICATES: 85FP06S22 AND 85FP06D22 WERE IN AGREEMENT 85FP06D02 HAD CONSISTANTLY LOWER VALUES THAN 85FP06S02.

CONTINUED →

Patrick J. Churilla
6-25-85

( ) 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: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

EPA FORM 1320-6 (REV 3-78)

RECEIVED JUL 0 8 1985

DATA QUALIFIERS

Contractor: CAL

Case 4214

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

5. VOA INITIAL AND CONTINUING CALIBRATIONS: THERE WERE SIX COMPOUNDS THAT HAD CONSISTANTLY LOW RESPONSE FACTORS. 2 SPCC COMPOUNDS; CHLOROMETHANE AND BROMOFORM AND 4 HSL COMPOUNDS; 2-BUTANONE, VINYL ACETATE, BROMODICHLOROMETHANE AND 2-CHLOROETHYL VINYL ETHER.

6. THE ABN INITIAL CALIBRATION WAS VERY GOOD WITH ONLY 4-CHLOROANILINE HAVING A %RSD > 30% ALL SPCC & CCC WERE OK

7. ABN CONTINUING CALIBRATION 5-17-85 SPCC & CCC OK
5 HSL COMPOUNDS HAD %D > 25%

8. ABN CONTINUING CALIBRATION 5-20-85 7:11
CCC COMPOUND 2-NITROPHENOL HAD A %D = 25.6%
13 HSL COMPOUNDS HAD %D > 25%

9. ABN CONTINUING CALIBRATION 5-20-85 19:38
CCC COMPOUND 2-NITROPHENOL HAD A %D = 33.2%
15 HSL COMPOUNDS HAD %D > 25%

Reviewed by: [signature]

Phone: 353-2720

Date: 6-25-85

RECEIVED JUL 0 8 1985

DATA QUALIFIERS

Contractor: CAL

Case 4214

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

10. ABN CONTINUING CALIBRATION 5-21-85 6:22

CCC COMPOUNDS 2-NITROPHENOL AND N-NITROSODIPHENYLAMINE HAD %D >25%

18 HSL COMPOUNDS HAD %D >25%

11. ABN CONTINUING CALIBRATION 5-21-85 17:14

CCC COMPOUNDS 2-NITROPHENOL AND N-NITROSODIPHENYLAMINE HAD %D >25%

17 HSL COMPOUNDS HAD %D >25%

12. ABN CONTINUING CALIBRATION 5-22-85 6:04

CCC COMPOUNDS 2-NITROPHENOL AND N-NITROSODIPHENYLAMINE HAD %D >25%

19 HSL COMPOUNDS HAD %D >25%

13. ABN CONTINUING CALIBRATION 5-23-85 6:05

CCC COMPOUNDS 2-NITROPHENOL AND N-NITROSODIPHENYLAMINE HAD %D >25%

17 HSL COMPOUNDS HAD %D >25%.

ALL INITIAL AND CONTINUING CALIBRATION OUTLIERS WERE FLAGGED AS ESTIMATED.

Reviewed by: Patrick J. Chenille

Phone: 353-2720

Date: 6-25-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED001

85FP05599

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L794
QC Report No: 71
Sample Matrix: Water
Contract No: 68-01-6958
Data Release Authorized By:
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 5 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	50 UJ
74-83-9	Bromomethane	50 U
75-01-4	Vinyl Chloride	55 J
75-00-3	Chloroethane	50 U
75-09-2	Methylene Chloride	~~25 JB~~ 75 UJ
67-64-1	Acetone	~~50 JB~~ 38 UJ
75-15-0	Carbon Disulfide	25 U J
75-35-4	1,1-Dichloroethene	26
75-34-3	1,1-Dichloroethane	1300
156-60-5	Trans-1,2-Dichloroethene	1300
67-66-3	Chloroform	25
107-06-2	1,2-Dichloroethane	25 U
78-93-3	2-Butanone	~~50 JB~~ 30 UJ
71-55-6	1,1,1-Trichloroethane	1300
56-23-5	Carbon Tetrachloride	25 U
108-05-4	Vinyl Acetate	50 U J
75-27-4	Bromodichloromethane	25 U J

PJC 6-25-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	25 U
78-87-5	1,2-Dichloropropane	25 U
10061-02-6	Trans-1,3-Dichloropropene	25 U
79-01-6	Trichloroethene	110
124-48-1	Dibromochloromethane	25 U
79-00-5	1,1,2-Trichloroethane	25 U
71-43-2	Benzene	25 U
10061-01-5	cis-1,3-Dichloropropene	25 U
110-75-8	2-Chloroethylvinylether	50 U J
75-25-2	Bromoform	25 U J
591-78-6	2-Hexanone	50 U
108-10-1	4-Methyl-2-Pentanone	50 U
127-18-4	Tetrachloroethene	38
108-88-3	Toluene	25 U
108-90-7	Chlorobenzene	25 U
100-41-4	Ethylbenzene	25 U
100-42-5	Styrene	25 U
	Total Xylenes	25 U

PJC 6-25-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 001RE

Organics Analysis Data Sheet
(Page 1)

G-104
RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L794 RE
QC Report No: 71
Sample Matrix: Water
Contract No: 68-01-6958
Data Release Authorized By: MGM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/8/85
Date Analyzed: 5/8/85
Conc/Dil Factor: 5 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	50 U
74-83-9	Bromomethane	50 U
75-01-4	Vinyl Chloride	88
75-00-3	Chloroethane	50 U
75-09-2	Methylene Chloride	25 U
67-64-1	Acetone	50 U
75-15-0	Carbon Disulfide	25 U
75-35-4	1,1-Dichloroethene	27
75-34-3	1,1-Dichloroethane	2400
156-60-5	Trans-1,2-Dichloroethene	1500
67-66-3	Chloroform	27
107-06-2	1,2-Dichloroethane	25 U
78-93-3	2-Butanone	~~50 J~~ 22 J
71-55-6	1,1,1-Trichloroethane	2100
56-23-5	Carbon Tetrachloride	25 U
108-05-4	Vinyl Acetate	50 U J
75-27-4	Bromodichloromethane	25 U J

PSC 6-27-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	25 U
78-87-5	1,2-Dichloropropane	25 U
10061-02-6	Trans-1,3-Dichloropropene	25 U
79-01-6	Trichloroethene	130
124-48-1	Dibromochloromethane	25 U
79-00-5	1,1,2-Trichloroethane	25 U
71-43-2	Benzene	25 U
10061-01-5	cis-1,3-Dichloropropene	25 U
110-75-8	2-Chloroethylvinylether	50 U J
75-25-2	Bromoform	25 U J
591-78-6	2-Hexanone	50 U
108-10-1	4-Methyl-2-Pentanone	50 U
127-18-4	Tetrachloroethene	47
108-88-3	Toluene	25 U
108-90-7	Chlorobenzene	25 U
100-41-4	Ethylbenzene	25 U
100-42-5	Styrene	25 U
	Total Xylenes	25 U

PSC 6-27-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 001

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 500 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	32 U J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

PJS 6-24

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJS 6-24-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED001

6-104

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED001,

QC REPORT NO. 71 LAB SAMPLE NO. L79401AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	127-18-4	ETHENE, TETRACHLORO-	A/BN	251	974	42.6 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	806	936	268.0 UG/L
3.	33599-35-8	BENZOTHIAZOLIUM, 5-CHLORO-3-ETH	A/BN	1731	160	2.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHENE, TETRACHLORO-	1. D	1.
2. 2H-AZEPIN-2-ONE, HEXAHYDRO-	2. A	2.
3. BENZOTHIAZOLIUM, 5-CHLORO-3-ETH	3. C	3.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 002

SEE RERUN ED002

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L780

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MOM

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 4/29/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4 *	Vinyl Chloride	20
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 3.7 WJ
67-64-1	Acetone	100 ~~U~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5.2
75-34-3	1,1-Dichloroethane	48
156-60-5	Trans-1,2-Dichloroethene	160
67-66-3	Chloroform	~~5 J~~ 2.3 J
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 J
71-55-6	1,1,1-Trichloroethane	39
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6 *	Trichloroethene	5.9
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 1.4 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 2.6 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 002 RE | MW-14

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L780 RE
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: [illegible]
Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/8/85
Date Analyzed: 5/8/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		Compound	ug/L
74-87-3		Chloromethane	10 U
74-83-9		Bromomethane	10 U
75-01-4		Vinyl Chloride	16 20
75-00-3		Chloroethane	10 U
75-09-2		Methylene Chloride	~~5 J~~ 2.5 J
67-64-1		Acetone	130 ~~B~~ J
75-15-0		Carbon Disulfide	5 U
75-35-4		1,1-Dichloroethene	~~5 J~~ 4.7 J
75-34-3	*	1,1-Dichloroethane	52
156-60-5	*	Trans-1,2-Dichloroethene	170
67-66-3		Chloroform	~~5 J~~ 2.2 J
107-06-2		1,2-Dichloroethane	5 U
78-93-3		2-Butanone	10 U J
71-55-6	*	1,1,1-Trichloroethane	45
56-23-5		Carbon Tetrachloride	5 U
108-05-4		Vinyl Acetate	10 U J
75-27-4		Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number	Compound	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5.8 5.9
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 1.1 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 2.3 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 002

MW-1A

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/17/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NA
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U J
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U
95-50-1	1,2-Dichlorobenzene	10 U J
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U
105-67-9	2,4-Dimethylphenol	10 U
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	~~10 J~~ 2.8 J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 6.8
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute / Analyzed as a single compound

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ED 002

MW-1A

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-8	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

NAME: CAL CASE NO. 4214 SAMPLE NO. ED002,

REPORT NO. 71 LAB SAMPLE NO. L78001AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	142-62-1	HEXANOICACID	A/BN	518	861	4.6 UG/L
2.	124-07-2	OCTANOICACID	A/BN	732	883	51.1 UG/L
3.	334-48-5	DECANOICACID	A/BN	890	810	69.2 UG/L
4.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	991	900	12.1 UG/L
5.	111-82-0	DODECANOICACID, METHYLESTER	A/BN	1001	885	12.6 UG/L
6.	143-07-7	DODECANOICACID	A/BN	1051	832	295.3 UG/L
7.	75-63-8	METHANE, BROMOTRIFLUORO-	A/BN	1188	466	3.5 UG/L
8.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1190	809	62.0 UG/L
9.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1361	806	103.4 UG/L
10.	57-11-4	OCTADECANOICACID	A/BN	1411	757	16.4 UG/L
11.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1513	780	189.4 UG/L
12.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1582	457	10.5 UG/L
13.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1649	767	236.7 UG/L
14.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1719	473	15.8 UG/L
15.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1817	509	154.5 UG/L
16.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1923	477	14.3 UG/L
17.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	2058	448	5.8 UG/L
18.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	2095	702	58.4 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. HEXANOICACID	1. B	1.
2. OCTANOICACID	2. A	2.
3. DECANOICACID	3. A	3.
4. ETHANOL, 2-\2-(2-METHOXYETHOXY)	4. ~~B~~ mx A	4.
5. DODECANOICACID, METHYLESTER	5. B	5. Or Related compound
6. DODECANOICACID	6. A	6.
~~7. METHANE, BROMOTRIFLUORO-~~ mx	~~7.~~ mx	~~7.~~
8. ETHANOL, 2-\2-(2-METHOXYETHOXY)	8. B	8.
9. ETHANOL, 2-\2-(2-METHOXYETHOXY)	9. B	9.
10. OCTADECANOICACID	10. A	10.
11. 2,5,8,11,14-PENTAOXAPENTADECAN	11. B	11.
12. 2,5,8,11,14-PENTAOXAPENTADECAN	12. B	12.
13. 2,5,8,11,14-PENTAOXAPENTADECAN	13. B	13.

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4.	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	14. B	14.
5.	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	15. B	15.
16.	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	16. B	16.
7.	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	17. B	17.
18.	2, 5, 8, 11, 14--PENTAOXAPENTADECAN	18. B	18.

No volatile compounds found

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Sample Number
ED 003

MW-1B

85FP06S02

Organics Analysis Data Sheet
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RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L781
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: [illegible]
Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 4/29/85
Date Analyzed: 4/29/85
Conc/Dil Factor: 5 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	50 U J
74-83-9	Bromomethane	50 U
75-01-4	Vinyl Chloride	140
75-00-3	Chloroethane	~~50 J~~ 46 J
75-09-2	Methylene Chloride	~~25 J~~ 17 J
67-64-1	Acetone	~~85 J~~ 85 4 J
75-15-0	Carbon Disulfide	25 U
75-35-4	1,1-Dichloroethene	25 U
75-34-3	1,1-Dichloroethane	470
156-60-5	Trans-1,2-Dichloroethene	110
67-66-3	Chloroform	25 U
107-06-2	1,2-Dichloroethane	25 U
78-93-3	2-Butanone	~~50 J B~~ 13 4 J
71-55-6	1,1,1-Trichloroethane	~~25 J~~ 5.6 J
56-23-5	Carbon Tetrachloride	25 U
108-05-4	Vinyl Acetate	50 U J
75-27-4	Bromodichloromethane	25 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	25 U
78-87-5	1,2-Dichloropropane	25 U
10061-02-6	Trans-1,3-Dichloropropene	25 U
79-01-6	Trichloroethene	25 J
124-48-1	Dibromochloromethane	25 U
79-00-5	1,1,2-Trichloroethane	25 U
71-43-2	Benzene	~~25 J~~ 8.8 J
10061-01-5	cis-1,3-Dichloropropene	25 U
110-75-8	2-Chloroethylvinylether	50 U J
75-25-2	Bromoform	25 U J
591-78-6	2-Hexanone	50 U
108-10-1	4-Methyl-2-Pentanone	50 U
127-18-4	Tetrachloroethene	25 U
108-88-3	Toluene	25 U
108-90-7	Chlorobenzene	25 U
100-41-4	Ethylbenzene	~~25 J~~ 5.1 J
100-42-5	Styrene	25 U
	Total Xylenes	25 U

PJC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number: ED 003 MW-1B

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/17/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NA
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U J
106-46-7	1,4-Dichlorobenzene	~~10 J~~ 4.4 J
100-51-6	Benzyl Alcohol	10 U
95-50-1	1,2-Dichlorobenzene	10 U J
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U
105-67-9	2,4-Dimethylphenol	10 U
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	~~10 J~~ 2.2 J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	140 B
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	24
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

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P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 003 MW-1B

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $V_t = 25000$ $V_i = 5$

MW-15

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED003,

QC REPORT NO. 71 LAB SAMPLE NO. L78101AB

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PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	507-45-9	BUTANE, 2, 3-DICHLORO-2-METHYL-	A/BN	272	852	8.3 UG/L
2.	108-90-7	BENZENE, CHLORO-	A/BN	307	799	6.7 UG/L
3.	100-41-4	BENZENE, ETHYL-	A/BN	331	830	22.4 UG/L
4	41065-97-8	HEXANAL, 4-METHYL-	A/BN	391	741	8.6 UG/L
5.	98-82-8	BENZENE, (1-METHYLETHYL)-	A/BN	419	945	25.7 UG/L
6.	5063-96-7	1H-PYRROLE-2, 5-DIONE, 1-(HYDROX	A/BN	510	591	43.6 UG/L
7.	53600-58-1	TRICYCLO\4. 2. 0. 02, 4\OCTAN-5-OL	A/BN	525	452	153.3 UG/L
8.	496-11-7	1H-INDENE, 2, 3-DIHYDRO-	A/BN	556	940	90.8 UG/L
9.	873-94-9	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	A/BN	562	894	302.6 UG/L
10.	54516-04-6	METHANOL, DIBUTOXY-	A/BN	587	631	38.2 UG/L
11.	1758-88-9	BENZENE, 2-ETHYL-1, 4-DIMETHYL-	A/BN	613	815	65.8 UG/L
12.	1758-88-9	BENZENE, 2-ETHYL-1, 4-DIMETHYL-	A/BN	645	887	34.4 UG/L
13.	824-22-6	1H-INDENE, 2, 3-DIHYDRO-4-METHYL	A/BN	680	742	36.2 UG/L
14.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	811	798	266.8 UG/L
15.	98-73-7	BENZOICACID, 4-(1, 1-DIMETHYLETH	A/BN	984	812	15.3 UG/L
16.	143-07-7	DODECANDICACID	A/BN	1035	810	32.6 UG/L
17.	1907-65-9	BENZENESULFONAMIDE, N-BUTYL-4-M	A/BN	1102	620	22.3 UG/L
18.	143-24-8	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	A/BN	1385	531	21.5 UG/L
19.	629-74-3	1-HEXADECYNE	A/BN	1378	664	16.2 UG/L
20.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1503	785	19.8 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	BUTANE, 2, 3-DICHLORO-2-METHYL-	1. A	1.
2.	BENZENE, CHLORO-	2. D	2.
3.	BENZENE, ETHYL-	3. D	3.
4.	HEXANAL, 4-METHYL-	4. B	4.
5.	BENZENE, (1-METHYLETHYL)-	5. A	5. or isomer
6.	1H-PYRROLE-2, 5-DIONE, 1-(HYDROX	6. C	6.
7.	TRICYCLO\4. 2. 0. 02, 4\OCTAN-5-OL	7. C	7. I.S. d4-1,2-Dichlorobenzene
8.	1H-INDENE, 2, 3-DIHYDRO-	8. A	8. Or isomer
9.	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	9. A	9. or isomer
10.	METHANOL, DIBUTOXY-	10. A	10.
11.	BENZENE, 2-ETHYL-1, 4-DIMETHYL-	11. A	11. or isomer
12	BENZENE, 2-ETHYL-1, 4-DIMETHYL-	12. A	12. or isomer

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1.	1H-INDENE, 2, 3-DIHYDRO-4-METHYL	13A	13. Or isomer
1.	2H-AZEPIN-2-ONE, HEXAHYDRO-	14.A	14.
15.	BENZOICACID, 4-(1, 1-DIMETHYLETH	15.A	15.
5.	DODECANOICACID	16.A	16.
17.	BENZENESULFONAMIDE, N-BUTYL-4-M	17.B	17.
3.	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	18.B	18.
7.	1-HEXADECYNE	19.B	19.
20.	ETHANOL, 2-(9-OCTADECENYLOXY)-,	20.B	20.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
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Sample Number
ED 022

MW LD
DUP

85FP06D02
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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L792
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: [illegible]
Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/1/85
Date Analyzed: 5/1/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	58 J
75-00-3	Chloroethane	21 24
75-09-2	Methylene Chloride	2000 B
67-64-1	Acetone	31 ~~U~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	200 230
156-60-5	Trans-1,2-Dichloroethene	53 59
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 9.6 UJ
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 3.4 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 3.5 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	6.2
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	~~10 J~~ 1.8 J
127-18-4	Tetrachloroethene	~~5 J~~ 1.8 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	~~5 J~~ 2.0 J
100-41-4	Ethylbenzene	~~5 J~~ 4.7 J
100-42-5	Styrene	5 U
	Total Xylenes	~~5 J~~ 2.7 J

PJC

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 indicates 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).

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.

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Sample Number
ED 022 RE Dup

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 08 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L792 RE
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: MGM
Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/1/85
Date Analyzed: 5/1/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	84 J
75-00-3	Chloroethane	24
75-09-2	Methylene Chloride	~~5 JB~~ 4.0 J
67-64-1	Acetone	19 BJ
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	230
156-60-5	Trans-1,2-Dichloroethene	59
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 B J
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 3.4 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 3.7 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 4.7 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	~~10 J~~ 2.2 J
127-18-4	Tetrachloroethene	~~5 J~~ 1.8 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	~~5 J~~ 1.2 J
100-41-4	Ethylbenzene	~~5 J~~ 1.6 J
100-42-5	Styrene	5 U
	Total Xylenes	~~5 J~~ 2.5 J

PJC 6-24-85

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 indicates 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).

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.

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Sample Number
ED 022

Dup

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 42/9/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	13 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	14
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

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Sample Number
ED 022

DUP

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

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Dup

5.	1,2-BENZENEDICARBOXYLICACID,BI	15. b	15.
16.	1,2-BENZENEDICARBOXYLICACID,DI	16. b	16. Isomer
7.	1,2-BENZENEDICARBOXYLICACID,DI	17. b	17.

No volatile compounds found

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

MW-1B DUP

'AB NAME: CAL CASE NO. 4214 SAMPLE NO. ED002,

GC REPORT NO. 71 LAB SAMPLE NO. L79201AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	98-82-8	BENZENE, (1-METHYLETHYL)-	A/BN	419	934	14.9 UG/L
2.	496-11-7	1H-INDENE, 2, 3-DIHYDRO-	A/BN	556	937	62.6 UG/L
3.	873-94-9	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	A/BN	562	894	231.1 UG/L
4.	54518-04-6	METHANOL, DIBUTOXY-	A/BN	587	612	32.6 UG/L
5.	824-22-6	1H-INDENE, 2, 3-DIHYDRO-4-METHYL	A/BN	680	751	26.6 UG/L
6.	142-62-1	HEXANOICACID	A/BN	776	627	15.7 UG/L
7.	40365-61-5	2H-PYRAN, 2-(3-BUTYNYLOXY)TETRA	A/BN	807	527	86.0 UG/L
8.	19549-72-5	3-HEPTANOL, 2, 4-DIMETHYL-	A/BN	825	387	21.3 UG/L
9.	143-07-7	DODECANOICACID	A/BN	1034	820	12.7 UG/L
0.	1907-65-9	BENZENESULFONAMIDE, N-BUTYL-4-M	A/BN	1104	632	16.4 UG/L
1.	936-61-8	BENZENECARBOTHIOICACID, O-ETHYL	A/BN	1478	384	6.2 UG/L
12.	5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY)-,	A/BN	1498	737	7.0 UG/L
13.	131-18-0	1, 2-BENZENEDICARBOXYLICACID, DI	A/BN	1607	687	8.9 UG/L
4.	10528-67-3	CYCLOHEXANEPROPANOL, . ALPHA. -ME	A/BN	1635	539	5.5 UG/L
5.	84-69-5	1, 2-BENZENEDICARBOXYLICACID, BI	A/BN	1665	663	4.9 UG/L
16.	131-18-0	1, 2-BENZENEDICARBOXYLICACID, DI	A/BN	1843	655	5.2 UG/L
7.	27554-26-3	1, 2-BENZENEDICARBOXYLICACID, DI	A/BN	2031	590	2.3 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	BENZENE, (1-METHYLETHYL)-	1. A	1.
2.	1H-INDENE, 2, 3-DIHYDRO-	2. A	2.
3.	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	3. A	3.
4.	METHANOL, DIBUTOXY-	4. C	4.
5.	1H-INDENE, 2, 3-DIHYDRO-4-METHYL	5. B	5.
6.	HEXANOICACID	6. B	6.
7.	2H-PYRAN, 2-(3-BUTYNYLOXY)TETRA	7. C	7.
8.	3-HEPTANOL, 2, 4-DIMETHYL-	8. C	8.
9.	DODECANOICACID	9. A	9.
0.	BENZENESULFONAMIDE, N-BUTYL-4-M	10. D	10.
11.	BENZENECARBOTHIOICACID, O-ETHYL	11. C	11.
12	ETHANOL, 2-(9-OCTADECENYLOXY)-,	12. A	12.
3	1, 2-BENZENEDICARBOXYLICACID, DI	13. A	13.
14.	CYCLOHEXANEPROPANOL, . ALPHA. -ME	14. A	14.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number: ED 004

MW-2A

85FP06503

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L782

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By:

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 4/29/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 2.5 UJ
67-64-1	Acetone	36 B J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 8.5 UJ
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

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

FJ 6-24-85

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 indicates 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).

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.

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

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 004

MW-2A

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/17/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U J
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U
95-50-1	1,2-Dichlorobenzene	10 U J
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U
105-67-9	2,4-Dimethylphenol	10 U
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	11 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

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ED 004

MW-2R

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

MW-2A

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED 004

C REPORT NO. 71 LAB SAMPLE NO. L78201AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	124-07-2	OCTANOICACID	A/BN	733	897	62.9 UG/L
2.	334-48-5	DECANOICACID	A/BN	890	811	106.9 UG/L
3.	143-07-7	DODECANOICACID	A/BN	1046	835	188.7 UG/L
4.	544-63-8	TETRADECANOICACID	A/BN	1171	790	33.2 UG/L
5.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1649	767	516.9 UG/L
6.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1925	493	26.1 UG/L
7.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	2098	724	163.3 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. OCTANOICACID	1. A	1.
2. DECANOICACID	2. A	2.
3. DODECANOICACID	3. A	3.
4. TETRADECANOICACID	4. A	4.
5. 2,5,8,11,14-PENTAOXAPENTADECAN	5. B	5.
6. 2,5,8,11,14-PENTAOXAPENTADECAN	6. C	6.
7. 2,5,8,11,14-PENTAOXAPENTADECAN	7. B	7.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number: ED 005

85FP06S08 (4)

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

RECEIVED JUL 0 8 1985

Lab Sample ID No: L783

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: WGM

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 4/29/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number			ug/L
74-87-3		Chloromethane	10 U J
74-83-9		Bromomethane	10 U
75-01-4	*	Vinyl Chloride	29
75-00-3		Chloroethane	~~10 J~~ 3.4 J
75-09-2		Methylene Chloride	11 ~~B~~ J
67-64-1		Acetone	82 ~~B~~ J
75-15-0		Carbon Disulfide	5 U
75-35-4		1,1-Dichloroethene	5 U
75-34-3		1,1-Dichloroethane	31 32
156-60-5	*	Trans-1,2-Dichloroethene	7.2
67-66-3		Chloroform	5 U
107-06-2		1,2-Dichloroethane	5 U
78-93-3		2-Butanone	13 B J
71-55-6		1,1,1-Trichloroethane	5 U
56-23-5		Carbon Tetrachloride	5 U
108-05-4		Vinyl Acetate	10 U J
75-27-4		Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 3.7 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC 6-24-85

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 indicates 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).

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.

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ED005 RE

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L783RE

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By:

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/8/85

Date Analyzed: 5/8/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	22
75-00-3	Chloroethane	~~10 J~~ 3.7 J
75-09-2	Methylene Chloride	12 B
67-64-1	Acetone	160 U J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	32
156-60-5	Trans-1,2-Dichloroethene	6.4
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

RJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 2.8 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 005

MW-2B

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	12 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute, Analyzed as a single compound

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ED 005

MW-2B

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Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED 005

C REPORT NO. 71 LAB SAMPLE NO. L78301AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	824	870	225.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.

No volatile compounds found

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Sample Number: ED 006

MW-3A

85FP06505

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L784

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By:

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 4/29/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	31 B
67-64-1	Acetone	170 ~~B~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 3.7 J
156-60-5	Trans-1,2-Dichloroethene	~~5 J~~ 1.1 J
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.9 UJ
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PST 6-24-85

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

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.

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

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 006

MW-5M

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	28 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC 6-24-85

PJC 6-24-85

CLF: 4/29/85

Form I

Prepared by:

4/84

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number: ED 006

NW-3A

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO., ED 006

IC REPORT NO. 71 LAB SAMPLE NO. L78401AB

'ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	100-37-8	ETHANOL, 2-(DIETHYLAMINO)-	A/BN	395	844	28.5 UG/L
2.	108-82-7	4-HEPTANOL, 2,6-DIMETHYL-	A/BN	857	642	17.6 UG/L
3.	10544-50-0	SULFUR, MOL. (S8)	A/BN	1357	952	73.5 UG/L
4.	14905-56-7	TETRADECANE, 2,6,10-TRIMETHYL-	A/BN	1685	527	9.6 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHANOL, 2-(DIETHYLAMINO)-	1. A	1.
2. 4-HEPTANOL, 2,6-DIMETHYL-	2. C	2.
3. SULFUR, MOL. (S8)	3. A	3.
4. TETRADECANE, 2,6,10-TRIMETHYL-	4. B	4. Alkane

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 007

MW-5E

85FP06506

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L785
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: NCM
Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 4/29/85
Date Analyzed: 4/29/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	16 ~~U~~ J
67-64-1	Acetone	73 ~~U~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5.7
156-60-5	Trans-1,2-Dichloroethene	~~5 J~~ 2.8 J
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.7 J
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 3.1 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5.4
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5.4
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

P-C 6-24-85

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 indicates 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).

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.

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

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 007

MW-3D

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	180 B
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

PJ

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number: ED 007

MW-3B

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

MW-5D

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED007,

GC REPORT NO. 71 LAB SAMPLE NO. L78501AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	825	938	186.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.

No volatile compounds found

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 008

MW-4H

85FP06507

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L786

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By:

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 4/29/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	36 B
67-64-1	Acetone	13 ~~U~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 3.6 J
156-60-5	Trans-1,2-Dichloroethene	~~5 J~~ 2.7 J
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U J
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 1.6 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC
6-27-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 1.5 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.4 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

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

P.O. Box 618, Alexandria, Virginia 22313 703/557-2490

ED 008

MW-4A

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	22 B J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

PSC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PSC 6-24-85

Prepared by:

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 008

MW-4A

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $V_t = 25000$ $V_i = 5$

MW-4A

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED008,

C REPORT NO. 71 LAB SAMPLE NO. L78601AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	779	949	19.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.

No volatile compounds found

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 009

MW-4D

85FP06508

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L787

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By:

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 4/29/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	19 B
67-64-1	Acetone	130 ~~U~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	~~5 U~~ 3.6 J
75-34-3	1,1-Dichloroethane	9.3
156-60-5	Trans-1,2-Dichloroethene	~~5 U~~ 3.6 J
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U J
71-55-6	1,1,1-Trichloroethane	32
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 U~~ 3.7 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 U~~ 3.9 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC 6-24-85

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 indicates 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).

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.

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

P.O. Box 518, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 009

MW-4B

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 4.8 U J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

PJC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC 6-24-85

 Prepared by: [signature]

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 009

MW-4B

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

MW-4B

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED009,

C REPORT NO. 71 LAB SAMPLE NO. L78701AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	778	941	7.4 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 010

MW-5A

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U J
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U J
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 J~~ B 6.4/4 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

PJC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC 6-24-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 010

MW-5A

85FP06509

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L795

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: [illegible]

Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/2/85

Date Analyzed: 5/2/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 UJ
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 UJ
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	5.1 ~~B~~ J
67-64-1	Acetone	68 B
75-15-0	Carbon Disulfide	5 UJ
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 3.2 J
156-60-5	Trans-1,2-Dichloroethene	~~5 J~~ 3.7 J
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.3 UJ
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 2.3 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 UJ
75-27-4	Bromodichloromethane	5 UJ

PJC 6-27-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	30
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 UJ
75-25-2	Bromoform	5 UJ
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.6 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC 6-27-85

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 indicates 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).

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.

nvironmental Protection Agency, CLP Sample Management Office
.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED010

MW-5A

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 0.5L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 =500 or W_s = NR V_t = 25000 V_i = 5

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 011

MW-5B

85EP06510

RECEIVED JUL 08 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L796

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MM

Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/1/85

Date Analyzed: 5/1/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 3.2 4 J
67-64-1	Acetone	~~10 JB~~ 9.7 4 J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 3.0 J
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 4.2 4 J
71-55-6	1,1,1-Trichloroethane	36
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJS 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	130
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	12
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJS 6-24-85

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 indicates 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).

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.

ORGANICS ANALYSIS DATA SHEET

MW-5A

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED010

C REPORT NO. 71 LAB SAMPLE NO. L7P501AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	597-93-3	5-NONANOL, 5-BUTYL-	A/BN	659	472	4.6 UG/L
2.	124-07-2	OCTANOICACID	A/BN	726	902	20.9 UG/L
3.	108-82-7	4-HEPTANOL, 2, 6-DIMETHYL-	A/BN	859	661	14.5 UG/L
4.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	987	914	9.8 UG/L
5.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1360	844	88.5 UG/L
6.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1511	805	154.6 UG/L
7.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1648	768	211.6 UG/L
8.	143-24-8	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	A/BN	1817	757	138.7 UG/L
9.	143-24-8	2, 5, 8, 11, 14-PENTAOXAPENTADECAN	A/BN	2092	723	50.6 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 5-NONANOL, 5-BUTYL-	1. B	1.
2. OCTANOICACID	2. A	2.
3. 4-HEPTANOL, 2, 6-DIMETHYL-	3. C	3.
4. ETHANOL, 2-\2-(2-METHOXYETHOXY)	4. A	4.
5. ETHANOL, 2-\2-(2-METHOXYETHOXY)	5. C	5.
6. ETHANOL, 2-\2-(2-METHOXYETHOXY)	6. C	6.
7. ETHANOL, 2-\2-(2-METHOXYETHOXY)	7. C	7.
8. 2, 5, 8, 11, 14-PENTAOXAPENTADECAN	8. C	8.
9. 2, 5, 8, 11, 14-PENTAOXAPENTADECAN	9. C	9.

No volatile Compounds found

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 011

MW-5B

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U J
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U J
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 4.0 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED011

MW-5B

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

Prepared by: KY

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED011

QC REPORT NO. 71 LAB SAMPLE NO. L79601AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	127-18-4	ETHENE, TETRACHLORO-	A/BN	256	978	13.9 UG/L
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	A/BN	307	936	9.7 UG/L
3.	30691-59-9	AZIRIDINE, 1-HEXYL-	A/BN	411	569	4.4 UG/L
4.	108-82-7	4-HEPTANOL, 2,6-DIMETHYL-	A/BN	858	658	16.7 UG/L
5.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1335	700	5.0 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHENE, TETRACHLORO-	1. D	1.
2. 2-PENTANONE, 4-HYDROXY-4-METHYL	2. A	2. see blank
3. AZIRIDINE, 1-HEXYL-	3. C	3.
4. 4-HEPTANOL, 2,6-DIMETHYL-	4. C	4.
5. ETHANOL, 2-\2-(2-METHOXYETHOXY)	5. C	5.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 012

MW-6

85FP06511

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L797
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: WSM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	11 ~~U~~ J
67-64-1	Acetone	~~16 B~~ ~~7~~ 16 UJ
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	28
156-60-5	Trans-1,2-Dichloroethene	13
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~40 JB~~ 5.8 UJ
71-55-6	1,1,1-Trichloroethane	10
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PSC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 1.75
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.35
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PSC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 012

MW-6

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U J
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U J
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 UJ
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~15~~ B 15 U J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office/
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED012

MW-6

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED012

QC REPORT NO. 71 LAB SAMPLE NO. L79701AB

MM

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PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	288-06-2	SILACYCLOPENTANE	A/BN	214	375	4.1 UG/L
2.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	988	903	11.2 UG/L
3.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1360	838	114.6 UG/L
4.	112-35-6	ETHANOL, 2-\2-(2-METHOXYETHOXY)	A/BN	1512	805	193.7 UG/L
5.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1648	768	234.4 UG/L
6.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	1818	736	158.3 UG/L
7.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	2096	724	60.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. SILACYCLOPENTANE	1. C	1.
2. ETHANOL, 2-\2-(2-METHOXYETHOXY)	2. A	2.
3. ETHANOL, 2-\2-(2-METHOXYETHOXY)	3. C	3. possibly related
4. ETHANOL, 2-\2-(2-METHOXYETHOXY)	4. C	4. " "
5. 2,5,8,11,14-PENTAOXAPENTADECAN	5. C	5.
6. 2,5,8,11,14-PENTAOXAPENTADECAN	6. C	6.
7. 2,5,8,11,14-PENTAOXAPENTADECAN	7. C	7.

No volatile compounds found

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 013

85FP06512

Organics Analysis Data Sheet
(Page 1)

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Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L788

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MDM

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/1/85

Date Analyzed: 5/1/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	11 ~~B~~ J
67-64-1	Acetone	37 ~~B~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5J~~ 1.6 J
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	11 ~~B~~ J
71-55-6	1,1,1-Trichloroethane	8.9
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5J~~ 2.5 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

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

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ED 013

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	30 B J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	~~10 J~~ 6.R J
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

PSC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

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ED 013

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $V_t = 25000$ $V_i = 5$

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ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED013,

C REPORT NO. 71 LAB SAMPLE NO. L78801AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	75-09-2	METHANE, DICHLORO-	A/BN	214	494	9.8 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	811	927	155.6 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. METHANE, DICHLORO-	1. D	1.
2. 2H-AZEPIN-2-ONE, HEXAHYDRO-	2. A	2.

No volatile compounds found

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 014

MW-0

85FP065L3

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L789

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: NOM

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/1/85

Date Analyzed: 5/1/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	71 B
67-64-1	Acetone	130 B
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 1.4 J
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.8 J
71-55-6	1,1,1-Trichloroethane	5
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

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

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.

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

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 014

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U J
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	18 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	18
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

PJC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC 6-24-85

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 014

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

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ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED014

GC REPORT NO. 71 LAB SAMPLE NO. L78901AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	820	938	309.2 UG/L
2.	55759-91-6	2-PROPENAL, 3-(2,2,6-TRIMETHYL-	A/BN	921	587	6.7 UG/L
3.	143-07-7	DODECANOICACID	A/BN	1030	825	6.0 UG/L
4.	20758-60-5	BENZENE, 1-(1-CYCLOHEXEN-1-YL)-	A/BN	1135	642	5.6 UG/L
5.	30278-08-1	1-HEXANAMINE, N-BUTYL-	A/BN	1478	446	6.0 UG/L
6.	84-74-2	1,2-BENZENEDICARBOXYLICACID, DI	A/BN	1607	729	13.7 UG/L
7.	84-69-5	1,2-BENZENEDICARBOXYLICACID, BI	A/BN	1665	620	9.6 UG/L
8.	7299-89-0	1,2-BENZENEDICARBOXYLICACID, BI	A/BN	1781	679	9.9 UG/L
9.	131-18-0	1,2-BENZENEDICARBOXYLICACID, DI	A/BN	1842	671	15.5 UG/L
10.	84-61-7	1,2-BENZENEDICARBOXYLICACID, DI	A/BN	2030	637	7.3 UG/L

	COMPOUND NAME	PROBABILITY		COMMENTS
1.	2H-AZEPIN-2-ONE, HEXAHYDRO-	1.	A	1.
2.	2-PROPENAL, 3-(2,2,6-TRIMETHYL-	2.	C	2.
3.	DODECANOICACID	3.	A	3.
4.	BENZENE, 1-(1-CYCLOHEXEN-1-YL)-	4.	B	4.
5.	1-HEXANAMINE, N-BUTYL-	5.	C	5.
6.	1,2-BENZENEDICARBOXYLICACID, DI	6.	B	6.
7.	1,2-BENZENEDICARBOXYLICACID, BI	7.	B	7.
8.	1,2-BENZENEDICARBOXYLICACID, BI	8.	B	8.
9.	1,2-BENZENEDICARBOXYLICACID, DI	9.	B	9.
10.	1,2-BENZENEDICARBOXYLICACID, DI	10.	B	10.

related

No volatile compounds found

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ED 015

Organics Analysis Data Sheet
(Page 1)

85FP06 S14
USE RERUN

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Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L790
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By:
Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/1/85
Date Analyzed: 5/1/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	24 J
75-00-3	Chloroethane	16
75-09-2	Methylene Chloride	~~5 JB~~ 3.4 4J
67-64-1	Acetone	43 ~~B~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	~~5 J~~ 1.7 J
75-34-3	1,1-Dichloroethane	38
156-60-5	Trans-1,2-Dichloroethene	36
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 8.2 4J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 3.2 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 2.2 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.3 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	~~5 J~~ 1.7 J
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC

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 indicates 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).

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.

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ED 015 RE

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L790 RE

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MGM

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/8/85

Date Analyzed: 5/8/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4 *	Vinyl Chloride	34
75-00-3 *	Chloroethane	18
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	61 ~~B~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	~~5 J~~ 1.6 J
75-34-3 *	1,1-Dichloroethane	45
156-60-5	Trans-1,2-Dichloroethene	32 36
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 3.0 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 0.8 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.0 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 015

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/20/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	~~10 J~~ 2.6 J
100-51-6	Benzyl Alcohol	10 U
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U J
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 UJ
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 6.8 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

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ED 015

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

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ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL. CASE NO. 4214 SAMPLE NO. ED015

C REPORT NO. 71 LAB SAMPLE NO. L79001AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	817	926	276.7 UG/L
2.	98-73-7	BENZOICACID, 4-(1,1-DIMETHYLETH	A/BN	984	823	14.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2. BENZOICACID, 4-(1,1-DIMETHYLETH	2. A	2.

No volatile compounds found

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 016

MW-10

85FP06515

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L791

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: [illegible]

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/1/85

Date Analyzed: 5/1/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	~~10 J~~ 6.1 J
75-09-2	Methylene Chloride	57 B
67-64-1	Acetone	100 B
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3 *	1,1-Dichloroethane	21
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.5 4J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PSC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 U
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	~~5 J~~ 1.0 J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PSC 6-24-85

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 indicates 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).

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.

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 016 RE

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L791 RE

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: WGM

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/8/85

Date Analyzed: 5/8/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U
75-00-3	Chloroethane	~~10 J~~ 5.9 J
75-09-2	Methylene Chloride	36
67-64-1	Acetone	23 ~~B~~ J
75-15-0	Carbon Disulfide	5 U
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	17
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	10 U J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

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

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.

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 016

MW-10

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 7.6 U J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

FJC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

FJC 6-24-85

P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

ED 016

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

MW-1C

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED 016

C REPORT NO. 71 LAB SAMPLE NO. L79101AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	823	904	180.9 UG/L
2.	98-73-7	BENZOICACID, 4-(1,1-DIMETHYLETH	A/BN	990	804	11.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2. BENZOICACID, 4-(1,1-DIMETHYLETH	2. A	2.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 017

MW-11

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U J
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U J
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 7.64 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

PJC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 017

MW-11

85FP06S16

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L798
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: NGM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/6/85
Date Analyzed: 5/6/85 — Holding Time Exceeded. Aromatic Compounds Flagged as Estimated. PJC 6-24-85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 3.3 4 J
67-64-1	Acetone	~~10 JB~~ 7.8 4 J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	9.3
156-60-5	Trans-1,2-Dichloroethene	~~5 J~~ 4.2 J
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.0 4 J
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 1.3 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U J
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.1 J
108-88-3	Toluene	5 U J
108-90-7	Chlorobenzene	5 U J
100-41-4	Ethylbenzene	5 U J
100-42-5	Styrene	5 U J
	Total Xylenes	5 U J

PJC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED017

MW-1

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED017 MW-1

QC REPORT NO. 71 LAB SAMPLE NO. L79801AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	53907-95-2	2-PROPANOL, 1-(1-METHYLPROPOXY)	A/BN	1414	571	790.3 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2-PROPANOL, 1-(1-METHYLPROPOXY)	1. B	1.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 6 8, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 018

MW-12A

85F P06517

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L799
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: [signature]
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 2.6 4J
67-64-1	Acetone	38 ~~BJ~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 1.1 J
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.1 4J
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 4.1 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	~~5 J~~ 1.0 J
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 018

MW-12A

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U J
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	~~10 J~~ 2.8 J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 5.5 4 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	~~10 J~~ 2.8 J
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED018

MW-12

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED018, MW-12A

GC REPORT NO. 71 LAB SAMPLE NO. L79901AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	124-07-2	OCTANOICACID	A/BN	740	866	46.0 UG/L
2.	334-48-5	DECANOICACID	A/BN	896	818	24.7 UG/L
3.	143-07-7	DODECANOICACID	A/BN	1055	831	107.6 UG/L
4.	544-63-8	TETRADECANOICACID	A/BN	1178	798	68.8 UG/L
5.	57-10-3	HEXADECANOICACID	A/BN	1300	766	50.7 UG/L
6.	112-35-6	ETHANOL,2-\2-(2-METHOXYETHOXY)	A/BN	1361	834	99.7 UG/L
7.	112-35-6	ETHANOL,2-\2-(2-METHOXYETHOXY)	A/BN	1512	797	121.9 UG/L
8.	248-70-4	\1\BENZOTHIENO\3,2-B\\1\BENZOT	A/BN	1581	476	14.6 UG/L
9.	112-35-6	ETHANOL,2-\2-(2-METHOXYETHOXY)	A/BN	1648	764	116.0 UG/L
10.	143-24-8	2,5,8,11,14-PENTAOXAPENTADECAN	A/BN	2092	705	22.6 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	OCTANOICACID	1. A	1.
2.	DECANOICACID	2. A	2.
3.	DODECANOICACID	3. A	3.
4.	TETRADECANOICACID	4. A	4.
5.	HEXADECANOICACID	5. A	5.
6.	ETHANOL,2-\2-(2-METHOXYETHOXY)	6. B	6.
7.	ETHANOL,2-\2-(2-METHOXYETHOXY)	7. B	7.
8.	\1\BENZOTHIENO\3,2-B\\1\BENZOT	8. C	8. I.S. d_{12} - Chrysene
9.	ETHANOL,2-\2-(2-METHOXYETHOXY)	9. B	9.
10.	2,5,8,11,14-PENTAOXAPENTADECAN	10. C	10.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 019

MW-12P

85FP06518

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 08 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L800
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: MSM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 2.4 UJ
67-64-1	Acetone	14 ~~BJ~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	~~5 J~~ 1.1 J
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	~~5 J~~ 1.5 J
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.1 UJ
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 4.9 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

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

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 019

MW-RE

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U
105-67-9	2,4-Dimethylphenol	10 U
65-85-0	Benzoic Acid	50 U
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 5.64 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U
53-70-3	Dibenz(a,h)Anthracene	10 U
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED019

MW-R

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

RECEIVED JUL 0 6 1983

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED019, MW-12B

QC REPORT NO. 71 LAB SAMPLE NO. LB0C01AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	513-38-2	PROPANE, 1-IODO-2-METHYL-	A/BN	346	798	135.1 UG/L
2.	100-52-7	BENZALDEHYDE	A/BN	465	936	50.3 UG/L
3.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	839	891	348.6 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. PROPANE, 1-IODO-2-METHYL-	1. B	1.
2. BENZALDEHYDE	2. A	2.
3. 2H-AZEPIN-2-ONE, HEXAHYDRO-	3. A	3.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 020

MW-13

85F-P06319

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L801

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MM

Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/2/85

Date Analyzed: 5/2/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	43 J
75-00-3	Chloroethane	~~10 J~~ 2.8 J
75-09-2	Methylene Chloride	~~5 JB~~ 2.2 UJ
67-64-1	Acetone	11 ~~B~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	170
156-60-5	Trans-1,2-Dichloroethene	28
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	10
78-93-3	2-Butanone	~~10 JB~~ 4.9 UJ
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 4.3 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	7.3
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	~~5 J~~ 1.2 J
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 020

MW-13

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 UJ
95-50-1	1,2-Dichlorobenzene	10 J –
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 UJ
621-64-7	N-Nitroso-Di-n-Propylamine	10 UJ
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 UJ
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 UJ
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 UJ
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 UJ
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 UJ
77-47-4	Hexachlorocyclopentadiene	10 UJ
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 UJ
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 UJ

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 UJ
100-02-7	4-Nitrophenol	50 UJ
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 UJ
606-20-2	2,6-Dinitrotoluene	10 UJ
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 UJ
86-30-6	N-Nitrosodiphenylamine(1)	10 UJ
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 UJ
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 3.4 UJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 UJ
53-70-3	Dibenz(a,h)Anthracene	10 UJ
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED020

MW-13

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

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ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED 020

QC REPORT NO. 71 LAB SAMPLE NO. LB0103V

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

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC J VALUE
1.	64-17-5	ETHANOL	VOA	85	942	40.6 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHANOL	1. A	1.

ORGANICS ANALYSIS UNIT

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED020, MW-13

QC REPORT NO. 71 LAB SAMPLE NO. LB0101AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	3868-64-2	PENTALENE, OCTAHYDRO-2-METHYL-	A/BN	410	856	14.2 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	817	911	231.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. PENTALENE, OCTAHYDRO-2-METHYL-	1. B	1. or isomer
2. 2H-AZEPIN-2-ONE, HEXAHYDRO-	2. A	2.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 021

MW-14

85FP06520

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214 RECEIVED JUL 0 8 1985
Lab Sample ID No: L802
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: MM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/3/85
Date Analyzed: 5/3/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	6.4 ~~U~~ J
67-64-1	Acetone	~~10 JB~~ 5.4 UJ
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 4.8 UJ
71-55-6	1,1,1-Trichloroethane	~~5 J~~ 3.5 J
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

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

PJC 6-24-85

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 indicates 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).

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.

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P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 021

MW-14

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U J
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 6.4 4 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	~~10 J~~ 7.8 J
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED021

MW-14

Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

ORGANICS ANALYSIS DATA SHEET

MW-14

NAME: CAL CASE NO. 4214 SAMPLE NO. ED021

REPORT NO. 71 LAB SAMPLE NO. L80203V

RECEIVED JUL 0 8 1985

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

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	64-17-5	ETHANOL	VOA	85	941	46.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHANOL	1. A	1.

LABORATORY ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME. CAL CASE NO. 4214 SAMPLE NO. ED021, MW-14

QC REPORT NO. 71 LAB SAMPLE NO. LB0201AD

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	513-38-2	PROPANE, 1-IODO-2-METHYL-	A/BN	345	903	22.1 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	842	913	287.2 UG/L
3.	18060-77-0	2-BUTENOICACID, 1-METHYLETHYLES	A/BN	863	636	13.7 UG/L
4.	1912-24-9	1,3,5-TRIAZINE-2,4-DIAMINE, 6-C	A/BN	1169	757	18.4 UG/L
5.	54410-91-2	PIPERAZINE, 2,3-DIMETHYL-5-(2-M	A/BN	1481	450	11.1 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. PROPANE, 1-IODO-2-METHYL-	1. B	1.
2. 2H-AZEPIN-2-ONE, HEXAHYDRO-	2. A	2.
3. 2-BUTENOICACID, 1-METHYLETHYLES	3. B	3.
4. 1,3,5-TRIAZINE-2,4-DIAMINE, 6-C	4. A	4. common name is Atrazine
5. PIPERAZINE, 2,3-DIMETHYL-5-(2-M	5. B	5.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 024

BLK 1

85FP06R01

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L793

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By:

Date Sample Received: 4/25/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/1/85

Date Analyzed: 5/1/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 4.0 4J
67-64-1	Acetone	13 ~~B~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.5 4J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

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

PJC 6-24-85

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 indicates 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).

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.

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

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 024

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 2.4 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 024

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 2.4 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 024

DWR

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/21/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U J
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U J
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 2.4 4 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U J

PSC 6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 024

BLK 1

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $V_t = 25000$ $V_i = 5$

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 024

BLK 1

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/29/85

Date Analyzed: 5/11/85

Conc/Dil Factor: 1L/25ML

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 $W_s = NR$ $V_t = 25000$ $V_i = 5$

RECEIVED JUL 0 8 1985

BLK

1

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED024,

C REPORT NO. 71 LAB SAMPLE NO. L79301AB

ROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
	NO A/BN				

No volatile compounds found

nvironmental Protection Agency, CLP Sample Management Office
.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 025

BLK 2

~~85FP06R~~ A8
85FP06R02

Organics Analysis Data Sheet
(Page 1)

.aboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
.ab Sample ID No: L804
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: MGM
Date Sample Received: ~~4/25/85~~ DB 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 2.3 4 J
67-64-1	Acetone	~~10 JB~~ 8.7 4 J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	5 U
156-60-5	Trans-1,2-Dichloroethene	5 U
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 5.3 4 J
71-55-6	1,1,1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

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

RC 6-24-85

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 indicates 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).

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.

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

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 025

BLK 2

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	~~40 J~~ 30 J
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U J
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 4.0 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC 6-24-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED025

BLK 2

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 08 1985

AB NAME: CAL CASE NO. 4214 SAMPLE NO. ED025, BLK 2

REPORT NO. 71 LAB SAMPLE NO. L80401AB

OBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	779	933	8.2 UG/L
593-45-3	OCTADECANE	A/BN	904	855	8.8 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.
2. OCTADECANE	2. B	2. alkane

No volatile compounds found

:nvironmental Protection Agency, CLP Sample Management Office
'.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 026

REVERT

85FP06S21

Organics Analysis Data Sheet
(Page 1)

'.aboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

.ab Sample ID No: L805

QC Report No: 71

Sample Matrix: SOIL

Contract No: 68-01-6958

)ata Release Authorized By: MGM

Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Medium

Date Extracted/Prepared: 5/3/85

Date Analyzed: 5/3/85

Conc/Dil Factor: 100 pH: NR

Percent Moisture: 100

Percent Moisture (Decanted): NR

CAS Number		ug/Kg
74-87-3	Chloromethane	500 U J
74-83-9	Bromomethane	500 U
75-01-4	Vinyl Chloride	500 U J
75-00-3	Chloroethane	500 U
75-09-2	Methylene Chloride	250 J B
67-64-1	Acetone	1100 B J
75-15-0	Carbon Disulfide	250 U J
75-35-4	1,1-Dichloroethene	250 U
75-34-3	1,1-Dichloroethane	250 U
156-60-5	Trans-1,2-Dichloroethene	250 U
67-66-3	Chloroform	250 U
107-06-2	1,2-Dichloroethane	250 U
78-93-3	2-Butanone	3500 B J
71-55-6	1,1,1-Trichloroethane	250 U
56-23-5	Carbon Tetrachloride	250 U
108-05-4	Vinyl Acetate	500 U J
75-27-4	Bromodichloromethane	250 U J

CAS Number		ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	250 U
78-87-5	1,2-Dichloropropane	250 U
10061-02-6	Trans-1,3-Dichloropropene	250 U
79-01-6	Trichloroethene	250 U
124-48-1	Dibromochloromethane	250 U
79-00-5	1,1,2-Trichloroethane	250 U
71-43-2	Benzene	250 U
10061-01-5	cis-1,3-Dichloropropene	250 U
110-75-8	2-Chloroethylvinylether	500 U J
75-25-2	Bromoform	250 U J
591-78-6	2-Hexanone	500 U
108-10-1	4-Methyl-2-Pentanone	500 U
127-18-4	Tetrachloroethene	250 U
108-88-3	Toluene	250 U
108-90-7	Chlorobenzene	250 U
100-41-4	Ethylbenzene	250 U
100-42-5	Styrene	250 U
	Total Xylenes	250 U

PJC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 026

REVERT

Organics Analysis Data Sheet
(Page 2)

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Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/23/85

Conc/DiL Factor: 29G/ML

CAS Number		ug/Kg
62-75-9	N-Nitrosodimethylamine	NA
108-95-2	Phenol	330 U
62-53-3	Aniline	330 U
111-44-4	bis(-2-Chloroethyl)Ether	330 U
95-57-8	2-Chlorophenol	330 U
541-73-1	1,3-Dichlorobenzene	330 U
106-46-7	1,4-Dichlorobenzene	330 U
100-51-6	Benzyl Alcohol	~~330 J~~ 79 J
95-50-1	1,2-Dichlorobenzene	330 U
95-48-7	2-Methylphenol	330 U
39638-32-9	bis(2-chloroisopropyl)Ether	330 U
106-44-5	4-Methylphenol	330 U
621-64-7	N-Nitroso-Di-n-Propylamine	330 U J
67-72-1	Hexachloroethane	330 U
98-95-3	Nitrobenzene	330 U J
78-59-1	Isophorone	330 U
88-75-5	2-Nitrophenol	330 U J
105-67-9	2,4-Dimethylphenol	330 U J
65-85-0	Benzoic Acid	1600 U J
111-91-1	bis(-2-Chloroethoxy)Methane	330 U
120-83-2	2,4-Dichlorophenol	330 U
120-82-1	1,2,4-Trichlorobenzene	330 U
91-20-3	Naphthalene	330 U
106-47-8	4-Chloroaniline	330 U J
87-68-3	Hexachlorobutadiene	330 U
59-50-7	4-Chloro-3-Methylphenol	330 U
91-57-6	2-Methylnaphthalene	330 U J
77-47-4	Hexachlorocyclopentadiene	330 U J
88-06-2	2,4,6-Trichlorophenol	330 U
95-95-4	2,4,5-Trichlorophenol	1600 U
91-58-7	2-Chloronaphthalene	330 U
88-74-4	2-Nitroaniline	1600 U J
131-11-3	Dimethyl Phthalate	330 U
208-96-8	Acenaphthylene	330 U
99-09-2	3-Nitroaniline	1600 U J

CAS Number		ug/Kg
83-32-9	Acenaphthene	330 U
51-28-5	2,4-Dinitrophenol	1600 U
100-02-7	4-Nitrophenol	1600 U
132-64-9	Dibenzofuran	330 U
121-14-2	2,4-Dinitrotoluene	330 U J
606-20-2	2,6-Dinitrotoluene	330 U
84-66-2	Diethylphthalate	330 U J
7005-72-3	4-Chlorophenyl-phenylether	330 U
86-73-7	Fluorene	330 U J
100-01-6	4-Nitroaniline	1600 U J
534-52-1	4,6-Dinitro-2-Methylphenol	1600 U
86-30-6	N-Nitrosodiphenylamine(1)	330 U J
101-55-3	4-Bromophenyl-phenylether	330 U
118-74-1	Hexachlorobenzene	330 U
87-86-5	Pentachlorophenol	1600 U
85-01-8	Phenanthrene	330 U
120-12-7	Anthracene	330 U
84-74-2	Di-n-Butylphthalate	330 U J
206-44-0	Fluoranthene	330 U
92-87-5	Benzidine	1600 U
129-00-0	Pyrene	330 U J
85-68-7	Butylbenzylphthalate	480
91-94-1	3,3'-Dichlorobenzidine	660 U
56-55-3	Benzo(a)Anthracene	330 U
117-81-7	bis(2-Ethylhexyl)Phthalate	330 U
218-01-9	Chrysene	330 U
117-84-0	Di-n-Octyl Phthalate	330 U
205-99-2	Benzo(b)Fluoranthene(2)	330 U
207-08-9	Benzo(k)Fluoranthene(2)	330 U
50-32-8	Benzo(a)Pyrene	330 U
193-39-5	Indeno(1,2,3-cd)Pyrene	330 U
53-70-3	Dibenz(a,h)Anthracene	330 U J
191-24-2	Benzo(g,h,i)Perylene	330 U

PJC
6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC
6-24-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED026

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Organics Analysis Data Sheet
(Page 3)

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Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1.5g/5ml

CAS Number		ug/Kg
319-84-6	Alpha-BHC	2.0 U
319-85-7	Beta-BHC	2.0 U
319-86-8	Delta-BHC	2.0 U
58-89-9	Gamma-BHC (Lindane)	2.0 U
76-44-8	Heptachlor	2.0 U
309-00-2	Aldrin	2.0 U
1024-57-3	Heptachlor Epoxide	2.0 U
959-98-8	Endosulfan I	2.0 U
60-57-1	Dieldrin	4.0 U
72-55-9	4,4'-DDE	4.0 U
72-20-8	Endrin	4.0 U
33213-65-9	Endosulfan II	4.0 U
72-54-8	4,4'-DDD	4.0 U
7421-93-4	Endrin Aldehyde	4.0 U
1031-07-8	Endosulfan Sulfate	4.0 U
50-29-3	4,4'-DDT	4.0 U
72-43-5	Methoxychlor	20 U
53494-70-5	Endrin Ketone	4.0 U
57-74-9	Chlordane	20 U
8001-35-2	Toxaphene	40 U
12674-11-2	Aroclor-1016	20 U
11104-28-2	Aroclor-1221	20 U
11141-16-5	Aroclor-1232	20 U
53469-21-9	Aroclor-1242	20 U
12672-29-6	Aroclor-1248	20 U
11097-69-1	Aroclor-1254	40 U
11096-82-5	Aroclor-1260	40 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 = NR or W_s = 1.5 V_t = 5000 V_i = 5

Prepared by: Ky

REVERT

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ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED026,

GC REPORT NO. 71 LAB SAMPLE NO. L8D501AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	4359-77-7	2-PENTANONE, 3-METHYLENE-	A/BN	251	919	1.0 UG/G
2.	110-02-1	THIOPHENE	A/BN	282	597	0.5 UG/G
3.	926-82-9	HEPTANE, 3, 5-DIMETHYL-	A/BN	303	949	0.9 UG/G
4.	123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	A/BN	322	902	4.1 UG/G
5.	110-12-3	2-HEXANONE, 5-METHYL-	A/BN	336	789	2.4 UG/G
6.	2216-34-4	OCTANE, 4-METHYL-	A/BN	344	935	1.4 UG/G
7.	2216-33-3	OCTANE, 3-METHYL-	A/BN	354	968	1.2 UG/G
8.	108-41-8	BENZENE, 1-CHLORO-3-METHYL-	A/BN	531	886	2.8 UG/G
9.	1316-80-9	CYCLOHEPTATRIENYLIUM, IODIDE	A/BN	623	842	1.5 UG/G
10.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	783	950	0.3 UG/G
11.	107-45-9	2-PENTANAMINE, 2, 4, 4-TRIMETHYL-	A/BN	987	845	2.1 UG/G
12.	107-45-9	2-PENTANAMINE, 2, 4, 4-TRIMETHYL-	A/BN	1000	844	2.0 UG/G
13.	107-45-9	2-PENTANAMINE, 2, 4, 4-TRIMETHYL-	A/BN	1136	843	1.2 UG/G
14.	57-10-3	HEXADECANOICACID	A/BN	1300	788	1.2 UG/G
15.	103-79-7	2-PROPANONE, 1-PHENYL-	A/BN	1388	715	0.8 UG/G
16	60-33-3	9, 12-OCTADECADIENOICACID(Z, Z)-	A/BN	1401	789	1.7 UG/G
17.	56554-96-2	2-OCTADECENAL	A/BN	1404	692	1.5 UG/G
18.	593-45-3	OCTADECANE	A/BN	1632	871	0.4 UG/G
19.	629-99-2	PENTACOSANE	A/BN	1682	844	0.4 UG/G
20.	29354-98-1	HEXADECANOL	A/BN	1888	782	0.3 UG/G

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	2-PENTANONE, 3-METHYLENE-	1 A	1.
2.	THIOPHENE	2 C	2.
3.	HEPTANE, 3, 5-DIMETHYL-	3 B	3. alkane
4.	2-PENTANONE, 4-HYDROXY-4-METHYL	4. A	4.
5.	2-HEXANONE, 5-METHYL-	5. B	5.
6.	OCTANE, 4-METHYL-	6 B	6. alkane
7.	OCTANE, 3-METHYL-	7. B	7. alkane
8.	BENZENE, 1-CHLORO-3-METHYL-	8 A	8. or isomer
9.	CYCLOHEPTATRIENYLIUM, IODIDE	9 B	9.
10	2H-AZEPIN-2-ONE, HEXAHYDRO-	10 A	10.
11.	2-PENTANAMINE, 2, 4, 4-TRIMETHYL-	11 B	11.
12.	2-PENTANAMINE, 2, 4, 4-TRIMETHYL-	12 B	12.

REVERA

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13.	2-PENTANAMINE, 2, 4, 4-TRIMETHYL-	13. B	13.
14.	HEXADECANOICACID	14. A	14.
15.	2-PROPANONE, 1-PHENYL-	15. B	15.
16.	9, 12-OCTADECADIENOICACID(Z, Z)-	16. B	16.
17.	2-OCTADECENAL	17. B	17. or isomer
18.	OCTADECANE	18. B	18. alkane
19.	PENTACOSANE	19. B	19. alkane
20.	HEXADECANOL	20. B	20.

No volatile compound's found

USE RERUN G-101

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 161

85F P06522

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L806
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By:
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	130 J
75-00-3	Chloroethane	83
75-09-2	Methylene Chloride	5.3 ~~U~~ J
67-64-1	Acetone	~~10 JB~~ 3.7 4J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	770
156-60-5	Trans-1,2-Dichloroethene	240
67-66-3	Chloroform	~~5 J~~ 4.7 J
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 5.5 4J
71-55-6	1,1,1-Trichloroethane	180
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

RJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	17
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	~~10 J~~ 1.4 J
127-18-4	Tetrachloroethene	13
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

RJC

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 indicates 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).

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.

ıvironmental Protection Agency, CLP Sample Management Office
r.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 161 RE

G-101

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L806
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By:
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/8/85
Date Analyzed: 5/8/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number			ug/L
74-87-3		Chloromethane	10 U
74-83-9		Bromomethane	10 U
75-01-4	*	Vinyl Chloride	110
75-00-3	*	Chloroethane	89
75-09-2		Methylene Chloride	~~5 J~~ 3.5 J
67-64-1		Acetone	10 U
75-15-0		Carbon Disulfide	5 U
75-35-4		1,1-Dichloroethene	5 U
75-34-3	*	1,1-Dichloroethane	890
156-60-5		Trans-1,2-Dichloroethene	190 240
67-66-3		Chloroform	5 U
107-06-2		1,2-Dichloroethane	5 U
78-93-3		2-Butanone	~~10 J~~ 1.3 J
71-55-6	*	1,1,1-Trichloroethane	270
56-23-5		Carbon Tetrachloride	5 U
108-05-4		Vinyl Acetate	10 U J
75-27-4		Bromodichloromethane	5 U J

RJC 6-24-85

CAS Number			ug/L
79-34-5		1,1,2,2-Tetrachloroethane	5 U
78-87-5		1,2-Dichloropropane	5 U
10061-02-6		Trans-1,3-Dichloropropene	5 U
79-01-6	*	Trichloroethene	20
124-48-1		Dibromochloromethane	5 U
79-00-5		1,1,2-Trichloroethane	5 U
71-43-2		Benzene	5 U
10061-01-5		cis-1,3-Dichloropropene	5 U
110-75-8		2-Chloroethylvinylether	10 U J
75-25-2		Bromoform	5 U J
591-78-6		2-Hexanone	10 U
108-10-1		4-Methyl-2-Pentanone	10 U
127-18-4	*	Tetrachloroethene	17
108-88-3		Toluene	5 U
108-90-7		Chlorobenzene	5 U
100-41-4		Ethylbenzene	5 U
100-42-5		Styrene	5 U
		Total Xylenes	5 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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

G-101

Sample Number
ED 161

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	~~10 J~~ 9.0 J
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U J
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	~~10 J~~ 2.4 J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	11 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	13
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

PSC
6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PSC
6-24-85

Prepared by: DB

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED161

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Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

RECEIVED JUL 0 8 1985

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED161

GC REPORT NO. 71 LAB SAMPLE NO. LB0603V

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

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	354-23-4	ETHANE, 1, 2-DICHLORO-1, 1, 2-TRIF	VOA	162	953	64.7 UG/L
2.	76-13-1	ETHANE, 1, 1, 2-TRICHLORO-1, 2, 2-T	VOA	199	832	87.1 UG/L
3.	873-94-9	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	VOA	628	828	4.4 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHANE, 1, 2-DICHLORO-1, 1, 2-TRIF	1. A	1.
2. ETHANE, 1, 1, 2-TRICHLORO-1, 2, 2-T	2. A	2.
3. CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	3. A	3.

ORGANICS ANALYSIS DATA SHEET

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LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED161.

QC REPORT NO. 71 LAB SAMPLE NO. L80601AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	127-18-4	ETHENE, TETRACHLORO-	A/BN	255	983	23.3 UG/L
2.	1569-01-3	2-PROPANOL, 1-PROPOXY-	A/BN	311	758	26.4 UG/L
3.	873-94-9	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	A/BN	565	872	903.6 UG/L
4.	116-02-9	CYCLOHEXANOL, 3, 3, 5-TRIMETHYL-	A/BN	584	874	629.8 UG/L
5.	78-59-1	2-CYCLOHEXEN-1-ONE, 3, 5, 5-TRIME	A/BN	652	915	18.3 UG/L
6.	23436-19-3	2-PROPANOL, 1-(2-METHYLPROPOXY)	A/BN	689	675	25.0 UG/L
7.	111-92-2	1-BUTANAMINE, N-BUTYL-	A/BN	725	735	28.5 UG/L
8.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	826	869	474.9 UG/L
9.	10544-50-0	SULFUR, MOL. (S8)	A/BN	1355	963	46.3 UG/L
10.	30278-08-1	1-HEXANAMINE, N-BUTYL-	A/BN	1487	445	15.4 UG/L

	COMPOUND NAME	PROBABILITY	COMMENTS
1.	ETHENE, TETRACHLORO-	1. A	1. see VOA
2.	2-PROPANOL, 1-PROPOXY-	2. A	2.
3.	CYCLOHEXANONE, 3, 3, 5-TRIMETHYL-	3. A	3.
4.	CYCLOHEXANOL, 3, 3, 5-TRIMETHYL-	4. A	4.
5.	2-CYCLOHEXEN-1-ONE, 3, 5, 5-TRIME	5. A	5.
6.	2-PROPANOL, 1-(2-METHYLPROPOXY)	6. B	6.
7.	1-BUTANAMINE, N-BUTYL-	7. B	7.
8.	2H-AZEPIN-2-ONE, HEXAHYDRO-	8. A	8.
9.	SULFUR, MOL. (S8)	9. A	9.
10.	1-HEXANAMINE, N-BUTYL-	10. C	10.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 023

G101 DUP

85FP06D22

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L803
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: USM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/2/85
Date Analyzed: 5/2/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	130 J
75-00-3	Chloroethane	78
75-09-2	Methylene Chloride	5.8 ~~U~~ J
67-64-1	Acetone	~~10 JB~~ 5.2 4 J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	730
156-60-5	Trans-1,2-Dichloroethene	200
67-66-3	Chloroform	~~5 J~~ 4.2 J
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 5.5 4 J
71-55-6	1,1,1-Trichloroethane	180
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PTC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	17
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	~~10 J~~ 1.7 J
127-18-4	Tetrachloroethene	13
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PTC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 023 RE

6-10 DUP

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 0 8 1985

Laboratory Name: California Analytical Laboratories, Inc.
Case No: 4214
Lab Sample ID No: L803
QC Report No: 71
Sample Matrix: WATER
Contract No: 68-01-6958
Data Release Authorized By: WSM
Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low
Date Extracted/Prepared: 5/8/85
Date Analyzed: 5/8/85
Conc/Dil Factor: 1 pH: NR
Percent Moisture: NR
Percent Moisture (Decanted): NR

CAS Number			ug/L
74-87-3		Chloromethane	10 U
74-83-9		Bromomethane	10 U
75-01-4	*	Vinyl Chloride	100
75-00-3	*	Chloroethane	92
75-09-2		Methylene Chloride	~~5 J~~ 4.0 J
67-64-1		Acetone	~~10 JB~~ 5.1 UJ
75-15-0		Carbon Disulfide	5 U
75-35-4		1,1-Dichloroethene	5 U
75-34-3	*	1,1-Dichloroethane	940
156-60-5	*	Trans-1,2-Dichloroethene	230
67-66-3		Chloroform	5 U
107-06-2		1,2-Dichloroethane	5 U
78-93-3		2-Butanone	10 UJ
71-55-6	*	1,1,1-Trichloroethane	250
56-23-5		Carbon Tetrachloride	5 U
108-05-4		Vinyl Acetate	10 UJ
75-27-4		Bromodichloromethane	5 UJ

CAS Number			ug/L
79-34-5		1,1,2,2-Tetrachloroethane	5 U
78-87-5		1,2-Dichloropropane	5 U
10061-02-6		Trans-1,3-Dichloropropene	5 U
79-01-6	*	Trichloroethene	20
124-48-1		Dibromochloromethane	5 U
79-00-5		1,1,2-Trichloroethane	5 U
71-43-2		Benzene	5 U
10061-01-5		cis-1,3-Dichloropropene	5 U
110-75-8		2-Chloroethylvinylether	10 UJ
75-25-2		Bromoform	5 UJ
591-78-6		2-Hexanone	10 U
108-10-1		4-Methyl-2-Pentanone	10 U
127-18-4	*	Tetrachloroethene	16
108-88-3		Toluene	5 U
108-90-7		Chlorobenzene	5 U
100-41-4		Ethylbenzene	5 U
100-42-5		Styrene	5 U
		Total Xylenes	5 U

PJC
6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 023

DUP

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/22/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U J
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	~~10 J~~ 4.4 J
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U J
100-02-7	4-Nitrophenol	50 U J
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U J
84-66-2	Diethylphthalate	10 U
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U
100-01-6	4-Nitroaniline	50 U
534-52-1	4,6-Dinitro-2-Methylphenol	50 U J
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	~~10 J~~ 2.4 J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 J~~ B 5.8 VJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	10 U
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U J
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC 6-24-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED023

Dup

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/21/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

KY

RECEIVED JUL 08 1985

DUP

ORGANICS ANALYSIS DATA SHEET

LAB NAME: CAL 71 CASE NO. 4214 SAMPLE NO. ED023

QC REPORT NO. LAB SAMPLE NO. LB0303V

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

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. VALUE
1	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-TRIF	VOA	162	954	64.5 UG/L
2	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,2-T	VOA	199	834	8[illegible].7 UG/L
3	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETHYL-	VOA	628	598	25.7 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHANE, 1,2-DICHLORO-1,1,2-TRIF	1. A	1.
2. ETHANE, 1,1,2-TRICHLORO-1,2,2-T	2. A	2.
3. CYCLOHEXANONE, 3,3,5-TRIMETHYL-	3. A	3.

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED023, G101 DUP

QC REPORT NO. 71 LAB SAMPLE NO. L80301AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	127-18-4	ETHENE, TETRACHLORO-	A/BN	252	974	23.5 UG/L
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	A/BN	304	941	33.3 UG/L
3.	1860-27-1	BUTANE, 1-(1-METHYLETHOXY)-	A/BN	540	737	27.6 UG/L
4.	3524-75-2	CYCLOPENTANE, 2-PROPENYL-	A/BN	550	701	19.0 UG/L
5.	873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETHYL-	A/BN	564	883	685.3 UG/L
6.	116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHYL-	A/BN	581	873	276.8 UG/L
7.	111-92-2	1-BUTANAMINE, N-BUTYL-	A/BN	724	739	25.6 UG/L
8.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	807	855	336.6 UG/L
9.	10544-50-0	SULFUR, MOL. (S8)	A/BN	1355	957	37.3 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. ETHENE, TETRACHLORO-	1. D	1.
2. 2-PENTANONE, 4-HYDROXY-4-METHYL	2. A	2.
3. BUTANE, 1-(1-METHYLETHOXY)-	3. B	3.
4. CYCLOPENTANE, 2-PROPENYL-	4. B	4.
5. CYCLOHEXANONE, 3,3,5-TRIMETHYL-	5. A	5. or isomer
6. CYCLOHEXANOL, 3,3,5-TRIMETHYL-	6. B	6.
7. 1-BUTANAMINE, N-BUTYL-	7. B	7.
8. 2H-AZEPIN-2-ONE, HEXAHYDRO-	8. A	8.
9. SULFUR, MOL. (S8)	9. A	9.

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Sample Number
ED 162

6-10L

85FP06523

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Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L807

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MM

Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/3/85

Date Analyzed: 5/3/85

Conc/Dil Factor: ~~100~~ 5.0 pH: NR

Percent Moisture: 100

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	50 U J
74-83-9	Bromomethane	50 U
75-01-4	Vinyl Chloride	50 U J
75-00-3	Chloroethane	50 U
75-09-2	Methylene Chloride	9.3 B J
67-64-1	Acetone	71 B J
75-15-0	Carbon Disulfide	25 U J
75-35-4	1,1-Dichloroethene	25 U
75-34-3	1,1-Dichloroethane	25 U
156-60-5	Trans-1,2-Dichloroethene	13
67-66-3	Chloroform	25 U
107-06-2	1,2-Dichloroethane	25 U
78-93-3	2-Butanone	38 B J
71-55-6	1,1,1-Trichloroethane	25 U
56-23-5	Carbon Tetrachloride	25 U
108-05-4	Vinyl Acetate	50 U J
75-27-4	Bromodichloromethane	25 U J

FTC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	25 U
78-87-5	1,2-Dichloropropane	25 U
10061-02-6	Trans-1,3-Dichloropropene	25 U
79-01-6	Trichloroethene	25 U
124-48-1	Dibromochloromethane	25 U
79-00-5	1,1,2-Trichloroethane	25 U
71-43-2	Benzene	25 U
10061-01-5	cis-1,3-Dichloropropene	25 U
110-75-8	2-Chloroethylvinylether	50 U J
75-25-2	Bromoform	25 U J
591-78-6	2-Hexanone	50 U
108-10-1	4-Methyl-2-Pentanone	50 U
127-18-4	Tetrachloroethene	25 U
108-88-3	Toluene	25 U
108-90-7	Chlorobenzene	25 U
100-41-4	Ethylbenzene	25 U
100-42-5	Styrene	25 U
	Total Xylenes	25 U

FTC 6-24-85

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 indicates 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).

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.

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G-100

Sample Number
ED162

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

Environmental Protection Agency, CLP Sample Management Office
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G-102

Sample Number
ED 162

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/23/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U J
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U J
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	~~10 JB~~ 3.6 J
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	~~10 J~~ 8.8 J
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PSC 6-24-85

ORGANICS ANALYSIS DATA SHEET

RECEIVED JUL 0 8 1985

LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED 162 G-102

QC REPORT NO. 71 LAB SAMPLE NO. L80701AB

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL	A/BN	308	952	31.9 UG/L
2.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	827	940	236.2 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2-PENTANONE, 4-HYDROXY-4-METHYL	1. A	1. see blank
2. 2H-AZEPIN-2-ONE, HEXAHYDRO-	2. A	2.

No volatile compounds found

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 163

G-103

85FP06524

RECEIVED JUL 0 8 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: California Analytical Laboratories, Inc.

Case No: 4214

Lab Sample ID No: L808

QC Report No: 71

Sample Matrix: WATER

Contract No: 68-01-6958

Data Release Authorized By: MGM

Date Sample Received: 4/26/85

Volatile Compounds

Concentration: Low

Date Extracted/Prepared: 5/2/85

Date Analyzed: 5/2/85

Conc/Dil Factor: 1 pH: NR

Percent Moisture: NR

Percent Moisture (Decanted): NR

CAS Number		ug/L
74-87-3	Chloromethane	10 U J
74-83-9	Bromomethane	10 U
75-01-4	Vinyl Chloride	10 U J
75-00-3	Chloroethane	10 U
75-09-2	Methylene Chloride	~~5 JB~~ 2.8 4J
67-64-1	Acetone	11 ~~B~~ J
75-15-0	Carbon Disulfide	5 U J
75-35-4	1,1-Dichloroethene	5 U
75-34-3	1,1-Dichloroethane	10
156-60-5	Trans-1,2-Dichloroethene	30
67-66-3	Chloroform	5 U
107-06-2	1,2-Dichloroethane	5 U
78-93-3	2-Butanone	~~10 JB~~ 7.1 4J
71-55-6	1,1,1-Trichloroethane	37
56-23-5	Carbon Tetrachloride	5 U
108-05-4	Vinyl Acetate	10 U J
75-27-4	Bromodichloromethane	5 U J

PJC 6-24-85

CAS Number		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	5 U
78-87-5	1,2-Dichloropropane	5 U
10061-02-6	Trans-1,3-Dichloropropene	5 U
79-01-6	Trichloroethene	5.1
124-48-1	Dibromochloromethane	5 U
79-00-5	1,1,2-Trichloroethane	5 U
71-43-2	Benzene	5 U
10061-01-5	cis-1,3-Dichloropropene	5 U
110-75-8	2-Chloroethylvinylether	10 U J
75-25-2	Bromoform	5 U J
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	10 U
127-18-4	Tetrachloroethene	6.3
108-88-3	Toluene	5 U
108-90-7	Chlorobenzene	5 U
100-41-4	Ethylbenzene	5 U
100-42-5	Styrene	5 U
	Total Xylenes	5 U

PJC 6-24-85

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 indicates 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).

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.

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED 163

G-103

Organics Analysis Data Sheet
(Page 2)

RECEIVED JUL 0 8 1985

Semivolatile Compounds

Concentration: Low

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/23/85

Conc/DiL Factor: 1000 ML/ 2ML

CAS Number		ug/L
62-75-9	N-Nitrosodimethylamine	NR
108-95-2	Phenol	10 U
62-53-3	Aniline	10 U
111-44-4	bis(-2-Chloroethyl)Ether	10 U
95-57-8	2-Chlorophenol	10 U
541-73-1	1,3-Dichlorobenzene	10 U
106-46-7	1,4-Dichlorobenzene	10 U
100-51-6	Benzyl Alcohol	10 U J
95-50-1	1,2-Dichlorobenzene	10 U
95-48-7	2-Methylphenol	10 U
39638-32-9	bis(2-chloroisopropyl)Ether	10 U
106-44-5	4-Methylphenol	10 U
621-64-7	N-Nitroso-Di-n-Propylamine	10 U J
67-72-1	Hexachloroethane	10 U
98-95-3	Nitrobenzene	10 U J
78-59-1	Isophorone	10 U
88-75-5	2-Nitrophenol	10 U J
105-67-9	2,4-Dimethylphenol	10 U J
65-85-0	Benzoic Acid	50 U J
111-91-1	bis(-2-Chloroethoxy)Methane	10 U
120-83-2	2,4-Dichlorophenol	10 U
120-82-1	1,2,4-Trichlorobenzene	10 U
91-20-3	Naphthalene	10 U
106-47-8	4-Chloroaniline	10 U J
87-68-3	Hexachlorobutadiene	10 U
59-50-7	4-Chloro-3-Methylphenol	10 U
91-57-6	2-Methylnaphthalene	10 U J
77-47-4	Hexachlorocyclopentadiene	10 U J
88-06-2	2,4,6-Trichlorophenol	10 U
95-95-4	2,4,5-Trichlorophenol	50 U
91-58-7	2-Chloronaphthalene	10 U
88-74-4	2-Nitroaniline	50 U J
131-11-3	Dimethyl Phthalate	10 U
208-96-8	Acenaphthylene	10 U
99-09-2	3-Nitroaniline	50 U J

CAS Number		ug/L
83-32-9	Acenaphthene	10 U
51-28-5	2,4-Dinitrophenol	50 U
100-02-7	4-Nitrophenol	50 U
132-64-9	Dibenzofuran	10 U
121-14-2	2,4-Dinitrotoluene	10 U J
606-20-2	2,6-Dinitrotoluene	10 U
84-66-2	Diethylphthalate	10 U J
7005-72-3	4-Chlorophenyl-phenylether	10 U
86-73-7	Fluorene	10 U J
100-01-6	4-Nitroaniline	50 U J
534-52-1	4,6-Dinitro-2-Methylphenol	50 U
86-30-6	N-Nitrosodiphenylamine(1)	10 U J
101-55-3	4-Bromophenyl-phenylether	10 U
118-74-1	Hexachlorobenzene	10 U
87-86-5	Pentachlorophenol	50 U
85-01-8	Phenanthrene	10 U
120-12-7	Anthracene	10 U
84-74-2	Di-n-Butylphthalate	10 U J
206-44-0	Fluoranthene	10 U
92-87-5	Benzidine	100 U
129-00-0	Pyrene	10 U J
85-68-7	Butylbenzylphthalate	10 U
91-94-1	3,3'-Dichlorobenzidine	20 U
56-55-3	Benzo(a)Anthracene	10 U
117-81-7	bis(2-Ethylhexyl)Phthalate	11 BJ
218-01-9	Chrysene	10 U
117-84-0	Di-n-Octyl Phthalate	11
205-99-2	Benzo(b)Fluoranthene(2)	10 U
207-08-9	Benzo(k)Fluoranthene(2)	10 U
50-32-8	Benzo(a)Pyrene	10 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10 U
53-70-3	Dibenz(a,h)Anthracene	10 U J
191-24-2	Benzo(g,h,i)Perylene	10 U

PJC
6-24-85

(1) - Cannot be separated from diphenylamine
(2) - Compounds Co-elute - Analyzed as a single compound

PJC
6-24-85

Environmental Protection Agency, CLP Sample Management Office
P.O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
ED163

G103

Organics Analysis Data Sheet
(Page 3)

RECEIVED JUL 0 8 1985

Pesticide/PCBs

Concentration: LOW

Date Extracted/Prepared: 4/30/85

Date Analyzed: 5/17/85

Conc/Dil Factor: 1L/25ml

CAS Number		ug/L
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
7421-93-4	Endrin Aldehyde	0.10 U
1031-07-8	Endosulfan Sulfate	0.10 U
50-29-3	4,4'-DDT	0.10 U
72-43-5	Methoxychlor	0.50 U
53494-70-5	Endrin Ketone	0.10 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.0 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.0 U
11096-82-5	Aroclor-1260	1.0 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 = 25000 V_i = 5

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

Date Received for Review: 10/8/85 Date Review Completed: 10/11/85

To: Kevin Phillips

From: Arlene Pratl

Subject: Peoples Ave Dump ROS-8303-016 (All)

Sample Description: Case # 4214 low water metals + Cyanide

Project Data Status: complete

FIT Data Review Findings:

See attached CRL review.

Fe + Zn outside QC limits for dup-s ME 3805 + ME 3825
Ca, Fe, Ag, Na + Zn in field blank ME 3827
ME 3826 + MED 354 dup OK
AL, Ca, Fe, Pb, Mg + Na detected in field blank ME 3828
Additional Comments: these compds are of questionable value

Book No. 4
Page No. 212

35X:3M

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ORGANICS ANALYSIS DATA SHEET

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LAB NAME: CAL CASE NO. 4214 SAMPLE NO. ED163, GP3

QC REPORT NO 71 LAB SAMPLE NO. LB0EC1AD

PROBABILITY THAT IDENTIFICATION IS CORRECT:
A= HIGH B= MODERATE C= LOW D= SOLVENT IMPURITY, SEE VOA

	CAS#	COMPOUND NAME	FRACTION	SCAN NUMBER	PURITY	ESTIMATED CONC. J VALUE
1.	105-60-2	2H-AZEPIN-2-ONE, HEXAHYDRO-	A/BN	816	937	143.5 UG/L

COMPOUND NAME	PROBABILITY	COMMENTS
1. 2H-AZEPIN-2-ONE, HEXAHYDRO-	1. A	1.

No volatile compounds found

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

Transmitted
6/12/85

6·6·85

T: Review of Region V CLP Data
Received for Review on 6/4/85

M. Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thakker

O: Data User: Fit

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

SITE NAME: Peoples Ave Dump SMO Case No. 4214

EPA Data Set No. SF2292 No. of Samples: 29 D.U./Activity Numbers 49051C48500

CRL No. 85FP05599 - 85FP06524

SMO Traffic No. ME3801 - ME3829 ; MED354

CLP Laboratory: Chemtech Hrs. Required for Review: 5 hrs.

Following are our findings.

This review covers 29 low concentration water samples. The analysis was one on two days; a batch of the first twenty one samples was run on May 21st and the last ~~more~~ eight were run on May 22nd. Concerning the batch of 21 (sample #'s ME 3801-3812, 3814-3820, 3825, 3827), he spike recovery was low for Fe (67%), Hg (0%), Se (60%) and Tl (60%). ~~The Se~~, Hg ~~and Tl~~ data is unusable for this batch of 21 samples. The spike recovery for Ag (380%) was biased high and is unusable for this batch. Two duplicates were run with this batch; the duplicate precision was poor for (67%) and Zn (40%) in the second duplicate.
Concerning the second batch of 8 samples (# ME 3821-24, 3826, 3828, 3829, MED354): the spike recovery for As (50%) and Pb (70%) was biased low. The As data is unusable for this batch. he spike recovery was biased high for Ag (652%), and the Ag data is unusable for this batch. Neither a duplicate nor a laboratory control sample was run in this batch.
(However, the correct number of Q.C. audits were performed for the case as a whole.)

Jan F. Pels
6/6/85

( ) 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: Dr. Alfred Haeberer/Joan Fisk/Gary Ward, EPA Support Services
Ross K. Robeson, EMSL-Las Vegas
Don Trees, CLP/Sample Management Office

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PA FORM 1320-6 (REV 3-78)

ESD/Central Regional Laboratory

DATA TRACKING - FORM I

CRL Data Set No. SF 2292 ERRIS No. _____

SMO Case No. 4214 Site Name: Peoples Ave Dump/Interstate

Name of Laboratory: Chemtech Data User: Fit

No. of Samples: 29 Date Samples Received: 6/4/85

1. Have chain-of-custody records been received? YES ✓ NO ___
2. Have Traffic reports been received? YES ✓ NO ___
3. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___
4. If no, which Traffic report numbers are missing?

5. Are basic data forms in? YES ✓ NO ___
6. Number of samples claimed: 29 Number of samples received: 29
7. Checked by: [illegible] Date: 6/4/85
8. Received by Contract Project Management Section: [illegible] Date: 6.4.85
9. Review Started: 6/4/85 Reviewer Signature: [illegible]
10. Total time spent on review: 5 hrs Date review completed: 6/8/85
11. Copied (xeroxed) by: _____ Date: _____
12. Mailed to Data User by: _____ Date: _____

TO DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, 5SCRL

13. Data received by: Arlene Brave Date: 10/10/85
14. Q.A. review received by: Arlene Brave Date: 10/10/85
15. Received by CRL - CPM Section for file by: _____

Date: _____

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5F2292

Date 5-30-85

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name CHEMTECH CONSULTING GROUP Case No. 4214

SOW No. 784 Q.C. Report No. 476

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
ME 3804	G2-476-01	ME 3817	G2-476-10
3805	-02	3818	-11
3806	-03	3819	-12
3807	-04	3825	-13
3808	-05	3827	-14
3809	-06	3801	-15
3810	-07	3802	-16
3811	-08	3803	-17
3816	-09	3812	-18

Comments: Since there is no silver or cobalt found in the samples, analyses were not repeated even though a continuing calibration for silver and an LCS for cobalt are out of control.

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536 S. CLARK STREET
CHICAGO, ILLINOIS 60605

ICP Interelement and background corrections applied? Yes ✓ No ___.

If yes, corrections applied before ✓ or after calculation 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 analytical 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., 10U).

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.

R - 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

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COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name CHEMTECH CONSULTING GROUP

Case No. _____

SOW No. _____

Q.C. Report No. _____

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
ME 3814	G2-476-19	ME 3829	G2-476-28
3815	-20	MED 354	G2-476-29
3820	-21		
3821	-22		
3822	-23		
3823	-24		
3824	-25		
3826	-26		
3828	-27		

Comments:

ICP Interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ 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 analytical 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., 10U).

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.

R - 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

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MW-1A
85FP06501

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EPA Sample No.
ME. 3804

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-01 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	50 UP	13.	Magnesium	30970 P
2.	Antimony	50 UP	14.	Manganese	202 P
3.	Arsenic	10 UF	15.	Mercury	0.2UR
4.	Barium	213 P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	6746 P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	53220 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	22850 P
9.	Cobalt	20 UP	21.	Thallium	10UFR
10.	Copper	20 UP	22.	Tin	30UF
11.	Iron	[92] PR	23.	Vanadium	20 UP
12.	Lead	7.9 F	24.	Zinc	58 P
	Cyanide	10U		Percent Solids (%)	

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:

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Lab Manager

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85FP06502 MW 1B

EPA Sample No. ME. 3805

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-02 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[57] P	13.	Magnesium	39380 P
2.	Antimony	50 UP	14.	Manganese	82 P
3.	Arsenic	10 UF	15.	Mercury	0.2UR
4.	Barium	262 P	16.	Nickel	20UP
5.	Beryllium	5 UP	17.	Potassium	56990 P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	59750 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	139400 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	[22] P	22.	Tin	30UF
11.	Iron	549 PR	23.	Vanadium	20 UP
12.	Lead	5 UF	24.	Zinc	24 P

Cyanide 11 Percent Solids (%)

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:

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EPA Sample No. ME. 3806

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

AB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

AB SAMPLE ID. NO. G2-476-03 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

atrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[71] P	13.	Magnesium	15840 P
.	Antimony	50 UP	14.	Manganese	32 P
3.	Arsenic	10 UF	15.	Mercury	0.2UR
.	Barium	512 P	16.	Nickel	20 UP
.	Beryllium	5 UP	17.	Potassium	38810 P
.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	20320 P	19.	Silver	10 UPR
.	Chromium	10 UP	20.	Sodium	93530 P
.	Cobalt	20 UP	21.	Thallium	10 UFR
0.	Copper	20 UP	22.	Tin	30 UF
1.	Iron	[74] PR	23.	Vanadium	20 UP
2.	Lead	5.4F	24.	Zinc	39 P
Cyanide		10U		Percent Solids (%)	

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:

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85F06504
EPA Sample No. ME. 3807
MW 2B

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-04 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[123] P	13.	Magnesium	38580 P
2.	Antimony	50 UP	14.	Manganese	882 P
3.	Arsenic	10 UF	15.	Mercury	0.2UR
4.	Barium	254 P	16.	Nickel	[32] P
5.	Beryllium	5 UP	17.	Potassium	42090 P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	94990 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	143700 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	48 P	22.	Tin	30 UF
11.	Iron	112 PR	23.	Vanadium	20 UP
12.	Lead	21 F	24.	Zinc	66 P
Cyanide		10U	Percent Solids (%)		

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:

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EPA Sample No. ME. 3808 3A

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-05 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	228 P	13.	Magnesium	51700 P
2.	Antimony	50 UP	14.	Manganese	189 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	236 P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	83180 P
6.	Cadmium	5 UP	18.	Selenium	10 UFER
7.	Calcium	94520 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	508000 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	20 UP	22.	Tin	300 UF
11.	Iron	2875 PR	23.	Vanadium	20 UP
12.	Lead	15 FS	24.	Zinc	224 P
	Cyanide	18		Percent Solids (%)	

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

Comments: FOR SELENIUM, "E" DENOTES MATRIX INTERFERENCE.

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Form 1

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85FP06506

EPA Sample No. MW-3B
ME. 3809

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-06

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	[57] P	13.	Magnesium	21600 P
2.	Antimony	50 UP	14.	Manganese	596 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[89] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	35570 P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	69240 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	49880 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	20 UP	22.	Tin	30 UF
11.	Iron	[61] PR	23.	Vanadium	20 UP
12.	Lead	14 F	24.	Zinc	42 P
Cyanide		10 U	Percent Solids (%)		

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:

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EPA Sample No.
MW-4A
ME. 3810

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-07 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[139] P	13.	Magnesium	34740 P
2.	Antimony	50 UP	14.	Manganese	94 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[63] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[2693] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	71110 P	19.	Silver	10 UPR
8.	Chromium	10 P	20.	Sodium	26550 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	[23] P	22.	Tin	30 UF
11.	Iron	739 PR	23.	Vanadium	20 UP
12.	Lead	7.8 F	24.	Zinc	48 P
	Cyanide	10 U		Percent Solids (%)	

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:

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EPA Sample No. MW-4B
ME. 3811

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-08

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[73] P	13.	Magnesium	36990 P
2.	Antimony	50 UP	14.	Manganese	163 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	50 UP	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[2379] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	100800 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	50960 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	[23] P	22.	Tin	30 UF
11.	Iron	[56] PR	23.	Vanadium	20 UP
12.	Lead	12 F	24.	Zinc	30 P
Cyanide		10 U	Percent Solids (%)		

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.

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Comments:

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85FP06612

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EPA Sample No.
MW-7
ME. 3816

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-09 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[86] P	13.	Magnesium	36700 P
2.	Antimony	50 UP	14.	Manganese	367 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[107] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[1509] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	72170 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	17620 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	20 UP	22.	Tin	30 UF
11.	Iron	176 PR	23.	Vanadium	20 UP
12.	Lead	7.5 F	24.	Zinc	44 P
	Cyanide	10 U		Percent Solids (%)	

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.

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Comments: ____

Lab Manager E. Hedrick

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85FP06513
EPA Sample No. MW-8
ME. 3817

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-10 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[109] P	13.	Magnesium	39310 P
2.	Antimony	50 UP	14.	Manganese	15 UP
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[62] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[2263] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	71590 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	19590 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	20 UP	22.	Tin	30 UF
11.	Iron	[75] PR	23.	Vanadium	20 UP
12.	Lead	5.5 FE	24.	Zinc	51 P
Cyanide		10 U	Percent Solids (%)		

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.

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EPA Sample No. MW-9
ME. 3818

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-11 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[97] P	13.	Magnesium	36400 P
2.	Antimony	50 UP	14.	Manganese	573 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[154] P	16.	Nickel	65 P
5.	Beryllium	5 UP	17.	Potassium	79610 P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	38030 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	158500 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	48 P	22.	Tin	30 UF
11.	Iron	116 PR	23.	Vanadium	20 UP
12.	Lead	11 FS	24.	Zinc	79 P
Cyanide		10 U	Percent Solids (%)		

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EPA Sample No. MW-10
ME. 3819

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-12 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[66]P	13.	Magnesium	38490 P
2.	Antimony	50UP	14.	Manganese	114 P
3.	Arsenic	10UF	15.	Mercury	0.2UR
•	Barium	258 P	16.	Nickel	[20]P
•	Beryllium	5UP	17.	Potassium	94210 P
•	Cadmium	5UP	18.	Selenium	10UFER
7.	Calcium	42210 P	19.	Silver	10UPR
•	Chromium	10UP	20.	Sodium	171600 P
•	Cobalt	20UP	21.	Thallium	10UFR
10.	Copper	20UP	22.	Tin	30UF
11.	Iron	176 PR	23.	Vanadium	20UP
12.	Lead	13F	24.	Zinc	32 P
	Cyanide	10U		Percent Solids (%)	

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.

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INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-14 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or ug/kg dry weight (Circle One)

1.	Aluminum	50 UP	13.	Magnesium	150 UP
2.	Antimony	50 UP	14.	Manganese	15 UP
3.	Arsenic	10 UF	15.	Mercury	0.2UR
4.	Barium	50 UP	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	1000 UP
6.	Cadmium	5 UP	18.	Selenium	5UFR
7.	Calcium	[639]P	19.	Silver	12 PR
8.	Chromium	10 UP	20.	Sodium	[1447]P
9.	Cobalt	20UP	21.	Thallium	10 UFR
10.	Copper	20UP	22.	Tin	30UF
11.	Iron	[60]PR	23.	Vanadium	20UP
12.	Lead	5 UF	24.	Zinc	[13]P
	Cyanide	10U		Percent Solids (%)	

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.

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INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-15

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	5104 P	13.	Magnesium	47470 P
2.	Antimony	50 UP	14.	Manganese	706 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[150] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	5935 P
6.	Cadmium	5 UP	18.	Selenium	8.0 FR
7.	Calcium	85820 P	19.	Silver	10 UPR
8.	Chromium	27 P	20.	Sodium	664300 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	70 P	22.	Tin	300 UF
11.	Iron	9883 PR	23.	Vanadium	[24] P
12.	Lead	23 F	24.	Zinc	86 P
Cyanide		10 U	Percent Solids (%)		

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85FP06524
EPA Sample No.
G-103
ME. 3802

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-16 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[59] P	13.	Magnesium	31120 P
2.	Antimony	50 UP	14.	Manganese	15 UP
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	50 UP	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[2200] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	63100 P	19.	Silver	10 UPR
8.	Chromium	81 P	20.	Sodium	32660 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	20 UP	22.	Tin	30 UF
11.	Iron	165 PR	23.	Vanadium	20 UP
12.	Lead	5 UF	24.	Zinc	44 P
Cyanide		10 U	Percent Solids (%)		

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.

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EPA Sample No.
G-104
ME. 3803

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-17 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	50 UP	13.	Magnesium	32410 P
2.	Antimony	50 UP	14.	Manganese	501 P
3.	Arsenic	10 UF	15.	Mercury	0.2 UR
4.	Barium	[70] P	16.	Nickel	[35] P
5.	Beryllium	5 UP	17.	Potassium	[2412] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	106400 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	89790 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	30 P	22.	Tin	30 UF
11.	Iron	[84] PR	23.	Vanadium	20 UP
12.	Lead	5 UF	24.	Zinc	45 P
Cyanide		10 U	Percent Solids (%)		

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85 FP06509

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...nagement Office
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INORGANIC ANALYSIS DATA SHEET

...B NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

...W NO. 784

...AB SAMPLE ID. NO. G2-476-18 QC REPORT NO. 476

Elements Identified and Measured

...oncentration: Low ✓ Medium ____

...trix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

...	Aluminum	50 UP	13.	Magnesium	31090 P
...	Antimony	50 UP	14.	Manganese	168 P
...	Arsenic	10 UF	15.	Mercury	0.2 UR
...	Barium	[64] P	16.	Nickel	20 UP
...	Beryllium	5 UP	17.	Potassium	[3163] P
...	Cadmium	5 UP	18.	Selenium	5 UFR
...	Calcium	55020 P	19.	Silver	10 UPR
...	Chromium	10 UP	20.	Sodium	21800 P
...	Cobalt	20 UP	21.	Thallium	10 UFR
...	Copper	20 UP	22.	Tin	30 UF
...	Iron	659 PR	23.	Vanadium	20 UP
...	Lead	5 UF	24.	Zinc	47 P
...yanide		10 U		Percent Solids (%)	

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85FP06510
EPA Sample No. MW-5B
ME. 3814

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. 62-476-19 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low / Medium ____

Matrix: Water / Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	50 UP	13.	Magnesium	41630 P
2.	Antimony	50 UP	14.	Manganese	112 P
3.	Arsenic	10 UF	15.	Mercury	0.2UR
4.	Barium	[60] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[1637] P
6.	Cadmium	5 UP	18.	Selenium	5 UFR
7.	Calcium	113600 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	35670 P
9.	Cobalt	20 UP	21.	Thallium	10 UFR
10.	Copper	20 UP	22.	Tin	30 UF
11.	Iron	[47] PR	23.	Vanadium	20 UP
12.	Lead	5 UF	24.	Zinc	36 P

Cyanide 10U Percent Solids (%)

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.

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MW-11
ME. 3820

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-21 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low / Medium ____

Matrix: Water / Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	50 UP	13.	Magnesium	35380 P
2.	Antimony	50 UP	14.	Manganese	146 P
3.	Arsenic	10 UFR	15.	Mercury	0.2U
4.	Barium	[74] P	16.	Nickel	[27] P
5.	Beryllium	5 UP	17.	Potassium	[3300] P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	62390 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	21730 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	30 UFR
11.	Iron	296 P*	23.	Vanadium	20 UP
12.	Lead	18 FR	24.	Zinc	100 P*

Cyanide 10U Percent Solids (%)

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.

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EPA Sample No. MW-12A
ME. 3821

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-22 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[74] P	13.	Magnesium	36400 P
2.	Antimony	50 UP	14.	Manganese	162 P
3.	Arsenic	10 UFR	15.	Mercury	0.2U
4.	Barium	50 UP	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[2631] P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	64210 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	18050 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	30 UFR
11.	Iron	128 P*	23.	Vanadium	20 UP
12.	Lead	18 FR	24.	Zinc	10 UP *

Cyanide 10U Percent Solids (%)

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.

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EPA Sample No. MW-12D
ME. 3822

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. 62-476-23

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	218 P	13.	Magnesium	50210 P
2.	Antimony	50 UP	14.	Manganese	1423 P
3.	Arsenic	10 UFR	15.	Mercury	0.2 U
4.	Barium	[152] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	[3717] P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	123700 P	19.	Silver	10 UPR
8.	Chromium	16 P	20.	Sodium	17610 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	300 UFER
11.	Iron	710 P*	23.	Vanadium	20 UP
12.	Lead	15 FR	24.	Zinc	[20] P*

Cyanide 10 U

Percent Solids (%)

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.

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Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. 62-476-24

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

(ug/L) or mg/kg dry weight (Circle One)

1.	Aluminum	[104]P	13.	Magnesium	33720 P
2.	Antimony	50 UP	14.	Manganese	232 P
3.	Arsenic	10 UFR	15.	Mercury	0.2U
4.	Barium	[110]P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	8207 P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	62220 P	19.	Silver	10 UPR
8.	Chromium	13 P	20.	Sodium	130100 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	30 UFR
11.	Iron	[40]P*	23.	Vanadium	20 UP
12.	Lead	19 FR	24.	Zinc	10 UP*

Cyanide 10U

Percent Solids (%)

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.

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ME. 3824

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-25 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	330 P	13.	Magnesium	38350 P
2.	Antimony	50 UP	14.	Manganese	1694 P
3.	Arsenic	10 UFR	15.	Mercury	0.2U
4.	Barium	[78] P	16.	Nickel	[35] P
5.	Beryllium	5 UP	17.	Potassium	[1349] P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	112800 P	19.	Silver	10 UPR
8.	Chromium	12 P	20.	Sodium	9855 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	300 UFR
11.	Iron	561 P*	23.	Vanadium	20 UP
12.	Lead	11 FR	24.	Zinc	[12] P*
Cyanide		10 U	Percent Solids (%)		

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.

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Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-26

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[66] P	13.	Magnesium	48820 P
2.	Antimony	50 UP	14.	Manganese	411 P
3.	Arsenic	10 UFR	15.	Mercury	0.2 U
4.	Barium	[133] P	16.	Nickel	57 P
5.	Beryllium	5 UP	17.	Potassium	22990 P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	101000 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	94960 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	10 UP	22.	Tin	30 UFR
11.	Iron	638 P*	23.	Vanadium	20 UP
12.	Lead	8.1 FR	24.	Zinc	89 P*
Cyanide		10U	Percent Solids (%)		

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.

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85FP06R02

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ME. 3828

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-27

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[60]P	13.	Magnesium	[705]P
2.	Antimony	50 UP	14.	Manganese	15 UP
3.	Arsenic	10 UFR	15.	Mercury	0.2U
4.	Barium	50 UP	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	1000 UP
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	[1940]P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	[2459]P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	30 UFR
11.	Iron	107 P*	23.	Vanadium	20 UP
12.	Lead	12 FR	24.	Zinc	10 UP *
Cyanide		10U	Percent Solids (%)		

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.

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Comments:

Lab Manager [signature]

Form I

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. Box 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

85FP06521
EPA Sample No.
REVERT
ME. 3829

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

LAB SAMPLE ID. NO. G2-476-28

QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	[149] P	13.	Magnesium	30060 P
2.	Antimony	50 UP	14.	Manganese	142 P
3.	Arsenic	10 UFR	15.	Mercury	0.28
4.	Barium	[181] P	16.	Nickel	20 UP
5.	Beryllium	5 UP	17.	Potassium	18280 P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	63050 P	19.	Silver	10 UPR
8.	Chromium	13 P	20.	Sodium	21360 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	30 P	22.	Tin	30 UFR
11.	Iron	1541 P*	23.	Vanadium	20 UP
12.	Lead	5 UFSR	24.	Zinc	689 P*

Cyanide NOT REQUESTED

Percent Solids (%)

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.

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Comments:

Lab Manager [signature]

Form I

85FP06522

U.S. EPA Contract Laboratory Program
Sample Management Office
P.O. ox 818 - Alexandria, VA 22313
703/557-2490 FTS: 8-557-2490

EPA Sample No. G-101 MED 354

Date 5-30-85

INORGANIC ANALYSIS DATA SHEET

LAB AME CHEMTECH CONSULTING GROUP CASE NO. 4214

SOW). 784

LAB SAMPLE ID. NO. G2-476-29 QC REPORT NO. 476

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	luminum	[80] P	13.	Magnesium	50240 P
2.	Antimony	50 UP	14.	Manganese	404 P
3.	rsenic	10 UFR	15.	Mercury	0.2U
4.	arium	[151] P	16.	Nickel	62 P
5.	eryllium	5 UP	17.	Potassium	27420 P
6.	Cadmium	5 UP	18.	Selenium	5 UF
7.	Calcium	102600 P	19.	Silver	10 UPR
8.	Chromium	10 UP	20.	Sodium	100900 P
9.	Cobalt	20 UP	21.	Thallium	10 UF
10.	Copper	20 UP	22.	Tin	30 UFR
11.	Iron	696 P*	23.	Vanadium	20 UP
12.	Lead	8.4 FR	24.	Zinc	82 P*

Cyanide 10U Percent Solids (%)

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.

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Lab Manager [signature]

Form II

Q. C. Report No. 476

INITIAL AND CONTINUING CALIBRATION VERIFICATION[3]

LAB NAME CHEMTECH CONSULTING GROUP

CASE NO. 4214

SOW NO. 784

DATE 5-30-85 EH

UNITS ug/L

Compound	Initial Calib.[1]			Continuing Calibration[2]					
Metals:[4]	True Value	Found	%R	True Value	Found	%R	Found	%R	Method[4]
1. Aluminum	2000	2050	103	2000	1993	100	2027	101	P
2. Antimony	1015	908	90	1015	1016	100	945	93	P
3. Arsenic	30	28	103	30	29	97	28	93	F
4. Barium	2000	2031	102	2000	1974	99	2011	101	P
5. Beryllium	900	901	100	900	895	99	905	101	P
6. Cadmium	70	69	99	70	64	91	66	94	P
7. Calcium	21200	21260	100	21200	20490	97	20640	97	P
8. Chromium	250	256	102	250	240	96	231	92	P
9. Cobalt	600	547	91	600	540	90	545	91	P
10. Copper	350	362	103	350	354	101	366	105	P
11. Iron	900	887	99	900	875	97	869	97	P
12. Lead (1-12)	60	54	90	60	65	108	61	102	F
13. Magnesium	7200	7290	101	7200	7022	98	7105	99	P
14. Manganese	500	501	100	500	485	97	489	98	P
15. Mercury (01-02PDS)	1.0	1.0	100	1.0	0.90	90			MERCUR ANALYZ
16. Nickel	300	305	102	300	296	99	296	99	P
17. Potassium	10000	9690	97	10000	10174	102	9959	100	P
18. Selenium	15	16	107	15	15	100	15	100	F
*19. Silver	49.7	53.2	107	49.7	59.0	118	53.9	108	P
20. Sodium	32800	32550	99	32800	31850	97	32450	99	P
21. Thallium (1-2PDS)	50.4	51.6	102	50.4	51.7	103			F
22. Tin	100	99	99	100	93	93	92	92	F
23. Vanadium	850	876	103	850	857	101	853	100	P
24. Zinc	400	410	103	400	403	101	409	102	P
Other:									
Cyanide	213	230	108	100	97	97	95	95	EPA SC 335.2

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[1] Initial Calibration Source See "Key to Sample ID"

[2] Continuing Calibration Source same as 1.

[3] Control Limits: Mercury and Tin 80-120; All Other Compounds 90-110.

[4] Indicate Analytical Method Used: P - ICP/Flame AA; F - Furnace *See cover page (ICP, 1-21)

Form III

Q. C. Report No. 476

BLANKS

LAB NAME CHEMTECH CASE NO. 4214

DATE 5-30-85 EH UNITS ug/L

Matrix Low Water

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum	50U	50U	[69]	50U		50U	
2. Antimony	50U	50U	50U	50U		50U	
3. Arsenic	10U	10U	10U	10U	10U	10U	10U
4. Barium	50U	50U	50U	50U		50U	
5. Beryllium	5U	5U	5U	5U		5U	
6. Cadmium	5U	5U	5U	5U		5U	
7. Calcium	100U	100U	100U	100U		[150]	
8. Chromium	10U	10U	10U	10U		10U	
9. Cobalt	20U	20U	20U	20U		20U	
10. Copper	20U	20U	20U	20U		20U	
11. Iron	20U	20U	20U	20U		[68]	
12. Lead (1-12)	5U	5U	5U			5U	5U
13. Magnesium	150U	150U	150U	150U		150U	
14. Manganese	15U	15U	15U	15U		15U	
15. Mercury (01-02 PDS)	0.2U	0.2U				0.2U	
16. Nickel	20U	20U	20U	20U		20U	
17. Potassium	1000U	1000U	1000U	1000U	1000U	1000U	1000U
18. Selenium	5U	5U	5U	5U	5U	5U	5U
19. Silver	10U	10U	10U	10U		10U	
20. Sodium	1200U	1200U	1200U	1200U		1200U	
21. Thallium (01-02 PDS)	10U	10U				10U	
22. Tin	30U	30U	30U	30U	30U	30U	30U
23. Vanadium	20U	20U	20U	20U		20U	
24. Zinc	[19]	10U	10U	10U		10U	
Other:							
					RECEIVED OCT 8 1985		
Cyanide	10U	10U	10U	10U		10U	10U

(ICP, 1-21)

Form III

Q. C. Report No. 476

BLANKS

LAB NAME CHEMTECH

CASE NO. 4214

DATE 5-30-85 EH

UNITS ug/L

Matrix LOW WATER

Preparation Compound	Initial Calibration Blank Value	Continuing Calibration Blank Value 1	2	3	4	Preparation Blank 1	2
Metals:							
1. Aluminum	50U	50U				50U	
2. Antimony	50U	50U				50U	
3. Arsenic							
4. Barium	50U	50U				50U	
5. Beryllium	5U	5U				5U	
6. Cadmium	5U	5U				5U	
7. Calcium	100U	100U				100U	
8. Chromium	10U	10U				10U	
9. Cobalt	20U	20U				20U	
10. Copper	20U	20U				20U	
11. Iron	20U	20U				20U	
12. Lead (13-29)	5U	5U	5U				
13. Magnesium	150U	150U				150U	
14. Manganese	15U	15U				15U	
15. Mercury (03-29)	0.2U	0.2U	0.2U	0.2U		0.2U	
16. Nickel	20U	20U				20U	
17. Potassium							
18. Selenium							
19. Silver	10U	10U				10U	
20. Sodium	1200U	1200U				1200U	
21. Thallium (03 29)	10U	10U	10U	10U		10U	
22. Tin							
23. Vanadium	20U	20U				20U	
24. Zinc	10U	10U				10U	
Other:							
Cyanide							

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(ICP, 22-29)

Form V (1)

Q. C. Report No. 476

SPIKE SAMPLE RECOVERY

LAB NAME CHEMTECH

DATE 5-30-85 EH

CASE NO. 4214

EPA Sample No. ME 3805

Lab Sample ID No. 62-476-02

Units ug/L

Matrix LOW WATER

Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
Metals:					
1. Aluminum	75-125	2052	[57]	2000	100
2. Antimony	"	449	50U	500	90
3. Arsenic	"	16	10U	20	80
4. Barium	"	2167	262	2000	95
5. Beryllium	"	51	5U	50	102
6. Cadmium	"	50	5U	50	100
7. Calcium	"	148900	59750	100000	89
8. Chromium	"	190	10U	200	95
9. Cobalt	"	442	20U	500	88
10. Copper	"	261	[22]	250	96
11. Iron	"	1221	549	1000	67R
12. Lead	"	23	5U	20	115
13. Magnesium	"	85040	39380	50000	91
14. Manganese	"	253	82	200	86
15. Mercury	"	0.2U	0.2U	1.0	0 R
16. Nickel	"	388	20U	400	97
17. Potassium	"	108810	56990	50000	104
18. Selenium	"	6.0	5U	10	60R
19. Silver	"	190	10U	50	380R
20. Sodium	"	233700	139400	100000	94
21. Thallium	"	30	10U	50	60R
22. Tin	"	198	30U	200	99
23. Vanadium	"	491	20U	500	98
24. Zinc	"	222	24	200	99
Other:					
Cyanide	62-476-01 ME 3814	90	10U	100	90

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

"R"- out of control

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Comments:

Q. C. Report No. 476 (2)

SPIKE SAMPLE RECOVERY

LAB NAME CHEMTECH CONSULTING GROUP

DATE 5-30-95 RH

CASE NO. 4214

EPA Sample No. ME 3821

Lab Sample ID No. G2-476-22

Units ug/L

Matrix Low Water

% Compound	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spiked Added (SA)	%R[1]
Metals:					
1. Aluminum	75-125	2069	[74]	2000	100
2. Antimony	-	471	50U	500	94
3. Arsenic	-	10	10U	20	50 R
4. Barium	-	1999	50U	2000	100
5. Beryllium	-	47	5U	50	94
6. Cadmium	-	55	5U	50	110
7. Calcium	-	157400	64210	100000	93
8. Chromium	-	188	10U	200	94
9. Cobalt	-	456	20U	500	91
10. Copper	-	247	20U	250	99
11. Iron	-	1026	128	1000	90
12. Lead	-	32	18	20	70 R
13. Magnesium	-	83280	36400	50000	94
14. Manganese	-	346	162	200	92
15. Mercury	-	0.82	0.2U	1.0	82
16. Nickel	-	385	20U	400	96
17. Potassium	-	47450	[2631]	50000	90
18. Selenium	-	8.5	5U	10	85
19. Silver	-	326	10U	50	652 R
20. Sodium	-	113200	18050	100000	95
21. Thallium	-	43	10U	50	86
22. Tin	-	280	30U	200	140 R
23. Vanadium	-	497	20U	500	99
24. Zinc	-	198	10U	200	99
Other:					
Cyanide	G2-476-25 ME 3824	110	10U	100	110

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

"R" = out of control

Q. C. Report No. 476

DUPLICATES

(1)

LAB NAME CHEMTECH CONSULTING GROUP

DATE 5-30-85 EH

CASE NO. 4214

EPA Sample No. ME 3804

Lab Sample ID No. G2-476-01

Units ug/L

Matrix LOW WATER

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum		50U	50U	NC
2. Antimony		50U	50U	NC
3. Arsenic		10U	10U	NC
4. Barium		213	227	6.4
5. Beryllium		5U	5U	NC
6. Cadmium		5U	5U	NC
7. Calcium		53220	56550	6.1
8. Chromium		10U	10U	NC
9. Cobalt		20U	20U	NC
10. Copper		20U	20U	NC
11. Iron		[92]	[96]	4.3
12. Lead		7.9	5U	NC
13. Magnesium		30970	32820	5.8
14. Manganese		202	210	3.9
15. Mercury		0.2U	0.2U	NC
16. Nickel		20U	20U	NC
17. Potassium		6746	7804	15
18. Selenium		5U	5U	NC
19. Silver		10U	10U	NC
20. Sodium		22850	23240	1.7
21. Thallium		10U	10U	NC
22. Tin		30U	30U	NC
23. Vanadium		20U	20U	NC
24. Zinc		58	55	5.3
Other:				
Cyanide		10U	10U	NC

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* 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

Q. C. Report No. 476

DUPLICATES (2)

LAB NAME CHEMTECH CONSULTING GROUP

DATE 5-30-85 EH

CASE NO. 4214
EPA Sample No. ME 3820
Lab Sample ID No. G2-476-21
Units ug/L

Matrix Low Water

Compound	Control Limit[1]	Sample(S)	Duplicate(D)	RPD[2]
Metals:				
1. Aluminum		50U	50U	NC
2. Antimony		50U	50U	NC
3. Arsenic		10U	10U	NC
4. Barium		[74]	[83]	11
5. Beryllium		5U	5U	NC
6. Cadmium		5U	5U	NC
7. Calcium		62390	62930	0.86
8. Chromium		10U	10U	NC
9. Cobalt		20U	20U	NC
10. Copper		20U	20U	NC
11. Iron		296 ~~200~~ AS	147	67 *
12. Lead		18.4	18.5	0.27
13. Magnesium		35380	35650	0.76
14. Manganese		146	154	5.3
15. Mercury		0.2U	0.2U	NC
16. Nickel		[27]	[22]	20
17. Potassium		[3300]	[3509]	6.1
18. Selenium		5U	5U	NC
19. Silver		10U	10U	NC
20. Sodium		21730	21890	0.73
21. Thallium		10U	10U	NC
22. Tin		30U	30U	NC
23. Vanadium		20U	20U	NC
24. Zinc		100	67	40 *
Other:				
			RECEIVED OCT 8 1985	
Cyanide	G2-476-25 ME 3824	10U	10U	NC

* 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

Q.C. Report No. 476

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

*LCS run on 20 May

LAB NAME CHEMTECH

DATE 5-30-85 EH

CASE NO. 4214

LCS UNITS (ug/L) mg/kg

(Circle One)

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Instrument Detection Limits (IDL)-ug/l Furnace	Lab Control Sample True	Lab Control Sample Found	Lab Control Sample %R
Metals:						
1. Aluminum	200	50		2000	2149	107
2. Antimony	60	50		1015	878	87
3. Arsenic	10		10	30	26	87
4. Barium	200	50		2000	2156	108
5. Beryllium	5	5		900	850	94
6. Cadmium	5	5		70	65	93
7. Calcium	5000	100		10000	11660	117
8. Chromium	10	10		250	252	101
9. Cobalt	50	20		600	552	92
10. Copper	25	20		350	358	102
11. Iron	100	20.		900	945	105
12. Lead	5		5	60	56	93
13. Magnesium	5000	150		10000	10960	110
14. Manganese	15	15		500	488	98
15. Mercury	0.2	0.2		—	—	—
16. Nickel	40	20		300	311	104
17. Potassium	5000	1000		10000	9687	97
18. Selenium	5		5	15	15	100
19. Silver	10	10		49.7	53.6	108
20. Sodium	5000	1200		20000	20830	104
21. Thallium	10		10	50.4	42.9	85
22. Tin	40		30	100	117	117
23. Vanadium	50	20		850	860	101
24. Zinc	20	10		400	438	110
Others: LEAD (P)	70	35				
Cyanide	10	10				

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Form VII

Q.C. Report No. 476

INSTRUMENT DETECTION LIMITS AND

LABORATORY CONTROL SAMPLE

LAB NAME CHEMTECH

DATE 5-30-85 CH

CASE NO. 4214

LCS UNITS ug/L mg/kg

(Circle One)

Compound	Required Detection Limits (CRDL)-ug/l	Instrument Detection Limits (IDL)-ug/l ICP/AA	Instrument Detection Limits (IDL)-ug/l Furnace	Lab Control Sample True	Lab Control Sample Found	Lab Control Sample %R
Metals:						
1. Aluminum	200	50		2000	2008	100
2. Antimony	60	50		1015	823	81
3. Arsenic	10		10	30	25	83
4. Barium	200	50		2000	1982	99
5. Beryllium	5	5		900	796	88
6. Cadmium	5	5		70	58	83
7. Calcium	5000	100		10000	9473	95
8. Chromium	10	10		250	225	90
*9. Cobalt	50	20		600	471	79
10. Copper	25	20		350	353	101
11. Iron	100	20		900	877	97
12. Lead	5		5	60	61	102
13. Magnesium	5000	150		10000	10270	103
14. Manganese	15	15		500	438	88
15. Mercury	0.2	0.2		–	–	–
16. Nickel	40	20		300	262	87
17. Potassium	5000	1000		10000	9653	97
18. Selenium	5		5	15	16	107
19. Silver	10	10		49.7	64.4	130
20. Sodium	5000	1200		20000	20700	104
21. Thallium	10		10	50.4	41.4	82
22. Tin	40		30	100	117	117
23. Vanadium	50	20		850	769	90
24. Zinc	20	10		400	391	98
Others						
Cyanide	10					

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See Cover Page

Form VIII

Q.C. Report No. 476

STANDARD ADDITION RESULTS

LAB NAME CHEMTECH CONSULTING GROUP CASE NO. 4214

DATE 5-30-85 EH UNITS ug/L

Sample #	Element	0 ADD ABS.	1 ADD CON./ABS[1]	2 ADD CON./ABS.[1]	3 ADD CON./ABS.[1]	FINAL CON.[2]	r*
476-05	LEAD	0.082	10/0.173	20/0.255	30/0.298	21.2	0.989
05		0.080	10/0.162	20/0.263	30/0.340	14.8	0.999
07		0.036	10/0.098	20/0.207	30/0.~~260~~ 275	0.8	0.991+
-07		0.047	10/0.131	20/0.202	30/0.277	7.8	0.999
11		0.072	10/0.134	20/0.223	30/0.309	10.6	0.997
28		0.003	10/0.085	20/0.141	30/0.215	<5	0.998

[1] CON is the concentration added, ABS. is the instrument readout in absorbance or concentration.

[2] Concentration as determined by MSA

*"r" is the correlation coefficient.

+ - correlation coefficient is outside of control window of 0.995.

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