D. 5
12/5/85

EPA Region 5 Records Ctr.
384094

INSPECTION REPORT
FOR
BILL'S EXCAVATING
LOCKPORT, IL
R05-8303-01D
ILD980704845

DECEMBER 5, 1985

Contents:

SITE INSPECTION MEMO

1

2070 - 13 FORM

2

SITE MAPS

3

SITE PHOTOGRAPHS

4

ANALYTICAL DATA

5

1

Cardinal™

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

MEMORANDUM

DATE: December 9, 1985
TO: Memo to File
FROM: Ronald Bock RKB
SUBJECT: ILLINOIS/R05-8303-01D/IL0218
LOCKPORT/BILL'S EXCAVATING
ILD980704845

Bill's Excavating is a salvage operation comprising approximately 59 acres located between Illinois Rte 71 and the Des Plaines River in southern Lockport, IL. The property was formerly a U.S. Steel Coking facility which ceased operations around 1930. The following summarizes the history of both state and federal EPA involvement with this site since 1973, culminating in FIT Site Inspections in 1984 and 1985.

- The IEPA investigated the site in 1973 in response to complaints that extensive open dumping was occurring. The wastes were reportedly primarily general refuse, with no knowledge of any hazardous waste activity. At this time, the property was owned by Iris Development Company of Chicago.

- T.P.G. Enterprises of Lockport, IL purchased the property in 1974 and proceeded to "clean-up" the property. By 1976, site conditions were much improved.

- The U.S. EPA investigated the site in 1980 in response to a tip from the Cook County Metropolitan Sanitary District that there were abandoned drums on the property. Their inspection revealed about 100 drums, some leaking a resinous, tarry substance. They also found a tar pile containing approximately 400 cubic feet of tar, some tar remaining in an old tar tank, and tar and oil residue on top of sediment tanks in the old U.S. Steel Washing and Cooling Bldg. The U.S. EPA submitted this report to IEPA in the Fall of 1980.

- Upon receipt of the U.S. EPA report, the IEPA contacted WHS Enterprises (Bill Schopf) and were informed that the drums had been removed by Mr. Schopf's trucks to American Grading Landfill in McCook, Il. The IEPA inspected the site on January 8, 1981, and found that <u>most</u> of the drums had been removed, although some remained. No mention was made of the tar wastes.

. In February, 1984, the IEPA submitted a Potential Hazardous Waste Site Preliminary Assessment requesting a medium priority for a FIT Site Inspection. This priority was assigned due to the uncertainty of the residual tar wastes remaining from the U.S. Steel Coking operations and also to determine if this area had been used for random chemical dumping, since U.S. EPA inspectors were told by an employee of Bill's Excavating that the former owners may have allowed dumping.

The original FIT Site Inspection was performed on July 31, 1984, and a follow-up inspection, including sampling, was done on July 16, 1985. The original inspection revealed an open trailer containing drums which were leaking a rubbery, solidified material on the ground. Also, the tar pile mentioned earlier was located, and it appeared that some of the tar was migrating away from the pile.

Because of HRS requirements, FIT returned for a follow-up inspection to sample the waste areas in order to determine a waste characterization. Two soil samples were taken under the open trailer containing the solidified wastes. These samples were taken at the drip-line to incorporate any material which may have leaked onto the ground. Two more soil smples were taken along the western edge of the property, approximately 50 yards east of the railroad tracks; one in a dried creek bed, the other just south in a pile of cinders and solifified tar. Also, a sample was taken from a drinking water well outside of a mobile home located on-site (See attached map - Section 3 - for corresponding sample locations and numbers).

The well water sample (Sample #'s EF906, MEF700) showed no contamination. However, the soil samples taken (Sample #'s: EF319, EF320, EF321, EF905, MEF696, MEF697, MEF698, MEF699) indicated high levels of contamination. The pollutants found included:

1. Approximately 20 different polyaromatic hydrocarbons (PAH's), including napthalene, chrysene, pyrene, dibenzofuran, etc. The levels of contamination near the creek bed/solidified tar were much higher than near the open trailer.

2. Several volatile organics, including benzene, toluene, total xylenes, etc. were found in the dried creek/solidified tar samples.

3. Various inorganics, including arsenic, cadinium, chromium, lead and mercury were found in all soil samples.

The ranges of contamination were from 20-260 mg/kg for the inorganics, to as much as 2,300,000 ug/kg for some PAH's. A complete set of detailed lab results can be found in section 5.

60N:4W

2

Cardinal

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980704845

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
BILL'S EXCAVATING	2215 LOCKPORT RD. (ILLINOIS RTE. 171)

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
LOCKPORT	IL	60441	WILL	197	12

09 COORDINATES LATITUDE	LONGITUDE
41° 34' 00". N	88° 04' 30". W

10 TYPE OF OWNERSHIP (Check one)
■ 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
07 16 85	☐ ACTIVE ■ INACTIVE	_____ / _____ (Beginning Year / Ending Year) X UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ■ B. EPA CONTRACTOR ECOLOGY AND ENVIRONMENT (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
CHRISTOPHER NOLAN	GEOLOGIST	E+E	(312) 663-9415

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
RONALD BOCK	CHEMICAL ENGINEER	E+E	(312) 663-9415
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
BILL SCHOPF, SR.	OWNER	8637 S. 77th Court Bridgeview, IL 60455	(312) 458-5748
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
■ PERMISSION ☐ WARRANT	2:00 P.M.	Sunny, 80°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
DR. DON JOSIF	U.S. EPA REGION V	(312) 886-0393

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE (Month Day Year)
RONALD BOCK	—	USEPA/FIT	(312) 663-9415	12 16 85

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980704845

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____
CUBIC YARDS 15 (est.)
NO. OF DRUMS 100 (est.)

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	} 400	cubic ft.	This is an estimate of the quantity in the tar pile.
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	100	55-gal drums	This is an estimate of the resin and unknowns in the barrels on the trailer.
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unk		

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

The water samples taken from the well located on-site showed no contamination. However, the soil samples taken near the hardened tar/dry creek area and near the abandoned trailer (with leaking drums) showed extensive levels of contamination. The contamination included the following:

1. Approximately 20 different polyaromatic hydrocarbons (PAH's), including napthalene, chrysene, anthracene, pyrene and dibenzofuran, etc. were found in both areas. The levels near the abandoned trailer ranged from approximately 500 - 3500 ug/kg, while the levels near the hardened tar area were extensively greater, with levels up to 2,300,000 ug/kg.
2. Several volatile organics, including benzene, toluene, ethylbenzene and total xylenes were detected in samples from the hardened tar area. Levels of contamination were as high as 5000 ug/kg.
3. Inorganics were found in samples from both areas. These inorganics included arsenic, cadmium, chromium, copper, lead and mercury. Levels of contamination ranged from 20 - 260 mg/kg.

A complete set of detailed lab results can be found in Section 5.

V. FEEDSTOCKS (See Appendix for CAS Numbers) NOT APPLICABLE

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)

On-site Inspections 7/31/84 and 7/16/85
Inorganic and Organic Laboratory Results

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980704845

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 92,000 — 04 NARRATIVE DESCRIPTION
If the tar or some of its components leached into the shallow or deep aquifers, it could contaminate the ground water.

01 ■ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: 7/31/84) ☐ POTENTIAL ■ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 80,000 — 04 NARRATIVE DESCRIPTION
There are three shallow ponds and one quarry which can be described as surface water. The quarry and 2 ponds appeared normal, but the other pond was dried, blackish and dead-looking. The exposed sediments appear that they may have run-off from some of the tar piles.

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

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

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 5000 — 04 NARRATIVE DESCRIPTION
In some areas of the site there were empty cans and beer bottles (near the old quarry), suggesting people trespass property. Therefore people could come in contact with contaminated soils.

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 7/31/84) ☐ POTENTIAL ■ ALLEGED
03 AREA POTENTIALLY AFFECTED (Acres): <3 — 04 NARRATIVE DESCRIPTION
In the northern area of the site there is an area where tar was placed (disposed). Most of it is solidified, but hot temperatures can cause it to liquify and come up through fill which has been placed over it.

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 92,000 — 04 NARRATIVE DESCRIPTION
See Section A.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
None Reported

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 5000 — 04 NARRATIVE DESCRIPTION
See Section E.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980704845

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: 7/16/85) — ☐ POTENTIAL — ■ ALLEGED
04 NARRATIVE DESCRIPTION
Area directly under barrels/trailer has been affected by resins which have spilled. However, this is a very small area (~ 1-2 sq. yds).

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*
None Reported or Observed.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None Reported or Observed.

01 ■ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/Runoff/Standing liquids, Leaking drums)* — 02 ☐ OBSERVED (DATE: 7/31/84) — ☐ POTENTIAL — ■ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10 — 04 NARRATIVE DESCRIPTION
The barrels were not effectively sealed, resulting into spillage on ground underneath trailer. Also, tar pile migiates when the sun heats it.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None Reported or Observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None Reported

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ■ ALLEGED
04 NARRATIVE DESCRIPTION
An employee of Bill Schopf reportedly said that the former owner may have dumped chemicals on site.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
None

III. TOTAL POPULATION POTENTIALLY AFFECTED: 92,000

IV. COMMENTS
None

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*
On-site Inspections: 7/31/84 and 7/16/85.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980704845

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				This site does not presently accept or generate any hazardous wastes.
☐ D RCRA				
☐ E RCRA INTERIM STATUS				
☐ F SPCC PLAN				
☐ G STATE (Specify)				
☐ H LOCAL (Specify)				
☐ I OTHER (Specify)				
■ J NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
■ B. PILES	400	cu. ft.
■ C. DRUMS, ABOVE GROUND	100	55 gal drums
☐ D. TANK, ABOVE GROUND		
☐ 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
- ■ A. BUILDINGS ON SITE

10-12 (Many in ruins)

06 AREA OF SITE: 5.7 (Acres)

07 COMMENTS
Site does not generate or accept any hazardous wastes.

IV. CONTAINMENT

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

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC
The drums in the trailer are overturned, some are missing lids, and some rubbery, resinous substance is slowly seeping out.
The tar piles have no retaining walls or liner to control migration.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ■ YES ☐ NO

02 COMMENTS
Inspection revealed broken beer bottles, beer cans and motorcycle tracks, all indicating that accessibility is not difficult and does occur.

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

On-Site Inspections: 7/31/84 + 7/16/85

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980704845

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS: ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ■	A. ☐	B. ☐	C. ■	A. 2.0 (mi)
NON-COMMUNITY	C. ☐	D. ■	D. ☐	E. ☐	F. ☐	B. 0.1 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

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

02 POPULATION SERVED BY GROUND WATER 92,000

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.1 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
~8.0 (ft)	WSW	1550 (ft)	10,800,000 (gpd)	☐ YES ■ NO

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

The city of Joliet has both shallow (~100') and deep wells (1556-1701'), and blends the water together in the distribution network.

Lockport gets its water from deep wells (1500'+) finished in dolomite.

10 RECHARGE AREA		11 DISCHARGE AREA	
■ YES ☐ NO	COMMENTS: Rain/Precip will recharge the shallow aquifer	☐ YES ■ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

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

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Illinois and Michigan Canal	☐	0.1 (mi)
Chicago Sanitary and Ship Canal	☐	0.1 (mi)
Des Plaines River	☐	0.3 (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. 5000 NO. OF PERSONS	B. 45000 NO. OF PERSONS	C. 80,000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~11,840

04 DISTANCE TO NEAREST OFF-SITE BUILDING 0.3 (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)

On-site there is a trailer home which gets its water from an on-site well. Mostly this area is industrial; there are numerous railroad tracks, the canals, etc. There are not many homes near the site.

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	ILD980704845

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
4-12 (ft)	unk (ft)	unk

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
2.0 (in)	2.5 (in)	3-8 %	Variable	5 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. N/A (mi) OTHER: B. N/A (mi)

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

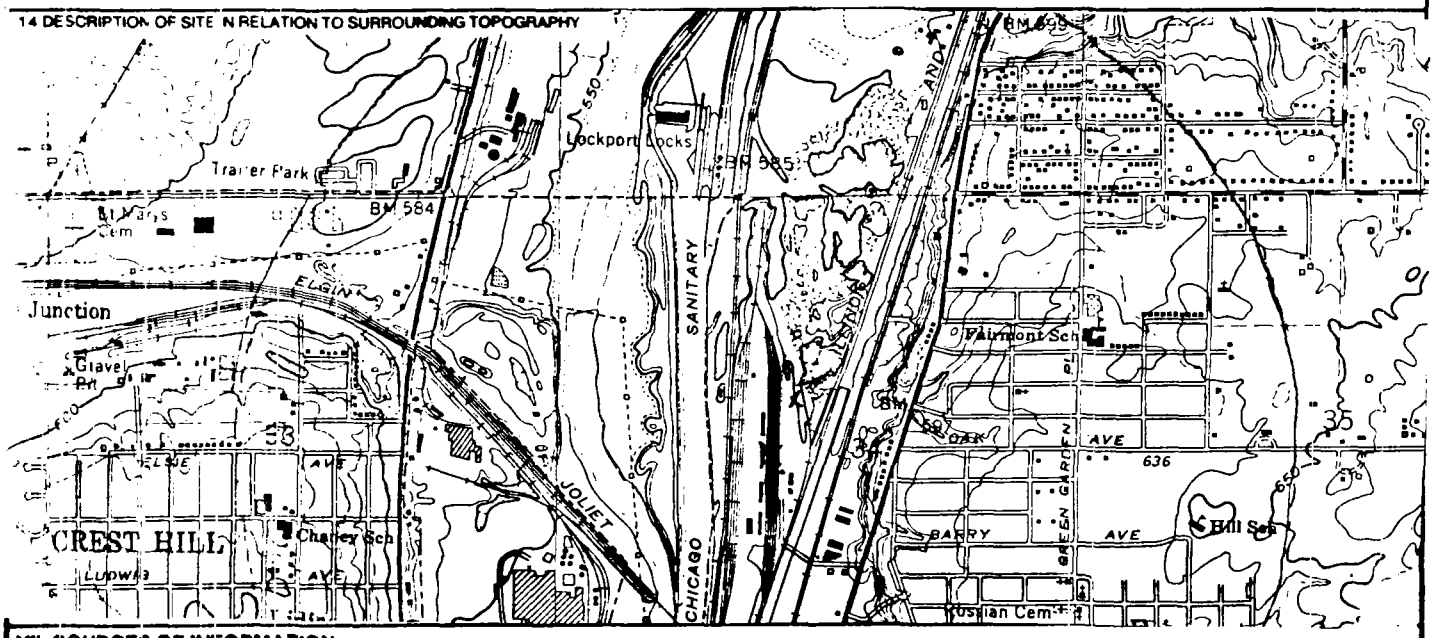
ENDANGERED SPECIES: NONE

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. 0.2 (mi)	B. 0.1 (mi)	C. — (mi)	D. 2.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



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

Climatic Atlas of the U.S - U.S. Dep't of Commerce
U.S.G.S Topographic Map
Dames + Moore: Hydrogeologic Report Investigation - Lockport, IL Refinery for Texaco USA
Phone Conversation with Richard Clark, Staff Engineer for Water Dep't. Joliet, IL 8/31/84.
IEPA. "Groundwater Withdrawls from Aquifers in Illinois", 1981.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980704845

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	Organics : Gulf South Research Institute	10/30/85
SURFACE WATER		Inorganics : JTC	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	Same labs as above	10/30/85
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN NONE

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS NONE

01 TYPE ☐ GROUND ☐ AERIAL

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

03 MAPS ☐ YES ☐ NO

04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

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

On-site Inspection, 7/16/85

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
IL	ILD980704845

II. CURRENT OWNER(S) / **PARENT COMPANY** (If applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
WHS Enterprises BILL SCHOPF, SR.		N/A.	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
8637 S. 77th Court			
05 CITY / **06 STATE**	**07 ZIP CODE**	**12 CITY** / **13 STATE**	**14 ZIP CODE**
Bridgeview / IL	60455		
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
05 CITY / **06 STATE**	**07 ZIP CODE**	**12 CITY** / **13 STATE**	**14 ZIP CODE**
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
05 CITY / **06 STATE**	**07 ZIP CODE**	**12 CITY** / **13 STATE**	**14 ZIP CODE**
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**11 SIC CODE**
05 CITY / **06 STATE**	**07 ZIP CODE**	**12 CITY** / **13 STATE**	**14 ZIP CODE**

III. PREVIOUS OWNER(S) (List most recent first) / **IV. REALTY OWNER(S)** (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
TPG ENTERPRISES			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**04 SIC CODE**
532 E 169th St.			
05 CITY / **06 STATE**	**07 ZIP CODE**	**05 CITY** / **06 STATE**	**07 ZIP CODE**
South Holland / IL	60473		
01 NAME	**02 D+B NUMBER**	**01 NAME**	**02 D+B NUMBER**
IRIS DEVELOPMENT CO.			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**04 SIC CODE**
111 E. WACKER DR.			
05 CITY / **06 STATE**	**07 ZIP CODE**	**05 CITY** / **06 STATE**	**07 ZIP CODE**
CHICAGO / IL	60606		
01 NAME	**02 D+B NUMBER**	**01 NAME**	**02 D+B NUMBER**
U.S. STEEL CO.			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**03 STREET ADDRESS** (P.O. Box, RFD #, etc.)	**04 SIC CODE**
05 CITY / **06 STATE**	**07 ZIP CODE**	**05 CITY** / **06 STATE**	**07 ZIP CODE**

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

IEPA Files - Preliminary Assessment
On-site Inspections : 7/31/84 + 7/16/85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980704845

II. CURRENT OPERATOR (Provide if different from owner)			OPERATOR'S PARENT COMPANY (If applicable)		
01 NAME SAME AS CURRENT OWNER		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)		
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

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

On site Inspection / Interview with Bill Schopf, SR. 7/31/84.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980704845

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
N/A	
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
N/A			
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
N/A			
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)

U.S. EPA FILES
IEPA FILES - PRELIMINARY ASSESSMENT
On-site Inspection, 7/31/84.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980704845

II. PAST RESPONSE ACTIVITIES

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

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

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

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

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

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

01 ■ G. WASTE DISPOSED ELSEWHERE — 02 DATE 10/8/80 — 03 AGENCY OWNER
04 DESCRIPTION FILE REPORTED THAT THE BARRELS CONTAINING RESINS WERE REMOVED TO AMERICAN GRADING LANDFILL. HOWEVER, ACCORDING TO BILL SCHOFF, BARRELS WERE NEVER REMOVED. SI on 7/31/84 + 7/16/85 CONFIRMED THAT BARRELS ARE STORED IN A TRAILER ON-SITE.

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

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

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

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

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

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

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

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

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	ILD980704845

II PAST RESPONSE ACTIVITIES *(Continued)*

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

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

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

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

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

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

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

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

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

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE 1982 — 03 AGENCY OWNER
04 DESCRIPTION A GATE WAS PUT ON THE ROAD WHICH BORDERS THE I + M CANAL FROM THE NORTH ONTO SITE.

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

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION NONE

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

On-site Inspection. 7/31/84

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	0980704845

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

CONTRARY TO THE FILES, THE DRUMS IN QUESTION WERE NOT REMOVED TO AMERICAN GRADING LANDFILL. THEY ARE SITTING IN AN OPEN-TOPPED TRAILER ON SITE. BILL SCHOPF, THE OWNER, STATED HE HAD THOUGHT THAT THEY WERE TRUCKED AWAY. BUT IT WAS DIFFERENT MATERIAL, NOT DRUMS, WHICH WAS REMOVED. SO THERE WAS NO ILLEGAL DISPOSAL OF THE DRUMS. THE PROBLEM NOW IS WHAT IS TO BE DONE TO REMOVE THE BARRELS.

THE MATERIAL IN THE DRUMS IS SEEPING OUT OF THE TRAILER, BUT IT IS A RUBBERY SUBSTANCE AND APPEARS TO NOT BE MIGRATING OR SEEPING INTO THE SOIL BELOW THE TRAILER.

ON OUR INSPECTION, WHICH WAS A FAIRLY THOROUGH TOUR OF THE SITE, WE SAW NO SIGNS OF ILLEGAL DUMPING OF HAZARDOUS MATERIALS. EXCEPTING THE BARRELS, IT SEEMS THAT THE WASTES ONSITE WHICH COULD BE CLASSIFIED AS HAZARDOUS WOULD BE THE TAR LEFT OVER FROM THE U.S. STEEL OPERATION. THERE IS ONE PILE IN WHAT SEEMS TO BE AN OLD TANK WHICH WHEN IT HEATS UP FROM THE SUN, SLOWLY MIGRATES TO ADJOINING GROUND NEARBY. BILL SCHOPF ALSO SHOWED US AN AREA IN THE NORTHERN SECTION OF THE SITE WHERE TAR-LIKE FLUIDS WERE EMINATING FROM THE GROUND. THE REMAINING TAR WE SAW WAS IN 3 SHALLOW TANKS IN THE BASEMENT OF THE OLD WASHING AND COOLING BUILDING. THERE WAS AN OIL SHEEN ON THE SURFACE.

DUE TO THE NATURE OF THE TERRAIN ON SITE, I DON'T FEEL THAT THERE IS MUCH CHANCE FOR THE TAR RESIDUES TO LEAVE SITE, OR AFFECT THE SURFACE WATER. DEPENDING ON WHAT INTERACTIONS THESE SUBSTANCES HAVE WITH THE GROUNDWATER, ~~THIS~~ GROUNDWATER CONTAMINATION COULD BE A PROBLEM IN FUTURE YEARS.

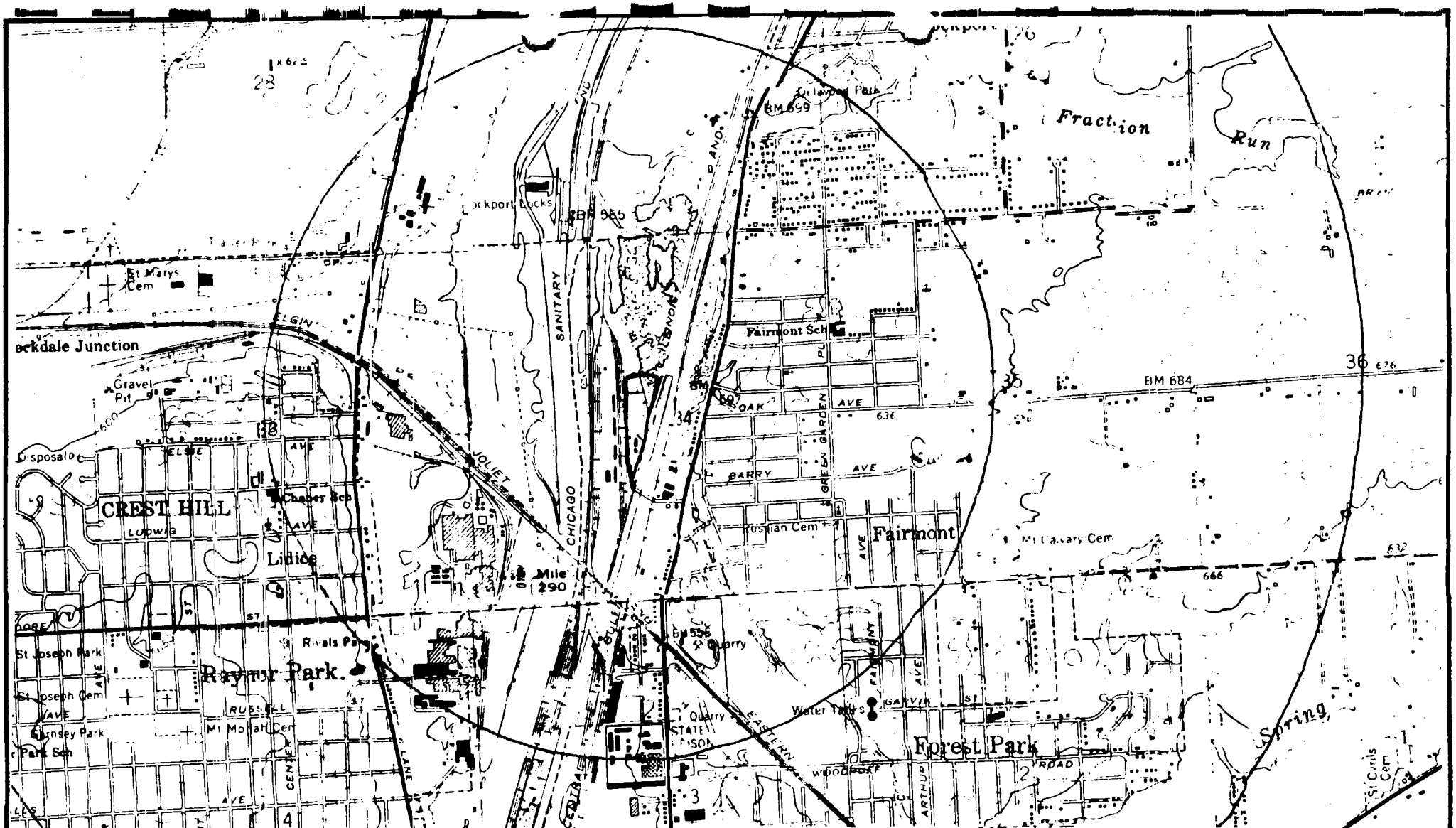
Stephen J. Nolan 8/3/84

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

SITE INSPECTION VISIT 7/31/84
USEPA, ILLINOIS STATE EPA FILES - PRELIMINARY ASSESMENT FORM

3

Cardinal™



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

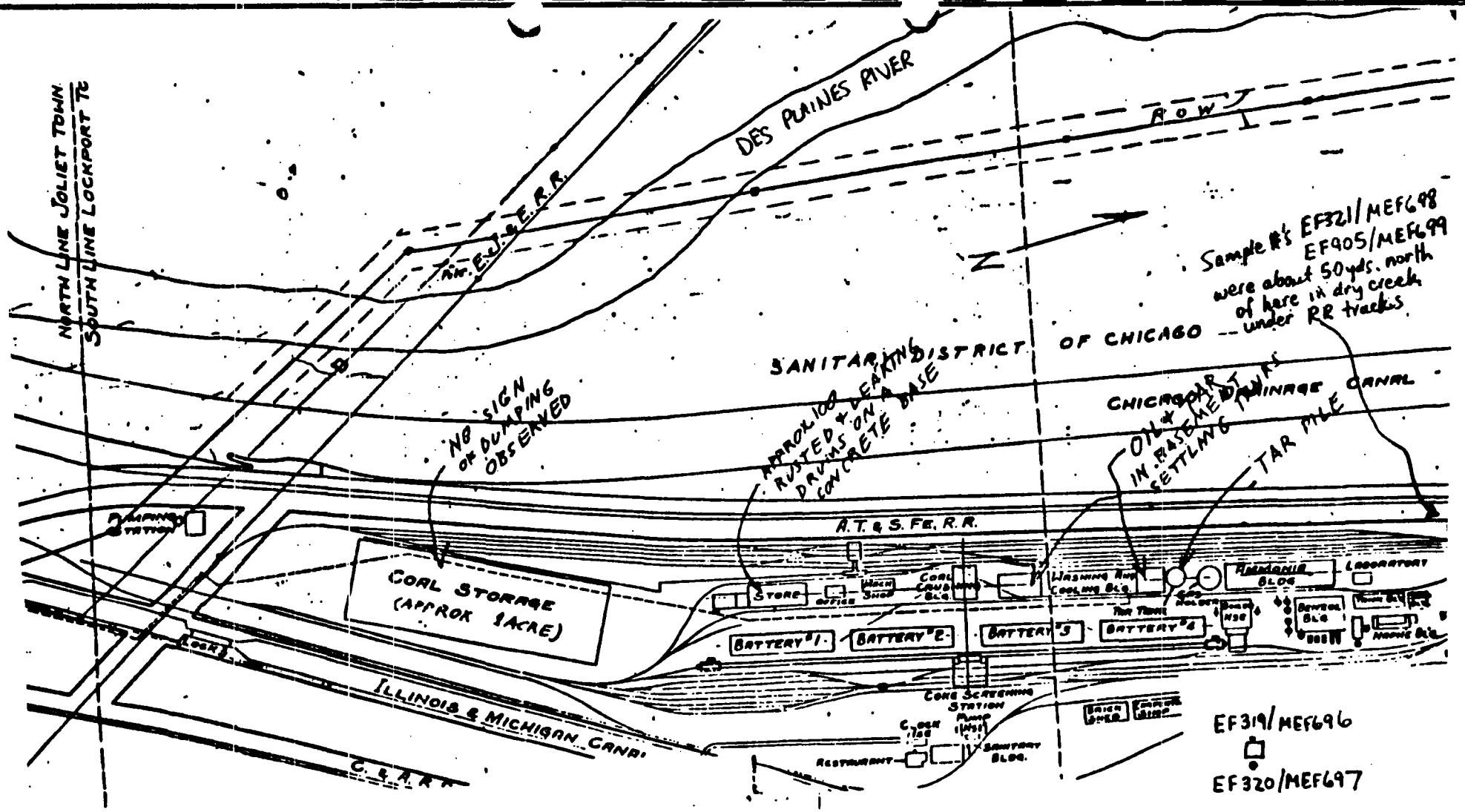
SCALE: 1: 24000		DRAWN BY USGS
DATE: 1973 (P.R.)		REVISED N/A

BILL'S EXCAVATING R05-8303-01D

JOLIET and PLAINFIELD, IL QUADRANGLES

DRAWING NUMBER

8½ X 11 PRINTED ON NO. 1000H-8 CLEARPRINT FADE-OUT



U S. STEEL BLUEPRINT OF FACILITY/AREA. PRODUCTION CEASED ABOUT 1930, AND REMAINS ARE IN RUINS.

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

SCALE: NONE		DRAWN BY unknown
DATE: unknown		REVISED N/A
BILL'S EXCAVATING R05-8303-01D		
		DRAWING NUMBER

4

Cardinal

FIELD PHOTOGRAPHY LOG SHEET

Page 1

DATE 7/31/84

TIME 2:30 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

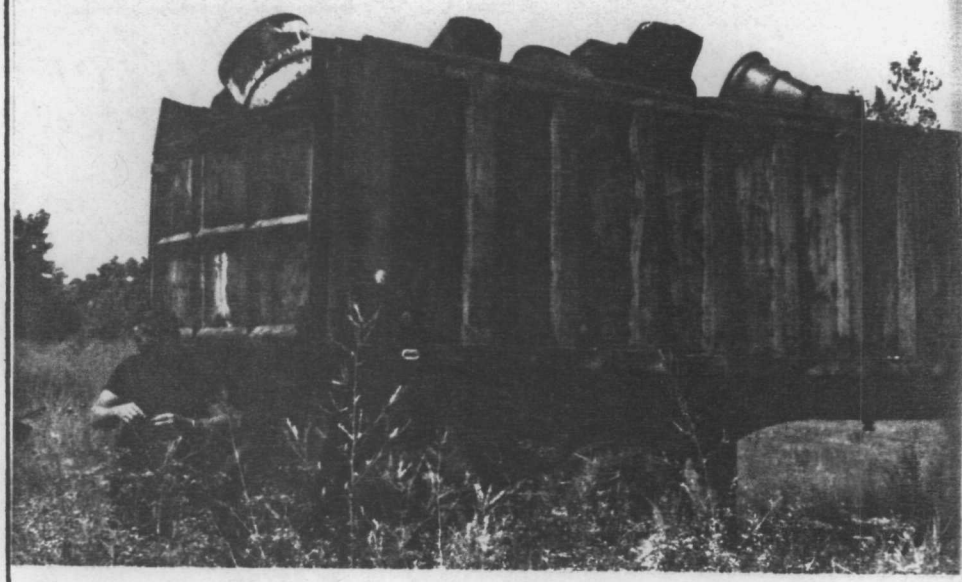
WEATHER SUNNY ~85°

SITE BILL'S EXCAVATING

TDD# ROS 8303-1D

PHOTOGRAPHED BY:
C. NOLAN

SAMPLE ID# (if applicable)



DESCRIPTION: BILL SCHOPF AND BARRELS SITTING IN OPEN TRAILER

DATE 7/31/84

TIME 2:30 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

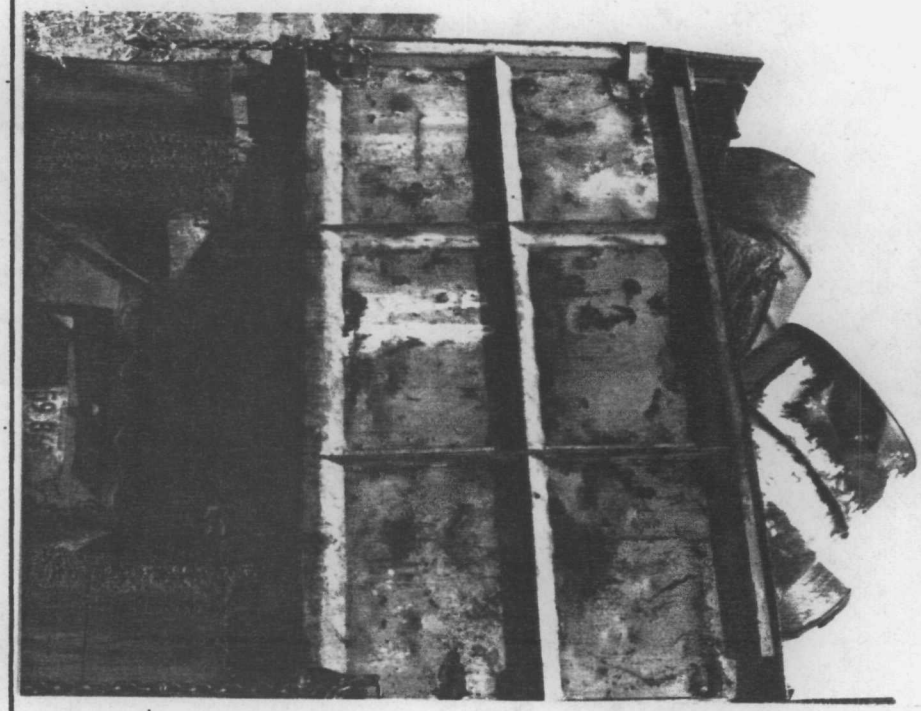
WEATHER SUNNY ~85°

SITE BILLS EXCAVATING

TDD# ROS 8303-1D

PHOTOGRAPHED BY:
C. NOLAN

SAMPLE ID# (if applicable)



DESCRIPTION: RUBBERY WASTE FROM BARRELS WHICH HAVE SOLIDIFIED ON THE OUTSIDE OF THE TRUCK

FIELD PHOTOGRAPHY LOG SHEET

DATE 7/31/84

TIME 2:15 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

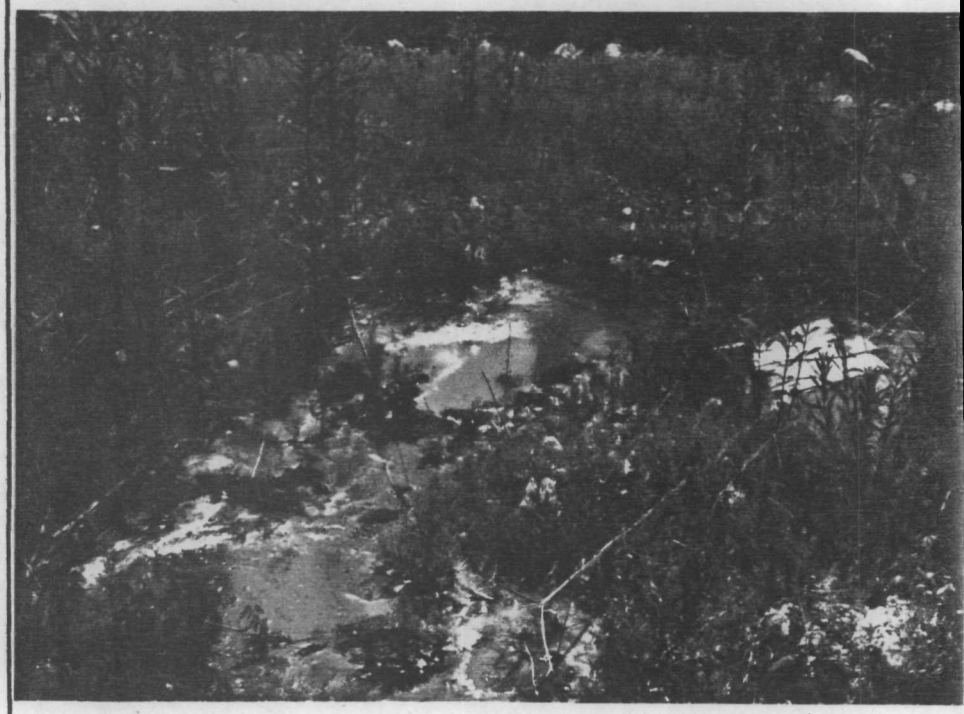
WEATHER SUNNY ~85°

SITE BILLS EXCAVATING

TDD# ROS 8303-1D

PHOTOGRAPHED BY:
C. NOLAN

SAMPLE ID# (if applicable)



DESCRIPTION: SOME LIQUIDY 'TAR' NEAR SIDE OF AREA IN PICTURE BELOW WHICH IS MIGRATING AWAY FROM PILE.

DATE 7/31/84

TIME 215 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER SUNNY ~85°F

SITE BILLS EXCAVATING

TDD# ROS 8303-1D

PHOTOGRAPHED BY:
C. NOLAN

SAMPLE ID# (if applicable)

DESCRIPTION: A TAR PILE AT THE NORTHERN SECTION OF THE SITE

FIELD PHOTOGRAPHY LOG SHEET

DATE 7/31/84

TIME 2:10 A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER SUNNY ~85°

SITE BILL'S EXCAVATING

TDD# ROS 8303-1D

PHOTOGRAPHED BY:
C. WOLAN

SAMPLE ID# (if applicable)

DESCRIPTION: LIQUIDY TAR WHICH IS BUBBLING UP FROM UNDERNEATH THE NEW FILL

DATE

TIME A.M. P.M.

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER

SITE

TDD#

PHOTOGRAPHED BY:

SAMPLE ID# (if applicable)

PHOTO

DESCRIPTION:

Cardinal

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

Date Received for Review: 10/8/85 Date Review Completed: 10/11/85

To: Dave Cusack (NOLAN)

From: Arlene Pratl

Subject: Bill's Excavating R05-8303-01D

Sample Description: Case # 4654 4 low soil and 2 low water inorganic metals

Project Data Status: complete

FIT Data Review Findings:

See attached CRL review.
Sb 4.4g detected in field blank

Additional Comments:

Book No. 4
Page No. 290

35X:3M

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 10-2-85

M. T. Review of Region V CLP Data
Received for Review on 8/20/85

R. M. Curtis Ross, Director (5SCRL)
Central Regional Laboratory Jay Thurston

D. Data User: Fit

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

SITE NAME: Bills Excavating SMO Case No. 4654

EPA Data Set No. SF 2511 No. of Samples: 6 D.U./Activity Numbers M051 C48500

CRL No. 85FN10587 - 85FN10R15

SMO Traffic No. MEF696-700 ; MEF002

CLP Laboratory: JTC Hrs. Required for Review: 5

Following are our findings. This Review covers 4 lowsoil and 2 low water samples.

(1) Holding time for Mercury exceeded by 2 days. (30 days After sampling
Sample spike Recovery was 70% and Not 75% As Reported.
(2) Spike Recoveries for Antimony (139%), Selenium (169%), Silver (146%)
are biased High for water samples while spike Recovery for Thallium
(21%) was biased Low. Thallium Data are unusable.
(3) Spike Recoveries for Mercury (70%) Zn (126%) and Tin (132%) were
out of control for soil samples and can be estimated.
(4) % Solids for MEF699 was Reported 59.58% which was Recalculated to 58.56%.
(5) Lab has Run end of Run calibration verification but has not Reported
on Form II.
(6) LAB is trying to get all the QC Requirement in the limits by tricks & tricks
using Duplicate sample values to calculate spike Recovery, Doping (0.6) to
bring spike Recovery 125% (instead of 126), using single solution of Sodium
for cont. cal. to get good Recovery - All these are not good Lab Practice.

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

Jay Thurston
10-2-85

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

RECEIVED OCT 8 1985

FORM 1332-4 (11/79)

ESD/Central Regional Laboratory

DATA TRACKING - FORM I

1. Data Set No. SF 2511 ERRIS No. _____

2. Case No. 4654 Site Name: Bills Excavating

3. Name of Laboratory: JTC Data User: Sit

4. No. of Samples: 6 Date Samples Received: 8/19/85

5. Have chain-of-custody records been received? YES ✓ NO ___

6. Have Traffic reports been received? YES ✓ NO ___

7. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___

8. If no, which Traffic report numbers are missing?

9. Are basic data forms in? YES ✓ NO ___

10. Number of samples claimed: 6 Number of samples received: 6

11. Checked by: Nidia Feliciano Date: 8/20/85

12. Received by Contract Project Management Section: JR Date: 8.20.85

13. Review Started: 8-22-85 Reviewer Signature: Dorothy M. May

14. Total time spent on review: 6 + 6 Date review completed: 10/2/85 JR

15. Copied (xeroxed) by: _____ Date: _____

16. Mailed to Data User by: Nidia Feliciano Date: 10/1/85

DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, SSCRL

13. Data received by: Arlene Rose Date: 10/10/85

14. Q.A. review received by: Arlene Rose Date: 10/10/85

15. Received by CRL - CPM Section for file by: _____

Date: _____

RECEIVED OCT 8 1985

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

Date 8/16/85

COVER PAGE
INORGANIC ANALYSES DATA PACKAGE

Lab Name JTC Environmental Consultants Case No. 4654

SOW No. 784 Q.C. Report No. 210

Sample Numbers

EPA No.	Lab ID No.	EPA No.	Lab ID No.
119-002	73-2107		
696	-2108		
697	-2109		
698	-2110		
699	-2111		
700	-2112		

Comments:

ICP Interelement and background corrections applied? Yes ✓ No ____.

If yes, corrections applied before ✓ or after ____ generation of raw data.

Footnotes:

RECEIVED OCT 8 1985

NR - not required by contract at this time

Form I:

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (i.e., [10]). Indicate the analytical method used with P (for ICP), A (Flame AA), or F (Furnace AA)

U - Indicates element was analyzed for but not detected. Report with the instrument detection limit value (e.g., 10U).

E - Indicates a value estimated or not reported due to the presence of interference. Explanatory note included on cover page.

. - Indicates value determined by Method of Standard Addition.

R - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less than 0.995

Form I A

85FN10R15

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

EPA Sample No. MEF002

Date 8/16/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 4654

SOW NO. 784

LAB SAMPLE ID. NO. 73-2107 QC REPORT NO. 210

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ✓ Soil ____ Sludge ____ Other ____

field blank

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	180U	P	13.	Magnesium	1160U	P
2.	Antimony	47 [58] R	P	14.	Manganese	11U	P
3.	Arsenic	6.0U	F	15.	Mercury	[.15]	Cold.V.
4.	Barium	48U	P	16.	Nickel	24U	P
5.	Beryllium	3.9U	P	17.	Potassium	1040U	P
6.	Cadmium	3.6U	P	18.	Selenium	3.8U	F
7.	Calcium	987U	P	19.	Silver	5.7UR	P
8.	Chromium	7.8U	P	20.	Sodium	3080U	P
9.	Cobalt	8.3U	P	21.	Thallium	2.0UR	F
10.	Copper	20U	P	22.	Tin	28U	P
11.	Iron	46U	P	23.	Vanadium	25U	P
12.	Lead	2.0U	F	24.	Zinc	14U	P

Cyanide N.R. Auto An Percent Solids (%) NR

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

RECEIVED OCT 8 1985

Comments:

Lab Manager E. [illegible]

Form 1 B

85FN10587

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

EPA Sample No. MEF 696

Date 8/16/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 4654

SOW NO. 784

LAB SAMPLE ID. NO. 73-2108 QC REPORT NO. 210

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	22600	P	13.	Magnesium	26200	P
2.	Antimony	26U	P	14.	Manganese	1830 ?	P
3.	Arsenic	40	F	15.	Mercury	5.4	Cold.V.
4.	Barium	296	P	16.	Nickel	13U	P
5.	Beryllium	2.1U	P	17.	Potassium	895	P
6.	Cadmium	2.0U	P	18.	Selenium	3.2	F
7.	Calcium	~~106320~~ 106000	P	19.	Silver	3.1U	P
8.	Chromium	10	P	20.	Sodium	1670U	P
9.	Cobalt	~~4~~ 6	P	21.	Thallium	1.1U	F
10.	Copper	86	P	22.	Tin	15U R	P
11.	Iron	33800	P	23.	Vanadium	15	P
12.	Lead	70	F	24.	Zinc	162 ?	P

Cyanide N.R. Auto An Percent Solids (%) 92.14

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

Comments:

RECEIVED OCT 8 1985

Lab Manager E. D

Form I C

85FN10588

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

EPA Sample No. MEF 697

Date 8/16/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 4654

SOW NO. 784

LAB SAMPLE ID. NO. 73-2109 QC REPORT NO. 210

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	18300	P	13.	Magnesium	21000	P
2.	Antimony	26U	P	14.	Manganese	1870	P
3.	Arsenic	20	F	15.	Mercury	4.4	Cold.V.
4.	Barium	314	P	16.	Nickel	[18]	P
5.	Beryllium	2.2U	P	17.	Potassium	[632]	P
6.	Cadmium	3	P	18.	Selenium	2.1U	F
7.	Calcium	85200	P	19.	Silver	3.1U	P
8.	Chromium	20	P	20.	Sodium	1690U	P
9.	Cobalt	[25]	P	21.	Thallium	1.0U	F
10.	Copper	82	P	22.	Tin	[21] R	P
11.	Iron	57900	P	23.	Vanadium	[17]	P
12.	Lead	262	P	24.	Zinc	409	P

Cyanide N.R. Auto An Percent Solids (%) 90.98

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

Comments: RECEIVED OCT 8 1985

Lab Manager E.D.

Form I D

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

85FN10589
EPA Sample No. MEF 698

Date 8/16/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 4654

SOW NO. 784

LAB SAMPLE ID. NO. 73-2110 QC REPORT NO. 21D

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	420	P	13.	Magnesium	682U	P
2.	Antimony	28U	P	14.	Manganese	[7]	P
3.	Arsenic	18	F	15.	Mercury	2.1	Cold.V.
4.	Barium	[6.4]	P	16.	Nickel	14U	P
5.	Beryllium	2.4U	P	17.	Potassium	612U	P
6.	Cadmium	2.1U	P	18.	Selenium	10	F
7.	Calcium	580U	P	19.	Silver	3.4U	P
8.	Chromium	6	P	20.	Sodium	1810U	P
	Cobalt	4.9U	P	21.	Thallium	[4.3]	F
10.	Copper	[14] 16	P	22.	Tin	164UR	P
11.	Iron	2170	P	23.	Vanadium	15U	P
12.	Lead	127	P	24.	Zinc	46	P

Cyanide N.R. Auto An Percent Solids (%) 85.04

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

Comments:

RECEIVED OCT 8 1985

Lab Manager E. D

Form I E

85FN10590

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

EPA Sample No. MEF 699

Date 8/16/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 4654

SOW NO. 784

LAB SAMPLE ID. NO. 73-2111 QC REPORT NO. 210

Elements Identified and Measured

Concentration: Low ✓ Medium ____

Matrix: Water ____ Soil ✓ Sludge ____ Other ____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	3370	P	13.	Magnesium	[3520]	P
2.	Antimony	39U	P	14.	Manganese	16	P
3.	Arsenic	~~23~~ 9.8	F	15.	Mercury	.46	Cold.V.
4.	Barium	233	P	16.	Nickel	20U	P
5.	Beryllium	3.3U	P	17.	Potassium	873U	P
6.	Cadmium	3.0U	P	18.	Selenium	5.0	F
7.	Calcium	54800	P	19.	Silver	4.8U	P
8.	Chromium	[8]	P	20.	Sodium	7450	P
9.	Cobalt	7.0U	P	21.	Thallium	1.6U	F
10.	Copper	[17]	P	22.	Tin	23UR	P
11.	Iron	8970	P	23.	Vanadium	21U	P
12.	Lead	24U	F	24.	Zinc	12U	P

Cyanide N.R. Auto An Percent Solids (%) 59.58

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

Comments:

RECEIVED OCT 8 1985

Lab Manager E. D

Form 1 F

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

85FN10591
EPA Sample No.
MEF 700

Date 8/16/85

INORGANIC ANALYSIS DATA SHEET

LAB NAME JTC Environmental Cnslts. CASE NO. 4654

SOW NO. 784

LAB SAMPLE ID. NO. 73-2112 QC REPORT NO. 210

Elements Identified and Measured

Concentration: Low ✓ Medium _____

Matrix: Water ✓ Soil _____ Sludge _____ Other _____

ug/L or mg/kg dry weight (Circle One)

1.	Aluminum	180U	P	13.	Magnesium	70400	P
2.	Antimony	47U R	P	14.	Manganese	84	P
3.	Arsenic	6.0U	F	15.	Mercury	.20U	Cold.V.
4.	Barium	[66]	P	16.	Nickel	24U	P
5.	Beryllium	3.9U	P	17.	Potassium	[3650]	P
6.	Cadmium	3.6U	P	18.	Selenium	25U	F
7.	Calcium	156000	P	19.	Silver	5.7U R	P
8.	Chromium	7.8U	P	20.	Sodium	23500	P
9.	Cobalt	8.3U	P	21.	Thallium	20UR*	F
10.	Copper	20U	P	22.	Tin	28U	P
11.	Iron	1950	P	23.	Vanadium	25U	P
12.	Lead	2.0U	F	24.	Zinc	315	P

Cyanide N.R. Auto An Percent Solids (%) NR

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

Comments: detection limit for Hg .20U instead of .04U
only 65 ml of sample used
inadequate amt of sample sent

Lab Manager E. [illegible]

RECEIVED OCT 8 1985

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

Date Received for Review: 9/30/85 Date Review Completed: 10/3/85

To: Dave Curnock

From: Arlene Pratl /SF

Subject: Bill's Excavating R5-8303-1D

Sample Description: Case # 4654 four soil samples and two leach water samples

Project Data Status: complete

FIT Data Review Findings:

See attached CRL review.

Additional Comments:

Book No. 4
Page No. 2-1C

35X:3M

recycled paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 9/26/85

SUBJ: Review of Region V CLP Data
Received for Review on 8/9/85

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

TO: Data User: Ref

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

SITE NAME: Bell Excavating SMO Case No. 4654

EPA Data Set No. 5F 2511 No. of Samples: 6 D.U./Activity Numbers Y905 / C48500

ARL No. 85FN10587 - 85FN10R15

SMO Traffic No. EF319-321 ; EF905-907

CLP Laboratory: GSRI Hrs. Required for Review: 7

Following are our findings.

This review covers four soil samples and two water samples. The VOA data for samples EF905, EF905MS and EF905MSD is estimated due to exceeded holding times (eight days late). The VOA analyses of samples EF906 and EF907 were one day late. The SV analysis of sample EF906 was repeated because 2 surrogate recoveries were outside of Q.C. limits in the initial analysis. The initial analysis had no positive SV hits, and the re-analysis (extraction exceeded holding time by 7 days) also revealed no hits. The pesticide/PCBs data for samples EF319, EF319MS, EF319MSD, and EF320 are unusable due to a RT shift (for DBC) of greater than 2%. The surrogate recoveries of DBC in 4/5 soil samples were high. In the water samples, 5 of the DBC recoveries was high. Water sample EF906MS/MSD had 3/5 of the VOA RPDs and 2/10 of the VOA %Rs outside of Q.C. limits.

( ) Data are acceptable for use.
(X) Data are acceptable for use with qualifications noted above.
( ) Data are preliminary - pending verification by Contractor Laboratory.
(X) Data are unacceptable. For pesticides/PCBs data - samples EF319, EF319MS, EFMSD, EF320

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

— Continued on 'Data Qualifiers' sheet —

RECEIVED SEP 30 1985

DATA QUALIFIERS

- Continued from Data Review cover sheet -

Contractor: GSRI

Case ~~4546~~ JFP 4654

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

Soil sample EF319 MS/MSD (low level method) had 1/5 of the VOA RPDs, 1/5 of the pesticides RPDs and 2/12 of the pesticides %Rs outside of Q.C. limits. Soil sample EF905 (MS/MSD (medium level) had 2/5 of the VOA RPDs and 2/10 of the %Rs (VOA) outside of Q.C. limits. One SPCC, bromoform, had a low response factor throughout the analyses from 7/22/85 through 7/26/85; several other VOA compounds had low RFs. Those compounds with low RFs (< 0.05) have been flagged with an 'R' indicating that the data for those compounds is unusable. Compounds with high %RSDs or high %Ds in response factors have been flagged with a 'J', indicating 'estimated values'. One SV SPCC, hexachlorocyclopentadiene, had a low RF in two of the continuing calibration analyses. A couple of other SV compounds had low RFs (and were flagged with an 'R') and several SV compounds had highly variable RFs and were flagged as estimates (J).

Reviewed by: Jan Pels

Phone: 353-2735

Date: 9/26/85

ESD/Central Regional Laboratory

DATA TRACKING - FORM I

RECEIVED SEP 30 1985

R. Data Set No. SF 2511 ERRIS No. _____

Case No. 4654 Site Name: Bills Excavating

ame of Laboratory: GSRI Data User: Fit

o. of Samples: 6 Date Samples Received: 8/8/85

. Have chain-of-custody records been received? YES ✓ NO ___

. Have Traffic reports been received? YES ✓ NO ___

. If no, are Traffic report numbers written on the chain-of-custody record? YES ✓ NO ___

. If no, which Traffic report numbers are missing?

5 Are basic data forms in? YES ✓ NO ___

6. Number of samples claimed: 6 Number of samples received: 6

7 Checked by: Nidia Feliciano Date: 8/9/85

8. Received by Contract Project Management Section: J Thomas Date: 8/9/85

9 Review Started: 9/25/85 Reviewer Signature: Jan Pels

0 Total time spent on review: 7 Date review completed: 9/26/85

1. Copied (xeroxed) by: _____ Date: _____

2. Mailed to Data User by: [illegible] Date: [illegible]

DATA USERS:

Please fill in the blanks and return this form to:

Charles Elly, DPO, Region V, SSCRL

. Data received by: Suzanne Starr Date: 10/3/85

4. Q.A. review received by: Suzanne Starr Date: 10/3/85

. Received by CRL - CPM Section for file by: _____

Date: _____

RECEIVED SEP 3 0 1985

GSRI GULF SOUTH RESEARCH INSTITUTE
Post Office Box 26518 New Orleans, Louisiana 70186 Telephone 504 283-4223

August 8, 1985

Ms. Linda Boynton, Group Leader
U.S. Environmental Protection Agency
CLP Sample Management Office
P.O. Box 818
Alexandria, VA 22313

Subject: EPA Contract No. 68-01-6867, Case 4654
GSRI Project No. 328-C04-11

Dear Ms. Boynton:

Please find enclosed the library searches for the following Non-HSL scan numbers for sample number EF 321 (diluted):

1053	1146
1064	1150

These pages were inadvertently omitted from the report we sent on August 7, 1985.

If you have any questions please do not hesitate to call.

Sincerely,

Cindy Palazzo

Cindy Palazzo
Report Center Manager

cc:
Enclosure

cc: EMSL-LV
Region V

AUG 9 1985
U.S. EPA CENTRAL FACILITY
SAMPLE CENTER
CHICAGO, ILLINOIS 60605

RECEIVED SEP 3 0 1985

Gulf South Research Institute
Case 4654

EPA Contract No. 68-01-6867

NARRATIVE

Case 4654 arrived on July 17, 1985 intact and was designated as GSRI Episode LX. These four soil and two water samples were analyzed for volatile organics, semivolatile organics and pesticides.

The samples were identified ad follows:

EF-905	EF-321	EF-320
EF-907	EF-319	EF-906

Soil sample EF-905 was run as a medium level for volatile organic analysis. All of the other samples were run by the low level method. Several sample holding times were exceeded (specifically EF-906, EF-907, EF-321 (R) due to instrument problems. EF-321 showed attenuated response for internal standards and surrogates. The sample was rerun on August 1, 1985 (after the holding time expired) and showed similar behavior. Both runs are being submitted.

Sample EF-906 had a low surrogate recovery (2-fluorophenol and d_5 nitrobenzene). The sample was re-extracted, reanalyzed and found to be within specifications.

John R. Troost
GC Laboratory Manager

In Reference to Case No(s): 4654

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

RECEIVED SEP 30 1985

Telephone Record Log

Date of Call: 9/25/85

Laboratory Name: GSRI

Lab Contact: John Troost

Region: V

Regional Contact: Jan Pels

Call Initiated By: ___ Laboratory X Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:

The date for the initial VOA calibration on form VI was not consistent with the date on the corresponding BFB form V.

Summary of Resolution:

An incorrect date is on form VI; it should be 6/22/85, not 6/23/85. This form will be resubmitted.

Jan Pels
Signature

9/25/85
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

Sample Number
EF-319

85FN10587

RECEIVED SEP 30 1985

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: VOLX16R
QC Report No: 129
Sample Matrix: Soil
Contract No: 68-01-6817
Data Release Authorized By:
Date Sample Received: 7/17/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 7/26/85
Date Analyzed: 7/26/85
Conc/Dil Factor: 1.0 pH 9.00
Percent Moisture: 8.80
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	J 11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	51 J ~~5.3U~~
67-64-1	Acetone	12 J ~~11U~~
75-15-0	Carbon Disulfide	5.3U
75-35-4	1, 1-Dichloroethene	5.3U
75-34-3	1, 1-Dichloroethane	5.3U
156-60-5	Trans-1, 2-Dichloroethene	5.3U
67-66-3	Chloroform	5.3U
107-06-2	1, 2-Dichloroethane	5.3U
78-93-3	2-Butanone	R 11U
71-55-6	1, 1, 1-Trichloroethane	5.3U
56-23-5	Carbon Tetrachloride	5.3U
108-05-4	Vinyl Acetate	J 11U
75-27-4	Bromodichloromethane	R 5.3U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5.3U
78-87-5	1, 2-Dichloropropane	5.3U
10061-02-6	Trans-1, 3-Dichloropropene	5.3U
79-01-6	Trichloroethene	5.3U
124-48-1	Dibromochloromethane	5.3U
79-00-5	1, 1, 2-Trichloroethane	5.3U
71-43-2	Benzene	5.3U
10061-01-5	cis-1, 3-Dichloropropene	5.3U
110-75-8	2-Chloroethylvinylether	11U
75-25-2	Bromoform	R 5.3U
591-78-6	2-Hexanone	11U
108-10-1	4-Methyl-2-Pentanone	11U
127-18-4	Tetrachloroethene	5.3U
108-88-3	Toluene	5.3U
108-90-7	Chlorobenzene	5.3U
100-41-4	Ethylbenzene	5.3U
100-42-5	Styrene	5.3U
	Total Xylenes	5.3U

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 factors. (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 ≥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.

R- not usable

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-319

Organics Analysis Data Sheet
(Page 2)

RECEIVED SEP 30 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 7/23/85

Date Analyzed: 7/29/85

Conc/Dil Factor: 1.0

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	350U	J
108-95-2	Phenol	350U	
62-53-3	Aniline	350U	J
111-44-4	bis(-2-Chloroethyl)Ether	350U	
95-57-8	2-Chlorophenol	350U	
541-73-1	1, 3-Dichlorobenzene	350U	
106-46-7	1, 4-Dichlorobenzene	350U	
100-51-6	Benzyl Alcohol	350U	J
95-50-1	1, 2-Dichlorobenzene	350U	
95-48-7	2-Methylphenol	350U	
39638-32-9	bis(2-chloroisopropyl)Ether	350U	
106-44-5	4-Methylphenol	350U	
621-64-7	N-Nitroso-Di-n-Propylamine	350U	
67-72-1	Hexachloroethane	350U	
98-95-3	Nitrobenzene	350U	
78-59-1	Isophorone	210J ~~350U~~	
88-75-5	2-Nitrophenol	350U	
105-67-9	2, 4-Dimethylphenol	350U	
65-85-0	Benzoic Acid	1700U	J
111-91-1	bis(-2-Chloroethoxy)Methane	350U	
120-83-2	2, 4-Dichlorophenol	350U	
120-82-1	1, 2, 4-Trichlorobenzene	350U	
91-20-3	Naphthalene	3500 ~~350U~~	
106-47-8	4-Chloroaniline	350U	J
87-68-3	Hexachlorobutadiene	350U	
59-50-7	4-Chloro-3-Methylphenol	350U	
91-57-6	2-Methylnaphthalene	1500 ~~350U~~	
77-47-4	Hexachlorocyclopentadiene	350U	J
88-06-2	2, 4, 6-Trichlorophenol	350U	
95-95-4	2, 4, 5-Trichlorophenol	1700U	
91-58-7	2-Chloronaphthalene	350U	
88-74-4	2-Nitroaniline	1700U	
131-11-3	Dimethyl Phthalate	200J ~~350U~~	
208-96-8	Acenaphthylene	3400 ~~350U~~	
99-09-2	3-Nitroaniline	1700U	J

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	180J ~~350U~~	
51-28-5	2, 4-Dinitrophenol	1700U	
100-02-7	4-Nitrophenol	1700U	
132-64-9	Dibenzofuran	440 ~~350U~~	
121-14-2	2, 4-Dinitrotoluene	350U	
606-20-2	2, 6-Dinitrotoluene	350U	
84-66-2	Diethylphthalate	350U	
7005-72-3	4-Chlorophenyl-phenylether	350U	
86-73-7	Fluorene	220J ~~350U~~	
100-01-6	4-Nitroaniline	1700U	J
534-52-1	4, 6-Dinitro-2-Methylphenol	1700U	
86-30-6	N-Nitrosodiphenylamine (1)	350U	
101-55-3	4-Bromophenyl-phenylether	350U	
118-74-1	Hexachlorobenzene	350U	
87-86-5	Pentachlorophenol	1700U	
85-01-8	Phenanthrene	1700 ~~350U~~	
120-12-7	Anthracene	540 ~~350U~~	
84-74-2	Di-n-Butylphthalate	350U	
206-44-0	Fluoranthene	2100 ~~350U~~	
92-87-5	Benzidine	1700U	JR
129-00-0	Pyrene	1900 ~~350U~~	
85-68-7	Butylbenzylphthalate	350U	
91-94-1	3, 3'-Dichlorobenzidine	690U	
56-55-3	Benzo(a)Anthracene	1400 ~~350U~~	
117-81-7	bis(2-Ethylhexyl)Phthalate	450 ~~350U~~	
218-01-9	Chrysene	1700 ~~350U~~	
117-84-0	Di-n-Octyl Phthalate	350U	
205-99-2	Benzo(b)Fluoranthene	2200 ~~350U~~	
207-08-9	Benzo(k)Fluoranthene	1800 ~~350U~~	
50-32-8	Benzo(a)Pyrene	1400 ~~350U~~	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	1000 ~~350U~~	
53-70-3	Dibenz(a, h)Anthracene	420 ~~350U~~	
191-24-2	Benzo(g, h, i)Perylene	1100 ~~350U~~	

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 3 0 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
EF-319

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Low
Date Extracted: JUL 22 85
Date Analyzed: JUL 25 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/KG		
319-84-6	Alpha-BHC	8.8	U	R
319-85-7	Beta-BHC	8.8	U	
319-86-8	Delta-BHC	8.8	U	
58-89-9	Gamma-BHC (Lindane)	8.8	U	
76-44-8	Heptachlor	8.8	U	
309-00-2	Aldrin	8.8	U	
1024-57-3	Heptachlor Epoxide	8.8	U	
959-98-8	Endosulfan I	8.8	U	
60-57-1	Dieldrin	18.	U	
72-55-9	4.4'-DDE	18.	U	
72-20-8	Endrin	18.	U	
33213-65-9	Endosulfan II	18.	U	
72-54-8	4.4'-DDD	18.	U	
7421-93-4	Endrin Aldehyde	18.	U	
1031-07-8	Endosulfan Sulfate	18.	U	
50-29-3	4.4'-DDT	18.	U	
72-43-5	Methoxychlor	88.	UJ	
53494-70-5	Endrin Ketone	18.	U	
57-74-9	Chlordane	88.	U	
8001-35-2	Toxaphene	180.	U	
12674-11-2	Aroclor-1016	88.	U	
11104-28-2	Aroclor-1221	88.	U	
11141-16-5	Aroclor-1232	88.	U	
53469-21-9	Aroclor-1242	88.	U	
12672-29-6	Aroclor-1248	88.	U	
11097-69-1	Aroclor-1254	180.	U	
11096-82-5	Aroclor-1260	180.	U	

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s NA W_s 30 V_t 20000 V_i 2.55

FORM 1

RECEIVED SEP 3 0 1985

Sample Number
EF-320
85EN10588

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: VOLX19
QC Report No: 129
Sample Matrix: Soil
Contract No: 68-01-6867
Data Release Authorized By:
Date Sample Received: 7/17/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 7/25/85
Date Analyzed: 7/25/85
Conc/Dil Factor: 1.0 pH 8.38
Percent Moisture: 8.61
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	11U
74-83-9	Bromomethane	11U
75-01-4	Vinyl Chloride	11U
75-00-3	Chloroethane	11U
75-09-2	Methylene Chloride	23 B ~~5.3U~~ U
67-64-1	Acetone	22 B ~~11U~~
75-15-0	Carbon Disulfide	5.3U
75-35-4	1, 1-Dichloroethene	5.3U
75-34-3	1, 1-Dichloroethane	5.3U
156-60-5	Trans-1, 2-Dichloroethene	5.3U
67-66-3	Chloroform	5.3U
107-06-2	1, 2-Dichloroethane	5.3U
78-93-3	2-Butanone	R 11U
71-55-6	1, 1, 1-Trichloroethane	5.3U
56-23-5	Carbon Tetrachloride	5.3U
108-05-4	Vinyl Acetate	J 11U
75-27-4	Bromodichloromethane	R 5.3U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5.3U
78-87-5	1, 2-Dichloropropane	5.3U
10061-02-6	Trans-1, 3-Dichloropropene	5.3U
79-01-6	Trichloroethene	5.3U
124-48-1	Dibromochloromethane	5.3U
79-00-5	1, 1, 2-Trichloroethane	5.3U
71-43-2	Benzene	5.3U
10061-01-5	cis-1, 3-Dichloropropene	5.3U
110-75-8	2-Chloroethylvinylether	11U
75-25-2	Bromoform	X 5.3U X
591-78-6	2-Hexanone	11U
108-10-1	4-Methyl-2-Pentanone	11U
127-18-4	Tetrachloroethene	5.3U
108-88-3	Toluene	7.5 ~~5.3U~~
108-90-7	Chlorobenzene	5.3U
100-41-4	Ethylbenzene	5.3U
100-42-5	Styrene	5.3U
	Total Xylenes	14 ~~5.3U~~

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 ≥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.

R- Unusable

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-320

Organics Analysis Data Sheet
(Page 2)

RECEIVED SEP 30 1985

Semivolatile Compounds

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 7/23/85

Date Analyzed: 7/26/85

Conc/Dil Factor: 1.0

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	350U	
108-95-2	Phenol	350U	
62-53-3	Aniline	350U	J
111-44-4	bis(-2-Chloroethyl)Ether	350U	
95-57-8	2-Chlorophenol	350U	
541-73-1	1, 3-Dichlorobenzene	350U	
106-46-7	1, 4-Dichlorobenzene	350U	
100-51-6	Benzyl Alcohol	350U	J
95-50-1	1, 2-Dichlorobenzene	350U	
95-48-7	2-Methylphenol	350U	
39638-32-9	bis(2-chloroisopropyl)Ether	350U	
106-44-5	4-Methylphenol	350U	
621-64-7	N-Nitroso-Di-n-Propylamine	350U	
67-72-1	Hexachloroethane	350U	
98-95-3	Nitrobenzene	350U	
78-59-1	Isophorone	750 ~~350U~~	
88-75-5	2-Nitrophenol	350U	
105-67-9	2, 4-Dimethylphenol	350U	
65-85-0	Benzoic Acid	1700U	J
111-91-1	bis(-2-Chloroethoxy)Methane	350U	
120-83-2	2, 4-Dichlorophenol	350U	
120-82-1	1, 2, 4-Trichlorobenzene	350U	
91-20-3	Naphthalene	4100 ~~350U~~	
106-47-8	4-Chloroaniline	350U	J
87-68-3	Hexachlorobutadiene	350U	
59-50-7	4-Chloro-3-Methylphenol	350U	
91-57-6	2-Methylnaphthalene	1100 ~~350U~~	
77-47-4	Hexachlorocyclopentadiene	350U	J
88-06-2	2, 4, 6-Trichlorophenol	350U	
95-95-4	2, 4, 5-Trichlorophenol	1700U	
91-58-7	2-Chloronaphthalene	350U	
88-74-4	2-Nitroaniline	1700U	
131-11-3	Dimethyl Phthalate	1400 ~~350U~~	
208-96-8	Acenaphthylene	3300 ~~350U~~	
99-09-2	3-Nitroaniline	1700U	J

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	220J ~~350U~~	
51-28-5	2, 4-Dinitrophenol	1700U	
100-02-7	4-Nitrophenol	1700U	J
132-64-9	Dibenzofuran	1400 ~~350U~~	
121-14-2	2, 4-Dinitrotoluene	350U	
606-20-2	2, 6-Dinitrotoluene	350U	
84-66-2	Diethylphthalate	95J ~~350U~~	
7005-72-3	4-Chlorophenyl-phenylether	350U	
86-73-7	Fluorene	2200 ~~350U~~	
100-01-6	4-Nitroaniline	1700U	
534-52-1	4, 6-Dinitro-2-Methylphenol	1700U	
86-30-6	N-Nitrosodiphenylamine (1)	350U	
101-55-3	4-Bromophenyl-phenylether	350U	
118-74-1	Hexachlorobenzene	350U	
87-86-5	Pentachlorophenol	1700U	
85-01-8	Phenanthrene	6000 ~~350U~~	
120-12-7	Anthracene	2700 ~~350U~~	
84-74-2	Di-n-Butylphthalate	570 ~~350U~~	
206-44-0	Fluoranthene	7000 ~~350U~~	
92-87-5	Benzidine	1700U	J
129-00-0	Pyrene	7400 ~~350U~~	
85-68-7	Butylbenzylphthalate	96J ~~350U~~	
91-94-1	3, 3'-Dichlorobenzidine	690U	
56-55-3	Benzo(a)Anthracene	6500 ~~350U~~	
117-81-7	bis(2-Ethylhexyl)Phthalate	1700 ~~350U~~	
218-01-9	Chrysene	6400 ~~350U~~	
117-84-0	Di-n-Octyl Phthalate	350U	
205-99-2	Benzo(b)Fluoranthene	8600 ~~350U~~	
207-08-9	Benzo(k)Fluoranthene	4000 ~~350U~~	
50-32-8	Benzo(a)Pyrene	6400 ~~350U~~	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	5400 ~~350U~~	
53-70-3	Dibenz(a, h)Anthracene	1700 ~~350U~~	
191-24-2	Benzo(g, h, i)Perylene	5500 ~~350U~~	

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 30 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
EF320

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Low
Date Extracted: JUL 22 85
Date Analyzed: JUL 25 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/KG		
319-84-6	Alpha-BHC	8.8	U	R
319-85-7	Beta-BHC	8.8	U	
319-86-8	Delta-BHC	8.8	U	
58-89-9	Gamma-BHC (Lindane)	8.8	U	
76-44-8	Heptachlor	8.8	U	
309-00-2	Aldrin	8.8	U	
1024-57-3	Heptachlor Epoxide	8.8	U	
959-98-8	Endosulfan I	8.8	U	
60-57-1	Dieldrin	18.	U	
72-55-9	4.4'-DDE	18.	U	
72-20-8	Endrin	18.	U	
33213-65-9	Endosulfan II	18.	U	
72-54-8	4.4'-DDD	18.	U	
7421-93-4	Endrin Aldehyde	18.	U	
1031-07-8	Endosulfan Sulfate	18.	U	
50-29-3	4.4'-DDT	18.	U	
72-43-5	Methoxychlor	88.	U	J
53494-70-5	Endrin Ketone	18.	U	
57-74-9	Chlordane	88.	U	
8001-35-2	Toxaphene	180.	U	
12674-11-2	Aroclor-1016	88.	U	
11104-28-2	Aroclor-1221	88.	U	
11141-16-5	Aroclor-1232	88.	U	
53469-21-9	Aroclor-1242	88.	U	
12672-29-6	Aroclor-1248	88.	U	
11097-69-1	Aroclor-1254	180.	U	
11096-82-5	Aroclor-1260	180.	U	

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s NA W_s 30 V_t 20000 V_i 2.55

FORM 1

RECEIVED SEP 30 1985

Sample Number
EF-321

85FN10589

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: V0LX22
QC Report No: 129
Sample Matrix: Soil
Contract No: 68-01-6867
Data Release Authorized By:
Date Sample Received: 7/17/85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/26/85

Date Analyzed: 7/26/85

Conc/Dil Factor: 1.0 pH: 2.22

Percent Moisture: 13.09

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	J 12U
74-83-9	Bromomethane	12U
75-01-4	Vinyl Chloride	12U
75-00-3	Chloroethane	12U
75-09-2	Methylene Chloride	250 J ~~6U~~
67-64-1	Acetone	60 J ~~12U~~
75-15-0	Carbon Disulfide	11 ~~6U~~
75-35-4	1, 1-Dichloroethene	6U
75-34-3	1, 1-Dichloroethane	6U
156-60-5	Trans-1, 2-Dichloroethene	6U
67-66-3	Chloroform	6U
107-06-2	1, 2-Dichloroethane	6U
78-93-3	2-Butanone	42 R ~~12U~~
71-55-6	1, 1, 1-Trichloroethane	6U
56-23-5	Carbon Tetrachloride	6U
108-05-4	Vinyl Acetate	J 12U
75-27-4	Bromodichloromethane	R 6U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	6U
78-87-5	1, 2-Dichloropropane	6U
10061-02-6	Trans-1, 3-Dichloropropene	6U
79-01-6	Trichloroethene	6U
124-48-1	Dibromochloromethane	6U
79-00-5	1, 1, 2-Trichloroethane	6U
71-43-2	Benzene	200 ~~6U~~
10061-01-5	cis-1, 3-Dichloropropene	6U
110-75-8	2-Chloroethylvinylether	12U
75-25-2	Bromoform	~~R~~ 6U
591-78-6	2-Hexanone	12U
108-10-1	4-Methyl-2-Pentanone	12U
127-18-4	Tetrachloroethene	6U
108-88-3	Toluene	130 ~~6U~~
108-90-7	Chlorobenzene	3.0 J ~~6U~~
100-41-4	Ethylbenzene	7.4 ~~6U~~
100-42-5	Styrene	2.9 J ~~6U~~
	Total Xylenes	64 ~~6U~~

Data Reporting Qualifiers

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

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

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution factors. (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 ≥10 ng/ul in the final extract should be confirmed by GC/MS.

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

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

Laboratory Name: Gulf South Research Institute RECEIVED SEP 30 1985

Case No: 46654

Sample Number
EF-321

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low (Medium) (Circle One)

Date Extracted/Prepared: 7/23/85

Date Analyzed: SBR ~~7-26-85~~ 7-29-85

Conc/Dil Factor: 1:5

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	120,000u	
108-95-2	Phenol	120,000u	
62-53-3	Aniline	120,000u	J
111-44-4	bis(-2-Chloroethyl)Ether	120,000u	
95-57-8	2-Chlorophenol	120,000u	
541-73-1	1, 3-Dichlorobenzene	120,000u	
106-46-7	1, 4-Dichlorobenzene	120,000u	
100-51-6	Benzyl Alcohol	120,000u	J
95-50-1	1, 2-Dichlorobenzene	120,000u	
95-48-7	2-Methylphenol	120,000u	
39638-32-9	bis(2-chloroisopropyl)Ether	120,000u	
106-44-5	4-Methylphenol	120,000u	
621-64-7	N-Nitroso-Di-n-Propylamine	120,000u	
67-72-1	Hexachloroethane	120,000u	
98-95-3	Nitrobenzene	120,000u	
78-59-1	Isophorone	120,000u	
88-75-5	2-Nitrophenol	120,000u	
105-67-9	2, 4-Dimethylphenol	120,000u	
65-85-0	Benzoic Acid	550,000u	J
111-91-1	bis(-2-Chloroethoxy)Methane	120,000u	
120-83-2	2, 4-Dichlorophenol	120,000u	
120-82-1	1, 2, 4-Trichlorobenzene	120,000u	
91-20-3	Naphthalene 620,000	~~120,000u~~	SBR
106-47-8	4-Chloroaniline	120,000u	J
87-68-3	Hexachlorobutadiene	120,000u	
59-50-7	4-Chloro-3-Methylphenol	120,000u	
91-57-6	2-Methylnaphthalene 110,000	J ~~120,000u~~	SBR
77-47-4	Hexachlorocyclopentadiene	120,000u	J
88-06-2	2, 4, 6-Trichlorophenol	120,000u	
95-95-4	2, 4, 5-Trichlorophenol	550,000u	
91-58-7	2-Chloronaphthalene	120,000u	
88-74-4	2-Nitroaniline	550,000u	
131-11-3	Dimethyl Phthalate	120,000u	
208-96-8	Acenaphthylene 420,000	~~120,000u~~	SBR
99-09-2	3-Nitroaniline	550,000u	J

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene 36,000	J ~~120,000u~~	SBR
51-28-5	2, 4-Dinitrophenol	550,000u	
100-02-7	4-Nitrophenol	550,000u	J
132-64-9	Dibenzofuran 380,000	~~120,000u~~	SBR
121-14-2	2, 4-Dinitrotoluene	120,000u	
606-20-2	2, 6-Dinitrotoluene	120,000u	
84-66-2	Diethylphthalate	120,000u	
7005-72-3	4-Chlorophenyl-phenylether	120,000u	
86-73-7	Fluorene 700,000	~~120,000u~~	SBR
100-01-6	4-Nitroaniline	550,000u	
534-52-1	4, 6-Dinitro-2-Methylphenol	550,000u	
86-30-6	N-Nitrosodiphenylamine (1)	120,000u	
101-55-3	4-Bromophenyl-phenylether	120,000u	
118-74-1	Hexachlorobenzene	120,000u	
87-86-5	Pentachlorophenol	550,000u	
85-01-8	Phenanthrene 2,300,000	~~120,000u~~	SBR
120-12-7	Anthracene 490,000	~~120,000u~~	SBR
84-74-2	Di-n-Butylphthalate	120,000u	
206-44-0	Fluoranthene 2,000,000	~~120,000u~~	SBR
92-87-5	Benzidine	~~550,000u~~	J
129-00-0	Pyrene 1,900,000	~~120,000u~~	SBR
85-68-7	Butylbenzylphthalate	120,000u	
91-94-1	3, 3'-Dichlorobenzidine	235,000u	
56-55-3	Benzo(a)Anthracene 1,600,000	~~120,000u~~	SBR
117-81-7	bis(2-Ethylhexyl)Phthalate	120,000u	
218-01-9	Chrysene 1,400,000	~~120,000u~~	SBR
117-84-0	Di-n-Octyl Phthalate	120,000u	
205-99-2	Benzo(b)Fluoranthene 1,800,000	~~120,000u~~	SBR
207-08-9	Benzo(k)Fluoranthene 1,100,000	~~120,000u~~	SBR
50-32-8	Benzo(a)Pyrene 960,000	~~120,000u~~	SBR
193-39-5	Indeno(1, 2, 3-cd)Pyrene 900,000	~~120,000u~~	SBR
53-70-3	Dibenzo(a, h)Anthracene 280,000	~~120,000u~~	SBR
191-24-2	Benzo(g, h, i)Perylene 910,000	~~120,000u~~	SBR

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 30 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4554

Sample Number
EF-321

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Medium
Date Extracted: JUL 22 85
Date Analyzed: JUL 25 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/KG	
319-84-6	Alpha-BHC	140.	U
319-85-7	Beta-BHC	140.	U
319-86-8	Delta-BHC	140.	U
58-89-9	Gamma-BHC (Lindane)	140.	U
76-44-8	Heptachlor	140.	U
309-00-2	Aldrin	140.	U
1024-57-3	Heptachlor Epoxide	140.	U
959-98-8	Endosulfan I	140.	U
60-57-1	Dieldrin	280.	U
72-55-9	4.4'-DDE	280.	U
72-20-8	Endrin	280.	U
33213-65-9	Endosulfan II	280.	U
72-54-8	4.4'-DDD	280.	U
7421-93-4	Endrin Aldehyde	280.	U
1031-07-8	Endosulfan Sulfate	280.	U
50-29-3	4.4'-DDT	280.	U
72-43-5	Methoxychlor	1400.	U
53494-70-5	Endrin Ketone	280.	U
57-74-9	Chlordane	1400.	U
8001-35-2	Toxaphene	2800.	U
12674-11-2	Aroclor-1016	1400.	U
11104-28-2	Aroclor-1221	1400.	U
11141-16-5	Aroclor-1232	1400.	U
53469-21-9	Aroclor-1242	1400.	U
12672-29-6	Aroclor-1248	1400.	U
11097-69-1	Aroclor-1254	2800.	U
11096-82-5	Aroclor-1260	2800.	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s NA W_s 1 V_t 10000 V_i 2.55

FORM 1

RECEIVED SEP 3 0 1985

Sample Number
EF-905

85FN 10 590

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: VOLX01R3
QC Report No: 129
Sample Matrix: Soil
Contract No: 68-01-6867
Data Release Authorized By:
Date Sample Received: 7/17/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 7/31/85
Date Analyzed: 7/31/85
Conc/Dil Factor: 1.0 pH 3.18
Percent Moisture: 38.86
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	X 1500U
74-83-9	Bromomethane	1500U
75-01-4	Vinyl Chloride	1500U
75-00-3	Chloroethane	1500U
75-09-2	Methylene Chloride	1200 J ~~770U~~
67-64-1	Acetone	780 J B ~~1500U~~
75-15-0	Carbon Disulfide	J 770U
75-35-4	1, 1-Dichloroethene	770U
75-34-3	1, 1-Dichloroethane	X 770U
156-60-5	Trans-1, 2-Dichloroethene	770U
67-66-3	Chloroform	770U
107-06-2	1, 2-Dichloroethane	770U
78-93-3	2-Butanone	R 1500U
71-55-6	1, 1, 1-Trichloroethane	770U
56-23-5	Carbon Tetrachloride	X 770U
108-05-4	Vinyl Acetate	X 1500U
75-27-4	Bromodichloromethane	X SEP 770U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	770U
78-87-5	1, 2-Dichloropropane	X 770U
10061-02-6	Trans-1, 3-Dichloropropene	770U
79-01-6	Trichloroethene	770U
124-48-1	Dibromochloromethane	770U
79-00-5	1, 1, 2-Trichloroethane	770U
71-43-2	Benzene	5000 ~~770U~~
10061-01-5	cis-1, 3-Dichloropropene	770U
110-75-8	2-Chloroethylvinylether	R 1500U
75-25-2	Bromoform	X SEP 770U X SEP
591-78-6	2-Hexanone	1500U X
108-10-1	4-Methyl-2-Pentanone	1500U
127-18-4	Tetrachloroethene	770U
108-88-3	Toluene	6100 ~~770U~~
108-90-7	Chlorobenzene	770U
100-41-4	Ethylbenzene	770U
100-42-5	Styrene	770U
	Total Xylenes	5500 ~~770U~~

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

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

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

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

RECEIVED SEP 30 1985

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-905

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/23/85

Date Analyzed: 7/26/85

Conc/Dil Factor: 1.0

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	31000U	
108-95-2	Phenol	31000U	
62-53-3	Aniline	31000U	J
111-44-4	bis(-2-Chloroethyl)Ether	31000U	
95-57-8	2-Chlorophenol	31000U	
541-73-1	1, 3-Dichlorobenzene	31000U	
106-46-7	1, 4-Dichlorobenzene	31000U	
100-51-6	Benzyl Alcohol	31000U	J
95-50-1	1, 2-Dichlorobenzene	31000U	
95-48-7	2-Methylphenol	31000U	
39638-32-9	bis(2-chloroisopropyl)Ether	31000U	
106-44-5	4-Methylphenol	31000U	
621-64-7	N-Nitroso-Di-n-Propylamine	31000U	
67-72-1	Hexachloroethane	31000U	
98-95-3	Nitrobenzene	31000U	
78-59-1	Isophorone	31000U	
88-75-5	2-Nitrophenol	31000U	
105-67-9	2, 4-Dimethylphenol	31000U	
65-85-0	Benzoic Acid	150000U	J
111-91-1	bis(-2-Chloroethoxy)Methane	31000U	
120-83-2	2, 4-Dichlorophenol	31000U	
120-82-1	1, 2, 4-Trichlorobenzene	31000U	
91-20-3	Naphthalene 26000J	~~31000U~~	
106-47-8	4-Chloroaniline	31000U	J
87-68-3	Hexachlorobutadiene	31000U	
59-50-7	4-Chloro-3-Methylphenol	31000U	
91-57-6	2-Methylnaphthalene	31000U	
77-47-4	Hexachlorocyclopentadiene	31000U	J
88-06-2	2, 4, 6-Trichlorophenol	31000U	
95-95-4	2, 4, 5-Trichlorophenol	150000U	
91-58-7	2-Chloronaphthalene	31000U	
88-74-4	2-Nitroaniline	150000U	
131-11-3	Dimethyl Phthalate	31000U	
208-96-8	Acenaphthylene 16000J	~~31000U~~	
99-09-2	3-Nitroaniline	150000U	J

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	31000U	
51-28-5	2, 4-Dinitrophenol	150000U	
100-02-7	4-Nitrophenol	150000U	J
132-64-9	Dibenzofuran 13000J	~~31000U~~	
121-14-2	2, 4-Dinitrotoluene	31000U	
606-20-2	2, 6-Dinitrotoluene	31000U	
84-66-2	Diethylphthalate	31000U	
7005-72-3	4-Chlorophenyl-phenylether	31000U	
86-73-7	Fluorene 35000	~~31000U~~	
100-01-6	4-Nitroaniline	150000U	
534-52-1	4, 6-Dinitro-2-Methylphenol	150000U	
86-30-6	N-Nitrosodiphenylamine (1)	31000U	
101-55-3	4-Bromophenyl-phenylether	31000U	
118-74-1	Hexachlorobenzene	31000U	
87-86-5	Pentachlorophenol	150000U	
85-01-8	Phenanthrene 170,000	~~31000U~~	
120-12-7	Anthracene 110,000	~~31000U~~	
84-74-2	Di-n-Butylphthalate	31000U	
206-44-0	Fluoranthene 170,000	~~31000U~~	
92-87-5	Benzidine	150000U	J
129-00-0	Pyrene 120,000	~~31000U~~	
85-68-7	Butylbenzylphthalate	31000U	
91-94-1	3, 3'-Dichlorobenzidine	62000U	
56-55-3	Benzo(a)Anthracene 63,000	~~31000U~~	
117-81-7	bis(2-Ethylhexyl)Phthalate	31000U	
218-01-9	Chrysene 84000	~~31000U~~	
117-84-0	Di-n-Octyl Phthalate	31000U	
205-99-2	Benzo(b)Fluoranthene 40,000	~~31000U~~	
207-08-9	Benzo(k)Fluoranthene 43,000	~~31000U~~	
50-32-8	Benzo(a)Pyrene 40,000	~~31000U~~	
193-39-5	Indeno(1, 2, 3-cd)Pyrene 23,000J	~~31000U~~	
53-70-3	Dibenz(a, h)Anthracene 81,000J	~~31000U~~	
191-24-2	Benzo(g, h, i)Perylene 22,000J	~~31000U~~	

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 30 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
EF-905

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Medium
Date Extracted: JUL 22 85
Date Analyzed: JUL 24 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/KG	
319-84-6	Alpha-BHC	200.	U
319-85-7	Beta-BHC	200.	U
319-86-8	Delta-BHC	200.	U
58-89-9	Gamma-BHC (Lindane)	200.	U
76-44-8	Heptachlor	200.	U
309-00-2	Aldrin	200.	U
1024-57-3	Heptachlor Epoxide	200.	U
959-98-8	Endosulfan I	200.	U
60-57-1	Dieldrin	390.	U
72-55-9	4.4'-DDE	390.	U
72-20-8	Endrin	390.	U
33213-65-9	Endosulfan II	390.	U
72-54-8	4.4'-DDD	390.	U
7421-93-4	Endrin Aldehyde	390.	U
1031-07-8	Endosulfan Sulfate	390.	U
50-29-3	4.4'-DDT	390.	U
72-43-5	Methoxychlor	2000.	U
53494-70-5	Endrin Ketone	390.	U
57-74-9	Chlordane	2000.	U
8001-35-2	Toxaphene	3900.	U
12674-11-2	Aroclor-1016	2000.	U
11104-28-2	Aroclor-1221	2000.	U
11141-16-5	Aroclor-1232	2000.	U
53469-21-9	Aroclor-1242	2000.	U
12672-29-6	Aroclor-1248	2000.	U
11097-69-1	Aroclor-1254	3900.	U
11096-82-5	Aroclor-1260	3900.	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s NA W_s 1 V_t 10000 V_i 2.55

FORM 1

RECEIVED SEP 30 1985

Sample Number
EF-906

85FN10591

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute Case No: 4654

Lab Sample ID No: 1O1X04 QC Report No: 129

Sample Matrix: Water Contract No: 68-01-6867

Data Release Authorized By: Date Sample Received: 7/17/85

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/25/85

Date Analyzed: 7/25/85

Conc/Dil Factor: 1.0 pH 6.63

Percent Moisture: NA

Percent Moisture (Decanted): NA

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

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

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 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 factors. (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 ≥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.

RECEIVED SEP 3 0 1985

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-906(RE)

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/18/85 + 7/29/85 ← Both extracts yielded the same results JFP 9/05/85

Date Analyzed: 7/29/85

Conc/Dil Factor: 1.0

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

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

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 3 0 1985

ABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
EF-906

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Low
Date Extracted: JUL 18 85
Date Analyzed: JUL 23 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/L	
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	Gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4.4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4.4'-DDD	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
1031-07-8	Endosulfan Sulfate	0.10	U
50-29-3	4.4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s 1000 W_s NA V_t 10000 V_i 2.55

FORM 1

RECEIVED SEP 30 1985

Sample Number
EF-907

85FN10R15

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: VOLX12
QC Report No: 129
Sample Matrix: Water
Contract No: 68-01-6867
Data Release Authorized By:
Date Sample Received: 7/17/85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 7/25/85
Date Analyzed: 7/25/85
Conc/Dil Factor: 1.0 pH 5.11
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	J 10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	24 J ~~5U~~
67-64-1	Acetone	J 10U
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	R 10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	J 10U
75-27-4	Bromodichloromethane	R 5U

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

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

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

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

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

RECEIVED [illegible]

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-907

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/18/85

Date Analyzed: 7/26/85

Conc/Dil Factor: 1.0

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

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

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 30 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
EF-907

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Low
Date Extracted: JUL 18 85
Date Analyzed: JUL 23 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/L	
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	Gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4.4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4.4'-DDD	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
1031-07-8	Endosulfan Sulfate	0.10	U
50-29-3	4.4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s 1000 W_s NA V_t 10000 V_i 2.55

FORM 1

RECEIVED SEP 30 1985

Sample Number
Blank #1

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute Case No: 4654

Lab Sample ID No: VB072585B QC Report No: 129

Sample Matrix: Water Contract No: 68-01-6867

Data Release Authorized By: Date Sample Received: NA

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/25/85

Date Analyzed: 7/25/85

Conc/Dil Factor: 1.0 pH NA

Percent Moisture: NA

Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	10U
75-01-4	Vinyl Chloride	10U
75-00-3	Chloroethane	10U
75-09-2	Methylene Chloride	5U
67-64-1	Acetone	4.5J ~~10U~~
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5U
75-34-3	1, 1-Dichloroethane	5U
156-60-5	Trans-1, 2-Dichloroethene	5U
67-66-3	Chloroform	5U
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

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

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 ≥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.

RECEIVED SEP 3 0 1985

Laboratory Name: Gulf South Research Institute

Case No 9654

Sample Number: Blank 1

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/18/85

Date Analyzed: 7/23/85

Conc/Dil Factor: 1.0

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

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

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 3 0 1935

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
LOW WATER BLANK#1

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Low
Date Extracted: JUL 18 85
Date Analyzed: JUL 23 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/L	
319-84-6	Alpha-BHC	0.050	U
319-85-7	Beta-BHC	0.050	U
319-86-8	Delta-BHC	0.050	U
58-89-9	Gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4.4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4.4'-DDD	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
1031-07-8	Endosulfan Sulfate	0.10	U
50-29-3	4.4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
57-74-9	Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s 1000 W_s NA V_t 10000 V_i 2.55

FORM 1

Laboratory Name: Gulf South Research Institute RECEIVED SEP 3 0 1985

Case No: 4654

Sample Number: Blank 2

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/23/85

Date Analyzed: 7/24/85

Conc/Dil Factor: 1.0

CAS Number		ug/l or ug/Kg (Circle One)	
62-75-9	N-Nitrosodimethylamine	330U	
108-95-2	Phenol	330U	
62-53-3	Aniline	330U	
111-44-4	bis(-2-Chloroethyl)Ether	330U	
95-57-8	2-Chlorophenol	330U	
541-73-1	1, 3-Dichlorobenzene	330U	
106-46-7	1, 4-Dichlorobenzene	330U	
100-51-6	Benzyl Alcohol	330U	
95-50-1	1, 2-Dichlorobenzene	330U	
95-48-7	2-Methylphenol	330U	
39638-32-9	bis(2-chloroisopropyl)Ether	330U	
106-44-5	4-Methylphenol	330U	
621-64-7	N-Nitroso-Di-n-Propylamine	330U	
67-72-1	Hexachloroethane	330U	
98-95-3	Nitrobenzene	330U	
78-59-1	Isophorone	330U	
88-75-5	2-Nitrophenol	330U	
105-67-9	2, 4-Dimethylphenol	330U	
65-85-0	Benzoic Acid	1600U	
111-91-1	bis(-2-Chloroethoxy)Methane	330U	
120-83-2	2, 4-Dichlorophenol	330U	
120-82-1	1, 2, 4-Trichlorobenzene	330U	
91-20-3	Naphthalene	330U	
106-47-8	4-Chloroaniline	330U	J
87-68-3	Hexachlorobutadiene	330U	
59-50-7	4-Chloro-3-Methylphenol	330U	
91-57-6	2-Methylnaphthalene	330U	
77-47-4	Hexachlorocyclopentadiene	330U	J
88-06-2	2, 4, 6-Trichlorophenol	330U	
95-95-4	2, 4, 5-Trichlorophenol	1600U	
91-58-7	2-Chloronaphthalene	330U	
88-74-4	2-Nitroaniline	1600U	
131-11-3	Dimethyl Phthalate	330U	
208-96-8	Acenaphthylene	330U	
99-09-2	3-Nitroaniline	1600U	J

CAS Number		ug/l or ug/Kg (Circle One)	
83-32-9	Acenaphthene	330U	
51-28-5	2, 4-Dinitrophenol	1600U	
100-02-7	4-Nitrophenol	1600U	
132-64-9	Dibenzofuran	330U	
121-14-2	2, 4-Dinitrotoluene	330U	
606-20-2	2, 6-Dinitrotoluene	330U	
84-66-2	Diethylphthalate	330U	
7005-72-3	4-Chlorophenyl-phenylether	330U	
86-73-7	Fluorene	330U	
100-01-6	4-Nitroaniline	1600U	
534-52-1	4, 6-Dinitro-2-Methylphenol	1600U	
86-30-6	N-Nitrosodiphenylamine (1)	330U	
101-55-3	4-Bromophenyl-phenylether	330U	
118-74-1	Hexachlorobenzene	330U	
87-86-5	Pentachlorophenol	1600U	
85-01-8	Phenanthrene	330U	
120-12-7	Anthracene	330U	
84-74-2	Di-n-Butylphthalate	330U	
206-44-0	Fluoranthene	330U	
92-87-5	Benzidine	1600U	J
129-00-0	Pyrene	330U	
85-68-7	Butylbenzylphthalate	330U	
91-94-1	3, 3'-Dichlorobenzidine	660U	
56-55-3	Benzo(a)Anthracene	330U	
117-81-7	bis(2-Ethylhexyl)Phthalate	330U	
218-01-9	Chrysene	330U	
117-84-0	Di-n-Octyl Phthalate	330U	
205-99-2	Benzo(b)Fluoranthene	330U	
207-08-9	Benzo(k)Fluoranthene	330U	
50-32-8	Benzo(a)Pyrene	330U	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	330U	
53-70-3	Dibenz(a, h)Anthracene	330U	
191-24-2	Benzo(g, h, i)Perylene	330U	

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 3 0 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
LOW SOIL BLANK#2

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Low
Date Extracted: JUL 22 85
Date Analyzed: JUL 25 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/KG	
319-84-6	Alpha-BHC	8.0	U
319-85-7	Beta-BHC	8.0	U
319-86-8	Delta-BHC	8.0	U
58-89-9	Gamma-BHC (Lindane)	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor Epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16.	U
72-55-9	4.4'-DDE	16.	U
72-20-8	Endrin	16.	U
33213-65-9	Endosulfan II	16.	U
72-54-8	4.4'-DDD	16.	U
7421-93-4	Endrin Aldehyde	16.	U
1031-07-8	Endosulfan Sulfate	16.	U
50-29-3	4.4'-DDT	16.	U
72-43-5	Methoxychlor	80.	U
53494-70-5	Endrin Ketone	16.	U
57-74-9	Chlordane	80.	U
8001-35-2	Toxaphene	160.	U
12674-11-2	Aroclor-1016	80.	U
11104-28-2	Aroclor-1221	80.	U
11141-16-5	Aroclor-1232	80.	U
53469-21-9	Aroclor-1242	80.	U
12672-29-6	Aroclor-1248	80.	U
11097-69-1	Aroclor-1254	160.	U
11096-82-5	Aroclor-1260	160.	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s NA W_s 30 V_t 20000 V_i 2.55

FORM 1

Sample Number
Blank #3

Organics Analysis Data Sheet
(Page 1)

RECEIVED JUL 30 1985

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: VB072685A
QC Report No: 129
Sample Matrix: Soil
Contract No: 68-01-6867
Data Release Authorized By:
Date Sample Received: NA

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 7/26/85
Date Analyzed: 7/26/85
Conc/Dil Factor: 1.0 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

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

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

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 ≥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.

Sample Number
Blank #4

Organics Analysis Data Sheet
(Page 1)

RECEIVED SEP 30 1985

Laboratory Name: Gulf South Research Institute
Case No: 4654
Lab Sample ID No: VB073185A
QC Report No: 129
Sample Matrix: Soil
Contract No: 68-01-6867
Data Release Authorized By:
Date Sample Received: NA

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 7/31/85
Date Analyzed: 7/31/85
Conc/Dil Factor: 1.0 pH NA
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	1000U
74-83-9	Bromomethane	1000U
75-01-4	Vinyl Chloride	1000U
75-00-3	Chloroethane	1000U
75-09-2	Methylene Chloride	500U
67-64-1	Acetone	840J ~~1000U~~
75-15-0	Carbon Disulfide	500U
75-35-4	1, 1-Dichloroethene	500U
75-34-3	1, 1-Dichloroethane	500U
156-60-5	Trans-1, 2-Dichloroethene	500U
67-66-3	Chloroform	500U
107-06-2	1, 2-Dichloroethane	500U
78-93-3	2-Butanone	1000U
71-55-6	1, 1, 1-Trichloroethane	500U
56-23-5	Carbon Tetrachloride	500U
108-05-4	Vinyl Acetate	1000U
75-27-4	Bromodichloromethane	500U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	500U
78-87-5	1, 2-Dichloropropane	500U
10061-02-6	Trans-1, 3-Dichloropropene	500U
79-01-6	Trichloroethene	500U
124-48-1	Dibromochloromethane	500U
79-00-5	1, 1, 2-Trichloroethane	500U
71-43-2	Benzene	500U
10061-01-5	cis-1, 3-Dichloropropene	500U
110-75-8	2-Chloroethylvinylether	1000U
75-25-2	Bromoform	500U
591-78-6	2-Hexanone	1000U
108-10-1	4-Methyl-2-Pentanone	1000U
127-18-4	Tetrachloroethene	500U
108-88-3	Toluene	500U
108-90-7	Chlorobenzene	500U
100-41-4	Ethylbenzene	500U
100-42-5	Styrene	500U
	Total Xylenes	500U

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 ≥10 ng/ul in the final extract should be confirmed by GC/MS.

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

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

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
Blank 4

Organics Analysis Data Sheet
(Page 2)

RECEIVED SEP 30 1985

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/23/85

Date Analyzed: 7/24/85

Conc/Dil Factor: 1.0

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20,000U
108-95-2	Phenol	20,000U
62-53-3	Aniline	20,000U
111-44-4	bis(2-Chloroethyl)Ether	20,000U
95-57-8	2-Chlorophenol	20,000U
541-73-1	1, 3-Dichlorobenzene	20,000U
106-46-7	1, 4-Dichlorobenzene	20,000U
100-51-6	Benzyl Alcohol	20,000U
95-50-1	1, 2-Dichlorobenzene	20,000U
95-48-7	2-Methylphenol	20,000U
39638-32-9	bis(2-chloroisopropyl)Ether	20,000U
106-44-5	4-Methylphenol	20,000U
621-64-7	N-Nitroso-Di-n-Propylamine	20,000U
67-72-1	Hexachloroethane	20,000U
98-95-3	Nitrobenzene	20,000U
78-59-1	Isophorone	20,000U
88-75-5	2-Nitrophenol	20,000U
105-67-9	2, 4-Dimethylphenol	20,000U
65-85-0	Benzoic Acid	96,000U
111-91-1	bis(2-Chloroethoxy)Methane	20,000U
120-83-2	2, 4-Dichlorophenol	20,000U
120-82-1	1, 2, 4-Trichlorobenzene	20,000U
91-20-3	Naphthalene	20,000U
106-47-8	4-Chloroaniline	20,000U
87-68-3	Hexachlorobutadiene	20,000U
59-50-7	4-Chloro-3-Methylphenol	20,000U
91-57-6	2-Methylnaphthalene	20,000U
77-47-4	Hexachlorocyclopentadiene	20,000U
88-06-2	2, 4, 6-Trichlorophenol	20,000U
95-95-4	2, 4, 5-Trichlorophenol	96,000U
91-58-7	2-Chloronaphthalene	20,000U
88-74-4	2-Nitroaniline	96,000U
131-11-3	Dimethyl Phthalate	20,000U
208-96-8	Acenaphthylene	20,000U
99-09-2	3-Nitroaniline	96,000U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20,000U
51-28-5	2, 4-Dinitrophenol	96,000U
100-02-7	4-Nitrophenol	96,000U
132-64-9	Dibenzofuran	20,000U
121-14-2	2, 4-Dinitrotoluene	20,000U
606-20-2	2, 6-Dinitrotoluene	20,000U
84-66-2	Diethylphthalate	20,000U
7005-72-3	4-Chlorophenyl-phenylether	20,000U
86-73-7	Fluorene	20,000U
100-01-6	4-Nitroaniline	96,000U
534-52-1	4, 6-Dinitro-2-Methylphenol	96,000U
86-30-6	N-Nitrosodiphenylamine (1)	20,000U
101-55-3	4-Bromophenyl-phenylether	20,000U
118-74-1	Hexachlorobenzene	20,000U
87-86-5	Pentachlorophenol	96,000U
85-01-8	Phenanthrene	20,000U
120-12-7	Anthracene	20,000U
84-74-2	Di-n-Butylphthalate	20,000U
206-44-0	Fluoranthene	20,000U
92-87-5	Benzidine	96,000U
129-00-0	Pyrene	20,000U
85-68-7	Butylbenzylphthalate	20,000U
91-94-1	3, 3'-Dichlorobenzidine	40,000U
56-55-3	Benzo(a)Anthracene	20,000U
117-81-7	bis(2-Ethylhexyl)Phthalate	20,000U
218-01-9	Chrysene	20,000U
117-84-0	Di-n-Octyl Phthalate	20,000U
205-99-2	Benzo(b)Fluoranthene	20,000U
207-08-9	Benzo(k)Fluoranthene	20,000U
50-32-8	Benzo(a)Pyrene	20,000U
193-39-5	Indeno(1, 2, 3-cd)Pyrene	20,000U
53-70-3	Dibenz(a, h)Anthracene	20,000U
191-24-2	Benzo(g, h, i)Perylene	20,000U

(1)-Cannot be separated from diphenylamine

RECEIVED SEP 3 0 1985

LABORATORY: Gulf South Research Institute
CASE NUMBER: 4654

Sample Number
MED SOIL BLANK #4

ORGANICS ANALYSIS DATA SHEET
(PAGE 3)
Pesticides/PCBs

Concentration: Medium
Date Extracted: JUL 22 85
Date Analyzed: JUL 25 85
Dilution Factor: 1.0

CAS Number	Pesticide/PCB	Conc. uG/KG	
319-84-6	Alpha-BHC	120.	U
319-85-7	Beta-BHC	120.	U
319-86-8	Delta-BHC	120.	U
58-89-9	Gamma-BHC (Lindane)	120.	U
76-44-8	Heptachlor	120.	U
309-00-2	Aldrin	120.	U
1024-57-3	Heptachlor Epoxide	120.	U
959-98-8	Endosulfan I	120.	U
60-57-1	Dieldrin	240.	U
72-55-9	4,4'-DDE	240.	U
72-20-8	Endrin	240.	U
33213-65-9	Endosulfan II	240.	U
72-54-8	4,4'-DDD	240.	U
7421-93-4	Endrin Aldehyde	240.	U
1031-07-8	Endosulfan Sulfate	240.	U
50-29-3	4,4'-DDT	240.	U
72-43-5	Methoxychlor	1200.	U
53494-70-5	Endrin Ketone	240.	U
57-74-9	Chlordane	1200.	U
8001-35-2	Toxaphene	2400.	U
12674-11-2	Aroclor-1016	1200.	U
11104-28-2	Aroclor-1221	1200.	U
11141-16-5	Aroclor-1232	1200.	U
53469-21-9	Aroclor-1242	1200.	U
12672-29-6	Aroclor-1248	1200.	U
11097-69-1	Aroclor-1254	2400.	U
11096-82-5	Aroclor-1260	2400.	U

V_s = Volume of Water Extracted (mL)

W_s = Weight of Sample Extraced (g)

V_t = Volume of Total Extract (uL)

V_i = Volume of Extract Injected (uL)

V_s NA W_s 1 V_t 10000 V_i 2.55

FORM 1

RECEIVED SEP 30 1985

Sample Number
Blank #5

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Gulf South Research Institute Case No: 4654

Lab Sample ID No: VB080185B QC Report No: 129

Sample Matrix: Soil Contract No: 68-01-6867

Data Release Authorized By: Date Sample Received: NA

Volatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/1/85

Date Analyzed: 8/1/85

Conc/Dil Factor: 1.0 pH NA

Percent Moisture: NA

Percent Moisture (Decanted): NA

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

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

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 (10J).

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

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

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

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-319

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 76-13-1	Ethane, 1,1,2-Trichloro-1,2,2-			
2.	Trifluoro	VOA	221	60J
3. NA	Hexane	VOA	358	25J
4. 108-88-3	Toluene	SV	263	1200J B
5. 20 42-5	Benzene, Ethenyl	SV	391	930J
6. NA	Benzene, Ethenyl Methyl	SV	492	720J
7. NA	Unknown Substituted Benzene	SV	540	1600J
8. NA	Not Identified	SV	692	590J
9. NA	Not Identified	SV	821	1300J
10. NA	Unknown Aromatic Hydrocarbon	SV	888	2700J
11. NA	Unknown Hydrocarbon	SV	982	1300J
12. NA	Unknown Hydrocarbon	SV	1018	3100J
13. NA	Unknown Hydrocarbon	SV	1073	1500J
14. NA	Not Identified	SV	1101	1300J
15. NA	Not Identified	SV	1107	1400J
16. NA	Unknown Hydrocarbon	SV	1126	2000J
17. NA	Unknown Hydrocarbon	SV	1130	1200J
18. NA	Unknown Hydrocarbon	SV	1153	1100J
19. NA	Unknown Hydrocarbon	SV	1228	2200J
20. NA	Unknown Hydrocarbon	SV	1240	1200J
21. NA	Unknown Hydrocarbon	SV	1259	1100J
22. NA	Unknown Polynuclear Aromatic	SV	1418	990J
23. NA	Unknown Polynuclear Aromatic	SV	1582	1200J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

RECEIVED

Case: 4654

Contractor: _____

TENTATIVELY IDENTIFIED COMPOUNDS MATCH ASSESSMENT

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

CRITERIA

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

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

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

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

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

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

Laboratory Name Gulf South Research Institute

Case No: 4654

Sample Number
EF-321

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	Unknown Hydrocarbon	VOA	358	28 J
2. NA	Unknown Hydrocarbon	VOA	392	31 J
3. NA	Unknown Hydrocarbon	VOA	417	63 J
4. NA	Unknown Hydrocarbon	VOA	426	46 J
5. NA	Unknown Substituted Biphenyl	SV	888	80,000 J
6. 6141-66-0	1,1'-Biphenyl, 3,4-Diethyl-	SV	1011	100,000 J
7. 4816-25-9	9H-FLUOREN-9-one	SV	1053	130,000 J
8. 132-65-0	Dibenzothiophene	SV	1064	93,000 J
9. NA	Unknown Polynuclear Aromatic	SV	1146	78,000 J
10. NA	Unknown Polynuclear Aromatic	SV	1150	89,000 J
11. NA	Unknown Polynuclear Aromatic	SV	1162	250,000 J
12. 84-65-1	9,10-Anthracenedione	SV	1191	200,000 J
13. NA	Not Identified	SV	1237	130,000 J
14. NA	Methyl Pyrene	SV	1332	170,000 J
15. NA	Methyl Pyrene	SV	1342	83,000 J
16. NA	Methyl Pyrene	SV	1348	76,000 J
17. NA	Unknown Polynuclear Aromatic	SV	1416	87,000 J
18. NA	Thiophene Benzo[B]Naptho	SV	1434	110,000 J
19. NA	Unknown Polynuclear Aromatic	SV	1441	120,000 J
20. NA	Unknown Polynuclear Aromatic	SV	1452	120,000 J
21. NA	Not Identified	SV	1529	250,000 J
22. NA	Unknown Non HSL Polynuclear Aromatic	SV	1697	86,000 J
23. NA	Unknown Non HSL Polynuclear Aromatic	SV	1730	250,000 J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

RECEIVED SEP 3 0 1985

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
Blank 6

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 7/29/85

Date Analyzed: 7/29/85

Conc/Dil Factor: 1.0

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

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

(1)-Cannot be separated from diphenylamine

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-320

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 3 0 1985

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NA	None Detected	VOA	NA	NA
2.	108-883	Toluene	SV	270	510J B
3.	NA	Unknown Substituted Benzene	SV	497	490J
4.	NA	Unknown Substituted Benzene	SV	544	630J
5.	NA	Not Identified	SV	826	690J
6.	NA	Unknown Polynuclear Aromatic	SV	1017	550J
7.	NA	Unknown Polynuclear Aromatic	SV	1060	690J
8.	NA	Not Identified	SV	1106	450J
9.	NA	Not Identified	SV	1112	680J
10.	NA	Unknown Hydrocarbon	SV	1135	910J
11.	NA	Unknown Polynuclear Aromatic	SV	1158	470J
12.	NA	Unknown Polynuclear Aromatic	SV	1170	1200J
13.	84-65-1	9,10-Anthracenedione	SV	1200	710J
14.	NA	Unknown Hydrocarbon	SV	1249	710J
15.	NA	Pyrene, Methyl	SV	1342	810J
16.	NA	Benzo(b)Naphtho(b)Thiophene	SV	1443	510J
17.	203-12-3	Benzo(GHI)Fluoranthene	SV	1451	460J
18.	NA	Not Identified	SV	1536	1000J
19.	NA	Unknown Non-HSL Polynuclear Aromatic	SV	1737	1100J
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-905

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	Unknown Substituted Naphthalene	SV	1015	15000J
3. NA	Unknown Polynuclear Aromatic	SV	1154	21000J
4. NA	Unknown Polynuclear Aromatic	SV	1165	29000J
5. 612-94-2	Naphthalene, 2-Phenyl	SV	1191	13000J
6. NA	Pyrene, Methyl	SV	1330	23000J
7. NA	Pyrene, Methyl	SV	1339	20000J
8. NA	Not Identified	SV	1515	13000J
9. NA	Unknown Non Alk Polynuclear Aromatic	SV	1701	18000J
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: Gulf South Research Institute

Case No: 46524

Sample Number
EF-906

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	None Detected	SV	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
EF-907

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. 108-88-3	Toluene	SV	270	13J B
3. NA	Unknown Ketone	SV	362	20J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name Gulf South Research Institute

Case No: 4654

Sample Number: Blank #2

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	Toluene	SV	282	1000 J
3. NA	Unknown Ketone	SV	373	150 J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name Gulf South Research Institute

Case No: 4654

Sample Number
Blank #1

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	Toluene	SV	281	~~9.13~~ 14J
3. 110-12-3	2-Hexanone, 5-Methyl	SV	372	16 J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number
Blank #3

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	Analysis Not Detected	SV	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24				
25				
26				
27				
28				
29.				
30.				

Laboratory Name: Gulf South Research Institute

Case No: 4654

Sample Number: BLANK #5

Organics Analysis Data Sheet
(Page 4)

RECEIVED ... 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	Analysis Not Required	SV	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name: Gulf South Research Institute

Case No: 41654

Sample Number: Blank#4

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	None Detected	VOA	NA	NA
2. NA	None Detected	SV	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Laboratory Name Gulf South Research Institute

Case No: 4654

Sample Number
Blank 6

Organics Analysis Data Sheet
(Page 4)

RECEIVED SEP 30 1985

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. NA	Analysis Not Required	VOA	NA	NA
2. NA	None Detected	SV	NA	NA
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

RECEIVED SEP 3 0 1985

Case: ~~4546~~ JFP 4654

Contractor: GSRI

ABN INITIAL AND CONTINUING CALBRATION OUTLIERS

I = Initial
C = Continuing

List only outliers below.

COMPOUND	CCC % RSD Limit ≤25%	SPCC $\overline{RF}$ Limit >.05	I or C	Date/Time
hexachloro-cyclopentadiene		.043, .038	C, C,	7/24/85 8/6/85

IMPACT ON ASSOCIATED SAMPLE DATA:

LAB CORRECTIVE ACTION TAKEN (i.e. new 5 point curve)

RECEIVED SEP 3 0 1985

Case: JFP ~~4546~~ 4654

Contractor: GSRI

VOLATILES INITIAL AND CONTINUING CALIBRATION OUTLIERS

I = Initial
C = Continuing

List only outliers below

COMPOUND	CCC %RSD (Limit ≤ 25%)	SPCC $\overline{RF}$ (Limit ≥ 0.3)	I or C	Date/Time
bromoform		.282	I	7/22/85
" "		.219, .240, .283	C, C, C	7/25/85 11:01 7/25/85 16:30 7/26/85

IMPACT ON ASSOCIATED SAMPLE DATA:

LAB CORRECTIVE ACTION TAKEN (i.e. new 5 point curve)

PESTICIDE EVALUATION STANDARDS SUMMARY

Case No.: 4654/4632
Contract No.: 68-01-6867/6959
Date(s) of Analysis: JUL 24/25 1985

Laboratory: Gulf South Research Institute
Column: 1.5% SP-2250/1.95% SP-2401
Instrument ID: GC #2

RECEIVED SEP 30 1985

EVALUATION CHECK FOR LINEARITY

CALIBRATION FACTORS

Pesticide	Eval Mix A	Eval Mix B	Eval Mix C	% RSD
Aldrin	26629	26782	25995	1.1
Endrin	22610	22297	20865	3.0
4,4'-DDT	20512	20291	19688	1.5
DBC	22855	24255	25286	3.6
Time of Analysis:	1501	1432	1530	

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION

Pesticide	Eval Mix B	Eval Mix B	Eval Mix B
Endrin	1.4%	1.5%	1.7%
4,4'-DDT	1.0%	1.1%	13.2%
Time of Analysis:	1432	0058	0916

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO Sample No.	Lab ID	Time of Analysis	Percent Diff.*	SMO Sample No.	Lab ID	Time of Analysis	Percent Diff.*
	EVAL MIX B	1432	0.0	—	EVAL MIX B	0058	-0.09
	EVAL MIX A	1501	0.18	FC-080	LY-24	0135	-0.09
	EVAL MIX C	1530	0.0	EF-321	LX-24	0213	-1.38
	PEST MIX A	1559	0.0	FC-077	LY-12	0251	0.13
	PEST MIX B	1629	0.04	EF-905-MS	LX-03-MS	0330	-0.13
	TOXAPHENE	1659	0.84	EF-905-MSD	LX-03-MSD	0408	-0.4
	CHLORDANE	1729	0.18	—	PEST MIX A	0446	ND **
	PCB 1016	1759	0.09	—	PEST MIX B	0524	-0.31
	PCBs 1221/1260	1829	0.04	EF-319-MS	LX-18-MS	0601	-4.57 *
	PCB 1232	1917	-0.13	EF-319-MSD	LX-18-MSD	0641	-4.39 *
	PCB 1242	1956	-0.09	EF-319	LX-18	0720	-4.62 *
	PCB 1248	2034	-0.13	EF-320	LX-21	0759	-4.39 *
	PCB 1254	2112	0.18	FC-074	LY-04	0838	-0.18
LOW SOIL BLANK	LX/LY LOW BLANK	2151	0.09	—	EVAL MIX B	0916	-0.04
MED SOIL BLANK	LX/LY MED BLANK	2228	-0.09	FC-078	LY-16	0954	0.22
EF-925	LX-03	2306	0.0	—	PEST MIX A	1032	ND **
FC-076	LY-08	2343	-0.18	—	PEST MIX B	1110	-0.18
FC-079	LY-20	0020	-0.13				

COMMENTS:

* <= 2% Packed, <= 0.3% Capillary
** Endrin Ketone coelutes w/DBC
*** Interferant coelutes w/DBC

FORM VIII

Reviewed: RM
Date: 07-26-1985

PESTICIDE EVALUATION STANDARDS SUMMARY

Case No.: 4677 (SAS #1816B)/4632/4654 Laboratory: Gulf South Research Institute
Contract No.: 68-01-6867/6959 Column: 1.5% SP-2250/1.95% SP-2401
Date(s) of Analysis: JUL 22/23 1985 Instrument ID: GC #2

RECEIVED SEP 30 1985

EVALUATION CHECK FOR LINEARITY

	CALIBRATION FACTORS			
Pesticide	Eval Mix A	Eval Mix B	Eval Mix C	% RSD
Aldrin	27834	27242	26478	2.5
Endrin	21944	21115	20227	4.1
4,4'-DDT	17031	17855	18400	3.9
DBC	24608	25176	26031	2.8
Time of Analysis:	1748	1711	1826	

EVALUATION CHECK FOR 4,4'-DDT/ENDRIN BREAKDOWN

	PERCENT BREAKDOWN EXPRESSED AS TOTAL DEGRADATION		
Pesticide	Eval Mix B	Eval Mix B	Eval Mix B
Endrin	<1.5%	<1.4%	<1.4%
4,4'-DDT	<1.1%	<1.2%	<1.1%
Time of Analysis:	1711	0442	1248

EVALUATION OF RETENTION TIME SHIFT FOR DIBUTYLCHLORENDATE

SMO Sample No.	Lab ID	Time of Analysis	Percent Diff.*	SMO Sample No.	Lab ID	Time of Analysis	Percent Diff.*
	EVAL MIX B	1711	0.0	FC-082	LY-42	0557	-0.53
	EVAL MIX A	1748	-0.27	FC-081	LY-29	0635	-0.67
	EVAL MIX C	1826	-0.45	EF-906-MS	LX-09-MS	0713	-0.89
	PEST MIX A	1903	-0.36	EF-906-MSD	LX-09-MSD	0751	-0.76
	PEST MIX B	1941	-0.58	—	PEST MIX A	0829	00
	TOXAPHENE	2018	0.04	—	PEST MIX B	0907	-0.71
	CHLORDANE	2056	-0.62	FC-082-MS	LY-43-MS	0944	-0.67
	PCB 1016	2134	-0.53	FC-082	LY-44-MSD	1022	-0.4
	PCBs 1221/1260	2212	-0.49	BC-230	LV-02	1101	-0.85
	PCB 1232	2301	-0.4	BC-231	LV-06	1139	-0.45
	PCB 1242	2339	-0.49	BC-232	LV-08	1218	-0.4
	PCB 1248	0017	-0.58	—	EVAL MIX B	1248	-0.49
	PCB 1254	0056	-0.62	BC-233	LV-12	1317	-0.13
WATER BLANK	LV/LW/LX/LY BLANK	0212	-0.45	BC-234	LV-14	1347	-0.89
LOW SOIL BLANK	LV LOW SOIL BLANK	0249	-0.58	BC-230-MS (1:2)	LV-02-MS	1418	-0.93
FC-075	LW-43	0327	-0.62	BC-230-MSD (1:2)	LV-02-MSD	1449	-1.2
EF-906	LX-09	0405	-0.45	—	PEST MIX A	1519	-0.09
—	EVAL MIX B	0442	-0.58	—	PEST MIX B	1549	-0.49
EF-907	LX-15	0520	-0.58				

COMMENTS:

* (= 2% Packed, (= 0.3% Capillary

FORM VIII

Reviewed: RM
Date: 07-24-1985

PESTICIDE/PCB STANDARDS SUMMARY

RECEIVED SEP 3 0 1985

Case Number: 4677 (SAS #1816B)/4632/4654
Contract Number: 68-01-6867/6959

Laboratory: Gulf South Research Institute
GC Column: 1.5% SP-2250/1.95% SP-2401
GC Instrument ID: 2

Analysis: Quant. Conf. (Circle One)

	Date of Analysis: JUL 22 85			Date of Analysis: JUL 23 85			Date of Analysis: JUL 23 85		
	Time of Analysis: PEST MIX A: 1903 PEST MIX B: 1941			Time of Analysis: PEST MIX A: 0829 PEST MIX B: 0907			Time of Analysis: PEST MIX A: 1519 PEST MIX B: 1549		
Compound	RT	RT Window	Calib Factor	RT	Calib Factor	% Diff.	RT	Calib Factor	% Diff.
Alpha-BHC	1.96	1.94 - 1.98	37333	1.96	36444	-2.4	1.97	34876	-4.3
Beta-BHC	2.72	2.70 - 2.75	13765	2.72	13357	-3.0	2.73	12831	-3.9
Delta-BHC	3.15	3.12 - 3.18	33239	3.15	32282	-2.9	3.16	32173	-0.3
Gamma-BHC	2.43	2.40 - 2.45	36706	2.42	36725	0.1	2.43	36569	-0.4
Heptachlor	2.95	2.92 - 2.98	34353	2.94	34549	0.6	2.95	33961	-1.7
Aldrin	3.52	3.49 - 3.57	37255	3.53	36605	-1.7	3.54	35888	-2.0
Heptachlor Epoxide	5.14	5.10 - 5.20	38188	5.14	37475	-1.9	5.16	37624	0.4
Endosulfan I	6.43	6.37 - 6.50	33292	6.43	32834	-1.4	6.44	31105	-5.3
Dieldrin	7.76	7.69 - 7.84	33602	7.76	33653	0.2	7.78	32773	-2.6
4,4'-DDE	7.23	7.16 - 7.31	29966	7.24	29401	-1.9	7.24	28739	-2.3
Endrin	9.37	9.29 - 9.47	30852	9.38	31366	1.7	9.39	31435	0.2
Endosulfan II	11.28	11.16 - 11.39	41363	11.27	40853	-1.2	11.27	40039	-2.0
4,4'-DDD	10.83	10.73 - 10.95	27647	10.85	27067	-2.1	10.85	26933	-0.5
Endrin Aldehyde	14.54	14.37 - 14.66	25333	14.50	24431	-3.6	14.51	23588	-3.5
Endosulfan Sulfate	17.46	17.31 - 17.66	18043	17.49	18482	2.4	17.50	19922	7.8
4,4'-DDT	12.59	12.88 - 13.14	27349	13.00	27246	-0.4	13.03	27707	1.7
Methoxychlor	24.00	23.77 - 24.25	9169	24.00	9675	5.5	24.03	9435	-2.5
Endrin Ketone	23.54	23.32 - 23.80	~~15378~~ 17544 *	23.54	18056	~~-88.3~~ 2.9% *	23.60	19608	8.6
Chlordane	5.70	5.64 - 5.76							
Toxaphene	13.72	13.58 - 13.86							
Aroclor-1016	2.88	2.85 - 2.91							
Aroclor-1221	1.81	1.79 - 1.83							
Aroclor-1232	2.89	2.86 - 2.92							
Aroclor-1242	2.89	2.86 - 2.92							
Aroclor-1248	2.88	2.85 - 2.91							
Aroclor-1254	7.93	7.85 - 8.01							
Aroclor-1260	12.77	12.64 - 12.90							

* DATA ENTRY ERROR

FORM IX

Reviewed: R.M
Date: 07-24-1985

90-13-26

PESTICIDE/PCB STANDARDS SUMMARY

MTOTHER SEP 3 0 1985

Case Number: 4654/4632
Contract Number: 68-01-6867/6959

Laboratory: Gulf South Research Institute
GC Column: 1.5% SP-2250/1.95% SP-2401
GC Instrument ID: 2

Analysis: Quant. Conf. (Circle One)

	Date of Analysis: JUL 24 85			Date of Analysis: JUL 25 85			Date of Analysis: JUL 25 85		
	Time of Analysis:			Time of Analysis:			Time of Analysis:		
	PEST MIX A: 1559			PEST MIX A: 0446			PEST MIX A: 1032		
	PEST MIX B: 1629			PEST MIX B: 0524			PEST MIX B: 1110		
Compound	RT	RT Window	Calib Factor	RT	Calib Factor	% Diff.	RT	Calib Factor	% Diff.
Alpha-BHC	1.97	1.95 - 1.99	37333	1.97	35686	-4.4	1.97	32732	-8.3
Beta-BHC	2.74	2.71 - 2.77	13459	2.73	12839	-4.6	2.75	11176	-13.0
Delta-BHC	3.17	3.14 - 3.21	33412	3.17	31875	-4.6	3.18	28690	-10.0
Gamma-BHC	2.44	2.42 - 2.46	37216	2.43	35059	-5.8	2.45	30824	-12.1
Heptachlor	2.96	2.93 - 2.99	34758	2.96	32327	-7.0	2.97	26549	-17.9
Aldrin	3.55	3.52 - 3.59	37064	3.55	35317	-4.7	3.57	31888	-9.7
Heptachlor Epoxide	5.18	5.13 - 5.23	37984	5.17	35992	-5.2	5.19	31890	-11.4
Endosulfan I	6.47	6.40 - 6.53	33232	6.45	31640	-4.8	6.48	28188	-10.9
Dieldrin	7.81	7.73 - 7.89	33815	7.80	32342	-4.4	7.82	28577	-11.6
4,4'-DDE	7.29	7.22 - 7.36	29994	7.27	28364	-5.4	7.31	25535	-10.0
Endrin	9.44	9.35 - 9.53	32094	9.42	30187	-5.9	9.46	27683	-8.3
Endosulfan II	11.35	11.23 - 11.46	40912	11.33	39696	-3.0	11.35	34304	-13.6
4,4'-DDD	10.92	10.82 - 11.04	27561	10.89	27082	-1.7	10.97	27294	0.8
Endrin Aldehyde	14.59	14.44 - 14.73	24353	14.58	23706	-2.7	14.59	21863	-7.8
Endosulfan Sulfate	17.59	17.40 - 17.75	19863	17.53	19129	-3.7	17.60	16278	-14.9
4,4'-DDT	13.09	12.97 - 13.23	29292	13.07	25763	-12.0	13.14	20887	-18.9
Methoxychlor	24.21	23.96 - 24.45	10075	24.18	9180	-8.9	24.22	6251	-31.9
Endrin Ketone	23.73	23.49 - 23.96	44414	23.68	41107	-7.4	23.77	44998	9.5
Chlordane	5.73	5.67 - 5.79							
Toxaphene	13.81	13.67 - 13.95							
Aroclor-1016	2.90	2.87 - 2.93							
Aroclor-1221	1.82	1.80 - 1.84							
Aroclor-1232	2.90	2.87 - 2.93							
Aroclor-1242	2.89	2.86 - 2.92							
Aroclor-1248	2.90	2.87 - 2.93							
Aroclor-1254	7.98	7.90 - 8.06							
Aroclor-1260	12.88	12.75 - 13.01							

FORM IX

Reviewed: RM
Date: 07-29-1985

10:10:05

REVIEW PACKAGE TO USER

RECEIVED 3 0 1985

*1. Review summary sheet.

*2. Data qualifier sheet.

3. Case narrative.

4. Surrogate % Recovery forms.

5. MS/MSD % Recovery Summary forms.

6. Reagent blank summary forms.

7. DF TPP Tune~~t~~ING

8. BFB Tun~~e~~ING

9. Organic Analysis data sheets for each sample.

10. Tentatively Identified Compound sheet for each sample.

11. Tentatively ID. Compound Match Assessment sheet.

12. ABN Initial and Continuing Calibration Outli~~ne~~ER sheet.

13. VOA Initial and Continuing Calibration Outlier sheet.

14. PESTICIDE EVALUATION Summary form.

15 Pest/PCB Standards summary form - quant. coln.

16. PEST/PCB Standards summary form - confim. coln.

17. PEST/PCB ID forms.

18. Sheet with SMO & CRL** to be filled in. - optional only used if discrepancies exist.

** Reviewer must make comments in his/her summary as to how the data is effected by outliers or missing information.

D.S
8/12/80

#1

Bill's excavating. Overview of site showing ruins of coke batteries and truck tankers from SE on elevated access road. 8/12/80

#2

Bill's excavating ruins of coal storage pit from NE on elevated access road. 8/12/80

#3
Bill's excavating. Barrel site from NW. 8/12/80

#4
Bill's excavating. Barrel site from NE. 8/12/80

#5
Bill's excavating. Barrel site from SE showing tarry resinous residue 8/12/80

#6
Bill's excavating close up of leaking barrels from West. 8/12/80

#7
Bill's excavating. Sampling seepage from barrels. 8/12/80

#8
Bill's excavating. Basement of ruins of cooling and washing building from ~~North~~ South. 8/12/80

#9
Bill's excavating. Tar pile and oil wastes in basement ruins of cooling and washing building from SW. 8/12/80

#10
Bill's excavating. Tar pile and oily wastes from SE. 8/12/80

#11
Bill's excavating. Close up of tar pile. 8/12/80

#12
Bill's excavating. Oily skum in tank in old cooling and washing building. 8/12/80

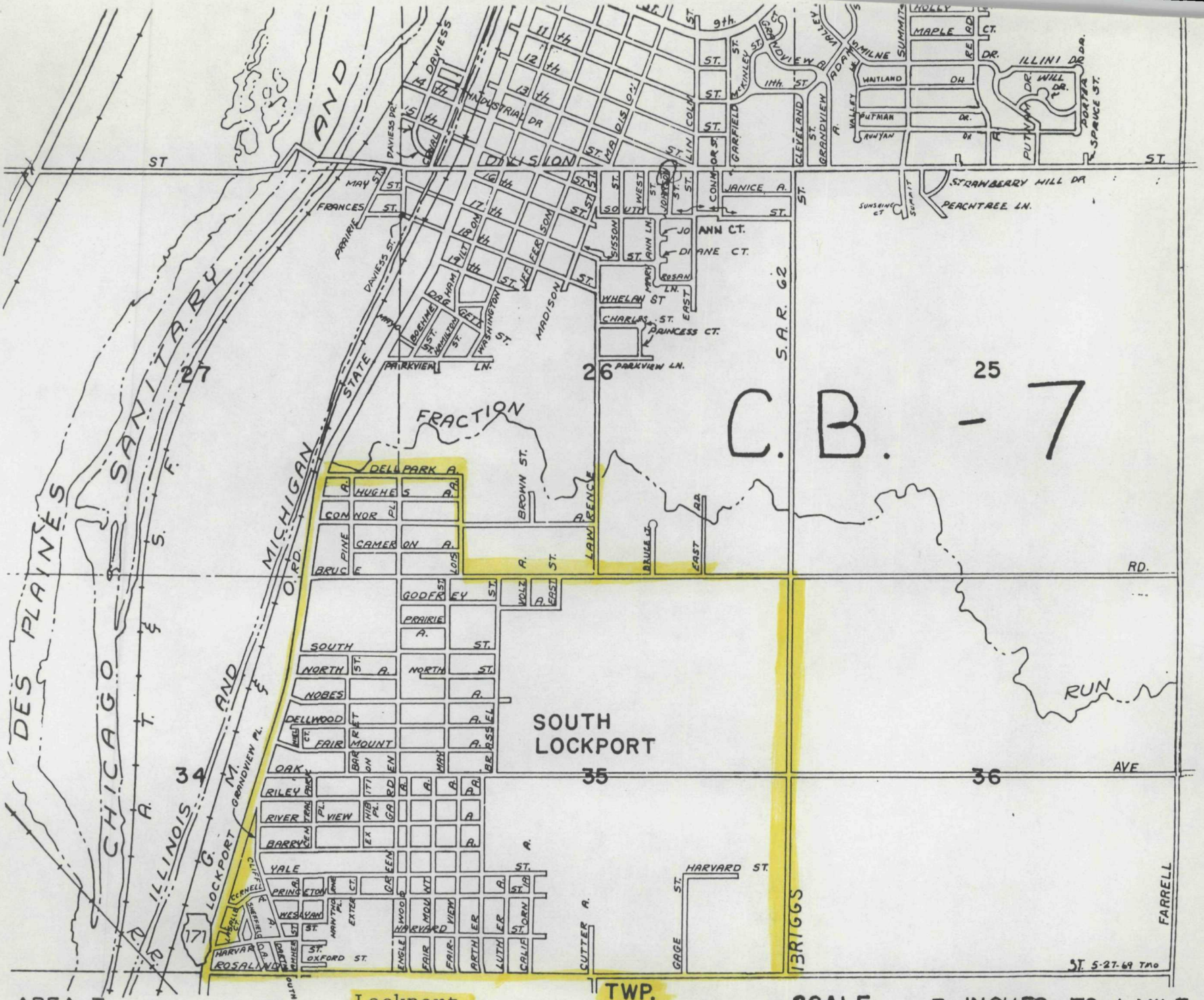
Lockport Township

Water Distribution Map

LOCKPORT TOWNSHIP SEWER & WATER DEPARTMENT
ROOM 224
222 E. 9TH STREET
LOCKPORT, IL 60441

DEC 1 0 1986

Cindy Pugh
111 W Jackson Blvd
Chicago, Ill 60604



AREA 7

Lockport

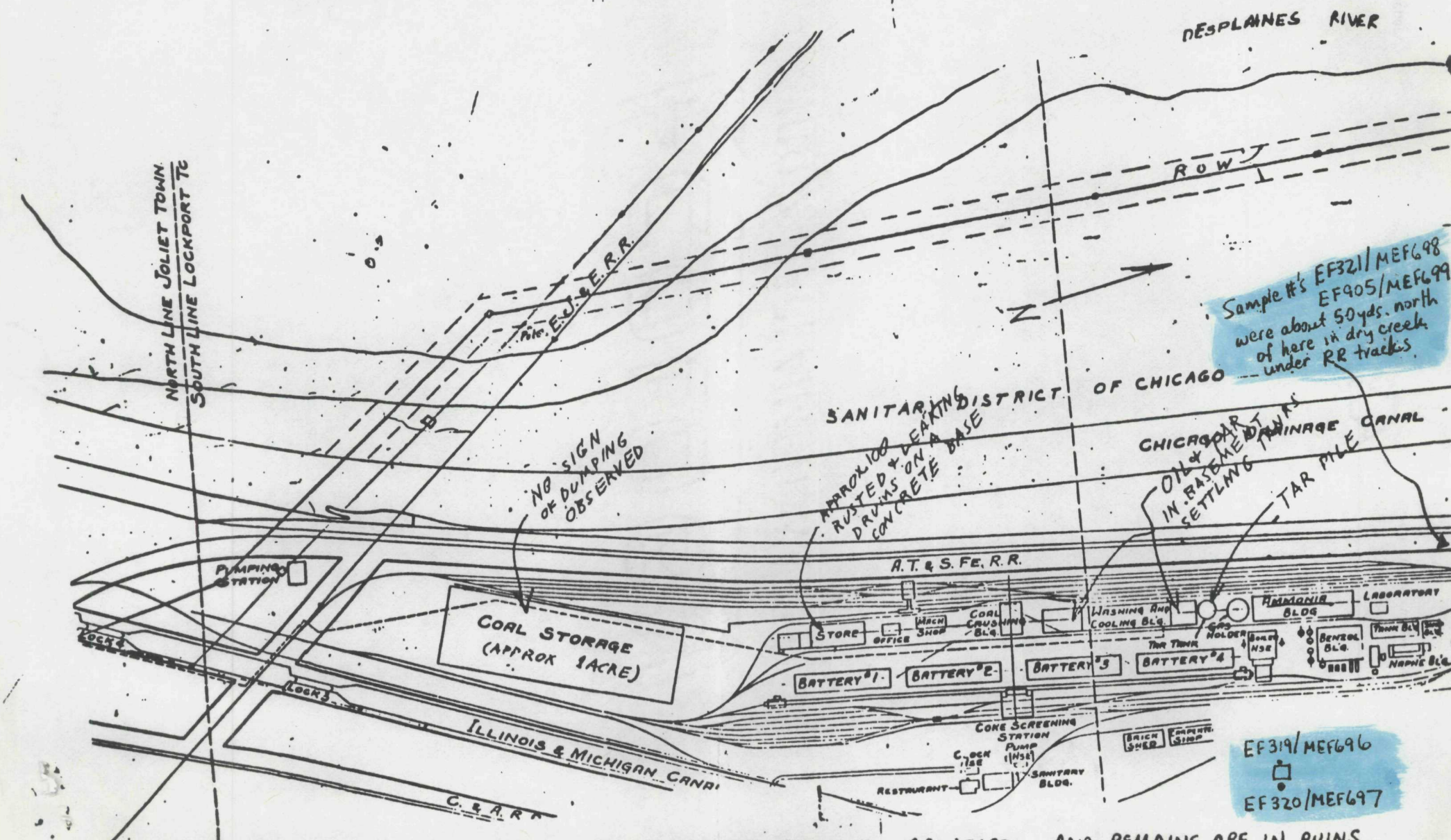
SCALE: 3 INCHES TO 1 MILE

©1979

CLARA HARTLEY WOODARD

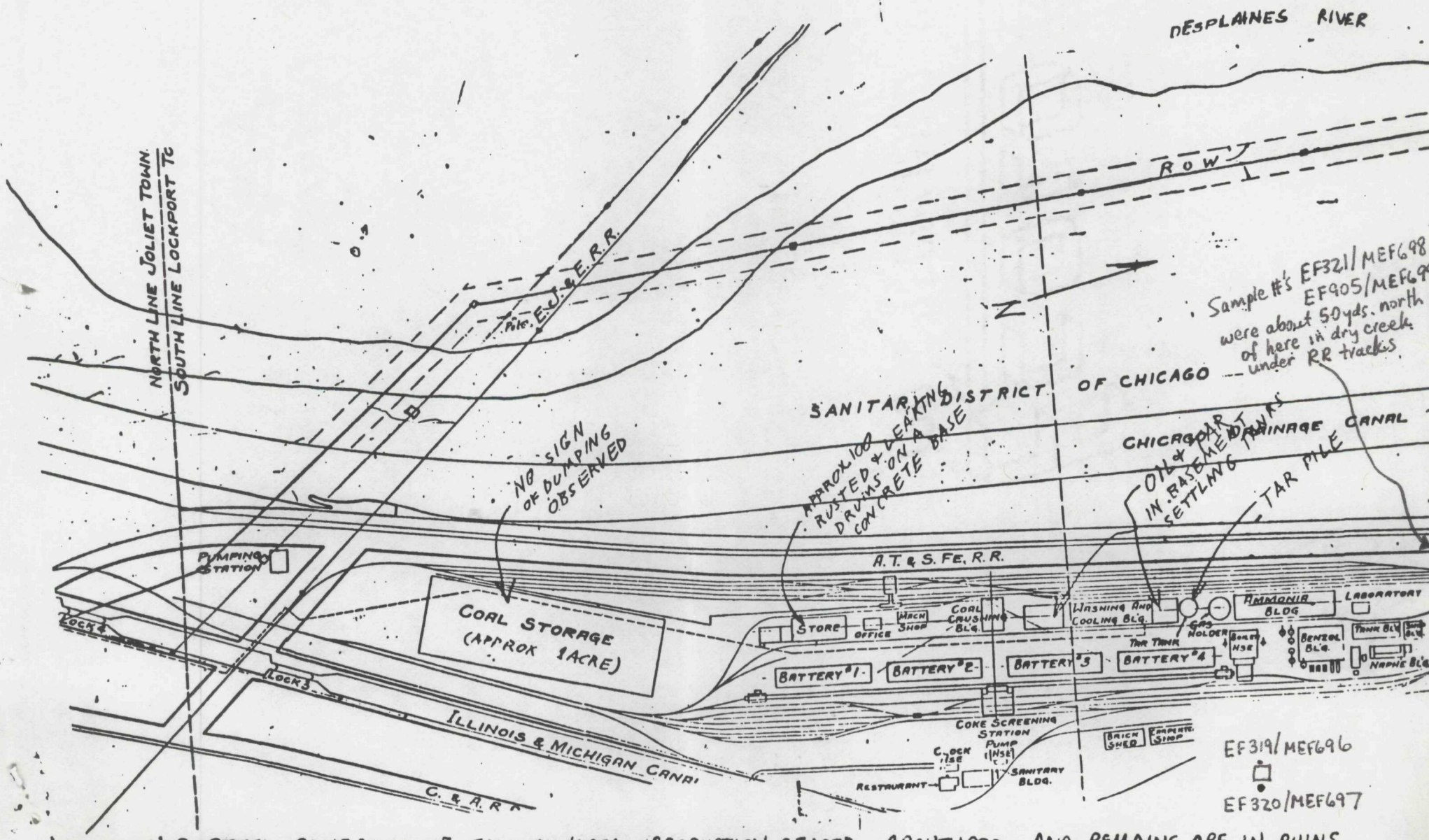
CONGRESSIONAL	4
SENATORIAL	42
REPRESENTATIVE	84
[illegible] BOARD	2 & 7

Bill's Excavating & Landscaping
2215 Lockport Rd.
Lockport, Illinois
R05-S803-01D



U.S. STEEL BLUEPRINT OF FACILITY/AREA. PRODUCTION CEASED ABOUT 1930, AND REMAINS ARE IN RUINS.

Bill's Excavating & Landscaping
2215 Lockport Rd.
Lockport, Illinois
R05-8803-01D



U.S. STEEL BLUEPRINT OF FACILITY/AREA. PRODUCTION CEASED ABOUT 1930, AND REMAINS ARE IN RUINS.

SDMS US EPA Region V

Imagery Insert Form

Some images in this document may be illegible or unavailable in SDMS. Please see reason(s) indicated below:

☐ Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comment

☐ **Confidential Business Information (CBI).**
This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

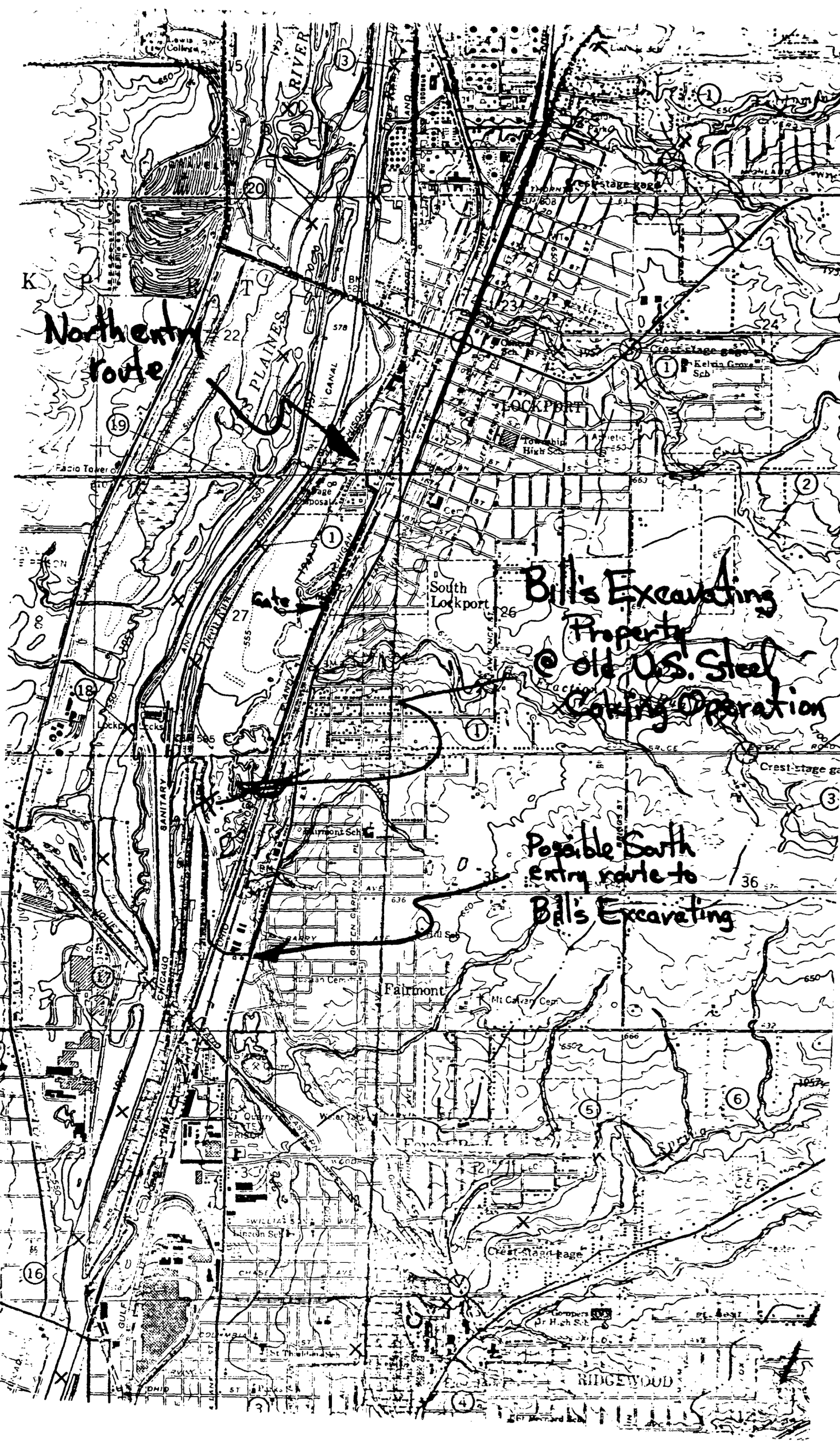
Specify Type of Document(s) / Comment

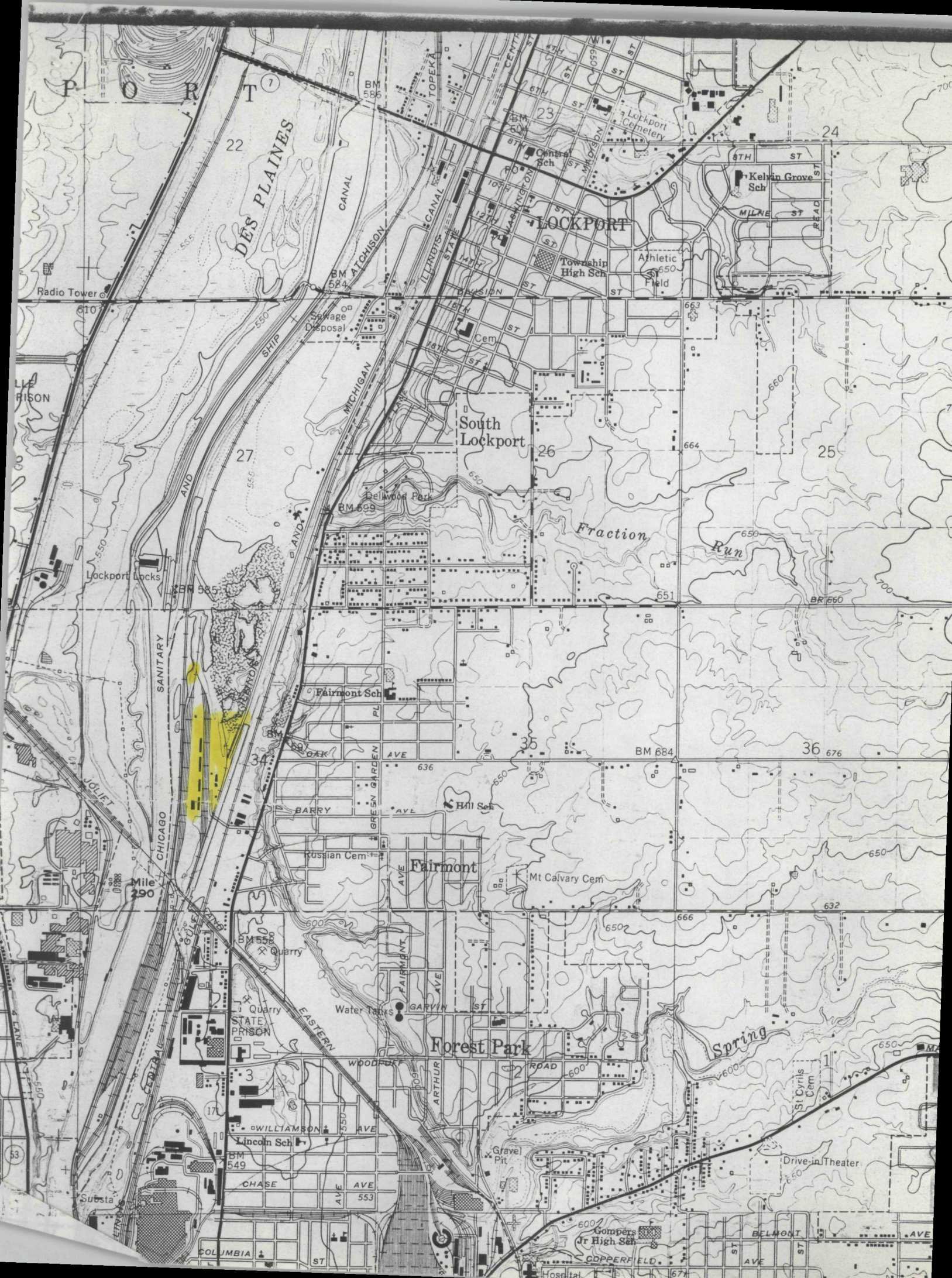
☒ **Unscannable Material: Oversized __X__ or ____ Format.**
Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the Superfund Records center.

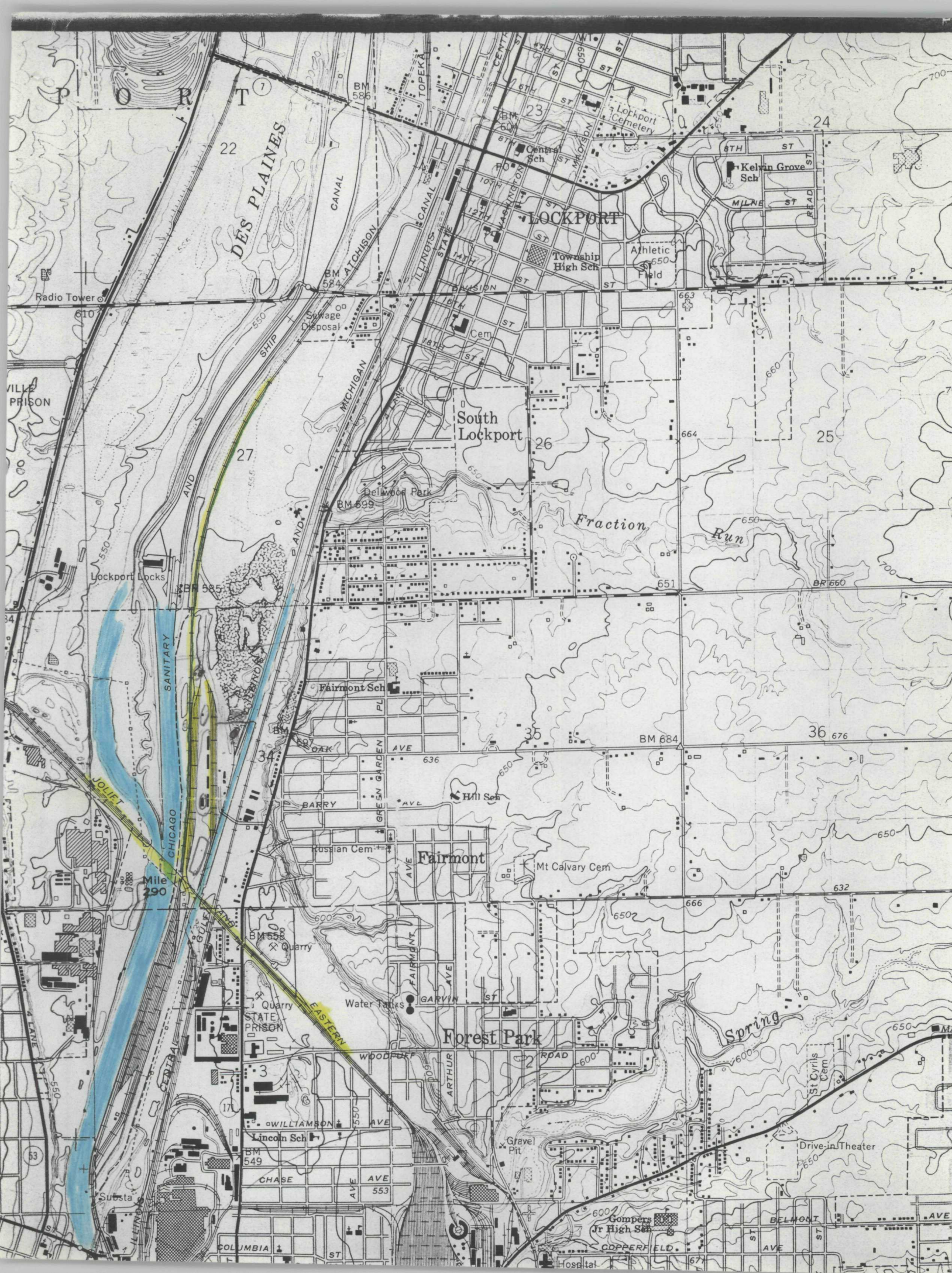
Specify Type of Document(s) / Comment

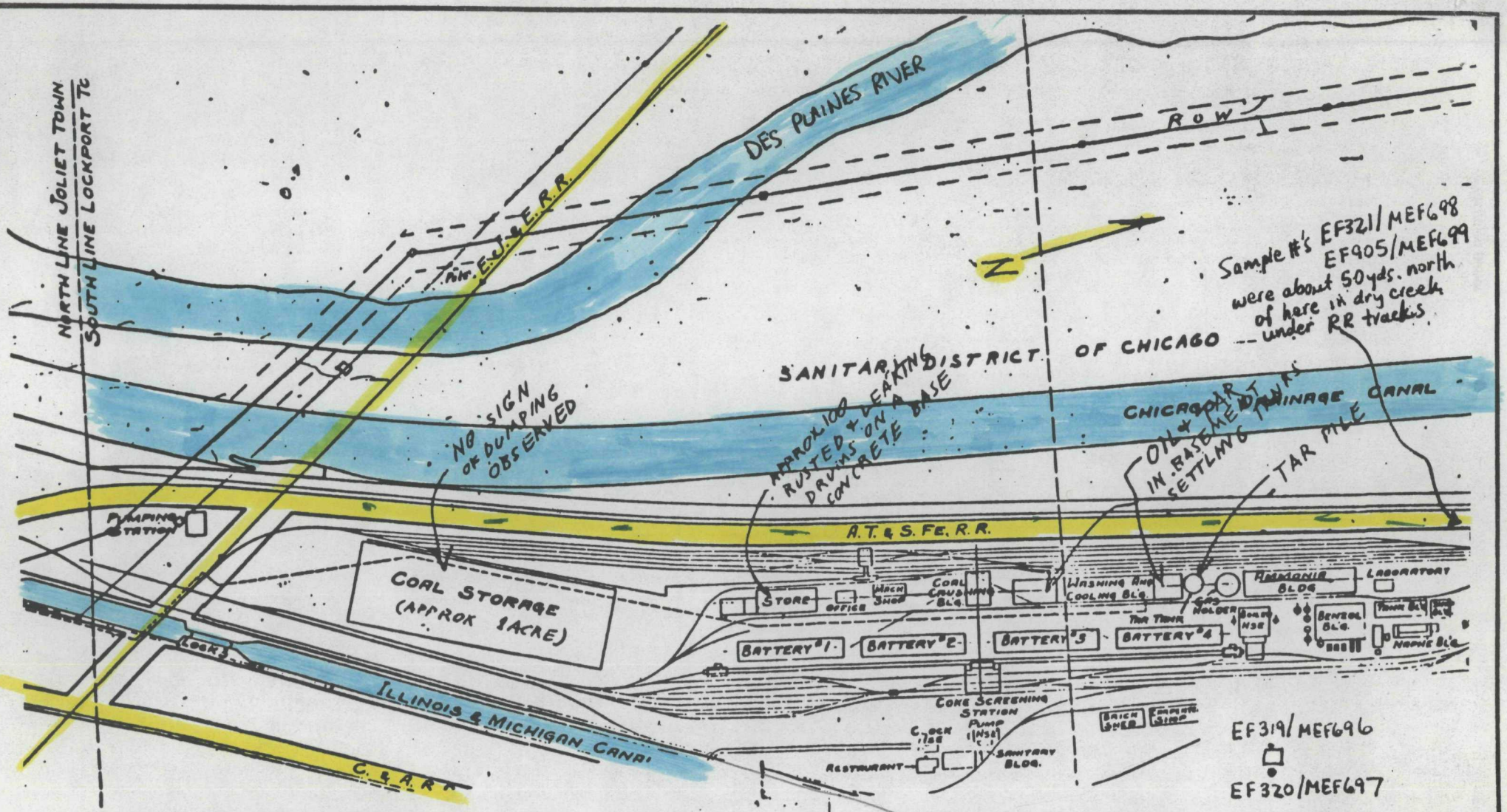
JOLIET MUNICIPAL WATER DISTRIBUTION MAP

☐ **Other:**


Northerly route
Bill's Excavating Property @ old U.S. Steel Coking Operation
Possible South entry route to Bill's Excavating
LOCKPORT
South Lockport
Fairmont
RIDGEWOOD
PLAINES
RIVER
CANAL
SANITARY
Crest-stage gage


PORT
DES PLAINES
CANAL
ATCHISON
TOPEKA
ILLINOIS
STATE
CANAL
LOCKPORT
Central Sch
Lockport Cemetery
Kelvin Grove Sch
MILNE ST
ROAD
Township High Sch
Athletic Field
Radio Tower
Sewage Disposal
Cem
SHIP
MICHIGAN
AND
South Lockport
Dellwood Park
Fraction Run
Lockport Locks
SANITARY
Fairmont Sch
OAK AVE
BARRY AVE
GREEN GARDEN
Hill Sch
Russian Cem
Fairmont
Mt Calvary Cem
JOLIET
CHICAGO
Mile 290
Quarry
STATE PRISON
Water Tanks
GARVIN ST
FAIRMONT AVE
Forest Park
Spring
WOODRUFF ROAD
ARTHUR
EASTERN
CENTRAL
WILLIAMSON AVE
Lincoln Sch
CHASE AVE
Substa
Gravel Pit
St Cyrils Cem
Drive-in Theater
Gompers Jr High Sch
BELMONT AVE
COPPERFIELD
COLUMBIA ST
Hospital


PORT
DES PLAINES
CANAL
TOPEKA
ATCHISON
ILLINOIS
STATE
MICHIGAN
AND
SHIP
SANITARY
CHICAGO
JOLIET
EASTERN
CENTRAL
LOCKPORT
Lockport Cemetery
Central Sch
Kelvin Grove Sch
Township High Sch
Athletic Field
Radio Tower
Sewage Disposal
Cem
South Lockport
Dellwood Park
Fraction Run
Lockport Locks
Fairmont Sch
Hill Sch
Russian Cem
Fairmont
Mt Calvary Cem
Mile 290
Quarry
STATE PRISON
Water Tanks
Forest Park
Spring
St Cyrils Cem
Lincoln Sch
Gravel Pit
Drive-in Theater
Substa
Gompers Jr High Sch
Hospital
BM 586
BM 584
BM 599
BM 585
BM 597
BM 684
BM 558
BM 549
BM 660
OAK AVE
BARRY AVE
GREEN GARDEN PL
FAIRMONT AVE
GARVIN ST
WOODRUFF ROAD
ARTHUR
WILLIAMSON AVE
CHASE AVE
COLUMBIA ST
COPPERFIELD AVE
BELMONT AVE
MILNE ROAD
8TH ST
WASHINGTON ST
MADISON ST
DIVISION ST
22
23
24
25
26
27
34
35
36
1
2
3



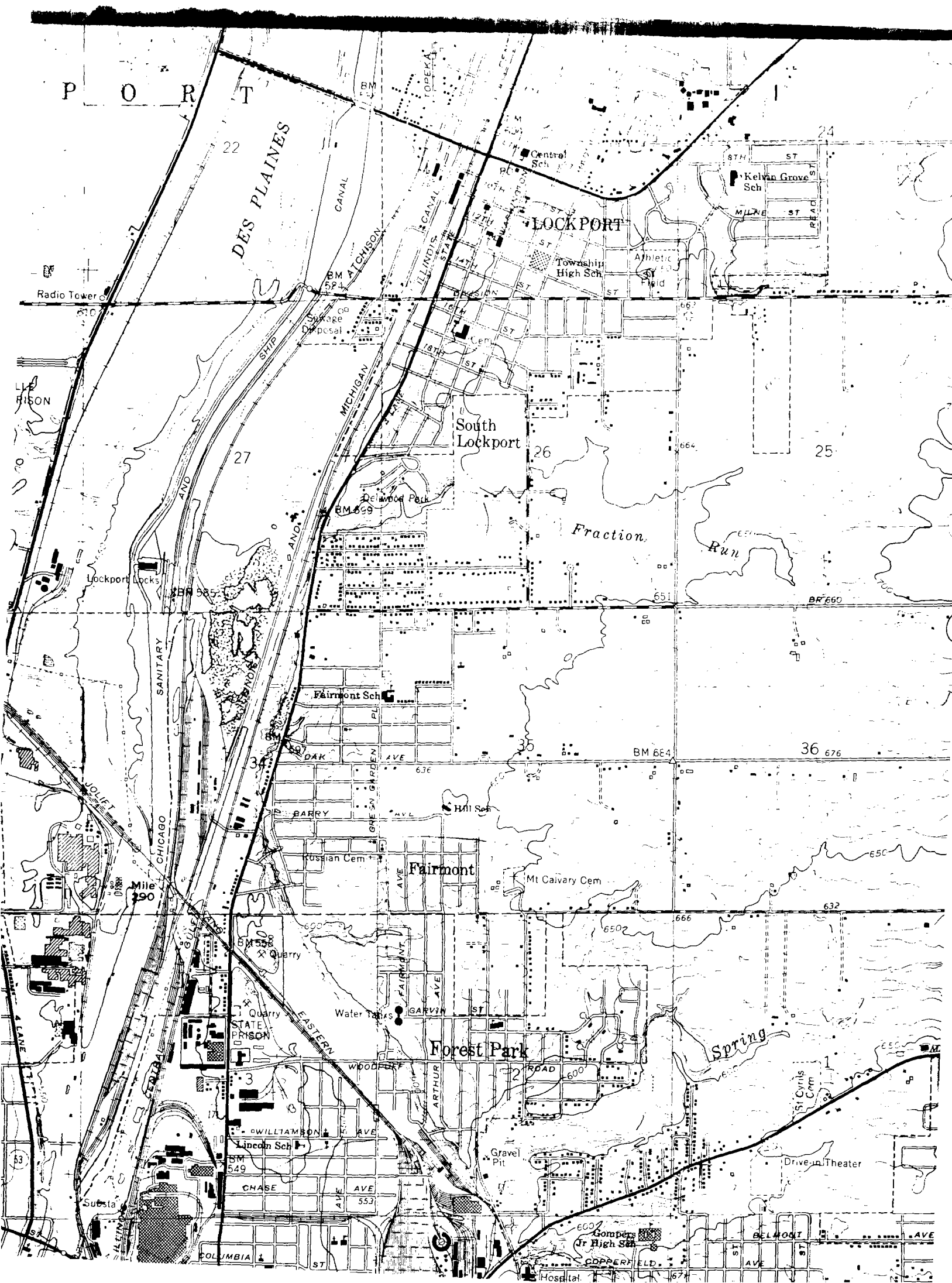
U S. STEEL BLUEPRINT OF FACILITY/AREA. PRODUCTION CEASED ABOUT 1930, AND REMAINS ARE IN RUINS.

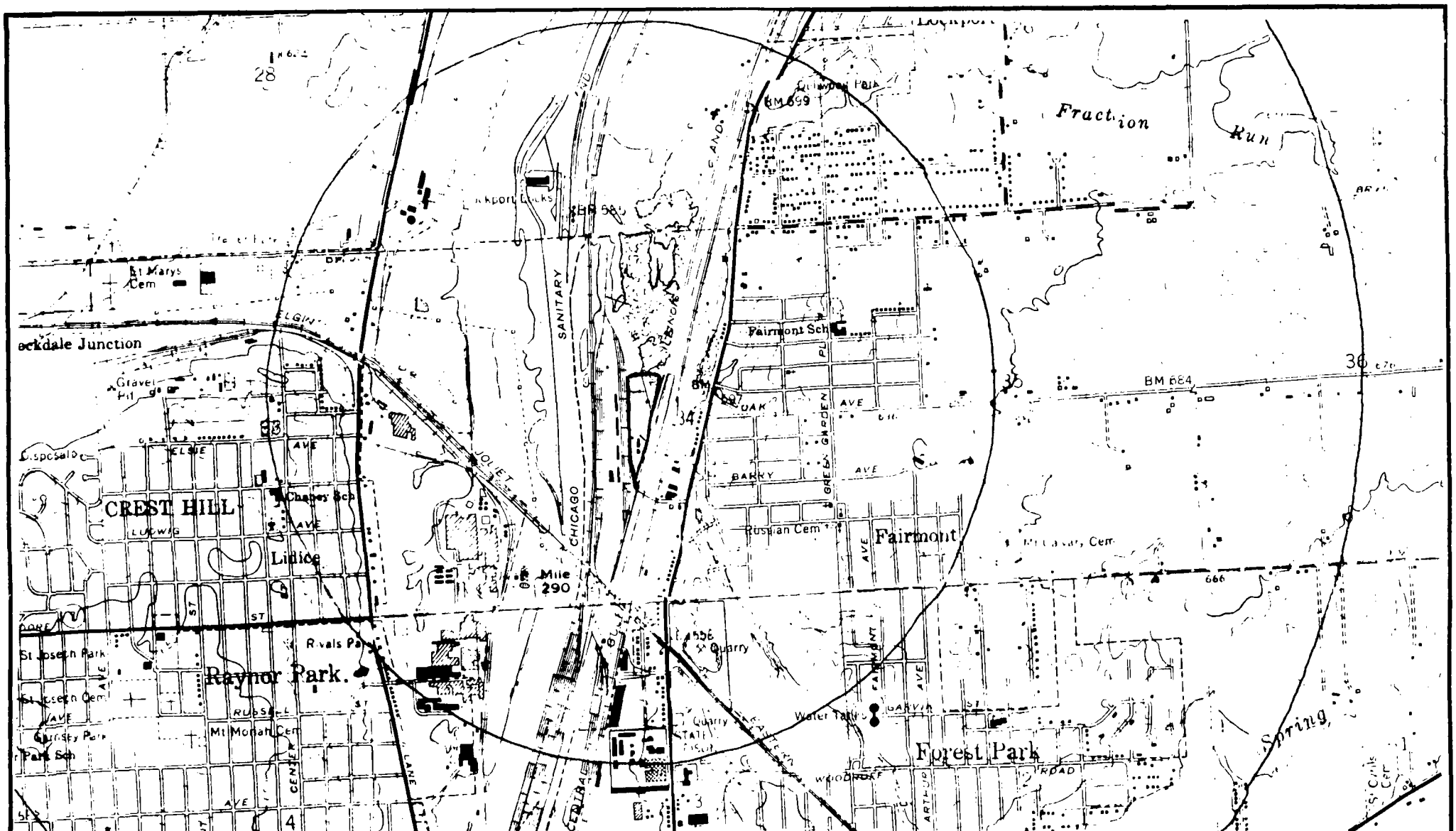
ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

SCALE: NONE		DRAWN BY unknown
DATE: unknown		REVISED N/A

BILL'S EXCAVATING R05-8303-01D

DRAWING NUMBER


PORT
DES PLAINES
CANAL
ATCHISON
ILLINOIS STATE
LOCKPORT
Central Sch
Kelvin Grove Sch
MILNE ST
Township High Sch
Athletic Field
Radio Tower
Sewage Disposal
SHIP
MICHIGAN
South Lockport
Delwood Park
Fraction Run
Lockport Locks
SANITARY
Fairmont Sch
OAK AVE
BARRY AVE
Hill Sch
Russian Cem
Fairmont
Mt Calvary Cem
JOLIET
CHICAGO
Mile 290
Quarry
STATE PRISON
EASTERN
Water Tanks
GARVIN ST
Forest Park
WOODFORD ROAD
ARTHUR
Spring
St Cyrils Cem
WILLIAMSON AVE
Lincoln Sch
Gravel Pit
Drive-in Theater
CHASE AVE
Substa
Gompers Jr High Sch
BELMONT AVE
COPPERFIELD AVE
COLUMBIA ST
Hospital



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

SCALE: 1:24000		DRAWN BY USGS
DATE: 1973 (P.R.)		REVISED N/A

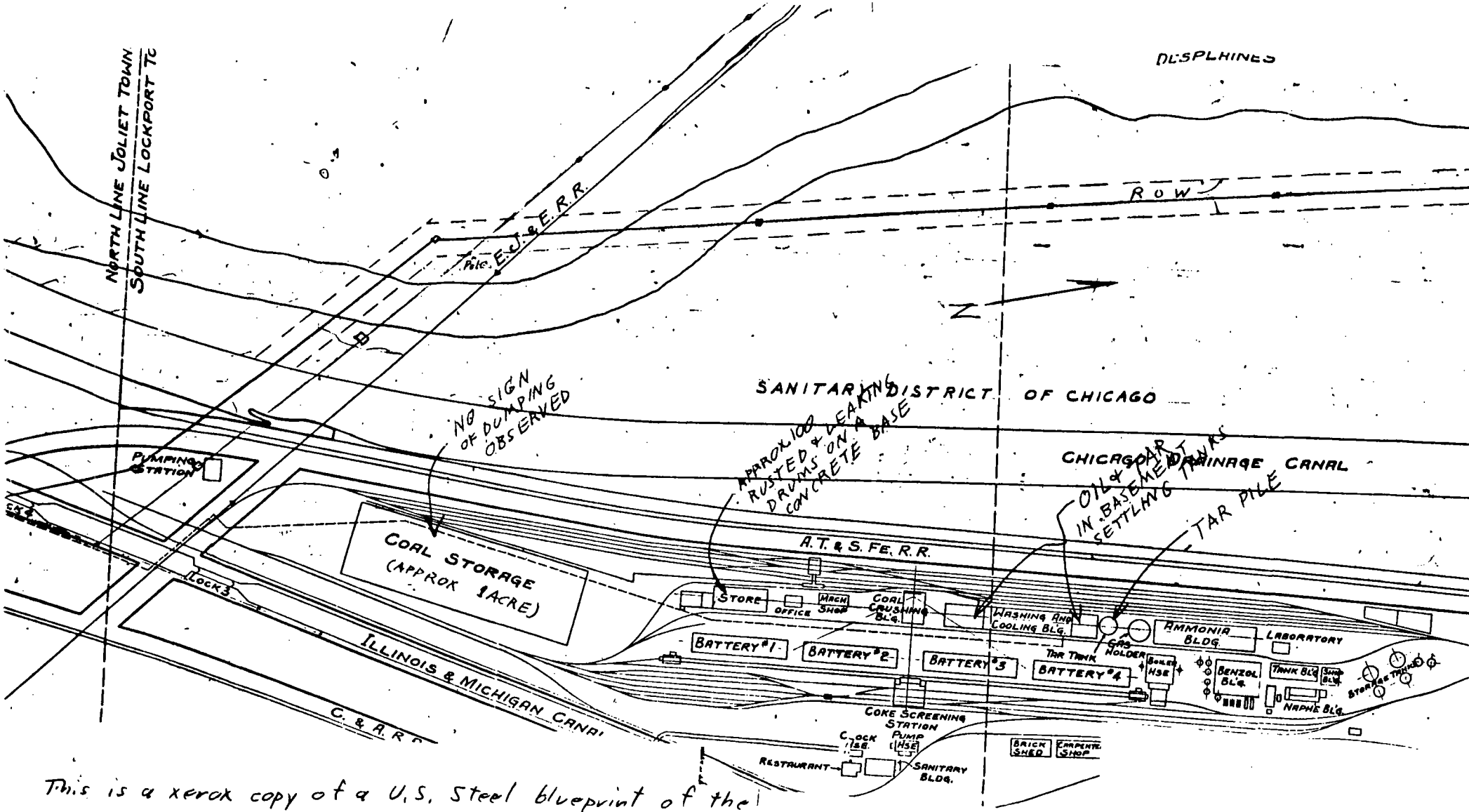
BILL'S EXCAVATING R05-8303-01D

JOLIET and PLAINFIELD, IL QUADRANGLES

DRAWING NUMBER

8½ X 11 PRINTED ON NO. 1000H-8 CLEARPRINT FADE-OUT

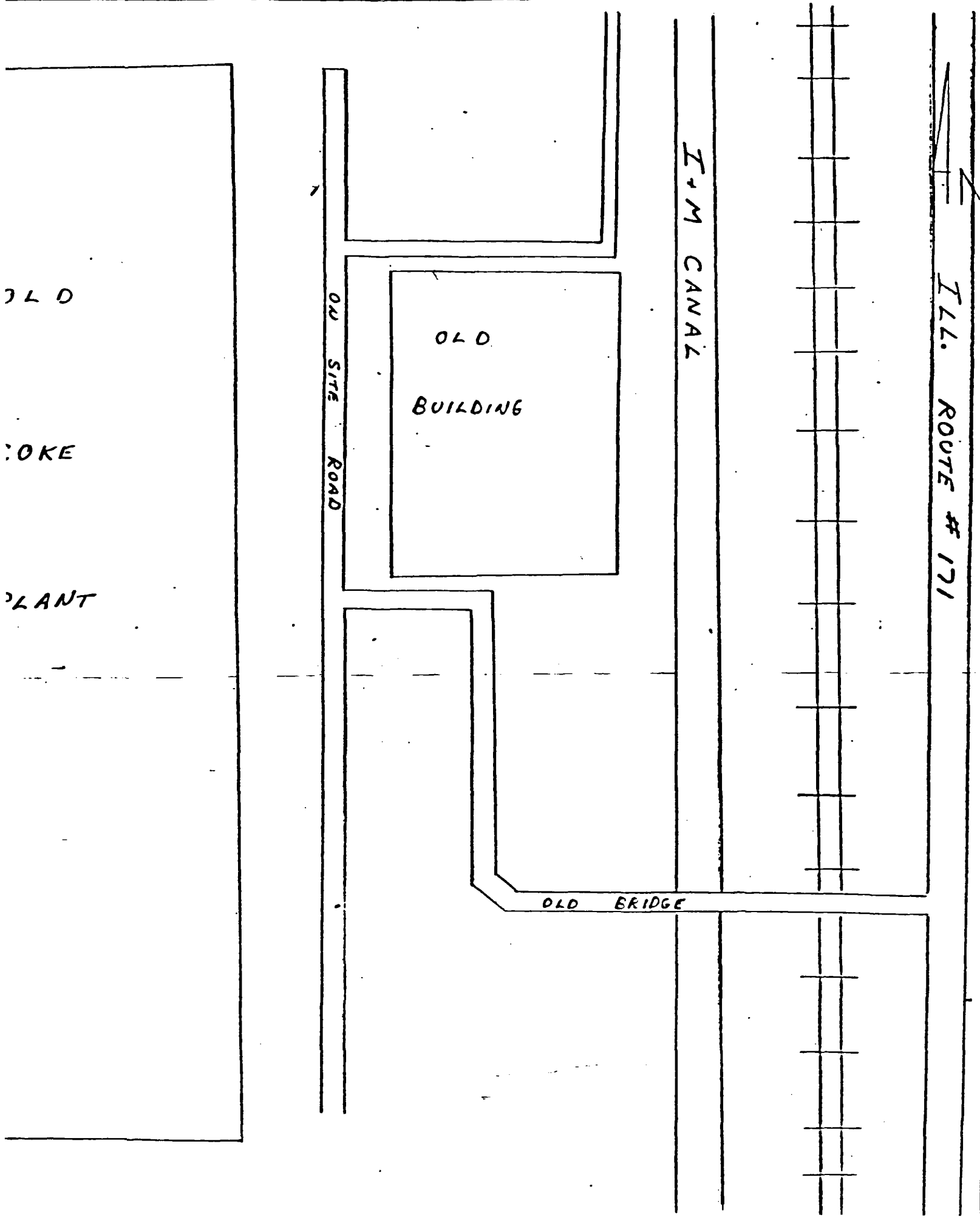
Bill's Excavating & Landscaping
2215 Lockport Rd.
Lockport, Illinois
Inspectors: Rich Boice & Erin Moran
Dates: 8/11-12/80



This is a xerox copy of a U.S. Steel blueprint of the one's time coking facility. The coking operation was discontinued approx. 1930 and the remains are in ruins. The drum storage and other present waste storage sites are identified.

WILL COUNTY - LPC 19705005 DATE:

LOCKPORT I.T.P.G. ENTERPRISES TIME:

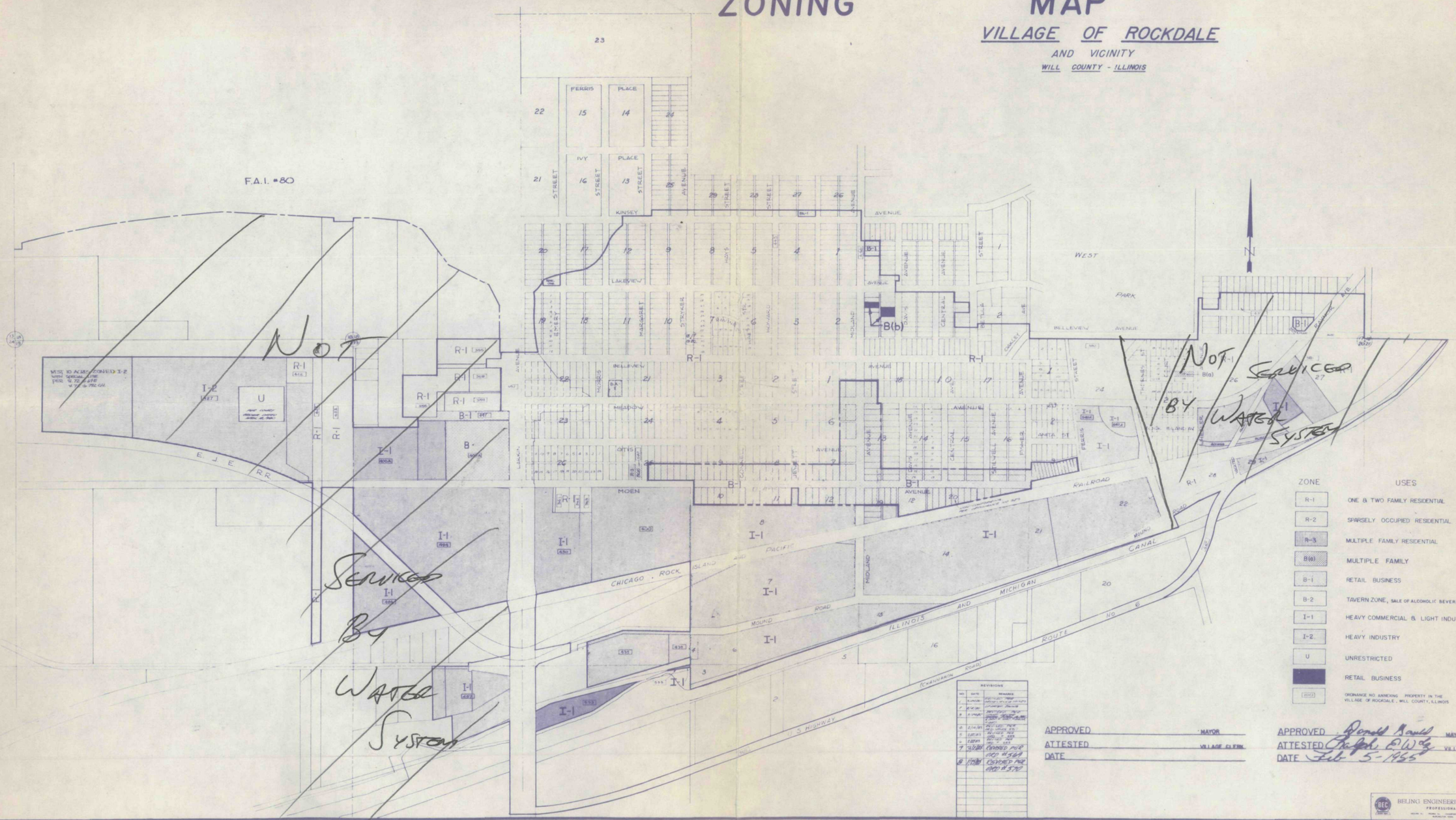


ZONING MAP

VILLAGE OF ROCKDALE

AND VICINITY

WILL COUNTY - ILLINOIS



Mr. Phillip Kaplan
USEPA

FROM A. Giedraitis
MSDGC - Ind. Waste Div.

SUBJECT Bill's Excavating Co - Lockport

DATE 7/30/80

MESSAGE Attached is a copy of the USGS map for the sector of Lockport where this facility is located. This is an old coking operation previously run by U.S. Steel. Approximately 200 drums with about half of those full of an oily residue (very rusty & old) are located at the SW end of the site on the concrete pad of an old building. We do have color slides of the site in our possession.

SIGNED Allen Giedraitis

REPLY

Give this Map to S & A

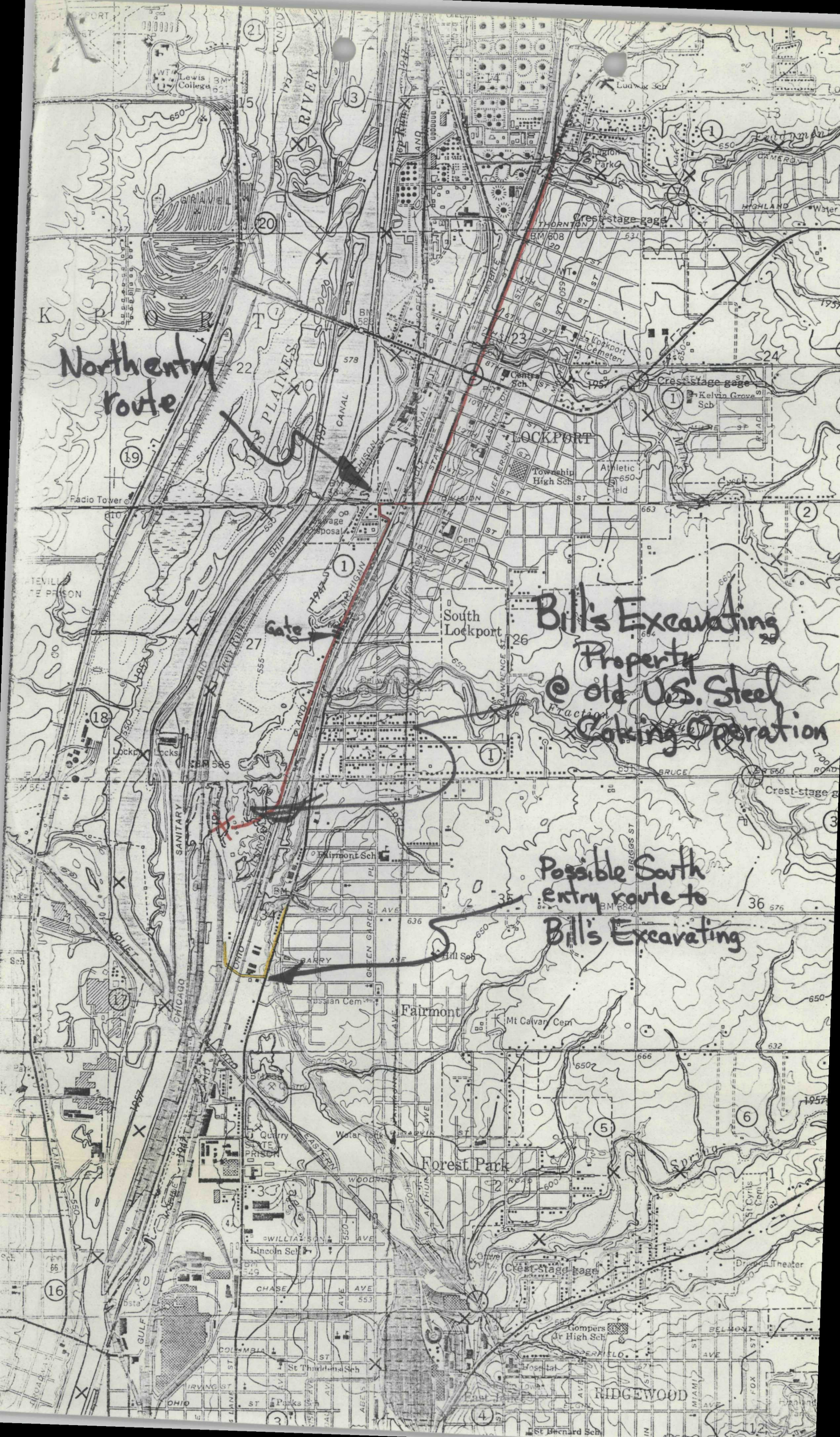
SIGNED

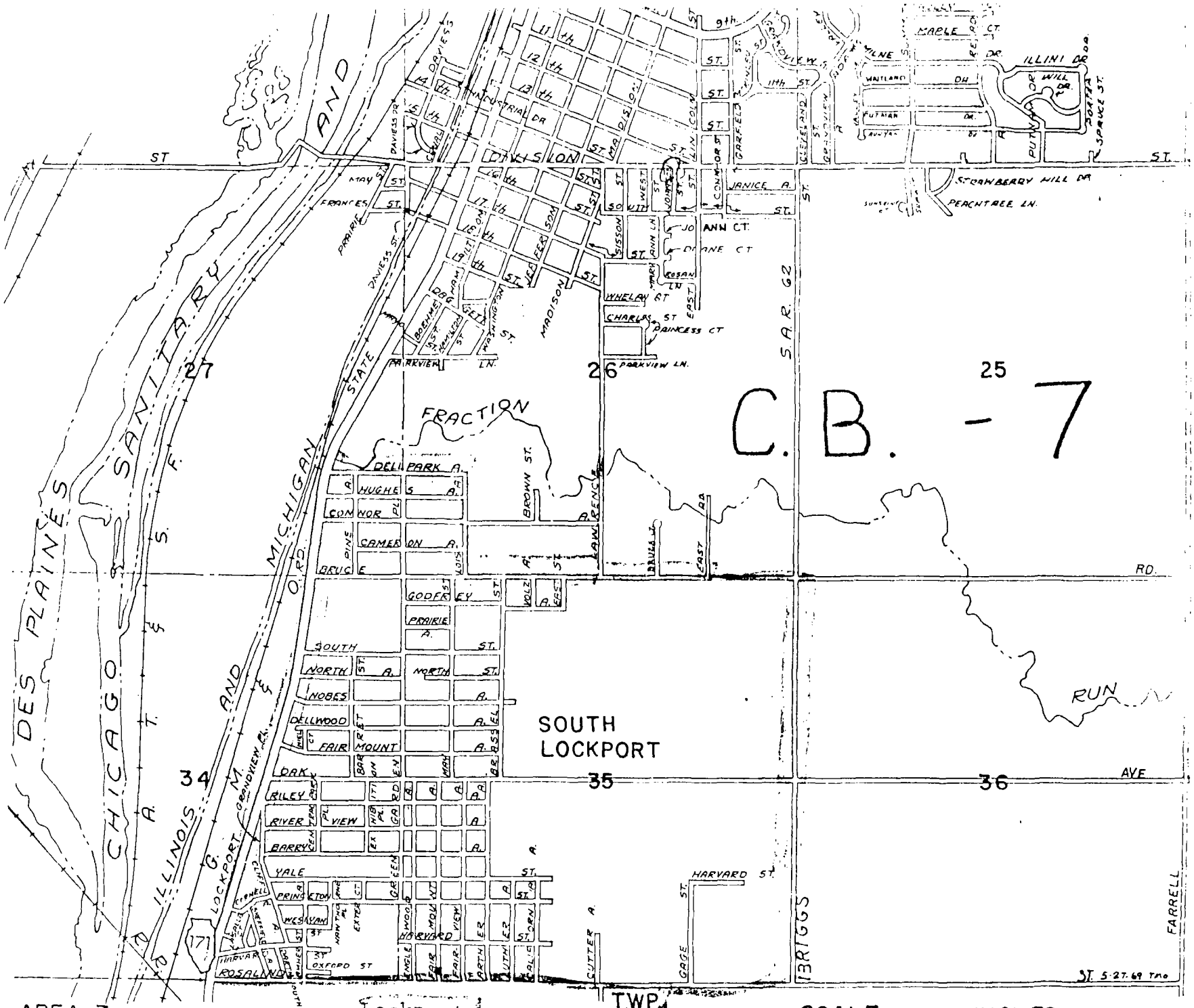
DATE / /

REDIFORM 4S 472

SEND PARTS 1 AND 3 WITH CARBON INTACT - PART 3 WILL BE RETURNED WITH REPLY.

POLY PAK (50 SETS) 4P477


Northentry route
Bill's Excavating Property @ old U.S. Steel Coking Operation
Possible South entry route to Bill's Excavating
Gate
LOCKPORT
South Lockport
Fairmont
Forest Park
RIDGEWOOD
Crest-stage gage
Lewis College
Legion Park
Lockport Cemetery
Central Sch
Kelvin Grove Sch
Township High Sch
Athletic Field
Radio Tower
Sewage Disposal
Fairmont Sch
Hill Sch
Mt Calvary Cem
Quarry
Water Park
Lincoln Sch
St Thaddeus Sch
Gompers Jr High Sch
St Bernard Sch
DEEP RUN
DES PLAINES RIVER
CANAL
SANITARY
CHICAGO
JOLIET
GULF
EASTERN
BELMONT
CHASE
BRUCE
BARRY
GREEN GARDEN
WOODS
WILLIAMSON
THORNTON
HIGHLAND
CAMERON
LAWRENCE
BRIGGS
COLUMBIA
IRVING
OHIO
ABEL
MIAMI
FOX
ANTHONY
CHAPIN
STATE
MICHIGAN
JEFFERSON
MADISON
HUDSON
SHIP
PLAINES
BRIDGE
LINE
ROAD
AVE
ST
PL
BM 608
BM 585
BM 684
BM 549
BM 553
BM 636
BM 663
BM 666
BM 632
BM 650
BM 576
BM 600
BM 550
BM 530
BM 555
BM 564
BM 578
BM 584
BM 634
BM 660
BM 684
Spring
Water
Cemetery
St Cyril Cem
Drive-in Theater
Hospital
Parks Sch
East Park
Lockport
Locks



AREA 7 Lockport

SCALE: 3 INCHES TO 1 MILE

CONGRESSIONAL 4
SENATORIAL 42
REPRESENTATIVE 84
COUNTY BOARD 3 & 7

©1979
CLARA HARTLEY WOODARD