SDMS Document
129781

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D-039116207

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
ASARCO	1160 State Street

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Perth Amboy	NJ	08861	Middlesex		

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
40 31 50 .	74 15 17 .	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION (MONTH DAY YEAR)	02 SITE STATUS	03 YEARS OF OPERATION (BEGINNING YEAR / ENDING YEAR)
9 , 18, 86	☐ ACTIVE ☒ INACTIVE	1894 / 1976 ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (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.
David Van Eck	Haz. Site Mitig.Spec.IV	NJDEP	(609) 292-6706

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Richard Gervasio	Supervisory Environ.Tech.	NJDEP	(609) 292-7696
Kenneth Kloo	HSMS III	NJDEP	(609) 633-2219
Clare Sullivan	HSMS IV	NJDEP	(609) 984-3224
Kenneth Conrow	HSMS IV	NJDEP	(609) 984-3224
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Charles Piazza		1160 State St.	(201) 442-6400
Stephen Chiszar		1160 State St.	(201) 442-6400
			( )
			( )
			( )
			( )

BLOCK 430 LOT _____

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	9:30 to 13:30	Sunny, 65° to 75°

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
David Van Eck	NJDEP/Hazardous Site Mitigation Admin	(609) 292-6706

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (MONTH DAY YEAR)
David Van Eck	DHWM-BSA	NJDEP	609-292-6706	9 18 , 86

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
NJ	D-039116207

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [X] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] 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	amounts can't be determined from data.		
SOL	SOLVENTS	amounts can't be determined from data.		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	amounts can't be determined from data.		
ACD	ACIDS	1800	gal.	sulfuric acid
BAS	BASES			
MES	HEAVY METALS	amounts can't be determined.		

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
OLW	Oil & Grease		Floor deposits & cooling pond	1380	PPM
MES	Arsenic	7440-382	Flr.dep.&cooling pd.	8.85	PPM
MES	Barium	7440-39-3	Flr.dep.&cooling pd.	.015	PPM
MES	Cadmium	7440-43-9	Flr.dep.&cooling pd.	.108	PPM
MES	Chromium	7440-47-3	" " " " "	.105	PPM
MES	Lead	7439-92-1	" " " " "	1.80	PPM
MES	Mercury	7439-97-6	" " " " "	.0004	PPM
MES	Selenium	7782-49-2	" " " " "	112	PPM
MES	Silver	7440-22-4	" " " " "	.067	PPM
OCC	PCB	11097-69-1	Floor deposits	16	PPM
ACD	Sulfuric Acid	7669-93-9	Tank	--	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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)

NJDEP, DHWM, BSA 65 Prospect St., Trenton, N.J.

EPA FORM 2070-13 (7-81)

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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
NJ	D-039116207

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Standing runoff water in ditches and cooling pond may have percolated into the ground water.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☒ OBSERVED (DATE: 9/8/86) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Some standing water on the site had an oily sheen and one ditch contained a milky liquid.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL — 02 ☒ OBSERVED (DATE: 9/8/86) — ☐ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

The Century organic vapor analyser indicated the presence of volatile organic contamination above 100 ppm in several locations.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continue)*

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

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

Contaminated runoff may affect the fish in the Arthur Kill.

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

Runoff water containing PCBs could contaminate the food chain in the Arthur Kill.

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

Ditches are unlined. Untreated runoff flows into the Arthur Kill.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

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

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

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Facility closed in 1976. Most of the buildings are abandoned. However, there are a few tenants on the site.

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

NJDEP, DHWM, BSA, 65 Prospect St., Trenton, N.J.

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D039116207

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)				
XX J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
XX A. SURFACE IMPOUNDMENT	2-3	acres
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
XX D. TANK, ABOVE GROUND	unknown	
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ☐ 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
- XX A. BUILDINGS ON SITE

06 AREA OF SITE: 67 (Acres)

07 COMMENTS

Most of the above ground storage tanks contained fuel oil. The tanks are not presently in use.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE XX C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Diking around tanks appeared sound. Ditches have no lining. Liquid in some ditches may flow into the Arthur Kill.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES XX NO

02 COMMENTS

Site is fenced and is guarded.

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

EPA FORM 2070-13 (7-81)

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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
NJ	D039116207

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

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

02 STATUS

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

03 DISTANCE TO SITE

A. 5 (mi)
B. _____ (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) XX C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER _____

03 DISTANCE TO NEAREST DRINKING WATER WELL 5 (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
7 (ft)	east	_____ (ft)	1400 (gpd)	XX YES ☐ NO

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

4 monitor wells on site, however, they were not certified by the DEP.

10 RECHARGE AREA

☐ YES
XX NO

COMMENTS

11 DISCHARGE AREA

XX YES
☐ NO

COMMENTS

Site lies adjacent to Arthur Kill.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES XX C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Arthur Kill	☐	0 (mi)
	☐	(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. _____ NO. OF PERSONS	B. _____ NO. OF PERSONS	C. _____ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.2 (mi)

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

many

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0 (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)

The facility is located in an urban area.

EPA FORM 2070-13 (7-81)

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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
NJ	D039116207

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
250 (ft)	(ft)	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	2.75 (in)	%	east	%

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. 0.5 (mi)

OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

0 (mi)

ENDANGERED SPECIES: short nosed sturgeon

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0 (mi)	B. 0.1 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site lies on the banks of the Arthur Kill on a mostly flat, 67 acre property.

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

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
NJ	D039116207

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	one	Nanco Lab	11/15/86
SURFACE WATER			
WASTE			
AIR			
RUNOFF	four	Nanco Lab	11/15/86
SPILL			
SOIL	six	Nanco Lab	11/15/86
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
soil gases	Several areas were found by a Century organic vapor analyser
	to have volatile organic contamination as high as 100 ppm.
	Sampling was biased towards these hot spots.

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☒ AERIAL

02 IN CUSTODY OF NJDEP (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS NJDEP files.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

NJDEP, DHWM, BSA, 65 Prospect St., Trenton, N.J.

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

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
Neuberne Brown		1160 State St.		Perth Amboy	NJ	08862

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

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
ASARCO		1160 State St.		Perth Amboy	NJ	08862

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
Neuberne Brown		1160 State St.		Perth Amboy	NJ	08862

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

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
State Street Industrial Park	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
P.O. Box 363	

05 CITY	06 STATE	07 ZIP CODE
Perth Amboy	NJ	08862

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

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)

01 NAME	02 D+B NUMBER
ASARCO	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
1160 State St.	

05 CITY	06 STATE	07 ZIP CODE
Perth Amboy	NJ	08862

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1894-1976	

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

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 DURING THIS PERIOD

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

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 DURING THIS PERIOD

10 NAME	11 D+B NUMBER

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

14 CITY	15 STATE	16 ZIP CODE

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

NJDEP, DHWM, BSA, 65 Prospect St., Trenton, N.J.

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
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
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
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)

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

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

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

II. PAST RESPONSE ACTIVITIES *(Continued)*

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

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

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

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

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

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

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

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

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D039116207

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

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

EPA FORM 2070-13 (7-81)

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
CN 028
Trenton, N.J. 08625
609 - 292 - 1250

M E M O R A N D U M

TO: Al Pleva, HSMS I
Bureau of Site Assessment

THROUGH: Robert Hayton, HSMS II
Bureau of Site Assessment

FROM: Clare Sullivan, HSMS IV
Bureau of Site Assessment

SUBJECT: ASARCO (State Street Industrial Park)
1160 State Street
Perth Amboy, N.J.

PURPOSE OF MEMO: To outline the sampling activities conducted by members of the Bureau of Site Assessment.

NJ DEP REPRESENTATIVES:
R. Gervasio, Supervisor Env. Tech.
K. Kloo, HSMS III
D. Van Eck, HSMS IV
K. Conrow, HSMS IV
C. Sullivan, HSMS IV

Asarco Representatives:
Charles Piazza
Steven Chiszar

Date of Sampling: September 18, 1986
Date of Report: September 19, 1986

Discussions

Upon review of a preliminary assessment, the Bureau of Site Assessment preformed a pre sampling assessment at the Asarco site and determined that sampling was necessary.

Scheduled for sampling on September 19, 1986 were five aqueous samples, two sediment samples, and four soil samples. One trip blank and one field blank were provided by Nanco laboratories, which was the laboratory chosen for doing the analysis. All samples were analyzed for priority pollutants +40.

Sampling Episode

Weather: Sunny 65°-75°F

9:30 Arrived on site

10:00 Mr. C. Piazza and Mr. S. Chiszar join the sampling episode. The group splits to sample various locations. R. Gervasio, D. VanEck, and Clare Sullivan are accompanied by Mr. Piazza, and K. Kloo and K. Conrow are accompanied by Mr. Chiszar. Asarco representatives state that they want samples split. These samples are to be put in the 12 ounce mason jars provided by Mr. Piazza.

10:05-10:18 Surface water #4 taken by R. Gervasio. Sample described as yellowish clear. Location is the sump by building P. Three samples were taken for Asarco. Note: only two volatile bottles were taken, one purge vial was cracked. The liter bottle was filled from a lab-cleaned bottle.

10:09-11:45 Groundwater #1 taken by K. Kloo and K. Conrow. There was a slight inflection on the OVA when well was opened. Depth to water was 7' depth to bottom was 19.5'. Twenty four gallons were evacuated between 10:20 and 11:20. Sampling occurred from 11:30 to 11:45. Samples were described as clear to slightly turbid. Location is thirty feet west of the Arthur Kill. Three samples were taken for Asarco. Note: Well secured using Master lock #7192.

10:28-10:38 Soil #1 (0-6') taken by R. Gervasio. Sample is described as a mixed light brown and black dirt with stones. Location is the transformer behind Building P. Two samples were taken for Asarco.

10:30-10:40 Sediment #2 taken by D. VanEck. Sample is described as a sandy brown sediment. Location is the wash ditch by Building P. Two samples were taken for Asarco.

10:30-10:45 Surface water #1 taken by K. Kloo. Sample is described as clear. Location is the Excavation Pond. Three samples were taken for Asarco.

10:43-10:48 Soil #2 (0-6') taken by D. VanEck. Sample is described as a dark colored soil with a strong odor. Location is the sand box by Building P. Two samples were taken for Asarco.

11:05-11:15 Field blanks prepared by R. Gervasio. One bottle of field blank water given to Asarco.

11:10-11:20 Sediment #1 (0-6') taken by K. Kloo. Sample is described as grey to black, silty, sandy and gravelly. OVA reading at 30 ppm in the deep sediment. Location is sediment below Surface Water #1. One sample was taken for Asarco.

11:28-11:40 Soil #4 (9" below water surface) taken by D. VanEck. Sample is described as an oily, sandy sediment. Location is the sediment below surface water #4. Two samples were taken for Asarco. Note: Location of

sampling site was changed because the original site had dried up. No soil was available for sampling.

12:00-12:10 Surface Water #2 taken by K. Kloo and K. Conrow. Sample is described as mostly clear, with some suspended solids and an oily sheen. Location is the wash ditch by Building P. Three samples were taken for Asarco.

12:05-12:17 Surface Water #3 taken by R. Gervasio and D. VanEck. Sample is described as clear, slightly turbid. Location is the ditch south of Building K. Three samples were taken for Asacro. Note: Wheaton sampler was used.

12:20-12:30 Soil #3 (0-6") taken by K. Kloo and D. VanEck. Sample is described as brown sand with some gravel. Location is the ditch southwest of Building M.

12:30 Paper work continues

13:20 Paper work complete

13:25 NJDEP leaves site and takes samples to Federal Express for shipment to Nanco Laboratories.

Conclusions:

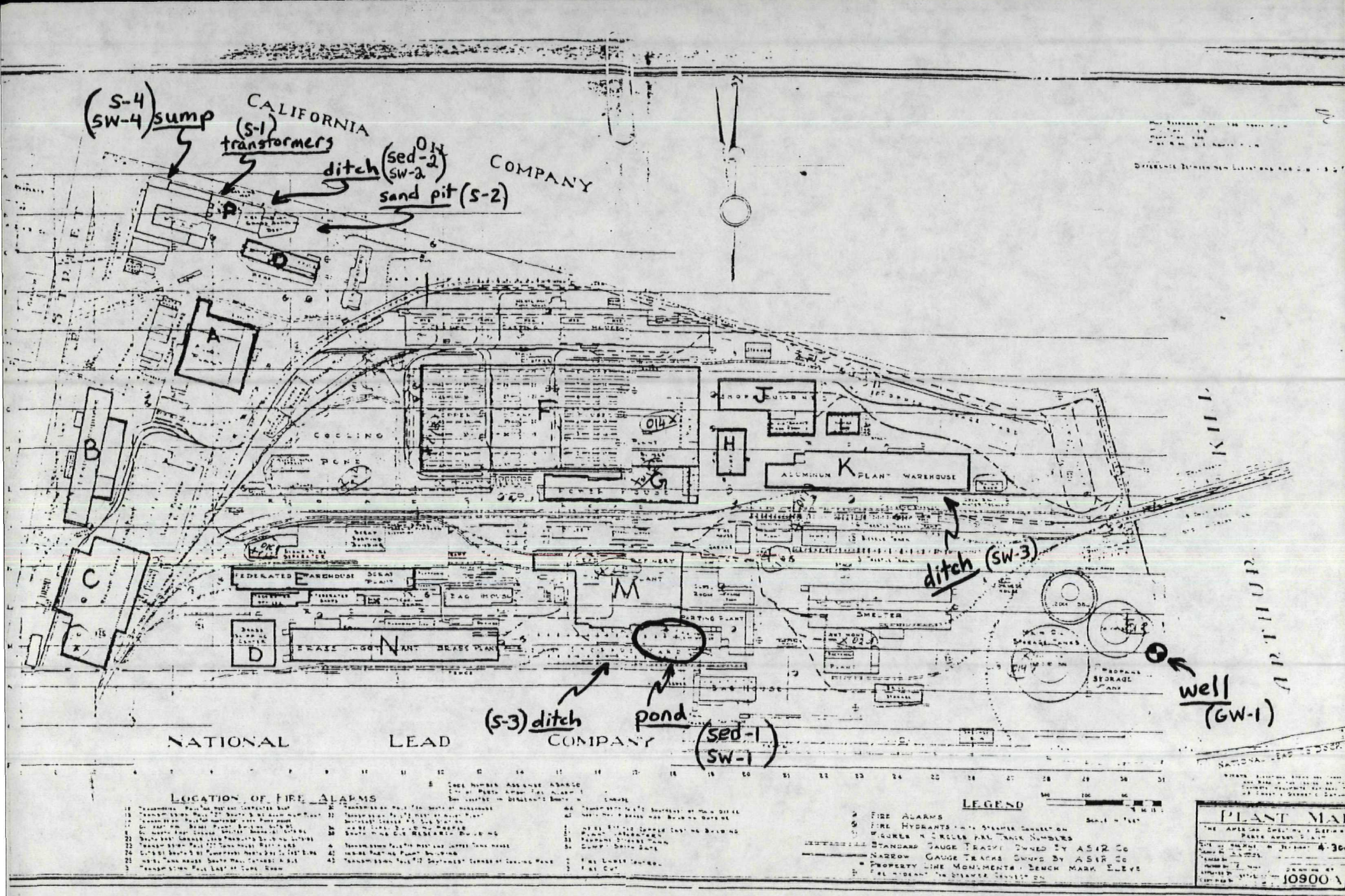
All samples were collected in accordane with methodologies outlined in the NJDEP/DWM field sampling procedures manual.

Recommendations

Recommendations should be based upon the analysis of the soil, sediment and water samples taken.

Sample #	Location	Matrix	Analysis	Cost
	Trip Blank	Water	PP+40	$1472.50
	Field Blank	Water	PP+40	$1472.50
AR91851	Soil #1	Soil	PP+40	$1472.50
AR91852	Soil #2	Soil	PP+40	$1472.50
AR91853	Soil #3	Soil	PP+40	$1472.50
AR91854	Soil #4	Soil	PP+40	$1472.50
AR918SED1	Sediment #1	Soil	PP+40	$1472.50
AR918SED2	Sediment #2	Soil	PP+40	$1472.50
AR918GW1	Groundwater #1	Water	PP+40	$1472.50
AR918SW1	Surface Water #1	Water	PP+40	$1472.50
AR918SW2	Surface Water #2	Water	PP+40	$1472.50
AR918SW3	Surface Water #3	Water	PP+40	$1472.50
AR918SW4	Surface Water #4	Water	PP+40	$1472.50

CS:mh


(S-4) (SW-4) sump
(S-1) transformers
ditch (sed-2 sw-2)
sand pit (S-2)
CALIFORNIA COMPANY
P
O
A
B
C
D
E
F
G
H
J
K
M
N
COOLING POND
POWER HOUSE
ALUMINUM PLANT WAREHOUSE
FEDERATED WAREHOUSE
BAG HOUSE
BRASS INGOT PLANT
BRASS PLANT
SMELTER
PROPANE STORAGE TANK
ditch (SW-3)
well (GW-1)
(S-3) ditch
pond (sed-1 SW-1)
NATIONAL LEAD COMPANY
LOCATION OF FIRE ALARMS
LEGEND
FIRE ALARMS
FIRE HYDRANTS
STANDARD GAUGE TRACKS OWNED BY ASIR Co
NARROW GAUGE TRACKS OWNED BY ASIR Co
PROPERTY LINE MONUMENTS
PLANT MA
10900

TITLE PAGE

INORGANIC ANALYTICAL DATA REPORT PACKAGE

FOR

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION

FIELD SAMPLE	LABORATORY SAMPLE	SAMPLE LOCATION
SW-1	J6-0115-008	ASARCO
SW-2	J6-0116-008	ASARCO
SW-3	J6-0117-008	ASARCO
SW-4	J6-0118-008	ASARCO
GW-1	J6-0119-008	ASARCO
TRIP BLANK	J6-0120-008	ASARCO
FIELD BLANK	J6-0121-008	ASARCO
S-1	J6-0122-009	ASARCO
S-2	J6-0123-009	ASARCO
S-3	J6-0124-009	ASARCO
S-4	J6-0125-009	ASARCO
SED-1	J6-0126-009	ASARCO
SED-2	J6-0127-009	ASARCO

Lab Name: NANCO LABORATORIES, INC.
Lab Address: Unity Street,
Hopewell Junction, New York

VALUE - IF THE RESULT IS A VALUE GREATER THAN OR EQUAL TO THE INSTRUMENT DETECTION LIMIT BUT LESS THAN THE CONTRACT-REQUIRED DECTECTION LIMIT, THE VALUE IS REPORTED IN BRACKETS (i.e., [10]. THE ANALYTICAL METHOD USED IS INDICATED WITH P (FOR ICP), A (FOR FLAME AA) OR F (FOR FURNACE AA).

U - INDICATES ELEMENT WAS ANALYZED FOR BUT NOT DETECTED. REPORTED WITH THE INSTRUMENT DETECTION LIMIT VALUE (e.g., 10 U).

E - INDICATES A VALUE ESTIMATED OR NOT REPORTED DUE TO THE PRESENCE OF INTERFERENCE.

s - INDICATES A VALUE DETERMINED BY METHOD OF STANDARD ADDITION.

N - INDICATES SPIKE SAMPLE RECOVERY IS NOT WITHIN CONTROL LIMITS.

* - INDICATES DUPLICATE ANALYSIS IS NOT WITHIN CONTROL LIMITS.

+ - INDICATES THE CORRELATION COEFFICIENT FOR METHOD OF STANDARD ADDITION IS LESS THAN 0.995

M - INDICATES DUPLICATE INJECTION RESULTS EXCEEDED CONTROL LIMITS.

COMMENTS :

INORGANIC ANALYSIS DATA SHEET

FORM I

000057

N.J. DEP SMPL NO. : J6-0115

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0115-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW ___X___ MEDIUM _____

MATRIX : WATER __X___ SOIL _____ SLUDGE _____OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	330.0 PN	14. MANGANESE	NR
3. ARSENIC	144.0 SFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	80.0 PN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	23.0 EP*	18. SELENIUM	1189.0 +FN
7. CALCIUM	NR	19. SILVER	20.0 EPN
8. CHROMIUM	25.0 P*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 UFN
10. COPPER	53.0 P	22. VANADIUM	NR
11. IRON	NR	23. ZINC	250.0 PN
		PHENOLS	23.0
12. LEAD	883.0 SN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0116

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0116-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X___ MEDIUM _____

MATRIX : WATER __X___ SOIL _____ SLUDGE _____OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	50.0 UPN	14. MANGANESE	NR
3. ARSENIC	18.0 +FN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	30.0 UPN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	5.0 UP*	18. SELENIUM	5.0 UFN
7. CALCIUM	NR	19. SILVER	20.0 PN
8. CHROMIUM	13.0 P*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 UFN
10. COPPER	162.0 P	22. VANADIUM	NR
11. IRON	NR	23. ZINC	180.0 PN
		PHENOLS	32.0
12. LEAD	136.0 PN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0117

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0117-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW ___X___ MEDIUM _____

MATRIX : WATER ___X___ SOIL _____ SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	50.0 UPN	14. MANGANESE	NR
3. ARSENIC	97.0 EFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	1649.0 PN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	61.0 P*	18. SELENIUM	99.5 EFN
7. CALCIUM	NR	19. SILVER	116.0 PN
8. CHROMIUM	10.0 UP*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 U+FN
10. COPPER	391.0 P	22. VANADIUM	NR
11. IRON	NR	23. ZINC	2289.0 PN
		PHENOLS	67.0
12. LEAD	99.5 EFN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET

FORM I

N.J. DEP SMPL NO. : J6-0118

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0118-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X___ MEDIUM _____

MATRIX : WATER __X___ SOIL _____ SLUDGE _____OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	50.0 UPN	14. MANGANESE	NR
3. ARSENIC	5.0 UFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	30.0 UPN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	5.0 UP*	18. SELENIUM	5.0 UFN
7. CALCIUM	NR	19. SILVER	10.0 UPN
8. CHROMIUM	10.0 UP*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 UFN
10. COPPER	135.0 P	22. VANADIUM	NR
11. IRON	NR	23. ZINC	252.0 PN
		PHENOLS	10.0 U
12. LEAD	142.2 +FN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0119

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0119-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X___ MEDIUM _____

MATRIX : WATER __X___ SOIL _____ SLUDGE ____OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	5946.0 PN	14. MANGANESE	NR
3. ARSENIC	4285.0 EFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	30.0 UPN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	5.0 UP*	18. SELENIUM	27.0 SFN
7. CALCIUM	NR	19. SILVER	33.0 PN
8. CHROMIUM	17.0 P*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 UFN
10. COPPER	204.0 P	22. VANADIUM	NR
11. IRON	NR	23. ZINC	745.0 PN
		PHENOLS	67.0
12. LEAD	1742.0 PN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET

FORM I

N.J. DEP SMPL NO. : J6-0120

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0120-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW ___X___ MEDIUM _____

MATRIX : WATER __X___ SOIL _____ SLUDGE _____OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	50.0 UPN	14. MANGANESE	NR
3. ARSENIC	50.0 UFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	30.0 UPN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	5.0 UP*	18. SELENIUM	5.0 UFN
7. CALCIUM	NR	19. SILVER	10.0 UPN
8. CHROMIUM	10.0 UP*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 UFN
10. COPPER	10.0 UP	22. VANADIUM	NR
11. IRON	NR	23. ZINC	33.0 PN
		PHENOLS	10.0 U
12. LEAD	31.6 SFN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET

FORM I

N.J. DEP SMPL NO. : J6-0121

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0121-008

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X__ MEDIUM _____

MATRIX : WATER _X__ SOIL _____ SLUDGE ____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	50.0 UPN	14. MANGANESE	NR
3. ARSENIC	5.0 UFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	30.0 UPN
5. BERYLLIUM	2.0 UP	17. POTASSIUM	NR
6. CADMIUM	5.0 UP*	18. SELENIUM	5.0 UFN
7. CALCIUM	NR	19. SILVER	10.0 UPN
8. CHROMIUM	10.0 UP*	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	5.0 UFN
10. COPPER	[10.0]P	22. VANADIUM	NR
11. IRON	NR	23. ZINC	[19.0]PN
		PHENOLS	10.0 U
12. LEAD	50.0 +FN	PRECENT SOLIDS (%)	
CYANIDE	10.0 U		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0122

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0122-009

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X__ MEDIUM _____

MATRIX : WATER _____ SOIL __X__ SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	88.6 PN	14. MANGANESE	NR
3. ARSENIC	53.5 SFN	15. MERCURY	0.1 U C.V.
4. BARIUM	NR	16. NICKEL	99.5 PN
5. BERYLLIUM	0.5 UPN	17. POTASSIUM	NR
6. CADMIUM	6.0 PN	18. SELENIUM	1.2 UFN
7. CALCIUM	NR	19. SILVER	11.2 PNE
8. CHROMIUM	2.3 UPN	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	1.2 UFN
10. COPPER	735.1 PN	22. VANADIUM	NR
11. IRON	NR	23. ZINC	322.3 PN
		PHENOLS	0.1 UN
12. LEAD	1475.3 PN	PRECENT SOLIDS (%)	86.0
CYANIDE	0.1 UN		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0123

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0123-009

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW ___X___ MEDIUM _____

MATRIX : WATER _____ SOIL ___X___ SLUDGE ____OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1.	ALUMINUM	NR	13.	MAGNESIUM	NR
2.	ANTIMONY	12.8 UPN	14.	MANGANESE	NR
3.	ARSENIC	7.4 SFN	15.	MERCURY	0.1 U C.V.
4.	BARIUM	NR	16.	NICKEL	82.6 PN
5.	BERYLLIUM	0.5 UPN	17.	POTASSIUM	NR
6.	CADMIUM	9.7 PN	18.	SELENIUM	1.3 UFN
7.	CALCIUM	NR	19.	SILVER	66.4 PNE
8.	CHROMIUM	2.6 UPN	20.	SODIUM	NR
9.	COBALT	NR	21.	THALLIUM	1.3 UFN
10.	COPPER	253.3 PN	22.	VANADIUM	NR
11.	IRON	NR	23.	ZINC	494.1 PN
				PHENOLS	1.5 N
12.	LEAD	485.4 PN		PRECENT SOLIDS (%)	78.0
	CYANIDE	0.1 UN			

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET

FORM I

N.J. DEP SMPL NO. : J6-0124

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0124-009

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X__ MEDIUM _____

MATRIX : WATER _____ SOIL __X__ SLUDGE ____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	502.1 PN	14. MANGANESE	NR
3. ARSENIC	566.7 EFN	15. MERCURY	0.1 U C.V.
4. BARIUM	NR	16. NICKEL	71.5 PN
5. BERYLLIUM	0.5 UPN	17. POTASSIUM	NR
6. CADMIUM	10.0 PN	18. SELENIUM	134.1 EFN
7. CALCIUM	NR	19. SILVER	24.4 PNE
8. CHROMIUM	2.6 UPN	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	2.6 UFN
10. COPPER	780.8 PN	22. VANADIUM	NR
11. IRON	NR	23. ZINC	845.1 PN
		PHENOLS	0.13 N
12. LEAD	2426.2 PN	PRECENT SOLIDS (%)	78.0
CYANIDE	0.1 UN		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0125

Lab Name : NANCO LABORATORIES, INC. Customer: N.J. DEP

Lab Sample ID: J6-0125-009 Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X__ MEDIUM _____

MATRIX : WATER _____ SOIL __X__ SLUDGE ____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	20.0 UPN	14. MANGANESE	NR
3. ARSENIC	136.0 EFN	15. MERCURY	0.2 U C.V.
4. BARIUM	NR	16. NICKEL	246.0 PN
5. BERYLLIUM	0.8 UPN	17. POTASSIUM	NR
6. CADMIUM	52.0 PN	18. SELENIUM	93.2 EFN
7. CALCIUM	NR	19. SILVER	118.4 PNE
8. CHROMIUM	4.0 UPN	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	4.0 UFN
10. COPPER	2578.8 PN	22. VANADIUM	NR
11. IRON	NR	23. ZINC	4.0 UPN
		PHENOLS	0.22 N
12. LEAD	3340.0 PN	PRECENT SOLIDS (%)	50.0
CYANIDE	0.11 N		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

INORGANIC ANALYSIS DATA SHEET
FORM I

N.J. DEP SMPL NO. : J6-0126

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0126-009

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW __X__ MEDIUM _____

MATRIX : WATER _____ SOIL __X__ SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	935.1 UPN	14. MANGANESE	NR
3. ARSENIC	1380.8 SFN	15. MERCURY	0.1 U C.V.
4. BARIUM	NR	16. NICKEL	443.8 PN
5. BERYLLIUM	0.5 UPN	17. POTASSIUM	NR
6. CADMIUM	126.3 PN	18. SELENIUM	258.1 EFN
7. CALCIUM	NR	19. SILVER	2.7 UPNE
8. CHROMIUM	2.7 UPN	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	1.6 FN
10. COPPER	3290.7 PN	22. VANADIUM	NR
11. IRON	NR	23. ZINC	2.7 UPN
		PHENOLS	0.13 N
12. LEAD	2169.9 PN	PRECENT SOLIDS (%)	73.0
CYANIDE	0.1 UN		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly
LAB MANAGER

INORGANIC ANALYSIS DATA SHEET

FORM I

N.J. DEP SMPL NO. : J6-0127

Lab Name : NANCO LABORATORIES, INC.

Customer: N.J. DEP

Lab Sample ID: J6-0127-009

Lab Receipt Date : 9/19/86

ELEMENTS IDENTIFIED AND MEASURED

CONCENTRATION : LOW ___X___ MEDIUM _____

MATRIX : WATER _____ SOIL ___X___ SLUDGE _____ OTHER _____

UG/L OR MG/KG DRY WEIGHT (CIRCLE ONE)

1. ALUMINUM	NR	13. MAGNESIUM	NR
2. ANTIMONY	13.0 UPN	14. MANGANESE	NR
3. ARSENIC	5.5 SFN	15. MERCURY	0.1 U C.V.
4. BARIUM	NR	16. NICKEL	10.6 PN
5. BERYLLIUM	0.5 UPN	17. POTASSIUM	NR
6. CADMIUM	1.3 UPN	18. SELENIUM	1.9 +FN
7. CALCIUM	NR	19. SILVER	2.6 UPNE
8. CHROMIUM	[2.6]PN	20. SODIUM	NR
9. COBALT	NR	21. THALLIUM	1.3 UFN
10. COPPER	97.1 PN	22. VANADIUM	NR
11. IRON	NR	23. ZINC	49.1 PN
		PHENOLS	0.1 UN
12. LEAD	40.3 PN	PRECENT SOLIDS (%)	77.0
CYANIDE	0.1 UN		

FOOTNOTES : FOR REPORTING RESULTS STANDARD RESULT QUALIFIERS ARE USED AS DEFINED ON PAGE 2.

COMMENTS :

Joan Connolly

LAB MANAGER

000510

000510

SAMPLE DATA

GW-1

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

000511 SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P3273
Sample Matrix: WATER
Data Release Authorized By: Sotail Jatani

Case No: N.J. D.E.P. GW-1
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1 pH: 11.8
Percent Moisture: N/A

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	1.9 JB	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	230.0	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	1.6 J
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	190.0
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	890.0

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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000512

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
GW-1

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

000512

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
GW-1

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 10/09/86
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No X
Separatory Funnel Extraction: Yes X
Continuous Liquid - Liquid Extraction: Yes__

ber		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
-95-2	Phenol	11.0	51-28-5	2,4-Dinitrophenol	50.0 U
53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
58-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
5-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
9-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
5-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
67-9	2,4-Dimethylphenol	22.0	84-74-2	Di-n-Butylphthalate	10.0 U
5-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
0-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
8-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	49.0 B
0-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
7-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	4.1 J
7-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
5-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
5-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
8-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
1-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
6-8	Acenaphthylene	10.0 U			
-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

000513

GW 1

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/2/86

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes___ No_X_

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
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
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 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	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

000005

000005

SAMPLE DATA

FIELD BLANK

000668

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3275
Sample Matrix: WATER
Data Release Authorized By:

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

FIELD BLANK

VOLATILE COMPOUNDS

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)
SAMPLE NUMBER
Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3275
Sample Matrix: WATER
Data Release Authorized By:
Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86
FIELD BLANK
VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1
Percent Moisture: N/A
pH: 5.6

r		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
-2	Methylene Chloride	3.0 JB	124-48-1	Dibromochloromethane	5.0 U
-1	ACETONE	15.0	79-00-5	1,1,2-Trichloroethane	5.0 U
-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
0-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
6-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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.

esult is a value greater than or equal to the detection eport the value.

s compound was analyzed for but not detected. Report mum detection limit for the sample with the U(e.g.10U necessary concentration dilution actions. (This is not ily the instrument detection limit.) The footnote should ompound was analyzed for but not detected.The number is mum attainable detection limit for the sample.

an estimated value.This flag is used either when g a concentration for tentatively identified compounds 1 response is assumed or when the mass spectral data the presence of a compound that meets the identification but the result is less than the specified detection limit er than zero (e.g. 10J).

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

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

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000667

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
FIELD BLANK

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

000667

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
FIELD BLANK

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 10/09/86
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No X
Separatory Funnel Extraction: Yes X
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	45.0 B
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

000668

SAMPLE NUMBER

LABORATORY NAME: MANCO LABS, INC.

CASE NO: NJ DEP

FIELD BLANK

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/2/86

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No__X__

Separatory Funnel Extraction: Yes__X__

Continuous Liquid-Liquid Extraction: Yes____

LABORATORY NAME: MANCO LABS, INC.

CASE NO: NJ DEP

FIELD BLANK

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

GPC Cleanup: Yes____ No__X__

Separatory Funnel Extraction: Yes__X__

ug/l or ug/Kg (Circle One)

CAS Number		
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	0.01 J
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 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	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

001502

SAMPLE DATA

TRIP BLANK #2

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

001503

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3294
Sample Matrix: WATER
Data Release Authorized By:

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

TRIP BLANK #2

ORGANVOLATILE COMPOUNDS

(PAGE 1)

Concentration: Low Medium (Circle One)

Laboratory Name: NANCO LABORATORY
Lab Sample ID No: >P3294
Sample Matrix: WATER
Data Release Authorized By:

Date Extracted/Prepared: 09/23/86
Date Analyzed: 09/23/86
Conc/Dil Factor: 1
Percent Moisture: N/A

Case No: N.J. D.E.P.
QC Report No: 008, 009
pH: 6.10
Date Sample Received: 9/19/86

TRIP BLANK

VOLA COMPOUNDS

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	0.8 J	124-48-1	Dibromochloromethane	5.0 U
67-64-1	ACETONE	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

000078

SAMPLE DATA

SW-1

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

000079 SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3269
Sample Matrix: WATER
Data Release Authorized By: Gabriel Jahane

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SW-1

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3269
Sample Matrix: WATER
Data Release Authorized By: Gabriel Jahane

Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1
Percent Moisture: N/A

Case No: N/A
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

VOLATILE COMPOUNDS

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	1.8 JB	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	4.9 J	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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.

ALUE

f the result is a value greater than or equal to the detection imit, report the value.

ndicates compound was analyzed for but not detected. Report he minimum detection limit for the sample with the U(e.g.10U ased on necessary concentration dilution actions. (This is not ecessarily 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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000080

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
SW-1

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)
SEMIVOLATILE COMPOUNDS

000080

LABORATORY NAME: NANCO LABS. INC.
Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 10/08/86
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No X
Separatory Funnel Extraction: Yes X
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	84.0 B
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	8.8 J
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

000081

SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

SW 1

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/1/86

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No__X__

Separatory Funnel Extraction: Yes__X__

Continuous Liquid-Liquid Extraction: Yes____

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/1/86

GPC Cleanup: Yes

ug/l or ug/Kg (Circle One)

CAS Number		
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
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 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	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

000157

SAMPLE DATA

SW-2

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3295
Sample Matrix: WATER
Data Release Authorized By: Sotail Johnson

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SW-2

VOLATILE COMPOUNDS

000158

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/23/86
Date Analyzed: 09/23/86
Conc/Dil Factor: 1 pH: 7.1
Percent Moisture: N/A

S mber		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
-09-2	Methylene Chloride	3.6 J	124-48-1	Dibromochloromethane	5.0 U
-64-1	ACETONE	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
56-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
07-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	3.8 JB
-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
08-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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.

LUE

the result is a value greater than or equal to the detection mit, report the value.

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

ndicates an estimated value.This flag is used either when stimating a concentration for tentatively identified compounds here a 1 1 response is assumed or when the mass spectral data ndicates the presence of a compound that meets the identification riteria but the result is less than the specified detection limit ut 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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000159

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J.D.E.P.

SAMPLE NO.
SW-2

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/23/86
Date Analyzed: 10/22/86
Conc/Dil Factor:----------> 1
Percent Moisture: N/A

GPC Cleanup: Yes____ No X
Separatory Funnel Extraction: Yes X
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
2-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
08-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
2-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
11-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
5-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	13.0
41-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
06-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
00-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
5-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0
5-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
06-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	53.0
21-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
7-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
8-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
8-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	19.0
8-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
5-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	3.3 J	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	15.0	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	77.0 B
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	24.0	117-84-0	Di-n-Octyl Phthalate	65.0
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

000160 SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

SW 2

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/2/86

Conc/Dil Factor: ----> 1

Percent Moisture: N/A

GPC Cleanup: Yes___ No_X_

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
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
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 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	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

000344

SAMPLE DATA

SW-3

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY, INC.
Lab Sample ID No: >P3271
Sample Matrix: WATER
Data Release Authorized By: Sohail Jabar

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SW-3

ORGANIC VOLATILE COMPOUNDS

(PAGE 1)

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1
Percent Moisture: N/A

pH: 6.3

VOLATILE COMPOUNDS

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	2.3 JB	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	6.0 J	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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 [illegible] the presence of a compound that meets the identification [illegible] is less than the specified detection limit [illegible]

C

This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET

(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.

CASE NO: N.J.D.E.P.

SAMPLE NO.

SW-3

000346

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/09/86

Conc/Dil Factor:----------> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No X

Separatory Funnel Extraction: Yes X

Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	20.0 U
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	240.0 B
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	28.0
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

SW 3

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/2/86

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No__X__

Separatory Funnel Extraction: Yes__X__

Continuous Liquid-Liquid Extraction: Yes____

CAS Number		ug/l or ug/Kg (Circle One)
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
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 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	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

SAMPLE DATA

SW-4

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3272
Sample Matrix: WATER
Data Release Authorized By: Sohail Jafari

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SW-4

ORGANVOLATILE COMPOUNDS

(PAGE 1)

000433

Concentration: Low Medium (Circle One)

Laboratory Name: NANCO LABORATORY
Lab Sample ID No: >P3272
Sample Matrix: WATER
Data Release Authorized By: Sohail Jafari

Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1
Percent Moisture: N/A

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SW-4

VOLATILE COMPOUNDS

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	1.6 JB	124-48-1	Dibromochloromethane	5.0 U
67-64-1	Acetone	10.0 U	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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.

/ALUE

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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

FORM I

ORGANIC ANALYSIS DATA SHEET

(PAGE-2)

000434

LABORATORY NAME: NANCO LABS., INC.

CASE NO: N.J.D.E.P.

SAMPLE NO.

SW-4

ORGANIC ANALYSIS DATA SHEET

(PAGE-2)

000434

SEMIVOLATILE COMPOUNDS

LABORATORY NAME: NANCO LABS., INC.

SAMPLE NO.

SW-4

Concentration: N.J.D.E.P. Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/09/86

Conc/Dil Factor:----------> 1

Percent Moisture: N/A

GPC Cleanup: Yes_____ No X

Separatory Funnel Extraction: Yes X

Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U	83-32-9	Acenaphthene	10.0 U
108-95-2	Phenol	10.0 U	51-28-5	2,4-Dinitrophenol	50.0 U
62-53-3	Aniline	10.0 U	100-02-7	4-Nitrophenol	50.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U	132-64-9	Dibenzofuran	10.0 U
95-57-8	2-Chlorophenol	10.0 U	121-14-2	2,4-Dinitrotoluene	10.0 U
541-73-1	1,3-Dichlorobenzene	10.0 U	606-20-2	2,6-Dinitrotoluene	10.0 U
106-46-7	1,4-Dichlorobenzene	10.0 U	84-66-2	Diethylphthalate	10.0 U
100-51-6	Benzyl Alcohol	10.0 U	7005-72-3	4-Chlorophenyl-phenylether	10.0 U
95-50-1	1,2-Dichlorobenzene	10.0 U	86-73-7	Fluorene	10.0 U
95-48-7	2-Methylphenol	10.0 U	100-01-6	4-Nitroaniline	50.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
106-44-5	4-Methylphenol	10.0 U	86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U	101-55-3	4-Bromophenyl-phenylether	10.0 U
67-72-1	Hexachloroethane	10.0 U	118-74-1	Hexachlorobenzene	10.0 U
98-95-3	Nitrobenzene	10.0 U	87-86-5	Pentachlorophenol	50.0 U
78-59-1	Isophorone	10.0 U	85-01-8	Phenanthrene	10.0 U
88-75-5	2-Nitrophenol	10.0 U	120-12-7	Anthracene	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U	84-74-2	Di-n-Butylphthalate	10.0 U
65-85-0	Benzoic Acid	50.0 U	206-44-0	Fluoranthene	10.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U	92-87-5	Benzidine	80.0 U
120-83-2	2,4-Dichlorophenol	10.0 U	129-00-0	Pyrene	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U	85-68-7	Butylbenzylphthalate	10.0 U
91-20-3	Naphthalene	10.0 U	91-94-1	3,3'-Dichlorobenzidine	3.4 J
106-47-8	4-Chloroaniline	10.0 U	56-55-3	Benzo(a)Anthracene	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	10.0 U
59-50-7	4-Chloro-3-Methylphenol	10.0 U	218-01-9	Chrysene	10.0 U
91-57-6	2-Methylnaphthalene	10.0 U	117-84-0	Di-n-Octyl Phthalate	10.0 U
77-47-4	Hexachlorocyclopentadiene	10.0 U	205-99-2	Benzo(b)Fluoranthene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U	207-08-9	Benzo(k)Fluoranthene	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U	50-32-8	Benzo(a)Pyrene	10.0 U
91-58-7	2-Chloronaphthalene	10.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
88-74-4	2-Nitroaniline	50.0 U	53-70-3	Dibenz(a,h)Anthracene	10.0 U
131-11-3	Dimethyl Phthalate	10.0 U	191-24-2	Benzo(g,h,i)Perylene	10.0 U
208-96-8	Acenaphthylene	10.0 U			
99-09-2	3-Nitroaniline	50.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

435 SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

SW 4

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/23/86

Date Analyzed: 10/2/86

Conc/Dil Factor: -----> 1

Percent Moisture: N/A

GPC Cleanup: Yes____ No__X__

Separatory Funnel Extraction: Yes__X__

Continuous Liquid-Liquid Extraction: Yes____

CAS Number		ug/l or ug/Kg (Circle One)
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)	0.007 J
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	0.02 J
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
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 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	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3

FORM I

000753

SAMPLE DATA

S-1

1

ORGANICS ANALYSIS DATA SHEET 000754
(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3282
Sample Matrix: SOIL
Data Release Authorized By: Sohail Jafarni

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

S-1

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/22/86
Date Analyzed: 09/22/86
Conc/Dil Factor: 1 pH: 5.4
Percent Moisture: 11

	ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
Methylene Chloride	7.2 B	124-48-1	Dibromochloromethane	5.0 U
ACETONE	11.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
-5 Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
3 Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
-2 1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
3 2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
6 1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
5 Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
-4 Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
4 Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
			Total Xylenes	5.0 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.

result is a value greater than or equal to the detection report the value.

es compound was analyzed for but not detected. Report nimum detection limit for the sample with the U(e.g.10U on necessary concentration dilution actions. (This is not arily the instrument detection limit.) The footnote should -Compound was analyzed for but not detected.The number is nimum attainable detection limit for the sample.

tes an estimated value.This flag is used either when ting a concentration for tentatively identified compounds a 1 1 response is assumed or when the mass spectral data tes the presence of a compound that meets the identification ia but the result is less than the specified detection limit eater than zero (e.g. 10J).

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

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

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

FORM I

ORGANIC ANALYSIS DATA SHEET

(PAGE 2)

000755

LABORATORY NAME: NANCO LABS. INC.

CASE NO: N.J. D.E.P.

SAMPLE NO.

S-1

ORGANIC ANALYSIS DATA

(PAGE 2)

SEMIVOLATILE COMPOUNDS

000755

LABORATORY NAME: NANCO LABS. INC.

SAMPLE NO.

Concentration: D.E.P. Low Medium (Circle One)

GPC Cleanup: Yes X No____

Date Extracted/Prepared: 9/24/86

Separatory Funnel Extraction: Yes____

Date Analyzed: 10/03/86

Continuous Liquid - Liquid Extraction: Yes__

Conc/Dil Factor:----------> 2

Percent Moisture: 11

SEMIVOLATILE COMPOUNDS

		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
	N-Nitrosodimethylamine	660.0 U	83-32-9	Acenaphthene	660.0 U
	Phenol	660.0 U	51-28-5	2,4-Dinitrophenol	3200.0 U
	bis(-2-Chloroethyl)Ether	660.0 U	100-02-7	4-Nitrophenol	3200.0 U
	2-Chlorophenol	660.0 U	132-64-9	Dibenzofuran	660.0 U
	1,3-Dichlorobenzene	660.0 U	121-14-2	2,4-Dinitrotoluene	660.0 U
	1,4-Dichlorobenzene	660.0 U	606-20-2	2,6-Dinitrotoluene	660.0 U
	Benzyl Alcohol	660.0 U	84-66-2	Diethylphthalate	660.0 U
	1,2-Dichlorobenzene	660.0 U	7005-72-3	4-Chlorophenyl-phenylether	660.0 U
	2-Methylphenol	660.0 U	86-73-7	Fluorene	660.0 U
-9	bis(2-chloroisopropyl)Ether	660.0 U	100-01-6	4-Nitroaniline	3200.0 U
	4-Methylphenol	660.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	3200.0 U
	N-Nitroso-Di-n-Propylamine	660.0 U	86-30-6	N-Nitrosodiphenylamine (1)	660.0 U
	Hexachloroethane	660.0 U	101-55-3	4-Bromophenyl-phenylether	660.0 U
	Nitrobenzene	660.0 U	118-74-1	Hexachlorobenzene	660.0 U
	Isophorone	660.0 U	87-86-5	Pentachlorophenol	3200.0 U
	2-Nitrophenol	660.0 U	85-01-8	Phenanthrene	660.0 U
	2,4-Dimethylphenol	660.0 U	120-12-7	Anthracene	660.0 U
	Benzoic Acid	3200.0 U	84-74-2	Di-n-Butylphthalate	660.0 U
	bis(-2-Chloroethoxy)Methane	660.0 U	206-44-0	Fluoranthene	660.0 U
	2,4-Dichlorophenol	660.0 U	129-00-0	Pyrene	660.0 U
	1,2,4-Trichlorobenzene	660.0 U	85-68-7	Butylbenzylphthalate	660.0 U
	Naphthalene	660.0 U	91-94-1	3,3'-Dichlorobenzidine	1320.0 U
	4-Chloroaniline	660.0 U	56-55-3	Benzo(a)Anthracene	660.0 U
	Hexachlorobutadiene	660.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	660.0 U
	4-Chloro-3-Methylphenol	660.0 U	218-01-9	Chrysene	660.0 U
	2-Methylnaphthalene	660.0 U	117-84-0	Di-n-Octyl Phthalate	660.0 U
	Hexachlorocyclopentadiene	660.0 U	205-99-2	Benzo(b)Fluoranthene	660.0 U
	2,4,6-Trichlorophenol	660.0 U	207-08-9	Benzo(k)Fluoranthene	660.0 U
	2,4,5-Trichlorophenol	3200.0 U	50-32-8	Benzo(a)Pyrene	660.0 U
	2-Chloronaphthalene	660.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
	2-Nitroaniline	3200.0 U	53-70-3	Dibenz(a,h)Anthracene	660.0 U
	Dimethyl Phthalate	660.0 U	191-24-2	Benzo(g,h,i)Perylene	660.0 U
	Acenaphthylene	660.0 U			
	3-Nitroaniline	3200.0 U			

(1) - Cannot be separated from diphenylamine

) HSL'S FOUND

ORGANICS ANALYSIS DATA SHEET

(PAGE 3) 000756 SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP S1

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/24/86

Date Analyzed: 10/1/86

Conc/Dil Factor: -----> 2

Percent Moisture: 11

GPC Cleanup: Yes_X_ No___

(Separatory Funnel Extraction: Yes_X_ SO

Continuous Liquid-Liquid Extraction: Yes___

S1

PESTICIDE/PCBs

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	16.00 U
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	32.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
53494-70-5	Endrin Ketone	32.00 U
72-43-5	Methoxychlor	160.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	320.00 U
12674-11-2	Aroclor-1016	160.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	1300.63
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 40000 Vi 3

FORM I

000338

000338

SAMPLE DATA

S-2

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

S-2

atory Name:NANCO LABORATORY INC.
ample ID No:>P3325
e Matrix: SOIL
Release Authorized By: Sohail Jahani

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

ORGANIC VOLATILE COMPOUNDS SHEET

(PAGE 1)

SAMPLE NUMBER

Concentration: Low Medium (Circle One)

atory Name:NANCO LABORATORY INC.
ample ID No:>P3325
e Matrix: SOIL
Release Authorized By:

Date Extracted/Prepared: 09/24/86
Date Analyzed: 09/24/86
Conc/Dil Factor: 5
Percent Moisture: 16

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

000339

VOLATILE COMPOUNDS

	ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
romethane	50.0 U	79-34-5	1,1,2,2-Tetrachloroethane	25.0 U
omethane	50.0 U	78-87-5	1,2-Dichloropropane	25.0 U
l Chloride	50.0 U	10061-02-6	Trans-1,3-Dichloropropene	25.0 U
roethane	50.0 U	79-01-6	Trichloroethene	25.0 U
ylene Chloride	39.0	124-48-1	Dibromochloromethane	25.0 U
ONE	206.0 B	79-00-5	1,1,2-Trichloroethane	25.0 U
on Disulfide	15.0 J	71-43-2	Benzene	1500.0
-Dichloroethene	25.0 U	10061-01-5	cis-1,3-Dichloropropene	25.0 U
-Dichloroethane	25.0 U	110-75-8	2-Chloroethylvinylether	50.0 U
s-1,2-Dichloroethene	25.0 U	75-25-2	Bromoform	25.0 U
roform	25.0 U	591-78-6	2-Hexanone	9300.0
-Dichloroethane	25.0 U	108-10-1	4-Methyl-2-Pentanone	36000.0
tanone	173.0	127-18-4	Tetrachloroethene	25.0 U
,1-Trichloroethane	25.0 U	108-88-3	Toluene	24000.0
on Tetrachloride	25.0 U	108-90-7	Chlorobenzene	13.0 U
yl Acetate	50.0 U	100-41-4	Ethylbenzene	5500.0
modichloromethane	25.0 U	100-42-5	Styrene	25.0 U
			Total Xylenes	66000.0

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.

is a value greater than or equal to the detection
the value.

pound was analyzed for but not detected. Report
etection limit for the sample with the U(e.g.10U
ssary concentration dilution actions. (This is not
he instrument detection limit.) The footnote should
nd was analyzed for but not detected.The number is
ttainable detection limit for the sample.

estimated value.This flag is used either when
concentration for tentatively identified compounds
esponse is assumed or when the mass spectral data
presence of a compound that meets the identification
the result is less than the specified detection limit
han zero (e.g. 10J).

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

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

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000340

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J. D.E.P.

SAMPLE NO.

S-2

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)
SEMIVOLATILE COMPOUNDS

000340

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J. D.E.P.

SAMPLE NO.

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/24/86
Date Analyzed: 10/03/86
Conc/Dil Factor:----------> 2
Percent Moisture: 16

GPC Cleanup: Yes X No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	660.0 U
108-95-2	Phenol	660.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U
95-57-8	2-Chlorophenol	660.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U
100-51-6	Benzyl Alcohol	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U
95-48-7	2-Methylphenol	660.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	660.0 U
106-44-5	4-Methylphenol	660.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	660.0 U
67-72-1	Hexachloroethane	660.0 U
98-95-3	Nitrobenzene	660.0 U
78-59-1	Isophorone	7100.0
88-75-5	2-Nitrophenol	660.0 U
105-67-9	2,4-Dimethylphenol	660.0 U
65-85-0	Benzoic Acid	470.0 J
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U
91-20-3	Naphthalene	660.0 U
106-47-8	4-Chloroaniline	660.0 U
87-68-3	Hexachlorobutadiene	660.0 U
59-50-7	4-Chloro-3-Methylphenol	660.0 U
91-57-6	2-Methylnaphthalene	7300.0
77-47-4	Hexachlorocyclopentadiene	660.0 U
88-06-2	2,4,6-Trichlorophenol	660.0 U
95-95-4	2,4,5-Trichlorophenol	3200.0 U
91-58-7	2-Chloronaphthalene	660.0 U
88-74-4	2-Nitroaniline	3200.0 U
131-11-3	Dimethyl Phthalate	660.0 U
208-96-8	Acenaphthylene	660.0 U
99-09-2	3-Nitroaniline	830.0 J

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	660.0 U
51-28-5	2,4-Dinitrophenol	3200.0 U
100-02-7	4-Nitrophenol	3200.0 U
132-64-9	Dibenzofuran	1600.0
121-14-2	2,4-Dinitrotoluene	1400.0
606-20-2	2,6-Dinitrotoluene	660.0 U
84-66-2	Diethylphthalate	930.0
7005-72-3	4-Chlorophenyl-phenylether	660.0 U
86-73-7	Fluorene	660.0 U
100-01-6	4-Nitroaniline	1900.0 J
534-52-1	4,6-Dinitro-2-Methylphenol	3200.0 U
86-30-6	N-Nitrosodiphenylamine (1)	6400.0
101-55-3	4-Bromophenyl-phenylether	660.0 U
118-74-1	Hexachlorobenzene	660.0 U
87-86-5	Pentachlorophenol	3200.0 U
85-01-8	Phenanthrene	30000.0
120-12-7	Anthracene	660.0 U
84-74-2	Di-n-Butylphthalate	2200.0 B
206-44-0	Fluoranthene	3100.0
129-00-0	Pyrene	4300.0
85-68-7	Butylbenzylphthalate	660.0 U
91-94-1	3,3'-Dichlorobenzidine	1200.0 J
56-55-3	Benzo(a)Anthracene	660.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	660.0 U
218-01-9	Chrysene	2600.0
117-84-0	Di-n-Octyl Phthalate	23000.0
205-99-2	Benzo(b)Fluoranthene	660.0 U
207-08-9	Benzo(k)Fluoranthene	660.0 U
50-32-8	Benzo(a)Pyrene	660.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
53-70-3	Dibenz(a,h)Anthracene	660.0 U
191-24-2	Benzo(g,h,i)Perylene	660.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3) 000941 SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP S2 DIL 10X

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/24/86

Date Analyzed: 10/2/86

Conc/Dil Factor: -----> 20

Percent Moisture: 16

GPC Cleanup: Yes_X_ No___

Separatory Funnel Extraction: Yes_X_ SO

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	160.00 U
319-85-7	Beta-BHC	160.00 U
319-86-8	Delta-BHC	160.00 U
58-89-9	Gamma-BHC (Lindane)	160.00 U
76-44-8	Heptachlor	160.00 U
309-00-2	Aldrin	160.00 U
1024-57-3	Heptachlor Epoxide	160.00 U
959-98-8	Endosulfan I	160.00 U
60-57-1	Dieldrin	320.00 U
72-55-9	4,4'-DDE	320.00 U
72-20-8	Endrin	320.00 U
33213-65-9	Endosulfan II	320.00 U
72-54-8	4,4'-DDD	320.00 U
7421-93-4	Endrin Aldehyde	320.00 U
1031-07-8	Endosulfan Sulfate	320.00 U
50-29-3	4,4'-DDT	320.00 U
53494-70-5	Endrin Ketone	320.00 U
72-43-5	Methoxychlor	1600.00 U
57-74-9	Chlordane	1600.00 U
8001-35-2	Toxaphene	3200.00 U
12674-11-2	Aroclor-1016	1600.00 U
11104-28-2	Aroclor-1221	1600.00 U
11141-16-5	Aroclor-1232	1600.00 U
53469-21-9	Aroclor-1242	1600.00 U
12672-29-6	Aroclor-1248	1600.00 U
11097-69-1	Aroclor-1254	3200.00 U
11096-82-5	Aroclor-1260	3200.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 400000 Vi 3

FORM I

000094

000094

SAMPLE DATA

S-3

ORGANICS ANALYSIS DATA SHEET 000095

(PAGE 1)

SAMPLE NUMBER

:ory Name:NANCO LABORATORY INC.
mple ID No:>P3363
Matrix: SOIL
Release Authorized By: Sohail Jatam

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

S-3

VOLATILE COMPOUNDS

(PAGE 1)

Concentration: Low Medium (Circle One)

:ory Name:NANCO LABORATORY INC.
mple ID No:>P3363
Matrix: SOIL
Release Authorized By: Sohail Jatam

Date Extracted/Prepared: 09/26/86
Date Analyzed: 09/26/86
Conc/Dil Factor: 1
Percent Moisture: 28

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
pH: 7.0
Date Sample Received: 9/19/86

S-3

VOLATILE COMPOUNDS

		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
2	Methylene Chloride	2.0 J	124-48-1	Dibromochloromethane	5.0 U
1	ACETONE	25.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
0	Carbon Disulfide	5.0 U	71-43-2	Benzene	1.0 JB
-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
6-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
93-3	2-Butanone	15.0	127-18-4	Tetrachloroethene	5.0 U
55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	4.0 JB
23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	56.0
27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	102.0

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.

E

he result is a value greater than or equal to the detection t, report the value.

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

cates an estimated value.This flag is used either when mating a concentration for tentatively identified compounds a 1 1 response is assumed or when the mass spectral data cates the presence of a compound that meets the identification eria but the result is less than the specified detection limit 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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

000096

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J. D.E.P.

SAMPLE NO.

S-3

SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/24/86
Date Analyzed: 10/03/86
Conc/Dil Factor:----------> 2
Percent Moisture: 28

GPC Cleanup: Yes X No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

ber		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
75-9	N-Nitrosodimethylamine	660.0 U	83-32-9	Acenaphthene	660.0 U
95-2	Phenol	660.0 U	51-28-5	2,4-Dinitrophenol	3200.0 U
44-4	bis(-2-Chloroethyl)Ether	660.0 U	100-02-7	4-Nitrophenol	3200.0 U
57-8	2-Chlorophenol	660.0 U	132-64-9	Dibenzofuran	660.0 U
73-1	1,3-Dichlorobenzene	660.0 U	121-14-2	2,4-Dinitrotoluene	660.0 U
46-7	1,4-Dichlorobenzene	660.0 U	606-20-2	2,6-Dinitrotoluene	660.0 U
51-6	Benzyl Alcohol	660.0 U	84-66-2	Diethylphthalate	660.0 U
50-1	1,2-Dichlorobenzene	660.0 U	7005-72-3	4-Chlorophenyl-phenylether	660.0 U
48-7	2-Methylphenol	660.0 U	86-73-7	Fluorene	660.0 U
638-32-9	bis(2-chloroisopropyl)Ether	660.0 U	100-01-6	4-Nitroaniline	3200.0 U
44-5	4-Methylphenol	660.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	3200.0 U
64-7	N-Nitroso-Di-n-Propylamine	660.0 U	86-30-6	N-Nitrosodiphenylamine (1)	1060.0
72-1	Hexachloroethane	660.0 U	101-55-3	4-Bromophenyl-phenylether	660.0 U
95-3	Nitrobenzene	660.0 U	118-74-1	Hexachlorobenzene	660.0 U
59-1	Isophorone	660.0 U	87-86-5	Pentachlorophenol	3200.0 U
75-5	2-Nitrophenol	660.0 U	85-01-8	Phenanthrene	2300.0
67-9	2,4-Dimethylphenol	660.0 U	120-12-7	Anthracene	170.0 J
85-0	Benzoic Acid	3200.0 U	84-74-2	Di-n-Butylphthalate	400.0 JB
91-1	bis(-2-Chloroethoxy)Methane	660.0 U	206-44-0	Fluoranthene	2200.0
83-2	2,4-Dichlorophenol	660.0 U	129-00-0	Pyrene	1800.0
82-1	1,2,4-Trichlorobenzene	660.0 U	85-68-7	Butylbenzylphthalate	660.0 U
20-3	Naphthalene	300.0 J	91-94-1	3,3'-Dichlorobenzidine	1320.0 U
47-8	4-Chloroaniline	660.0 U	56-55-3	Benzo(a)Anthracene	720.0
68-3	Hexachlorobutadiene	660.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	660.0 U
50-7	4-Chloro-3-Methylphenol	660.0 U	218-01-9	Chrysene	1500.0
57-6	2-Methylnaphthalene	840.0	117-84-0	Di-n-Octyl Phthalate	660.0 U
47-4	Hexachlorocyclopentadiene	660.0 U	205-99-2	Benzo(b)Fluoranthene	1900.0
06-2	2,4,6-Trichlorophenol	660.0 U	207-08-9	Benzo(k)Fluoranthene	2600.0
95-4	2,4,5-Trichlorophenol	3200.0 U	50-32-8	Benzo(a)Pyrene	660.0 U
58-7	2-Chloronaphthalene	660.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
74-4	2-Nitroaniline	3200.0 U	53-70-3	Dibenz(a,h)Anthracene	660.0 U
11-3	Dimethyl Phthalate	660.0 U	191-24-2	Benzo(g,h,i)Perylene	660.0 U
96-8	Acenaphthylene	660.0 U			
09-2	3-Nitroaniline	3200.0 U			

(1) - Cannot be separated from diphenylamine

FORM I

ORGANICS ANALYSIS DATA SHEET

(PAGE 3) 000397

SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

S3

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/24/86

Date Analyzed: 10/1/86

Conc/Dil Factor: -----> 2

Percent Moisture: 28

GPC Cleanup: Yes_X_ No___

Separatory Funnel Extraction: Yes_X_ (SO)

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	92.30
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	32.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
53494-70-5	Endrin Ketone	32.00 U
72-43-5	Methoxychlor	160.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	320.00 U
12674-11-2	Aroclor-1016	160.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	758.96
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 40000 Vi 3

001146

SAMPLE DATA

S-4

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name: NANCO LABORATORY INC.
Lab Sample ID No: >P3324
Sample Matrix: SOIL
Data Release Authorized By: Sohail Jahan

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

S-4

ORGANVOLATILE COMPOUNDS

(PAGE 1)

Concentration: Low Medium (Circle One)

Laboratory Name: NANCO LABORAT
Lab Sample ID No: >P3324
Sample Matrix: SOIL
Data Release Authorized By: Sohail Jahan

Date Extracted/Prepared: 09/24/86
Date Analyzed: 09/24/86
Conc/Dil Factor: 1
Percent Moisture: 56

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

001147

VOLATILE COMPOUNDS

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
74-83-9	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
75-01-4	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
75-00-3	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
75-09-2	Methylene Chloride	9.0	124-48-1	Dibromochloromethane	5.0 U
67-64-1	ACETONE	96.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
75-15-0	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
67-66-3	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
107-06-2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
78-93-3	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	15.0
56-23-5	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
108-05-4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	13.0
75-27-4	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J. D.E.P.

001118

SAMPLE NO.

S-4

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)
SEMIVOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/24/86
Date Analyzed: 10/28/86
Conc/Dil Factor:----------> 2
Percent Moisture: 56

GPC Cleanup: Yes X No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	660.0 U
108-95-2	Phenol	660.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U
95-57-8	2-Chlorophenol	660.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U
100-51-6	Benzyl Alcohol	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U
95-48-7	2-Methylphenol	660.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	660.0 U
106-44-5	4-Methylphenol	660.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	660.0 U
67-72-1	Hexachloroethane	660.0 U
98-95-3	Nitrobenzene	660.0 U
78-59-1	Isophorone	8700.0
88-75-5	2-Nitrophenol	3400.0
105-67-9	2,4-Dimethylphenol	1500.0
65-85-0	Benzoic Acid	3200.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U
91-20-3	Naphthalene	660.0 U
106-47-8	4-Chloroaniline	660.0 U
87-68-3	Hexachlorobutadiene	660.0 U
59-50-7	4-Chloro-3-Methylphenol	6600.0
91-57-6	2-Methylnaphthalene	35000.0
77-47-4	Hexachlorocyclopentadiene	660.0 U
88-06-2	2,4,6-Trichlorophenol	660.0 U
95-95-4	2,4,5-Trichlorophenol	3200.0 U
91-58-7	2-Chloronaphthalene	660.0 U
88-74-4	2-Nitroaniline	3200.0 U
131-11-3	Dimethyl Phthalate	660.0 U
208-96-8	Acenaphthylene	660.0 U
99-09-2	3-Nitroaniline	2100.0 j

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	12000.0
51-28-5	2,4-Dinitrophenol	3200.0 U
100-02-7	4-Nitrophenol	3200.0 U
132-64-9	Dibenzofuran	3400.0
121-14-2	2,4-Dinitrotoluene	30000.0
606-20-2	2,6-Dinitrotoluene	660.0 U
84-66-2	Diethylphthalate	660.0 U
7005-72-3	4-Chlorophenyl-phenylether	660.0 U
86-73-7	Fluorene	660.0 U
100-01-6	4-Nitroaniline	3200.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	3200.0 U
86-30-6	N-Nitrosodiphenylamine (1)	660.0 U
101-55-3	4-Bromophenyl-phenylether	660.0 U
118-74-1	Hexachlorobenzene	660.0 U
87-86-5	Pentachlorophenol	3200.0 U
85-01-8	Phenanthrene	25000.0
120-12-7	Anthracene	660.0 U
84-74-2	Di-n-Butylphthalate	660.0 U
206-44-0	Fluoranthene	6700.0
129-00-0	Pyrene	9300.0
85-68-7	Butylbenzylphthalate	660.0 U
91-94-1	3,3'-Dichlorobenzidine	1320.0 U
56-55-3	Benzo(a)Anthracene	660.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	660.0 U
218-01-9	Chrysene	660.0 U
117-84-0	Di-n-Octyl Phthalate	660.0 U
205-99-2	Benzo(b)Fluoranthene	660.0 U
207-08-9	Benzo(k)Fluoranthene	660.0 U
50-32-8	Benzo(a)Pyrene	660.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
53-70-3	Dibenz(a,h)Anthracene	660.0 U
191-24-2	Benzo(g,h,i)Perylene	660.0 U

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER

ATORY NAME: NANCO LABS, INC.

NO: NJ DEP

S4 DIL 10X

PESTICIDE/PCBs 001149

centration: Low Medium (Circle One)

e Extracted/Prepared: 9/24/86

e Analyzed: 10/2/86

c/Dil Factor: -----> 20

rcent Moisture: 56

GPC Cleanup: Yes_X_ No___

Separatory Funnel Extraction: Yes_X_ SV

Continuous Liquid-Liquid Extraction: Yes___

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	160.00 U
319-85-7	Beta-BHC	160.00 U
319-86-8	Delta-BHC	160.00 U
58-89-9	Gamma-BHC (Lindane)	160.00 U
76-44-8	Heptachlor	160.00 U
309-00-2	Aldrin	160.00 U
1024-57-3	Heptachlor Epoxide	160.00 U
959-98-8	Endosulfan I	160.00 U
60-57-1	Dieldrin	320.00 U
72-55-9	4,4'-DDE	320.00 U
72-20-8	Endrin	320.00 U
33213-65-9	Endosulfan II	320.00 U
72-54-8	4,4'-DDD	320.00 U
7421-93-4	Endrin Aldehyde	320.00 U
1031-07-8	Endosulfan Sulfate	320.00 U
50-29-3	4,4'-DDT	320.00 U
53494-70-5	Endrin Ketone	320.00 U
72-43-5	Methoxychlor	1600.00 U
57-74-9	Chlordane	1600.00 U
8001-35-2	Toxaphene	3200.00 U
12674-11-2	Aroclor-1016	1600.00 U
11104-28-2	Aroclor-1221	1600.00 U
11141-16-5	Aroclor-1232	1600.00 U
53469-21-9	Aroclor-1242	1600.00 U
12672-29-6	Aroclor-1248	1600.00 U
11097-69-1	Aroclor-1254	3200.00 U
11096-82-5	Aroclor-1260	3200.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 400000 Vi 3

FORM I

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

001306

SAMPLE NUMBER

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

SED 1

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

GPC Cleanup: Yes_X_ No____

Date Extracted/Prepared: 9/24/86

(Separatory Funnel Extraction: Yes_X_

Date Analyzed: 10/1/86

Continuous Liquid-Liquid Extraction: Yes___

Conc/Dil Factor: -----> 2

Percent Moisture: 24

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	16.00 U
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	32.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
53494-70-5	Endrin Ketone	32.00 U
72-43-5	Methoxychlor	160.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	320.00 U
12674-11-2	Aroclor-1016	160.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	3947.37
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 40000 Vi 3

FORM I

001407

SAMPLE DATA

SED-2

ORGANICS ANALYSIS DATA SHEET

(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P3289
Sample Matrix: SOIL
Data Release Authorized By: Sohail Jafari

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SED-2

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)

001408

Date Extracted/Prepared: 09/23/86
Date Analyzed: 09/23/86
Conc/Dil Factor: 1 pH: 6.8
Percent Moisture: 20

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	2.3 J
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	8.1
67-64-1	ACETONE	35.0 B
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	2.0 J
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	5.0 U
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	6.0
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	7.0 B
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
	Total Xylenes	5.0 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 greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS

B

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

OTHER

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

ORGANIC ANALYSIS DATA SHEET

(PAGE 2)

LABORATORY NAME: NANCO LABS: INC.

CASE NO: N.J. D.E.P.

001409

SAMPLE NO.

SED-2

ORGANIC ANALYSIS DATA SHEET

(PAGE 2)

SEMIVOLATILE COMPOUNDS

LABORATORY NAME: NANCO LABS: INC.

Concentration: D.E.P. Low Medium (Circle One)

Date Extracted/Prepared: 9/24/86

Date Analyzed: 10/03/86

Conc/Dil Factor:----------> 2

Percent Moisture: 20

GPC Cleanup: (Yes) X No____

Separatory Funnel Extraction: Yes____

Continuous Liquid - Liquid Extraction: Yes__

CAS Number		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	660.0 U	83-32-9	Acenaphthene	660.0 U
108-95-2	Phenol	660.0 U	51-28-5	2,4-Dinitrophenol	3200.0 U
111-44-4	bis(-2-Chloroethyl)Ether	660.0 U	100-02-7	4-Nitrophenol	3200.0 U
95-57-8	2-Chlorophenol	660.0 U	132-64-9	Dibenzofuran	660.0 U
541-73-1	1,3-Dichlorobenzene	660.0 U	121-14-2	2,4-Dinitrotoluene	660.0 U
106-46-7	1,4-Dichlorobenzene	660.0 U	606-20-2	2,6-Dinitrotoluene	660.0 U
100-51-6	Benzyl Alcohol	660.0 U	84-66-2	Diethylphthalate	660.0 U
95-50-1	1,2-Dichlorobenzene	660.0 U	7005-72-3	4-Chlorophenyl-phenylether	660.0 U
95-48-7	2-Methylphenol	660.0 U	86-73-7	Fluorene	660.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	660.0 U	100-01-6	4-Nitroaniline	3200.0 U
106-44-5	4-Methylphenol	660.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	3200.0 U
621-64-7	N-Nitroso-Di-n-Propylamine	660.0 U	86-30-6	N-Nitrosodiphenylamine (1)	660.0 U
67-72-1	Hexachloroethane	660.0 U	101-55-3	4-Bromophenyl-phenylether	660.0 U
98-95-3	Nitrobenzene	660.0 U	118-74-1	Hexachlorobenzene	660.0 U
78-59-1	Isophorone	660.0 U	87-86-5	Pentachlorophenol	3200.0 U
88-75-5	2-Nitrophenol	660.0 U	85-01-8	Phenanthrene	660.0 U
105-67-9	2,4-Dimethylphenol	660.0 U	120-12-7	Anthracene	660.0 U
65-85-0	Benzoic Acid	38.0 J	84-74-2	Di-n-Butylphthalate	660.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	660.0 U	206-44-0	Fluoranthene	660.0 U
120-83-2	2,4-Dichlorophenol	660.0 U	129-00-0	Pyrene	660.0 U
120-82-1	1,2,4-Trichlorobenzene	660.0 U	85-68-7	Butylbenzylphthalate	660.0 U
91-20-3	Naphthalene	660.0 U	91-94-1	3,3'-Dichlorobenzidine	1320.0 U
106-47-8	4-Chloroaniline	660.0 U	56-55-3	Benzo(a)Anthracene	660.0 U
87-68-3	Hexachlorobutadiene	660.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	800.0 ~~B~~ JB
59-50-7	4-Chloro-3-Methylphenol	660.0 U	218-01-9	Chrysene	660.0 U
91-57-6	2-Methylnaphthalene	660.0 U	117-84-0	Di-n-Octyl Phthalate	800.0
77-47-4	Hexachlorocyclopentadiene	660.0 U	205-99-2	Benzo(b)Fluoranthene	660.0 U
88-06-2	2,4,6-Trichlorophenol	660.0 U	207-08-9	Benzo(k)Fluoranthene	660.0 U
95-95-4	2,4,5-Trichlorophenol	3200.0 U	50-32-8	Benzo(a)Pyrene	660.0 U
91-58-7	2-Chloronaphthalene	660.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
88-74-4	2-Nitroaniline	3200.0 U	53-70-3	Dibenz(a,h)Anthracene	660.0 U
131-11-3	Dimethyl Phthalate	660.0 U	191-24-2	Benzo(g,h,i)Perylene	660.0 U
208-96-8	Acenaphthylene	660.0 U			
99-09-2	3-Nitroaniline	3200.0 U			

(1) - Cannot be separated from diphenylamine

ORGANICS ANALYSIS DATA SHEET

(PAGE 3)

SAMPLE NUMBER

001410

LABORATORY NAME: NANCO LABS, INC.

CASE NO: NJ DEP

SED 2

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 9/24/86

Date Analyzed: 10/1/86

Cons/Dil Factor: -----> 2

Percent Moisture: 20

GPC Cleanup: Yes_X_ No___

Separatory Funnel Extraction: Yes_X_

Continuous Liquid-Liquid Extraction: Yes___

50

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	16.00 U
319-85-7	Beta-BHC	16.00 U
319-86-8	Delta-BHC	16.00 U
58-89-9	Gamma-BHC (Lindane)	16.00 U
76-44-8	Heptachlor	16.00 U
309-00-2	Aldrin	16.00 U
1024-57-3	Heptachlor Epoxide	16.00 U
959-98-8	Endosulfan I	16.00 U
60-57-1	Dieldrin	32.00 U
72-55-9	4,4'-DDE	32.00 U
72-20-8	Endrin	32.00 U
33213-65-9	Endosulfan II	32.00 U
72-54-8	4,4'-DDD	32.00 U
7421-93-4	Endrin Aldehyde	32.00 U
1031-07-8	Endosulfan Sulfate	32.00 U
50-29-3	4,4'-DDT	32.00 U
53494-70-5	Endrin Ketone	32.00 U
72-43-5	Methoxychlor	160.00 U
57-74-9	Chlordane	160.00 U
8001-35-2	Toxaphene	320.00 U
12674-11-2	Aroclor-1016	160.00 U
11104-28-2	Aroclor-1221	160.00 U
11141-16-5	Aroclor-1232	160.00 U
53469-21-9	Aroclor-1242	160.00 U
12672-29-6	Aroclor-1248	160.00 U
11097-69-1	Aroclor-1254	3431.37
11096-82-5	Aroclor-1260	320.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs _____ or Ws 30 Vt 40000 Vi 3

FORM I

SAMPLE DATA

SED - 1

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

SAMPLE NUMBER

Laboratory Name:NANCO LABORATORY INC.
Lab Sample ID No:>P3323
Sample Matrix: SOIL
Data Release Authorized By: Sohil Johnson

Case No: N.J. D.E.P.
QC Report No: 008, 009
Contract No: N/A
Date Sample Received: 9/19/86

SED-1

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 09/24/86
Date Analyzed: 09/24/86
Conc/Dil Factor: 1 pH: 7.6
Percent Moisture: 24

001304

		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
	Chloromethane	10.0 U	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
	Bromomethane	10.0 U	78-87-5	1,2-Dichloropropane	5.0 U
	Vinyl Chloride	10.0 U	10061-02-6	Trans-1,3-Dichloropropene	5.0 U
	Chloroethane	10.0 U	79-01-6	Trichloroethene	5.0 U
	Methylene Chloride	5.0 U	124-48-1	Dibromochloromethane	5.0 U
	ACETONE	31.0 B	79-00-5	1,1,2-Trichloroethane	5.0 U
	Carbon Disulfide	5.0 U	71-43-2	Benzene	5.0 U
	1,1-Dichloroethene	5.0 U	10061-01-5	cis-1,3-Dichloropropene	5.0 U
	1,1-Dichloroethane	5.0 U	110-75-8	2-Chloroethylvinylether	10.0 U
5	Trans-1,2-Dichloroethene	5.0 U	75-25-2	Bromoform	5.0 U
	Chloroform	5.0 U	591-78-6	2-Hexanone	10.0 U
2	1,2-Dichloroethane	5.0 U	108-10-1	4-Methyl-2-Pentanone	10.0 U
	2-Butanone	10.0 U	127-18-4	Tetrachloroethene	5.0 U
	1,1,1-Trichloroethane	5.0 U	108-88-3	Toluene	5.0 U
	Carbon Tetrachloride	5.0 U	108-90-7	Chlorobenzene	5.0 U
4	Vinyl Acetate	10.0 U	100-41-4	Ethylbenzene	5.0 U
	Bromodichloromethane	5.0 U	100-42-5	Styrene	5.0 U
				Total Xylenes	5.0 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.

esult is a value greater than or equal to the detection
eport the value.

s compound was analyzed for but not detected. Report
num detection limit for the sample with the U(e.g.10U
necessary concentration dilution actions. (This is not
ily the instrument detection limit.) The footnote should
ompound was analyzed for but not detected.The number is
num attainable detection limit for the sample.

s an estimated value.This flag is used either when
ng a concentration for tentatively identified compounds
1 1 response is assumed or when the mass spectral data
s the presence of a compound that meets the identification
but the result is less than the specified detection limit
ter than zero (e.g. 10J).

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

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

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

FORM I

ORGANIC ANALYSIS DATA SHEET
(PAGE 2)

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J. D.E.P.

SAMPLE NO.
001305
SED-1

(PAGE 2)

SEMIVOLATILE COMPOUNDS

LABORATORY NAME: NANCO LABS. INC.
CASE NO: N.J. D.E.P.

SAMPLE NO.

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 9/24/86
Date Analyzed: 10/03/86
Conc/Dil Factor:----------> 2
Percent Moisture: 24

GPC Cleanup: Yes X No____
Separatory Funnel Extraction: Yes____
Continuous Liquid - Liquid Extraction: Yes___

er		ug/l or ug/Kg (Circle One)	CAS Number		ug/l or ug/Kg (Circle One)
5-9	N-Nitrosodimethylamine	660.0 U	83-32-9	Acenaphthene	660.0 U
95-2	Phenol	660.0 U	51-28-5	2,4-Dinitrophenol	3200.0 U
44-4	bis(-2-Chloroethyl)Ether	660.0 U	100-02-7	4-Nitrophenol	3200.0 U
7-8	2-Chlorophenol	660.0 U	132-64-9	Dibenzofuran	660.0 U
73-1	1,3-Dichlorobenzene	660.0 U	121-14-2	2,4-Dinitrotoluene	660.0 U
46-7	1,4-Dichlorobenzene	660.0 U	606-20-2	2,6-Dinitrotoluene	660.0 U
51-6	Benzyl Alcohol	660.0 U	84-66-2	Diethylphthalate	660.0 U
50-1	1,2-Dichlorobenzene	660.0 U	7005-72-3	4-Chlorophenyl-phenylether	660.0 U
48-7	2-Methylphenol	660.0 U	86-73-7	Fluorene	660.0 U
38-32-9	bis(2-chloroisopropyl)Ether	660.0 U	100-01-6	4-Nitroaniline	3200.0 U
-44-5	4-Methylphenol	660.0 U	534-52-1	4,6-Dinitro-2-Methylphenol	3200.0 U
-64-7	N-Nitroso-Di-n-Propylamine	660.0 U	86-30-6	N-Nitrosodiphenylamine (1)	660.0 U
72-1	Hexachloroethane	660.0 U	101-55-3	4-Bromophenyl-phenylether	660.0 U
95-3	Nitrobenzene	660.0 U	118-74-1	Hexachlorobenzene	660.0 U
59-1	Isophorone	660.0 U	87-86-5	Pentachlorophenol	3200.0 U
75-5	2-Nitrophenol	660.0 U	85-01-8	Phenanthrene	230.0 J
67-9	2,4-Dimethylphenol	660.0 U	120-12-7	Anthracene	660.0 U
85-0	Benzoic Acid	97.0 J	84-74-2	Di-n-Butylphthalate	660.0 U
1-91-1	bis(-2-Chloroethoxy)Methane	660.0 U	206-44-0	Fluoranthene	300.0 J
0-83-2	2,4-Dichlorophenol	660.0 U	129-00-0	Pyrene	140.0 J
0-82-1	1,2,4-Trichlorobenzene	660.0 U	85-68-7	Butylbenzylphthalate	660.0 U
-20-3	Naphthalene	660.0 U	91-94-1	3,3'-Dichlorobenzidine	900.0 J
6-47-8	4-Chloroaniline	660.0 U	56-55-3	Benzo(a)Anthracene	660.0 U
-68-3	Hexachlorobutadiene	660.0 U	117-81-7	bis(2-Ethylhexyl)Phthalate	440.0 J B
-50-7	4-Chloro-3-Methylphenol	660.0 U	218-01-9	Chrysene	320.0 J
-57-6	2-Methylnaphthalene	660.0 U	117-84-0	Di-n-Octyl Phthalate	660.0 U
-47-4	Hexachlorocyclopentadiene	660.0 U	205-99-2	Benzo(b)Fluoranthene	660.0 U
06-2	2,4,6-Trichlorophenol	660.0 U	207-08-9	Benzo(k)Fluoranthene	660.0 U
5-95-4	2,4,5-Trichlorophenol	3200.0 U	50-32-8	Benzo(a)Pyrene	660.0 U
1-58-7	2-Chloronaphthalene	660.0 U	193-39-5	Indeno(1,2,3-cd)Pyrene	660.0 U
8-74-4	2-Nitroaniline	3200.0 U	53-70-3	Dibenz(a,h)Anthracene	660.0 U
31-11-3	Dimethyl Phthalate	660.0 U	191-24-2	Benzo(g,h,i)Perylene	660.0 U
08-96-8	Acenaphthylene	660.0 U			
9-09-2	3-Nitroaniline	3200.0 U			

(1) - Cannot be separated from diphenylamine

Let's protect our earth

30 APR 1987

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS SITE MITIGATION
401 E. State St., CN 028, Trenton, N.J. 08625
(609) 984-2902

ANTHONY J. FARRO
ACTING DIRECTOR

APR 29 1987

M E M O R A N D U M

TO: David Van Eck, Technical Coordinator
Bureau of Site Assessment

THROUGH: Nancy E. Spence, NA Section Chief
Dr. Barry Frasco, Environmental Scientist I BF
Bureau of Environmental Measurements and Quality Assurance
Quality Assurance Section

FROM: John H. Hunter, Research Scientist III
Quality Assurance Section

SUBJECT: Asarco Data Package, work performed by Nanco, Sample Numbers S-1, S-2, S-3, S-4, SED-1, SED-2, SW-1, SW-2, SW-3, SW-4, and GW-1. Contract X-085

The Quality Assurance Section, Bureau of Environmental Measurements and Quality Assurance has reviewed the above referenced data package according to NJDEP Contract X-085 Tier I deliverables requirements. Samples were analyzed for volatile organics, base neutral extractable organics, acid extractable organics pesticides, PCB's and inorganics. In general Quality Assurance criteria were met and the package found acceptable. For the exceptions, please see the attached detailed reports. There were many compounds found, please see the attached Analyte Summary. All data which are quantitatively qualified, for not meeting quality assurance criteria, are so noted with a J.

If you have any questions, please contact this section at 633-0752.

HS212:cp
c John M. Mateo
Al Pleva

ANALYTE SUMMARY

SITE: ASARCO *

SAMPLE	ANALYTE	METHOD BLANK CONC. (ug/kg)	LAB. REPORTED CONC. (ug/kg)	QAS REPORTED CONC. (ug/kg)	QAS DECISION
S-1	methylene chloride	1.0	7.2	7.2B	NEGATE 4.
	acetone	7.8	11.0	11.0B	NEGATE 1.
	Arochlor 1254	0.0	1300	1300	CONFIRM
S-2	methylene chloride	0.0	39.0	39.0	CONFIRM
	acetone	5.7	206	206BJ	CONFIRM 3.
	carbon disulfide	0.0	15.0	15.0J	CONFIRM
	2 butanone	0.0	173	173J	CONFIRM
	benzene	0.0	1500	1500	CONFIRM
	2 hexanone	0.0	9300	9300	CONFIRM
	4-methyl-2-pentanone	0.0	36,000	36,000J	CONFIRM
	toluene	0.0	24,000	24,000	CONFIRM
	ethylbenzene	0.0	5,500	5,500	CONFIRM
	total xylenes	0.0	66,000	66,000	CONFIRM
	isophorone	0.0	7,100	7,100J	CONFIRM
	benzoic acid	0.0	470	470J	CONFIRM
	2-methylnaphthalene	0.0	7,300	7,300	CONFIRM
	3-nitroaniline	0.0	830	830	CONFIRM
	dibenzofuran	0.0	1,600	1,600	CONFIRM
	2,4-dinitrotoluene	0.0	1,400	1,400J	CONFIRM
	diethylphthalate	0.0	930	930	CONFIRM
	4-nitroaniline	0.0	1,900	1,900	CONFIRM
	N-nitrosodiphenyl amine	0.0	6,400	6,400	CONFIRM
	phenanthrene	0.0	30,000	30,000	CONFIRM
	di-n-butylphthalate	110.0	2,200	2,200B	NEGATE 1.
	fluoranthene	0.0	3,100	3,100	CONFIRM
	pyrene	0.0	4,300	4,300	CONFIRM
	3,3' dichloro benzidine	0.0	1,200	1,200J	CONFIRM
	chrysene	0.0	2,600	2,600	CONFIRM
	di-n-octylphthalate	10.0	23,000	23,000B	CONFIRM
S-3	methylene chloride	0.0	2.0J	2.0J	NEGATE 4.
	acetone	4.4	25.0	25.0B	NEGATE 4.
	2 butanone	0.0	15.0	15.0	CONFIRM
	benzene	1.0	1.0J	1.0BJ	NEGATE 1.
	toluene	2.4	4.0J	4.0BJ	NEGATE 1.
	ethylbenzene	0.0	56.0	56.0	CONFIRM
	total xylenes	0.0	102.0	102.0	CONFIRM
	2-methylnaphthalene	0.0	840.0	840.0	CONFIRM
	n-nitrisodiphenyl amine	0.0	1060	1060	CONFIRM
	phenanthrene	0.0	2300	2300	CONFIRM

	anthracene	0.0	170.0	170.0	CONFIRM
	di-n-butylphthalate	110.0	400.0	400.0	NEGATE 1.
	fluoranthene	0.0	2200	2200	CONFIRM
	pyrene	0.0	1800	1800	CONFIRM
	chrysene	0.0	1500	1500	CONFIRM
	benzo(a)anthracene	0.0	720	720	CONFIRM
	benzo(b)fluoranthene	0.0	1900	1900	CONFIRM
	benzo(k)fluoranthene	0.0	2600	2600J	CONFIRM
	Heptachlor epoxide	0.0	92.30	92.30	CONFIRM
	Arochlor 1254	0.0	758.96	758.96	CONFIRM
S-4	methylene chloride	0.0	9.0	9.0	NEGATE 4.
	acetone	5.7	96.0	96.0BJ	CONFIRM
	toluene	0.0	15.0	15.0	NEGATE 4.
	ethylbenzene	0.0	13.0	13.0	CONFIRM
	isophorone	0.0	8700	8700J	CONFIRM
	2-nitrophenol	0.0	3400	3400	CONFIRM
	2,4 dimethylphenol	0.0	1500	1500	CONFIRM
	4-chloro-3-methyl phenol	0.0	6600	6600	CONFIRM
	2-methylnaphthalene	0.0	35,000	35,000	CONFIRM
	3-nitroaniline	0.0	2,100	2,100	CONFIRM
	acenaphthene	0.0	12,000	12,000	CONFIRM
	dibenzofuran	0.0	3,400	3,400	CONFIRM
	2,4 dinitrotoluene	0.0	30,000	30,000J	CONFIRM
	phenanthrene	0.0	25,000	25,000	CONFIRM
	fluoranthene	0.0	6,700	6,700	CONFIRM
	pyrene	0.0	9,300	9,300	CONFIRM
SED-1	acetone	5.7	31.0	31.0BJ	NEGATE 4.
	benzoic acid	0.0	97.0	97.0J	CONFIRM
	phenanthrene	0.0	230.0	230.0	CONFIRM
	fluoranthene	0.0	300.0	300.0	CONFIRM
	pyrene	0.0	140.0	140.0	CONFIRM
	3,3' dichloro benzidine	0.0	900.0	900.0J	CONFIRM
	bis(2-ethylhexyl) phthalate	9.2	440.0	440.0	NEGATE 4.
	chrysene	0.0	320.0	320.0	CONFIRM
	Arochlor 1254	0.0	3947.37	3947.37	CONFIRM
SED-2	methylene chloride	1.0	8.1	8.1BJ	NEGATE 4.
	acetone	7.8	35.0	35.0B	NEGATE 4.
	1,1 dichloroethene	0.0	2.0	2.0	CONFIRM
	benzene	0.0	6.0	6.0J	CONFIRM
	toluene	0.0	7.0	7.0J	CONFIRM
	benzoic acid	0.0	38J	38J	CONFIRM
	bis(2-ethylhexyl) phthalate	0.0	800.0	800.0	NEGATE 4.
	di-n-octylphthalate	0.0	800.0	800.0	NEGATE 4.
	Arochlor 1254	0.0	3431.37	3431.7	CONFIRM
		(ug/l)	(ug/l)	(ug/l)	
SW-I	methylene chloride	0.9	1.8	1.8BJ	NEGATE 1.
	acetone	0.0	4.9	4.9J	NEGATE 4.

	bis(2ethylhexyl) phthalate	9.2	84.0	84.0B	NEGATE 4.
	di-n-octylphthalate	0.0	8.8	8.8	NEGATE 4.
SW-2	methylene chloride	0.9	3.6	3.6BJ	NEGATE 4.
	toluene	1.5	3.8	3.8JB	NEGATE 3.
	naphthalene	0.0	3.3	3.3J	CONFIRM
	4-chlororaniline	0.0	15.0	15.0	CONFIRM
	2-methyl-naphthalene	0.0	24.0	24.0	CONFIRM
	2,4-dinitrotoluene	0.0	13.0	13.0J	CONFIRM
	fluorene	0.0	10.0	10.0	CONFIRM
	n-nitrosodiphenyl amine	0.0	53.0	53.0	CONFIRM
	phenanthrene	0.0	19.0	19.0	CONFIRM
	bis(2-ethylhexyl) phthalate	9.2	77.0	77.0B	NEGATE 4.
	di-n-octylphthalate	0.0	65.0	65.0	NEGATE 4.
SW-3	methylene chloride	0.9	2.3	2.3BJ	NEGATE 1.
	acetone	0.0	6.0	6.0J	NEGATE 4.
	bis(2-ethylhexyl) phthalate	9.2	240.0	240.0B	CONFIRM 3.
	di-n-octylphthalate	0.0	28.0	28.0	NEGATE 4.
SW-4	methylene chloride	0.9	1.6	1.6BJ	NEGATE 1.
	3,3'dichlorobenzidine	0.0	3.4	3.4J	CONFIRM
	gamma BHC (Lindane)	0.0	0.007	0.007	CONFIRM
	4,4' DDE	0.0	0.02	0.02	CONFIRM
GW-1	methylene chloride	0.9	1.9	1.9BJ	NEGATE 1.
	acetone	0.0	230.0	230.0	CONFIRM
	toluene	0.0	1.6	1.6J	NEGATE 4.
	ethylbenzene	0.0	190.0	190.0	CONFIRM
	total xylenes	0.0	890.0	890.0	CONFIRM
	phenol	0.0	11.0	11.0	CONFIRM
	2,4-dimethylphenol	0.0	22.0	22.0	CONFIRM
	bis(2-ethylhexyl) phthalate	9.2	49.0	49.0B	NEGATE 4.
	di-n-octylphthalate	0.0	4.1	4.1	CONFIRM

FOOTNOTES

1. The value reported is less than 3 times the value in the method blank. It is the policy of the QAS to negate reported value due to probable foreign contamination unrelated unreleted to the actual sample. It is not possible to accurately quantitate below value reported in the sample, yet the end user is alerted that a reportable quantity was detected. Please note that the relative dilution of the blanks and the sample are taken into consideration when making this determination.

2. The value reported is between 3x and 5x the value in the method blank and may be due to possible foreign contamination unrelated to the actual sample. The value reported is not negated and is considered estimated as indicated by the presence of the J qualifier. Resampling is recommended.

3. The value reported is greater than 5x the method blank and is considered "real". The "B" qualifier alerts the end-user to the presence of this analyte in the method blank.

4. The value reported is less than 3x the value found in the field and/or trip blank. It is QAS policy to negate as this value is attributable to foreign contamination unrelated to the sample. Please note that the relative dilution of the blanks and the sample are taken into consideration in making this determination.

* Nontargeted compounds have not been evaluated due to time constraints

EVALUATION OF
ANALYTICAL DATA REPORT PACKAGE
FOR
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS SITE MITIGATION
CN-028
TRENTON, NEW JERSEY 08625

Case Name	Field Sample #	Laboratory Sample #	Sample Location	Time and Date of Sample Collection
ASARACO	AR918-SW1	J6-0115-008		
	-SW2	J6-0116-008		
	-SW3	J6-0117-008		
	-SW4	J6-0118-008		
	-GW1	J6-0119-008		
	-TB	J6-0120-008		
	-FB	J6-0121-008		
	-S1	J6-0122-008		
	-S2	J6-0123-007		
	-S3	J6-0124-008		
	-SED1	J6-0126-008		
	-SED2	J6-0127-008		
	-TB	J6-0128-007		

Lab Name: NARCO

Immediate Year of Data:

EVALUATION OF DELIVERABLES

Specific Comments on Analytical Deliverables Received

I. Format

Required as deliverables and must be provided:

1. Review page - Acceptable
2. Title page - Acceptable
3. Table of contents - Acceptable
4. Sample Request Form - Acceptable
5. Chain of Custody - Acceptable
6. Laboratory chronicle - Acceptable
7. Non-Conformance Summary - Acceptable
8. Methodology Review - Acceptable
9. Pagination - Acceptable.

II. Instrumentation Set-up

1. Volatile Fraction

A. GC/MS Tune - Acceptable.

B. Calibration

1. Initial Standard Calibration

8/30/86

Compound	% RSD
Bromomethane	39

2. Continuing Standard Calibration

9/22/86 05:53 B1, SW-1, SW-3, SW-4, GW-1, TB-1, FB, & FBMSD

Compound	% Difference
chloromethane	-7
bromomethane	37
1.1.1 trichloroethane	45
carbon tetrachloride	31
vinyl acetate	28
bromodichloromethane	35
bromochloroethane	40
bromoform	37

9/22/86 18:44 B2, S-1, S-1MS, S-1MSD, SED-2

Compound	% Difference
chloromethane	52
chloroethane	31
methylene chloride	48
carbon disulfide	32
1,1,1 trichloroethane	44
carbon tetrachloride	49
vinyl acetate	30
bromodichloromethane	36
dibromochloromethane	42
bromoform	28

9/23/86 06:05 B3, TB2 & SW-2

Compound	% Difference
chloromethane	59
bromomethane	68
chloroethane	27
carbon disulfide	30
1,1,1 trichloroethane	42
carbon tetrachloride	49
vinyl acetate	31
bromodichloromethane	35
dibromochloromethane	41
bromoform	33

9/24/86 05:47 BLANK4, SED-1, S-4, & S-2

Compound	% Difference
chloromethane	30
bromomethane	33
acetone	27
2-butanone	37
1,1,1 trichloroethane	44
carbon tetrachloride	49
vinyl acetate	41
bromodichloromethane	38
dibromochloromethane	44
bromoform	35
4-methyl-2-pentanone	42

9/26/86 09:39 BLANK5 & D-3

Compound	% Difference
chloromethane	37
carbon disulfide	30
1,1-dichloroethane	27
1,1,1 trichloroethane	41

carbon tetrachloride	48
vinyl acetate	34
bromodichloromethane	42
bromoform	41
2-hexanone	26

2. Base Neutral / Acid Extractable Fraction

A. GC/MS Tune - Acceptable.

B. Calibration

1. Initial Standard Calibration

10/28/86 - Fully acceptable (S-4)

10/08/86 (all samples but S-4)

Compound	% RSD
isophorone	41
benzoic acid	42
bis(-2-chloroethoxy)methane	52
2,4 dinitrotoluene	38
3,3' dichlorobenzidine	41
benzo(k)fluoranthene	42
indeno(1,2,3 cd) pyrene	51

2. Continuing Standard Calibration

10/22/86 17:24 (SW-2)

Compound	% Difference
benzoic acid	33
1,2,4 trichlorophenol	37
2,4,5 trichlorophenol	73
dimethyl phthalate	54
4 nitrophenol	28
2,4 dinitrotoluene	47
2,6 dinitrotoluene	58
4-chloropheny1-phenylether	37
4 nitroaniline	61
3,3' dichlorobenzidine	72
benzo(a)anthracene	33
benzo(b)fluoranthene	37
benzo(g,h,i)perylene	45

3. Pesticide and PCB Fraction

A. Calibration

1. Initial Standard Calibration - Acceptable

2. Continuing Standard Calibration - Acceptable

B. Retention Time Windows - Acceptable

C. DBC Retention Time Shift - Acceptable

D. DDT Minumim Retention Time - Acceptable

III. Chromatagraphic and Quality Control Concerns:

1. Volatile Fraction

A. Holding Times - Acceptable

B. Surrogates - Water; Acceptable.
Soil; Acceptable.

C. Matrix Spike and Matrix Spike Duplicate

Water - Field Blank

Compound	% Recovery	RPD	QC Limits %R	QC Limits RPD
1,1 dichloroethene	-	19	-	14
trichloroethene	-	22	-	14
chlorobenzene	-	20	-	13
toluene	-	24	-	13
benzene	-	23	-	11

Soil - S-1, Acceptable.

D. Blanks
1. Method Blank

BLANK (# 1) OF 9/22/86

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	0.9

BLANK (#2) OF 9/22/86

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	1.0
acetone	7.9

BLANK (#3) OF 9/23/86

COMPOUND	CONCENTRATION (ug/l)

acetone	4.9
toluene	1.5

BLANK (#4) OF 9/24/86

COMPOUND	CONCENTRATION (ug/l)
acetone	5.7

BLANK (#5) OF 9/26/86

COMPOUND	CONCENTRATION (ug/l)
acetone	4.4
benzene	1.0
toluene	2.4

2. Trip Blank

TRIP BLANK #1

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	2.1
acetone	8.5
toluene	13.0

TRIP BLANK #2

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	0.8

3. Field Blank

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	3.0
acetone	15.0

2. Base Neutral / Acid Extractable Fraction

A. Holding Times - Acceptable

B. Surrogates - Water; Acceptable
Soil; Acceptable

C. Matrix Spike and Matrix Spike Duplicate

Water

Base Neutral - SW-2

Compound	%Recovery	RPD	QC Limits %R	QC Limits RPD

1,2,4 trichloro bezene	128(MSD)	38	39- 98	28
acenaphthene	131(MS)	-	46-118	-
	151(MSD)	-	46-118	-
2,4 dinitro toluene	123(MS)	-	24- 96	-
	154(MSD)	-	24- 96	-
pyrene	133(MSD)	-	26-127	-
N - nitroso -di-propylamine	140(MSD)	-	41-116	-
1,4 dichloro-benzene	113(MSD)	-	36- 97	-

Acid - SW-2

Compound	%Recovery	RPD	QC %R	Limits RPD
pentachloro phenol	123(MSD)	-	9-103	-
4- chloro - 3-methylphenol	118(MSD)	-	23-97	-
4-nitrophenol	-	75	-	50

Soil

Base Neutral - S-1

Compound	%Recovery	RPD	QC %R	Limits RPD
2,4 dinitro toluene	90(MS)	-	28- 89	-
N-nitroso-di-n-propylamine	-	39	-	38
1,4 - dichloro benzene	-	39	-	27

Acid - S-1

Compound	%Recovery	RPD	QC %R	Limits RPD
phenol	94(MS)	-	26- 90	-
	120(MSD)	-	26- 90	-
4-chloro-3 methylphenol	119(MS)	-	26-113	-
	121(MSD)	-	26-113	-

D. Blanks

1. Method Blank

BLANK (#1) OF 10/8/86 (SW-1, SW-1, SW-2, SW-2, SW-4, & [illegible])

COMPOUND CONCENTRATION (ug/l)

di-n-butylphthalate	4.0
bis (2-ethylhexyl) phthalate	9.2

BLANK (#2) OF 10/3/86 (S-1, S-2, S-3, S-4, SED-1, & SED-2)

COMPOUND	CONCENTRATION (ug/l)
di-n-butylphtahlate	110.0
4- hydroxy-4-methyl-2- pentanone	31000.0

2. Trip Blank - Not Applicable

3. Field Blank

COMPOUND	CONCENTRATION (ug/l)
bis (2 - ethylhexyl)phthalate	45.0
di - n - octylphthalate	10.0

3. Pesticide and PCB Fraction

A. Holding Times - Acceptable

B. Surrogates - Acceptable

C. Matrix Spike and Matrix Spike Duplicate

Water - SW-1

Compound	%Recovery	RPD	QC Limits %R	QC Limits RPD
heptachlor	35(MSD)	35	40-131	20
aldrin	130(MSD)	77	40-120	22
endrin	133(MS)	-	56-121	-

Soil - Acceptable

D. Blanks
1. Method Blank

BLANK (#1) OF 10/1/86

COMPOUND	CONCENTRATION (ug/l)
none found	

BLANK (#2) OF 10/1/86

COMPOUND	CONCENTRATION (ug/l)
endosulfan II	2.0

2. Trip Blank - Not Applicable

3. Field Blank

COMPOUND	CONCENTRATION (ug/l)
4,4' DDT	0.01

IV. Dioxin (2,3,7,8 TCDD)

Soil and waste matrix deliverables shall include September 1983 Region VII protocols as modified by NJDEP July 1984. Water and wastewater matrix deliverables shall include Method 613, July 1982, EMSL Cincinnati protocols.

EVALUATON

NOT APPLICABLE.

V. Metals and Limited Chemistry

A defined deliverables package is currently in development, however areas of detection limits and quality control are to be submitted as per the appropriate EPA publication.

EVALUATION

NOT EVALUATED.

Final Evaluation with date and signature of BEMQA auditor.

_____ acceptable

_____ acceptable, with cautions noted above

_____ missing documentation requested and not received on timely basis, data rejection until received

_____ noncompliance to criteria achievement, quality assurance rejection

_____ _____
signature date

Review- Division of Hazardous Site Management disposition of all rejected data

Comments/Remedies:

_____ _____
Quality Assurance Officer Date
or DHSM designee

cc: Project Manager and BEMQA on Data Rejection Review.

Let's protect our earth

OK!

30 APR 1987

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS SITE MITIGATION
401 E. State St., CN 028, Trenton, N.J. 08625
(609) 984-2902

Asarco

ANTHONY J. FARRO
ACTING DIRECTOR

APR 29 1987

M E M O R A N D U M

TO: David Van Eck, Technical Coordinator
Bureau of Site Assessment

THROUGH: Nancy E. Spence, NA Section Chief
Dr. Barry Frasco, Environmental Scientist I BF
Bureau of Environmental Measurements and Quality Assurance
Quality Assurance Section

FROM: John J. Hunter, Research Scientist III
Quality Assurance Section

SUBJECT: Asarco Data Package, work performed by Nanco, Sample Numbers S-1, S-2, S-3, S-4, SED-1, SED-2, SW-1, SW-2, SW-3, SW-4, and GW-1. Contract X-085

The Quality Assurance Section, Bureau of Environmental Measurements and Quality Assurance has reviewed the above referenced data package according to NJDEP Contract X-085 Tier I deliverables requirements. Samples were analyzed for volatile organics, base neutral extractable organics, acid extractable organics pesticides, PCB's and inorganics. In general Quality Assurance criteria were met and the package found acceptable. For the exceptions, please see the attached detailed reports. There were many compounds found, please see the attached Analyte Summary. All data which are quantitatively qualified, for not meeting quality assurance criteria, are so noted with a J.

If you have any questions, please contact this section at 633-0752.

HS212:cp
c John M. Mateo
Al Pleva

ANALYTE SUMMARY

SITE: ASARCO *

SAMPLE	ANALYTE	METHOD BLANK CONC. (ug/kg)	LAB. REPORTED CONC. (ug/kg)	QAS REPORTED CONC. (ug/kg)	QAS DECISION
S-1	methylene chloride	1.0	7.2	7.2B	NEGATE 4.
	acetone	7.8	11.0	11.0B	NEGATE 1.
	Arochlor 1254	0.0	1300	1300	CONFIRM
S-2	methylene chloride	0.0	39.0	39.0	CONFIRM
	acetone	5.7	206	206BJ	CONFIRM 3.
	carbon disulfide	0.0	15.0	15.0J	CONFIRM
	2 butanone	0.0	173	173J	CONFIRM
	benzene	0.0	1500	1500	CONFIRM
	2 hexanone	0.0	9300	9300	CONFIRM
	4-methyl-2-pentanone	0.0	36,000	36,000J	CONFIRM
	toluene	0.0	24,000	24,000	CONFIRM
	ethylbenzene	0.0	5,500	5,500	CONFIRM
	total xylenes	0.0	66,000	66,000	CONFIRM
	isophorone	0.0	7,100	7,100J	CONFIRM
	benzoic acid	0.0	470	470J	CONFIRM
	2-methylnaphthalene	0.0	7,300	7,300	CONFIRM
	3-nitroaniline	0.0	830	830	CONFIRM
	dibenzofuran	0.0	1,600	1,600	CONFIRM
	2,4-dinitrotoluene	0.0	1,400	1,400J	CONFIRM
	diethylphthalate	0.0	930	930	CONFIRM
	4-nitroaniline	0.0	1,900	1,900	CONFIRM
	N-nitrosodiphenyl amine	0.0	6,400	6,400	CONFIRM
	phenanthrene	0.0	30,000	30,000	CONFIRM
	di-n-butylphthalate	110.0	2,200	2,200B	NEGATE 1.
	fluoranthene	0.0	3,100	3,100	CONFIRM
	pyrene	0.0	4,300	4,300	CONFIRM
	3,3' dichloro benzidine	0.0	1,200	1,200J	CONFIRM
	chrysene	0.0	2,600	2,600	CONFIRM
	di-n-octylphthalate	10.0	23,000	23,000B	CONFIRM
S-3	methylene chloride	0.0	2.0J	2.0J	NEGATE 4.
	acetone	4.4	25.0	25.0B	NEGATE 4.
	2 butanone	0.0	15.0	15.0	CONFIRM
	benzene	1.0	1.0J	1.0BJ	NEGATE 1.
	toluene	2.4	4.0J	4.0BJ	NEGATE 1.
	ethylbenzene	0.0	56.0	56.0	CONFIRM
	total xylenes	0.0	102.0	102.0	CONFIRM .
	2-methylnaphthalene	0.0	840.0	840.0	CONFIRM
	n-nitrisodiphenyl amine	0.0	1060	1060	CONFIRM
	phenanthrene	0.0	2300	2300	CONFIRM

	anthracene	0.0	170.0	170.0	CONFIRM
	di-n-butylphthalate	110.0	400.0	400.0	NEGATE 1.
	fluoranthene	0.0	2200	2200	CONFIRM
	pyrene	0.0	1800	1800	CONFIRM
	chrysene	0.0	1500	1500	CONFIRM
	benzo(a)anthracene	0.0	720	720	CONFIRM
	benzo(b)fluoranthene	0.0	1900	1900	CONFIRM
	benzo(k)fluoranthene	0.0	2600	2600J	CONFIRM
	Heptachlor epoxide	0.0	92.30	92.30	CONFIRM
	Arochlor 1254	0.0	758.96	758.96	CONFIRM
S-4	methylene chloride	0.0	9.0	9.0	NEGATE 4.
	acetone	5.7	96.0	96.0BJ	CONFIRM
	toluene	0.0	15.0	15.0	NEGATE 4.
	ethylbenzene	0.0	13.0	13.0	CONFIRM
	isophorone	0.0	8700	8700J	CONFIRM
	2-nitrophenol	0.0	3400	3400	CONFIRM
	2,4 dimethylphenol	0.0	1500	1500	CONFIRM
	4-chloro-3-methyl phenol	0.0	6600	6600	CONFIRM
	2-methylnaphthalene	0.0	35,000	35,000	CONFIRM
	3-nitroaniline	0.0	2,100	2,100	CONFIRM
	acenaphthene	0.0	12,000	12,000	CONFIRM
	dibenzofuran	0.0	3,400	3,400	CONFIRM
	2,4 dinitrotoluene	0.0	30,000	30,000J	CONFIRM
	phenanthrene	0.0	25,000	25,000	CONFIRM
	fluoranthene	0.0	6,700	6,700	CONFIRM
	pyrene	0.0	9,300	9,300	CONFIRM
SED-1	acetone	5.7	31.0	31.0BJ	NEGATE 4.
	benzoic acid	0.0	97.0	97.0J	CONFIRM
	phenanthrene	0.0	230.0	230.0	CONFIRM
	fluoranthene	0.0	300.0	300.0	CONFIRM
	pyrene	0.0	140.0	140.0	CONFIRM
	3,3' dichloro benzidine	0.0	900.0	900.0J	CONFIRM
	bis(2-ethylhexyl) phthalate	9.2	440.0	440.0	NEGATE 4.
	chrysene	0.0	320.0	320.0	CONFIRM
	Arochlor 1254	0.0	3947.37	3947.37	CONFIRM
SED-2	methylene chloride	1.0	8.1	8.1BJ	NEGATE 4.
	acetone	7.8	35.0	35.0B	NEGATE 4.
	1,1 dichloroethene	0.0	2.0	2.0	CONFIRM
	benzene	0.0	6.0	6.0J	CONFIRM
	toluene	0.0	7.0	7.0J	CONFIRM
	benzoic acid	0.0	38J	38J	CONFIRM
	bis(2-ethylhexyl) phthalate	0.0	800.0	800.0	NEGATE 4.
	di-n-octylphthalate	0.0	800.0	800.0	NEGATE 4.
	Arochlor 1254	0.0	3431.37	3431.7	CONFIRM
		(ug/l)	(ug/l)	(ug/l)	
SW-1	methylene chloride	0.9	1.8	1.8BJ	NEGATE 1.
	acetone	0.0	4.9	4.9J	NEGATE 4.

	bis(2ethylhexyl) phthalate	9.2	84.0	84.0B	NEGATE 4.
	di-n-octylphthalate	0.0	8.8	8.8	NEGATE 4.
SW-2	methylene chloride	0.9	3.6	3.6BJ	NEGATE 4.
	toluene	1.5	3.8	3.8JB	NEGATE 3.
	naphthalene	0.0	3.3	3.3J	CONFIRM
	4-chlororaniline	0.0	15.0	15.0	CONFIRM
	2-methyl-naphthalene	0.0	24.0	24.0	CONFIRM
	2,4-dinitrotoluene	0.0	13.0	13.0J	CONFIRM
	fluorene	0.0	10.0	10.0	CONFIRM
	n-nitrosodiphenyl amine	0.0	53.0	53.0	CONFIRM
	phenanthrene	0.0	19.0	19.0	CONFIRM
	bis(2-ethylhexyl) phthalate	9.2	77.0	77.0B	NEGATE 4.
	di-n-octylphthalate	0.0	65.0	65.0	NEGATE 4.
SW-3	methylene chloride	0.9	2.3	2.3BJ	NEGATE 1.
	acetone	0.0	6.0	6.0J	NEGATE 4.
	bis(2-ethylhexyl) phthalate	9.2	240.0	240.0B	CONFIRM 3.
	di-n-octylphthalate	0.0	28.0	28.0	NEGATE 4.
SW-4	methylene chloride	0.9	1.6	1.6BJ	NEGATE 1.
	3,3'dichlorobenzidine	0.0	3.4	3.4J	CONFIRM
	gamma BHC (Lindane)	0.0	0.007	0.007	CONFIRM
	4,4' DDE	0.0	0.02	0.02	CONFIRM
GW-1	methylene chloride	0.9	1.9	1.9BJ	NEGATE 1.
	acetone	0.0	230.0	230.0	CONFIRM
	toluene	0.0	1.6	1.6J	NEGATE 4.
	ethylbenzene	0.0	190.0	190.0	CONFIRM
	total xylenes	0.0	890.0	890.0	CONFIRM
	phenol	0.0	11.0	11.0	CONFIRM
	2,4-dimethylphenol	0.0	22.0	22.0	CONFIRM
	bis(2-ethylhexyl) phthalate	9.2	49.0	49.0B	NEGATE 4.
	di-n-octylphthalate	0.0	4.1	4.1	CONFIRM

FORTNOTES

1. The value reported is less than 3 times the value in the method blank. It is the policy of the QAS to negate reported value due to probable foreign contamination unrelated unrelated to the actual sample. It is not possible to accurately quantitate below value reported in the sample, yet the end user is alerted that a reportable quantity was detected. Please note that the relative dilution of the blanks and the sample are taken into consideration when making this determination.

2. The value reported is between 3x and 5x the value in the method blank and may be due to possible foreign contamination unrelated to the actual sample. The value reported is not negated and is considered estimated as indicated by the presence of the J qualifier. Resampling is recommended.

3. The value reported is greater than 5x the method blank and is considered "real". The "B" qualifier alerts the end-user to the presence of this analyte in the method blank.

4. The value reported is less than 3x the value found in the field and/or trip blank. It is QAS policy to negate as this value is attributable to foreign contamination unrelated to the sample. Please note that the relative dilution of the blanks and the sample are taken into consideration in making this determination.

* Nontargeted compounds have not been evaluated due to time constraints

EVALUATION OF

ANALYTICAL DATA REPORT PACKAGE

FOR

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS SITE MITIGATION

CN-028

TRENTON, NEW JERSEY 08625

Case Name	Field Sample #	Laboratory Sample #	Sample Location	Time and Date of Sample Collection
ASARACO	AR918-SW1	J6-0115-008		
	-SW2	J6-0116-008		
	-SW3	J6-0117-008		
	-SW4	J6-0118-008		
	-GW1	J6-0119-008		
	-TB	J6-0120-008		
	-FB	J6-0121-009		
	-S1	J6-0122-009		
	-S2	J6-0123-009		
	-S3	J6-0124-009		
	-SED1	J6-0126-009		
	-SED2	J6-0127-009		
	-TB	J6-0128-007		

Lab Name: NANCO

Immediate User
of Data:

EVALUATION OF DELIVERABLES

Specific Comments on Analytical Deliverables Received

I. Format

Required as deliverables and must be provided:

1. Review page - Acceptable
2. Title page - Acceptable
3. Table of contents - Acceptable
4. Sample Request Form - Acceptable
5. Chain of Custody - Acceptable
6. Laboratory chronicle - Acceptable
7. Non-Conformance Summary - Acceptable
8. Methodology Review - Acceptable
9. Pagination - Acceptable.

II. Instrumentation Setup

1. Volatile Fraction

A. GC/MS Tune - Acceptable.

B. Calibration

1. Initial Standard Calibration

8/30/86

Compound	% RSD
Bromomethane	30

2. Continuing Standard Calibration

9/22/86 05:53 B1, SW-1, SW-3, SW-4, GW-1, TB-1, FB, & FBMSD

Compound	% Difference
chloromethane	43
bromomethane	37
1,1,1 trichloroethane	45
carbon tetrachloride	31
vinyl acetate	28
bromodichloromethane	36
bromochloroethane	40
bromoform	37

9/22/86 18:44 B2, S-1, S-1MS, S-1MSD, SED-2

Compound	% Difference
chloromethane	52
chloroethane	31
methylene chloride	48
carbon disulfide	32
1,1,1 trichloroethane	44
carbon tetrachloride	49
vinyl acetate	30
bromodichloromethane	36
dibromochloromethane	42
bromoform	28

9/23/86 06:05 B3, TB2 & SW-2

Compound	% Difference
chloromethane	59
bromomethane	68
chloroethane	27
carbon disulfide	30
1,1,1 trichloroethane	42
carbon tetrachloride	49
vinyl acetate	31
bromodichloromethane	35
dibromochloromethane	41
bromoform	33

9/24/86 05:47 BLANK4, SED-1, S-4, & S-2

Compound	% Difference
chloromethane	30
bromomethane	33
acetone	37
2-butanone	37
1,1,1 trichloroethane	44
carbon tetrachloride	49
vinyl acetate	41
bromodichloromethane	38
dibromochloromethane	44
bromoform	35
4-methyl-2-pentanone	43

9/26/86 09:39 BLANK5 & S-3

Compound	% Difference
chloromethane	37
carbon disulfide	30
1,1 dichloroethane	27
1,1,1 trichloroethane	41

carbon tetrachloride	48
vinyl acetate	34
bromodichloromethane	42
bromoform	41
2-hexanone	26

2. Base Neutral / Acid Extractable Fraction

A. GC/MS Tune - Acceptable.

B. Calibration

1. Initial Standard Calibration

10/28/86 - Fully acceptable (S-4)

10/08/86 (all samples but S-4)

Compound	% RSD
isophorone	41
benzoic acid	42
bis(-2-chloroethoxy)methane	52
2,4 dinitrotoluene	38
3,3' dichlor benzidine	41
benzo(k)fluoranthene	42
indeno(1,2,3 cd) pyrene	51

2. Continuing Standard Calibration

10/22/86 17:24 (SW-2)

Compound	% Difference
benzoic acid	33
1,2,4 trichlorophenol	3[illegible]
2,4,5 trichlorophenol	73
dimethyl phthalate	56
4 nitrophenol	28
2,4 dinitrotoluene	47
2,6 dinitrotoluene	58
4-chlorophenyl-phenylether	37
4 nitroaniline	61
3,3' dichlorobenzidine	72
benzo(a)anthracene	33
benzo(b)fluoranthene	37
benzo(g,h,i)perylene	45

3. Pesticide and PCB Fraction

A. Calibration

1. Initial Standard Calibration - Acceptable

2. Continuing Standard Calibration - Acceptable

B. Retention Time Windows - Acceptable

C. DBC Retention Time Shift - Acceptable

D. DDT Minumim Retention Time - Acceptable

III. Chromatagraphic and Quality Control Concerns:

1. Volatile Fraction

A. Holding Times - Acceptable

B. Surrogates - Water; Acceptable.
Soil; Acceptable.

C. Matrix Spike and Matrix Spike Duplicate

Water - Field Blank

Compound	% Recovery	RPD	QC Limits %R	QC Limits RPD
1,1 dichloroethene	-	19	-	14
trichloroethene	-	22	-	14
chlorobenzene	-	20	-	13
toluene	-	24	-	13
benzene	-	33	-	11

Soil - S-1, Acceptable.

D. Blanks
1. Method Blank

BLANK (# 1) OF 9/22/86

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	2.9

BLANK (#2) OF 9/22/86

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	1.2
acetone	7.8

BLANK (#3) OF 9/23/86

COMPOUND	CONCENTRATION (ug/l)

acetone	4.9
toluene	1.5

BLANK (#4) OF 9/24/86

COMPOUND	CONCENTRATION (ug/l)
acetone	5.7

BLANK (#5) OF 9/26/86

COMPOUND	CONCENTRATION (ug/l)
acetone	4.4
benzene	1.0
toluene	2.4

2. Trip Blank

TRIP BLANK #1

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	2.1
acetone	8.5
toluene	13.0

TRIP BLANK #2

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	0.8

3. Field Blank

COMPOUND	CONCENTRATION (ug/l)
methylene chloride	3.0
acetone	15.0

2. Base Neutral / Acid Extractable Fraction

A. Holding Times - Acceptable

B. Surrogates - Water; Acceptable
Soil; Acceptable

C. Matrix Spike and Matrix Spike Duplicate

Water

Base Neutral - SW-2

Compound	%Recovery	RPD	QC %R	Limits RPD

1,2,4 trichloro bezene	128(MSD)	38	39- 98	28
acenaphthene	131(MS)	-	46-118	-
	151(MSD)	-	46-118	-
2,4 dinitro toluene	123(MS)	-	24- 96	-
	154(MSD)	-	24- 96	-
pyrene	133(MSD)	-	26-127	-
N - nitroso -di-propylamine	140(MSD)	-	41-116	-
1,4 dichloro-benzene	113(MSD)	-	36- 97	-

Acid - SW-2

Compound	%Recovery	RPD	QC %R	Limits RPD
pentachloro phenol	123(MSD)	-	9-103	-
4- chloro - 3-methylphenol	118(MSD)	-	23-97	-
4-nitrophenol	-	75	-	50

Soil

Base Neutral - S-1

Compound	%Recovery	RPD	QC %R	Limits RPD
2,4 dinitro toluene	90(MS)	-	28- 89	-
N-nitroso-di-n-propylamine	-	39	-	38
1,4 - dichloro benzene	-	39	-	27

Acid - S-1

Compound	%Recovery	RPD	QC %R	Limits RPD
phenol	94(MS)	-	26- 90	-
	120(MSD)	-	26- 90	-
4-chloro-3 methylphenol	119(MS)	-	26-113	-
	121(MSD)	-	26-113	-

D. Blanks

1. Method Blank

BLANK (#1) OF 10/8/86 (SW-1, SW-1, SW-3, SW-2, SW-4, & TB)

COMPOUND CONCENTRATION (ug/L)

di-n-butylphthalate	4.0
bis (2-ethylhexyl) phthalate	9.2

BLANK (#2) OF 10/3/86 (S-1, S-2, S-3, S-4, SED-1, & SED-2)

COMPOUND	CONCENTRATION (ug/l)
di-n-butylphtahlate	110.0
4- hydroxy-4-methyl-2- pentanone	31000.0

2. Trip Blank - Not Applicable

3. Field Blank

COMPOUND	CONCENTRATION (ug/l)
bis (2 - ethylhexyl)phthalate	45.0
di - n - octylphthalate	10.0

3. Pesticide and PCB Fraction

A. Holding Times - Acceptable

B. Surrogates - Acceptable

C. Matrix Spike and Matrix Spike Duplicate

Water - SW-1

Compound	%Recovery	RPD	QC Limits %R	QC Limits RPD
heptachlor	35(MSD)	35	40-131	20
aldrin	130(MSD)	77	40-120	22
endrin	133(MS)	-	36-121	-

Soil - Acceptable

D. Blanks
1. Method Blank

BLANK (#1) OF 10/1/86

COMPOUND	CONCENTRATION (ug/l)
none found	

BLANK (#2) OF 10/1/86

COMPOUND	CONCENTRATION (ug/l)
endosulfan II	2.0

2. Trip Blank - Not Applicable

3. Field Blank

COMPOUND	CONCENTRATION (ug/l)
4,4' DDT	0.01

IV. Dioxin (2,3,7,8 TCDD)

Soil and waste matrix deliverables shall include September 1983 Region VII protocols as modified by NJDEP July 1984. Water and wastewater matrix deliverables shall include Method 613, July 1982, EMSL Cincinnati protocols.

EVALUATON

NOT APPLICABLE.

V. Metals and Limited Chemistry

A defined deliverables package is currently in development, however areas of detection limits and quality control are to be submitted as per the appropriate EPA publication.

EVALUATION

NOT EVALUATED.

Final Evaluation with date and signature of BEMQA auditor.

_____ acceptable

_____ acceptable, with cautions noted above

_____ missing documentation requested and not received on timely basis, data rejection until received

_____ noncompliance to criteria achievement, quality assurance rejection

_____ _____
signature date

Review- Division of Hazardous Site Management disposition of all rejected data

Comments/Remedies:

_____ _____
Quality Assurance Officer Date
or DHSM designee

cc: Project Manager and BEMQA on Data Rejection Review.

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
CN 028
Trenton, N.J. 08625
609 - 292 - 1250

ASARCO
1160 State State
Perth Amboy / Middlesex Co.

SUBJECT: Site Inspection conducted by NJDEP representatives on September 18, 1986.

PURPOSE: To assess the extent of soil and water contamination at the facility.

SITE CONDITIONS: The property is mostly abandoned, many buildings are empty or demolished. Much of the property is covered with construction debris or gravel or is paved over. Standing water in ditches appeared to contain oil or sludge.

SAMPLING: A total of thirteen samples were collected, including:

- six soil samples
- five aqueous samples
- one field blank
- one trip blank

FINDINGS: The weather was sunny and approximately 70°. Much of the standing water had evaporated since the pre-sampling assessment of September 8, 1986.

Total Hours to complete: 150

Submitted by,

David Van Eck
HSMS IV
September 19, 1986