REDACTED VERSION

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

DATE: September 30, 1988

SUBJECT: Laboratory Results for Air Center, OK (8TFAFB29)

FROM: Diana Ayers, Chief, Houston Branch; 6E-H

TO: James Stiebing, Chief, Surveillance Branch; 6E-S

ATT: Dave Wineman

Attached are the analytical results for the subject site. Seven samples were received on August 23, 1988 to be analyzed for lead only.

This is a final report.

Attachments

9796615

FILE OKD70 - -

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
ALLIED BANK TOWER AT FOUNTAIN PLACE
1445 ROSS AVENUE
DALLAS, TEXAS 75202

DATE: 9/23/88
SUBJECT: FIT TASK REQUEST
FROM: DAVID COOK
TO: DAVE WINEMAN (6E-SH)

Please task FIT to complete the following work:

☑ New Assignment
☐ Amendment

**Key EPA Contact:**
Name: DAVID COOK Phone: 214-655-6740

**SSID Number:** LZ99

**CERID Number:** OKD980750319

**EPA Site Name:** AIR CENTER INC. - WILEY POST AIRPORT

**City/County/State:** OKLA./OKLA./OKLA.

**Desired Report Format:**
☑ Formal Report ☐ Standard Report ☐ Other (Specify):
☑ Letter Report ☐ Formal Briefing

**Type of Activity:**
☐ PA ☑ HRS Support ☐ Enforcement Support ☐ General Technical Assistance
☐ SI ☐ Special Studies
☐ ESI

**General Task Description:** SAMPLE DRINKING WATER SUPPLY WELL FOR THE COMMUNITY OF SILVERLAKE, OKLAHOMA. ANALYZE AS A DRINKING WATER SAMPLE. CONTACT JIM HICKS AT 405-721-5036. MR. HICKS IS DESIGNATED CONTACT PERSON FOR THE SILVERLAKE WELL.

**Specific Elements:**

☐ Additional Scope Attached

CONCURRENCE: BH 9 23 88
Martha M. McKee, Chief — Jo Ann Miller

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
ALLIED BANK TOWER AT FOUNTAIN PLACE
1445 ROSS AVENUE
DALLAS, TEXAS 75202

DATE: 8/3/88
SUBJECT: FIT TASK REQUEST
FROM: DAVID T. COOK
TO: DAVE WINEMAN (6E-SH)

Please task FIT to complete the following work:

☑ New Assignment
☐ Amendment

**Key EPA Contact.**
Name DAVID COOK (6H-ES) Phone 214-655-6740

**SSID Number:** 64

**CERID Number.** OKD986750319

**EPA Site Name:** AIR CENTER INC.

**City/County/State** OKLA. / OKLA. / OKLA.

**Desired Report Format:**
☑ Formal Report ☐ Standard Report ☐ Other (Specify)
☐ Letter Report ☐ Formal Briefing

**Type of Activity**
☐ PA ☐ HRS Support ☐ Enforcement Support ☑ General Technical Assistance
☐ SI ☐ Special Studies
☐ ESI

**General Task Description:** RESAMPLE CITY OF BETHANY WELLS #21 AND #23 AND ANALYZE FOR LEAD. Analyze as a drinking water sample.

**Specific Elements:**

☐ Additional Scope Attached

CONCURRENCE: Martha M. McKee, Chief

Jo Ann Miller

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
ALLIED BANK TOWER AT FOUNTAIN PLACE
1445 ROSS AVENUE
DALLAS, TEXAS 75202

DATE: 8/2/88
SUBJECT: FIT TASK REQUEST
FROM: DAVID COOK (6H-ES)
TO: DAVE WINEMAN (6E-SH)

Please task FIT to complete the following work:

☑ New Assignment
☐ Amendment

**Key EPA Contact.**
Name DAVID T. COOK Phone 214-655-6740

**SSID Number:** 64

**CERID Number:** OKD980750319

**EPA Site Name:** AIR CENTER INC.

**City/County/State.** OKLA./OKLA./OKLA.

**Desired Report Format:**
☑ Formal Report ☐ Standard Report ☐ Other (Specify).
☐ Letter Report ☐ Formal Briefing

**Type of Activity.**
☐ PA ☑ HRS Support ☐ Enforcement Support ☐ General Technical Assistance
☐ SI ☐ Special Studies
☐ ESI

**General Task Description:** REVISE PRELIMINARY HRS PER ATTACHED INSTRUCTIONS / COMMENTS.

**Specific Elements:**

SEE ATTACHED COMMENTS

☐ Additional Scope Attached

CONCURRENCE: Martha M. McKee, Chief  Jo Ann Miller

David Cook
6H-ES

Regional QA Review Comments for Air Center Inc.-
Wiley Post Preliminary HRS Package (OKD980750319)
August 1, 1988

General - Update preliminary HRS package (including: narrative summary, score work sheets, documentation records and references), based upon data collected subsequent to its initial submittal to the EPA.

Specific - First sentence, paragraph two of narrative summary: replace supposedly with allegedly.

- First sentence, paragraph three of narrative summary: ref. 16 does not support information; correct this.

- Based upon a search of EPA CERCLA/RCRA files, identify and describe any nearby facilities which may handle or have handled hazardous wastes similar to those associated with this facility and comment on the potential contribution these sites may have had toward the contamination detected while investigating this facility. Especially of interest should be the Gulfstream Aerospace or Gulfstream American Company.

**RECORD OF COMMUNICATION**

☐ PHONE CALL ☐ DISCUSSION ☐ FIELD TRIP ☐ CONFERENCE
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: David Cook
Presley Hatcher (6H-ES)
Superfund Site Assessment Sect

FROM: Nancy Jenner (6W-SP)
OK PWS Prog. Mgr.

DATE 8-1-88

TIME 8:30 am

SUBJECT

Air Center Inc (OKD980750319)

SUMMARY OF COMMUNICATION

In reference to the memorandum dated July 27, 1988, concerning Air Center Inc., located in Bethany, OK, the Okla. State Dept. of Health, Public Water Supply Section has been notified of the results of the sampling done Jan. 4, 1988. The State replied that the city of Bethany operates a lime softening water treatment plant and further indicated that Bethany's water supply is blended (water mixed together from all wells) prior to distribution. The State conducts regular chemical analyses of the water sampling at the tap. The State reports no prior lead std. violation. The State requested the sampling results to review. They further requested that the results be confirmed. They also asked that the City of Bethany's water superintendent be informed of the results when we decide to resample and confirm.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

I am requesting a meeting with you and Ed Jeffrey to discuss this issue.

INFORMATION COPIES

TO: Tom Love, Ed Jeffrey, File SFD 24-

R6-123 (2-84)

JUL 2 7 1988

MEMORANDUM

SUBJECT: Air Center Inc. (OKD980750319)

FROM: Presley B. Hatcher, Acting Chief
Superfund Site Assessment Section (6H-ES)

TO: Tom Love, Chief
Public Water Sup. (6W-SP)

Recently we received the results from water well sampling which occurred in Oklahoma at the City of Bethany's municipal wells no. 21 and no. 23 during the week of January 4, 1988. These results indicate concentrations of lead in these wells that are significantly higher than the primary drinking water standard of 50 ppb (see attached report). We are requesting your assistance in determining whether these wells should be resampled and requesting that 6W-SP contact the City of Bethany and the Oklahoma State Department of Health and inform them about the results of the recent sampling.

If you have any questions concerning this matter, please contact David Cook at X6740.

bcc: David Cook

6H-ES:COOK :CS:7/25/88:Disk #3:Sub#29:Doc#4 :p-1: x6740/6725

11 MAR 1988

| In Reference to Case No(s): |
|---|
| KB11 |

**Contract Laboratory Program**
**REGIONAL/LABORATORY COMMUNICATION SYSTEM**
**Telephone Record Log**

Date of Call: 2/22/88

Laboratory Name: ETC / Tuscaloosa
Lab Contact: Charlie Westerman
Region: VI
Regional Contact: Harvey Kerrigh

Call Initiated By: ____ Laboratory ✓ Region

In reference to data for the following sample number(s):
F6247

Summary of Questions/Issues Discussed:
Follow up of original question (2). Phenol concentration in F6247 was approximately 238. What was the reduction the linear range?

Summary of Resolution:
Follow up of the original discussion of question (2). The final extract concentration value of 185.60 is 16% above the upper limit of the 160 high level standard.

Charlie R. Westerman 03/10/88
Signature Date

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

| In Reference to Case No(s): |
|---|
| 8811 |

**Contract Laboratory Program**
**REGIONAL/LABORATORY COMMUNICATION SYSTEM**
**Telephone Record Log**

**Date of Call:** 02/27/88

**Laboratory Name:** ETC/Toxicon
**Lab Contact:** Charlie E. Westerman
**Region:** VI
**Regional Contact:** Harry Kreisch

**Call Initiated By:** ____ Laboratory ✓ Region

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

FG 247
FG 255
FG 264

**Summary of Questions/Issues Discussed:**

(1) Two acid surrogates were out in each of samples FG 255 & FG 264: no explaination was advanced
✓ (2) Phenol concentration in FG 247 was approximately 238 What was cutoff for linear range?
✓ (3) Continuing calibration 01/27/88 RIC chromatogram missing
✓ (4) Quan Report multiplier sample FG 264 incorrect.

**Summary of Resolution:**

(1) Two acid surrogates were out in each of samples FG 255 & FG 264. There is no apparent explaination for these surrogates being out. Further, there is no explaination why these samples were neither reinjected or reextracted from ...
(2) The FG 247 phenol Quan List concentration is 10170.300 utilizing a Finnigan factor of 42 740. This corresponds to an extract concentration of 237.957 However, since this sample contained 30 percent moisture, the observed sample extract concentration without any correction was only 185 601 & is well within the customary linear range of the calibration curve. Items (3) & (4) continued following ...

Charlie E. Westerman
Signature

03/08/88
Date

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

(3) There is no apparent explanation why the base/neutral/acid reconstructed ion current chromatogram for 01/27/88 (page 64139) should be missing from your copy of the data package. A copy of page 64139 is included in the response.

(4) The Finnigan Factor of 38.31 employed for the base/neutral/acid fraction of sample FG264 is incorrect and should actually be 39.68. This gives rise to an error of 3.45%. No base/neutral/acid HSL compounds were detected in this sample. The 38.31 factor corresponds to a percent moisture of 13 percent whereas the percent moisture was actually 16 percent. Page 63782 with the erroneous Finnigan Factor has been corrected. No corrections are required for the Form I page 2 answer sheet.

Charlie G Westerman 03/08/88

**FORM OF PAYMENT** *

CASH ☐ GBL CBL ☐ FCCOD ☐

PPD ☒ COL ☐ OTH ☐ COMAT ☐

**EMERY WORLDWIDE**

0 3 7 1 8 4 2 2 6 2

**UNITED STATES / CANADA** — STANDARD SERVICES *

Same Day ☐ Other ☐
Next Morning ☒ Metro ☐
Second Morning ☐

**INTERNATIONAL** — STANDARD SERVICES *

Courier Express ☐ Busine Docume
Air Cargo Service ☐ Custo Cleara
Air Economy Service ☐ Deli

E Shippers Emery Account Number: 094186483

Date: 3/8/88 | Origin: BTR | Shipment Number: 037184226

From:
Dr. C. E. Westerman (504)925-5012
ETC TOXICON LABS INC
3213 MONTERREY BLVD
BATON ROUGE, LA
Canada ☐
Customer's Reference Numbers: Phone Log 8811
Zip: 70814

To:
David Stockton
USEPA Region VI
6608 Hornwood Dr, Monterey Pk P
Houston TX
Canada ☐
E Consignee's Emery Account No.
Zip: 77074

Saturday Delivery ☐
Tariff Dest.
Check to Shipper $
Hold at Airport ☐

Emery will coll consignee's ch made payable to the shipper the value of th goods in the a shown above.

| Description and Marks | Dimensions Pcs. | L | W | H | Total Pieces | Total Weight (In Lbs.) |
|---|---|---|---|---|---|---|
| P/M | | | | | | |

TODSR ☐ Haz Mat ☐ Edit ☐ A B C D E F G H I J

1 2 3 4 5 6
7 8 9 0 1 2

Envelope 9X12 ☒ 12X15 ☒ Pack

Shipper's Signature X Charles Westerman

77074

Terms and Conditions on Back

International Charges: Free Domicile ☐
Comm. Code
Third party Emery Account Number mandatory for Third party billing
E Third Party Emery Account No.

Multiple Shpts. / D
1 2 3 4
7 8 9 0
Over 32 →

At Origin
Base Charge
At Destination
TOTAL

Intl. Customs Value
Intl. Insurance
Total Transportation Charges
Other Charges ☐ OC– $

Rec'd By Emery
Time Received 16:08
Date Received 3
Goods Rec'd At: Shippers Door ☒ Drop Box ☐ A Emery Terminal ☐ Carrier Advance ☐ B
By: Emery Representative.

In Reference to Case No(s): 8811

**Contract Laboratory Program**
**REGIONAL/LABORATORY COMMUNICATION SYSTEM**

**Telephone Record Log**

**Date of Call:** February 22, 1988

**Laboratory Name:** ETC Toxicon
**Lab Contact:** Dr. Charles Westerman
**Region:** VI
**Regional Contact:** Harry Kreigh- NSI

**Call initiated by:** _____ Laboratory  X Region

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

BNA FG-247, FG-255, FG-264

**Summary of Questions/Issues Discussed:**

1) Sample FG-255 and FG-264 each had two acid surrogates out of QC limits but were not reanalyzed? Why not?

2) The phenol concentration in the extract from sample FG-247 exceeded the linear calibration range (238 ng/ul). Why wasn't it diluted and reanalyzed? What is the upper cut-off for dilution?

3) The RIC for the continuing calibration on 1/27/88 was omitted.

4) The multiplier for sample FG-264 was incorrect. The values in the quantitation report were too high by 10-11x.

**Summary of Resolution:**

Dr. Westerman will review the data and submit a response. Omitted or incorrect items will be resubmitted.

Signature  Feb. 22, 1988
Date

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

In Reference to Case No(s):
8811
SDG# MFF456

**Contract Laboratory Program**
**REGIONAL/LABORATORY COMMUNICATION SYSTEM**
**Telephone Record Log**

**Date of Call:** 2-18-88

**Laboratory Name:** SPECTRIX, HOUSTON
**Lab Contact:** CANDY FRIDAY
**Region:** VI
**Regional Contact:** MAHMOUD EL-FEKY

**Call Initiated By:** ___ Laboratory ✓ Region

**In reference to data for the following sample number(s):**
MFE 794, 795 & 503, MFF427-435, MFF456-458

**Summary of Questions/Issues Discussed:**
1- CONCENTRATION VALUES OF PREPARATION BLANKS OF WATER AND SOLID MATRIX ARE SWITCHED AROUND.
2- ICP SERIAL DILUTION - SOIL, %D OF Ba, Be, Co, Cu, K, V & Zn ARE OUTSIDE CRITERIA !?
3- %R OF Cr & Se, OF THE LCS ARE OUTSIDE THE LIMITS. N.C.

**Summary of Resolution:**
RESUBMISSION OF CORRECTED DATA WILL BE FORWARDED WITH THE CCS RESPONSE.

M. Elfeky
Signature

2-18-88
Date

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

RECEIVED
88 FEB 22 PM 1:22

February 16, 1988

MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples

FROM: Diana Ayers, Chief, Houston Branch; 6E-H

TO: Charles Gazda, Chief, Emergency Response Branch; 6E-E

The Houston Laboratory is required to dispose of all hazardous wastes we generate in a manner consistent with RCRA regulations. This includes all samples received for analysis provided we find them to contain contaminants which classify them as RCRA hazardous wastes.

I have included this memorandum in the final analytical report to serve as notice to the program that we have completed all analysis. If we have any of the original sample remaining after analysis is complete we will dispose of it within 90 days. Please note that even though original sample may be left over, it does not mean that a reanalysis of the sample may be requested since the sample has most likely exceeded its holding time and any subsequent analysis may not be valid.

If you have a need to hold these samples in custody longer than 90 days, please sign below and return this memorandum to me within the next 30 days. Also, state briefly your need to hold these samples in custody.

Thank you for your cooperation in this request.

Air Center (8TFAKC10)

_____
Facility Name

_____
Program Manager Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

DATE: February 16, 1988

SUBJECT: Laboratory Results for Air Center (8TFAKC10)

FROM: Diana Ayers, Chief, Houston Branch; 6E-H

TO: Charles Gazda, Chief, Emergency Response Branch; 6E-E

Attached are the results for the subject site. Five soil samples was received on 1/19/88 for ABN, VOA, PCB/Pesticides Metals, Phenols and Cyanide.

This is a final report.

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

Date: February 16, 1988

Subject: Laboratory Results for Air Center, Inc.

From: M. Kendall Young, Chief, Inorganic Section

To: Diana G. Ayers, Chief, Houston Branch

Attached are laboratory results for the subject site. Five (5) soil samples were received on 1/20/88 to be analyzed for metals, cyanide and phenols.

The laboratory numbers assigned were 8TFAKC1001 through 8TFAKC1005.

This is a final report.

Attachments (5)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

Date: February 16, 1988

Subject: Organic Laboratory Results for Air Center, Inc.

From: Michael Daggett, Chief, Organic Section, 6E-HO

To: Diana G. Ayers, Chief, Houston Branch, 6E-H

Attached are the Organic Laboratory results for samples 8TFAKC1001 thru 8TFAKC1005. These samples were analyzed for ABNs, VOAs, pesticides and PCBS. Phthalates were the only target compounds detected.
This is a final report.

Date: 02/16/88

Appendix I

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAH C10 Date Recvd: 01/20/88 Date Collected: 01/19/88
Sample Number: 1 Time Recvd: 10:00 Time Collected: 11:25

Source: AIR CENTER, INC Tag Number:
Site Description: S1A#1 DRAINAGE DITCH
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN OH-
Biology:

Due Date: 02/19/88
Date Projected: 02/19/88
Date Completed: 02/16/88
Comment:
Your Initials: LC

Attachment 1

# ORGANIC ANALYSIS DATA

GCS-HL SAMPLE NO.: 8TFAKC10-01 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | COMPOUND | ug/KG |
|---|---|---|---|
| Phenol | nd dl=1400 | Acenaphthene | nd dl= 700 |
| bis(2-Chloroethyl) Ether | nd dl= 700 | 2,4-Dinitrophenol | nd dl=10500 |
| 2-Chlorophenol | nd dl=1400 | 4-Nitrophenol | nd dl= 2800 |
| 1,3-Dichlorobenzene | nd dl= 700 | Dibenzofuran | nd dl= 700 |
| 1,4-Dichlorobenzene | nd dl= 700 | 2,4-Dinitrotoluene | nd dl= 2100 |
| Benzyl Alcohol | nd dl=1400 | 2,6-Dinitrotoluene | nd dl= 2100 |
| 1,2-Dichlorobenzene | nd dl= 700 | Diethylphthalate | nd dl= 700 |
| 2-Methylphenol | nd dl=2100 | 4-Chlorophenylphenyl Ether | nd dl= 2800 |
| bis(2-chloroisopropyl)Ether | nd dl= 700 | Fluorene | nd dl= 700 |
| 4-Methylphenol | nd dl= 210 | 4-Nitroaniline | nd dl= 2800 |
| N-Nitroso-Di-n-Propylamine | nd dl=2100 | 4,6-Dinitro-2-Methylphenol | nd dl= 7000 |
| Hexachloroethane | nd dl= 700 | N-Nitrosodiphenylamine | nd dl= 1400 |
| Nitrobenzene | nd dl= 700 | 4-Bromophenylphenyl Ether | nd dl= 2800 |
| Isophorone | nd dl=1400 | Hexachlorobenzene | nd dl= 700 |
| 2-Nitrophenol | nd dl=3500 | Pentachlorophenol | nd dl= 5250 |
| 2,4-Dimethylphenol | nd dl=2100 | Phenanthrene | nd dl= 700 |
| Benzoic Acid | nd dl=3500 | Anthracene | nd dl= 700 |
| bis(2-Chloroethoxy)Methane | nd dl= 700 | Di-n-Butylphthalate | nd dl= 700 |
| 2,4-Dichlorophenol | nd dl=2100 | Fluoranthene | nd dl= 700 |
| 1,2,4-trichlorobenzene | nd dl= 700 | Benzidine | nd dl= 7000 |
| Naphthalene | nd dl= 700 | Pyrene | nd dl= 700 |
| 4-Chloroaniline | nd dl=1400 | Butylbenzylphthalate | 3920 |
| Hexachlorobutadiene | nd dl= 700 | 3,3'-Dichlorobenzidine | nd dl= 3500 |
| 4-Chloro-3-Methylphenol | nd dl=2800 | Benzo(a)Anthracene | nd dl= 2800 |
| 2-Methylnaphthalene | nd dl= 700 | bis-(2-Ethylhexyl)Phthalate | 2800 |
| Hexachlorocyclopentadiene | nd dl=3500 | Chrysene | nd dl= 2800 |
| 2,4,6-Trichlorophenol | nd dl=2100 | Di-n-Octyl Phthalate | nd dl= 1400 |
| 2,4,5-Trichlorophenol | nd dl=2100 | Benzo(b)Fluoranthene | nd dl= 2800 |
| 2-Chloronaphthalene | nd dl= 700 | Benzo(k)Fluoranthene | nd dl= 2800 |
| 2-Nitroaniline | nd dl=2800 | Benzo(a)Pyrene | nd dl= 2800 |
| DimethylPhthalate | nd dl= 700 | Indeno(1,2,3-cd) Pyrene | nd dl= 2800 |
| Acenaphthylene | nd dl= 700 | Dibenzo(a,h)Anthracene | nd dl= 2800 |
| 3-Nitroaniline | nd dl=2800 | Benzo(g,h,i)Perylene | nd dl= 2800 |

Attachment 1

ORGANIC ANALYSIS DATA

6ES-IIL SAMPLE NO.: 8TFAKC10-01 DATE REPORTED: 2/8/88

SAMPLE TYPE:SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

| SCAN# | CAS # | EST.CONC (ug/KG) | COMPOUND NAME |
|---|---|---|---|
| 926 | | 3380 | UNKNOWN |
| 1045 | | 10990 | UNKNOWN HYDROCARBON |
| 1096 | | 18600 | UNKNOWN HYDROCARBON |
| 1144 | 630035 | 23110 | NONACOSANE |
| 1170 | | 12080 | UNKNOWN |
| 1191 | 112958 | 14100 | EICOSANE |
| 1236 | | 11170 | UNKNOWN HYDROCARBON |
| 1280 | | 8170 | UNKNOWN HYDROCARBON |
| | | | |
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| | | | |
| | | | |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ATTACHMENT 1

# ORGANIC ANALYSIS DATA

SEG HL SAMPLE NO.: STTAKC1001 DATE REPORTED: 01/20/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## VOLATILE COMPOUNDS BY METHOD 624

| P.K. | CAS# | | (ug/kg) |
|---|---|---|---|
| | 67-64-1 | acetone | ND DL= 250 |
| (2V) | 107-02-8 | acrolein | ND DL=5000 |
| (3V) | 107-13-1 | acrylonitrile | ND DL=5000 |
| (4V) | 71-43-2 | benzene | ND DL= 100 |
| | 78-93-3 | 2-butanone | ND DL= 250 |
| | 75-15-0 | carbon disulfide | ND DL= 250 |
| (6V) | 56-23-5 | carbon tetrachloride | ND DL= 100 |
| (7V) | 108-90-7 | chlorobenzene | ND DL= 100 |
| (10V | 107-06-2 | 1,2-dichloroethane | ND DL= 100 |
| (11V) | 71-55-6 | 1,1,1-trichloroethane | ND DL= 100 |
| (13V) | 75-34-3 | 1,1-dichloroethane | ND DL= 100 |
| (14V) | 79-00-5 | 1,1,2-trichloroethane | ND DL= 100 |
| (15V) | 79-34-5 | 1,1,2,2-tetrachloroethane | ND DL= 100 |
| (16V) | 75-00-3 | chloroethane | ND DL= 250 |
| (23V) | 67-66-3 | chloroform | ND DL= 100 |
| (29V) | 75-35-4 | 1,1-dichloroethene | ND DL= 100 |
| (30V) | 156-60-5 | trans-1,2-dichloroethene | ND DL= 100 |
| (32V) | 78-87-5 | 1,2-dichloropropane | ND DL= 100 |
| (33V) | 10061-02-6 | trans-1,3-dichloropropene | ND DL= 100 |
| | 10061-01-5 | cis-1,3-dichloropropene | ND DL= 100 |
| (38V) | 100-41-4 | ethylbenzene | ND DL= 100 |
| | 519-78-6 | 2-hexanone | ND DL= 250 |
| | 108-10-1 | 4-methyl-2-pentanone | ND DL= 250 |
| (44V) | 75-09-2 | methylene chloride | ND DL= 100 |
| (45V) | 74-87-3 | chloromethane | ND DL= 250 |
| (46V) | 74-83-9 | bromomethane | ND DL= 250 |
| (47V) | 75-25-2 | bromoform | ND DL= 100 |
| (48V) | 75-27-4 | bromodichloromethane | ND DL= 100 |
| (51V) | 124-48-1 | chlorodibromomethane | ND DL= 100 |
| | 100-42-5 | styrene | ND DL= 250 |
| (85V) | 127-18-4 | tetrachloroethene | ND DL= 100 |
| (86V) | 108-88-3 | toluene | ND DL= 100 |
| (87V) | 79-01-6 | trichloroethene | ND DL= 100 |
| | 108-05-4 | vinyl acetate | ND DL= 250 |
| (88V) | 75-01-4 | vinyl chloride | ND DL= 250 |
| | 95-47-6 | o-xylene | ND DL= 250 |
| | 108-38-3 | m-xylene and/or | |
| | 106-42-3 | p-xylene | ND DL= 250 |

Attachment 1

# ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: BTTAKC1001 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## TENTATIVE COMPOUNDS BY METHOD 624

| SCAN# | CAS # | EST.CONC (ug/kg) | COMPOUND NAME |
|---|---|---|---|
| | | | No VOA TIC's detected. |

* ANALYSTS NOTE ! -- THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 1

# PESTICIDE/PCB ANALYSIS

GES-HL SAMPLE NO.: 8FFAKC10 01 DATE REPORTED: 1/27/1988

SAMPLE TYPE: SOIL

ANALYST: RAY A. FLORES

| PP# | CAS# | | UG/KG (PPB) |
|---|---|---|---|
| (89P) | 309-00-2 | aldrin | ND DL=< 50 |
| (90P) | 60-57-1 | deildrin | ND DL=< 50 |
| (91P) | 57-74-9 | chlordane | ND DL=< 50 |
| (92P) | 50-29-3 | 4,4'-DDT | ND DL=< 50 |
| (93P) | 72-55-9 | 4,4'-DDE | ND DL=< 50 |
| (94P) | 72-54-8 | 4,4'-DDD | ND DL=< 50 |
| (95P) | 115-29-7 | a-endosulfan | ND DL=< 50 |
| (96P) | 115-29-7 | b-endosulfan | ND DL=< 50 |
| (97P) | 1031-07-8 | endosulfan sulfate | ND DL=< 50 |
| (98P) | 72-20-8 | endrin | ND DL=< 50 |
| (99P) | 7421-93-4 | endrin aldehyde | ND DL=< 50 |
| (100P) | 76-44-8 | heptachlor | ND DL=< 50 |
| (101P) | 1024-57-3 | heptachlor epoxide | ND DL=< 50 |
| (102P) | 319-84-6 | a-BHC | ND DL=< 50 |
| (103P) | 319-85-7 | b-BHC | ND DL=< 50 |
| (104P) | 319-86-8 | d-BHC | ND DL=< 50 |
| (105P) | 58-89-9 | g-BHC (lindane) | ND DL=< 50 |
| (106P) | 53469-21-9 | PCB-1242 | ND DL=< 50 |
| (107P) | 11097-69-1 | PCB-1254 | ND DL=< 50 |
| (108P) | 11104-28-2 | PCB-1221 | ND DL=< 100 |
| (109P) | 11141-16-5 | PCB-1232 | ND DL=< 50 |
| (110P) | 12672-29-6 | PCB-1248 | ND DL=< 50 |
| (111P) | 11096-82-5 | PCB-1260 | ND DL=< 50 |
| (112P) | 12674-11-2 | PCB-1016 | ND DL=< 50 |
| (113P) | 8001-35-2 | toxaphene | ND DL=< 50 |
| | | methoxychlor | ND DL=< 50 |
| | | mirex | ND DL=< 50 |
| | | PCB-1262 | ND DL=< 50 |

 ATTACHMENT: 1

US EPA HOUSTON BRANCH

| SAMPLE # | SOURCE | TYPE | DATE REC | DATE DIG | DATE REP |
|---|---|---|---|---|---|
| 8TFAKC1001 | AIR CENTER INC | SOIL | 20-Jan-88 | 22-Jan-88 | 05-FEB-88 |

ANALYSTS M.COLE/R.CLARK/T.SANDERS/TWC

| PARAMETER | CONCENTRATION | DET. LIMITS (DL) | UNITS |
|---|---|---|---|
| AS | 3.10 | 2.34 | MG/KG |
| SE | ND | 0.43 | MG/KG |
| TL | ND | 0.62 | MG/KG |
| HG | ND | 0.167 | MG/KG |
| AL | 14395 | 36 | MG/KG |
| SB | ND | 22 | MG/KG |
| BA | 133 | 4 | MG/KG |
| BE | ND | 2 | MG/KG |
| CD | 12 | 2 | MG/KG |
| CA | 2985 | 54 | MG/KG |
| CR | 1033 | 4 | MG/KG |
| CO | ND | 7 | MG/KG |
| CU | 31 | 7 | MG/KG |
| FE | 12520 | 9 | MG/KG |
| PB | 116 | 11 | MG/KG |
| MG | 2107 | 54 | MG/KG |
| MN | 224 | 2 | MG/KG |
| NI | 12 | 7 | MG/KG |
| K | 1698 | 361 | MG/KG |
| AG | ND | 4 | MG/KG |
| NA | ND | 361 | MG/KG |
| V | 24 | 11 | MG/KG |
| ZN | 278 | 2 | MG/KG |

INORGANICS

| | | |
|---|---|---|
| CYANIDE | 57.3 | MG/L |
| PHENOLS | 73 | MG/L |

COMMENTS: METALS ANALYSIS REPORTED ON DRY WEIGHT BASIS

ND=NONE DETECTED DL=DETECTION LIMIT

167

Date: 02/16/88

Appendix 2

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAH C10 Date Recvd: 01/20/88 Date Collected: 01/19/88
Sample Number: 2 Time Recvd: 10:00 Time Collected: 12:56

Source: AIR CENTER, INC Tag Number:
Site Description: STA#2 FIRST POND - NORTH
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN OH-
Biology:

Due Date: 02/19/88
Date Projected: 02/19/88
Date Completed: 02/16/88
Comment:
Your Initials: LC

Attachment 2

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC10-02 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | COMPOUND | ug/KG |
|---|---|---|---|
| Phenol | nd dl=1200 | Acenaphthene | nd dl= 600 |
| bis(2-Chloroethyl) Ether | nd dl= 600 | 2,4-Dinitrophenol | nd dl=9000 |
| 2-Chlorophenol | nd dl=1200 | 4-Nitrophenol | nd dl=2400 |
| 1,3-Dichlorobenzene | nd dl= 600 | Dibenzofuran | nd dl= 600 |
| 1,4-Dichlorobenzene | nd dl= 600 | 2,4-Dinitrotoluene | nd dl=1800 |
| Benzyl Alcohol | nd dl=1200 | 2,6-Dinitrotoluene | nd dl=1800 |
| 1,2-Dichlorobenzene | nd dl= 600 | Diethylphthalate | nd dl= 600 |
| 2-Methylphenol | nd dl=1800 | 4-Chlorophenylphenyl Ether | nd dl=2400 |
| bis(2-chloroisopropyl)Ether | nd dl= 600 | Fluorene | nd dl= 600 |
| 4-Methylphenol | nd dl=1800 | 4-Nitroaniline | nd dl=2400 |
| N-Nitroso-Di-n-Propylamine | nd dl=1800 | 4,6-Dinitro-2-Methylphenol | nd dl=6000 |
| Hexachloroethane | nd dl= 600 | N-Nitrosodiphenylamine | nd dl=1200 |
| Nitrobenzene | nd dl= 600 | 4-Bromophenylphenyl Ether | nd dl=2400 |
| Isophorone | nd dl=1200 | Hexachlorobenzene | nd dl= 600 |
| 2-Nitrophenol | nd dl=3000 | Pentachlorophenol | nd dl=4500 |
| 2,4-Dimethylphenol | nd dl=1800 | Phenanthrene | nd dl= 600 |
| Benzoic Acid | nd dl=3000 | Anthracene | nd dl= 600 |
| bis(2-Chloroethoxy)Methane | nd dl= 600 | Di-n-Butylphthalate | 720 |
| 2,4-Dichlorophenol | nd dl=1800 | Fluoranthene | nd dl= 600 |
| 1,2,4-trichlorobenzene | nd dl= 600 | Benzidine | nd dl=6000 |
| Naphthalene | nd dl= 600 | Pyrene | nd dl= 600 |
| 4-Chloroaniline | nd dl=1200 | Butylbenzylphthalate | nd dl=1200 |
| Hexachlorobutadiene | nd dl= 600 | 3,3'-Dichlorobenzidine | nd dl=3000 |
| 4-Chloro-3-Methylphenol | nd dl=2400 | Benzo(a)Anthracene | nd dl=2400 |
| 2-Methylnaphthalene | nd dl= 600 | bis-(2-Ethylhexyl)Phthalate | nd dl=1200 |
| Hexachlorocyclopentadiene | nd dl=3000 | Chrysene | nd dl=2400 |
| 2,4,6-Trichlorophenol | nd dl=1800 | Di-n-Octyl Phthalate | nd dl=1200 |
| 2,4,5-Trichlorophenol | nd dl=1800 | Benzo(b)Fluoranthene | nd dl=2400 |
| 2-Chloronaphthalene | nd dl= 600 | Benzo(k)Fluoranthene | nd dl=2400 |
| 2-Nitroaniline | nd dl=2400 | Benzo(a)Pyrene | nd dl=2400 |
| DimethylPhthalate | nd dl= 600 | Indeno(1,2,3-cd) Pyrene | nd dl=2400 |
| Acenaphthylene | nd dl= 600 | Dibenzo(a,h)Anthracene | nd dl=2400 |
| 3-Nitroaniline | nd dl=2400 | Benzo(g,h,i)Perylene | nd dl=2400 |

Attachment 2

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC10-02 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

## TENTATIVE COMPOUNDS BY METHODS 624 AND 625

| SCAN# | CAS # | EST.CONC (ug/KG) | COMPOUND NAME |
|---|---|---|---|
| 265 | | 33700 | UNKNOWN |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 2

# ORGANIC ANALYSIS DATA

GCS HL SAMPLE NO.: BTPAK01002 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## VOLATILE COMPOUNDS BY METHOD 624

| TP# | CAS# | | (ug/kg) |
|---|---|---|---|
| | 67-64-1 | acetone | ND DL= 250 |
| (2V) | 107-02-8 | acrolein | ND DL=5000 |
| (3V) | 107-13-1 | acrylonitrile | ND DL=5000 |
| (4V) | 71-43-2 | benzene | ND DL= 100 |
| | 78-93-3 | 2-butanone | ND DL= 250 |
| | 75-15-0 | carbon disulfide | ND DL= 250 |
| (6V) | 56-23-5 | carbon tetrachloride | ND DL= 100 |
| (7V) | 108-90-7 | chlorobenzene | ND DL= 100 |
| (10V | 107-06-2 | 1,2-dichloroethane | ND DL= 100 |
| (11V) | 71-55-6 | 1,1,1-trichloroethane | ND DL= 100 |
| (13V) | 75-34-3 | 1,1-dichloroethane | ND DL= 100 |
| (14V) | 79-00-5 | 1,1,2-trichloroethane | ND DL= 100 |
| (15V) | 79-34-5 | 1,1,2,2-tetrachloroethane | ND DL= 100 |
| (16V) | 75-00-3 | chloroethane | ND DL= 250 |
| (23V) | 67-66-3 | chloroform | ND DL= 100 |
| (29V) | 75-35-4 | 1,1-dichloroethene | ND DL= 100 |
| (30V) | 156-60-5 | trans-1,2-dichloroethene | ND DL= 100 |
| (32V) | 78-87-5 | 1,2-dichloropropane | ND DL= 100 |
| (33V) | 10061-02-6 | trans-1,3-dichloropropene | ND DL= 100 |
| | 10061-01-5 | cis-1,3-dichloropropene | ND DL= 100 |
| (38V) | 100-41-4 | ethylbenzene | ND DL= 100 |
| | 519-78-6 | 2-hexanone | ND DL= 250 |
| | 108-10-1 | 4-methyl-2-pentanone | ND DL= 250 |
| (44V) | 75-09-2 | methylene chloride | ND DL= 100 |
| (45V) | 74-87-3 | chloromethane | ND DL= 250 |
| (46V) | 74-83-9 | bromomethane | ND DL= 250 |
| (47V) | 75-25-2 | bromoform | ND DL= 100 |
| (48V) | 75-27-4 | bromodichloromethane | ND DL= 100 |
| (51V) | 124-48-1 | chlorodibromomethane | ND DL= 100 |
| | 100-42-5 | styrene | ND DL= 250 |
| (85V) | 127-18-4 | tetrachloroethene | ND DL= 100 |
| (86V) | 108-88-3 | toluene | ND DL= 100 |
| (87V) | 79-01-6 | trichloroethene | ND DL= 100 |
| | 108-05-4 | vinyl acetate | ND DL= 250 |
| (88V) | 75-01-4 | vinyl chloride | ND DL= 250 |
| | 95-47-6 | o-xylene | ND DL= 250 |
| | 108-38-3 | m-xylene and/or | |
| | 106-42-3 | p-xylene | ND DL= 250 |

Attachment 2

# ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: BTFAKC1002 DATE REPORTED: 01/28/90

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## TENTATIVE COMPOUNDS BY METHOD 624

| SCAN# | CAS # | EST.CONC (ug/kg) | COMPOUND NAME |
|---|---|---|---|
| | | | No VOA TIC's detected. |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 2

# PESTICIDE/PCB ANALYSIS

GCS-HL SAMPLE NO.: 81FAKC10-02 DATE REPORTED: 1/27/1980

SAMPLE TYPE: SOIL

ANALYST: RAY A. FLORES

| PP# | CAS# | | UG/KG (PPB) |
|---|---|---|---|
| (89P) | 309-00-2 | aldrin | ND DL=< 50 |
| (90P) | 60-57-1 | deildrin | ND DL=< 50 |
| (91P) | 57-74-9 | chlordane | ND DL=< 50 |
| (92P) | 50-29-3 | 4,4'-DDT | ND DL=< 50 |
| (93P) | 72-55-9 | 4,4'-DDE | ND DL=< 50 |
| (94P) | 72-54-8 | 4,4'-DDD | ND DL=< 50 |
| (95P) | 115-29-7 | a-endosulfan | ND DL=< 50 |
| (96P) | 115-29-7 | b-endosulfan | ND DL=< 50 |
| (97P) | 1031-07-8 | endosulfan sulfate | ND DL=< 50 |
| (98P) | 72-20-8 | endrin | ND DL=< 50 |
| (99P) | 7421-93-4 | endrin aldehyde | ND DL=< 50 |
| (100P) | 76-44-8 | heptachlor | ND DL=< 50 |
| (101P) | 1024-57-3 | heptachlor epoxide | ND DL=< 50 |
| (102P) | 319-84-6 | a-BHC | ND DL=< 50 |
| (103P) | 319-85-7 | b-BHC | ND DL=< 50 |
| (104P) | 319-86-8 | d-BHC | ND DL=< 50 |
| (105P) | 58-89-9 | g-BHC (lindane) | ND DL=< 50 |
| (106P) | 53469-21-9 | PCB-1242 | ND DL=< 50 |
| (107P) | 11097-69-1 | PCB-1254 | ND DL=< 50 |
| (108P) | 11104-28-2 | PCB-1221 | ND DL=< 100 |
| (109P) | 11141-16-5 | PCB-1232 | ND DL=< 50 |
| (110P) | 12672-29-6 | PCB-1248 | ND DL=< 50 |
| (111P) | 11096-82-5 | PCB-1260 | ND DL=< 50 |
| (112P) | 12674-11-2 | PCB-1016 | ND DL=< 50 |
| (113P) | 8001-35-2 | toxaphene | ND DL=< 50 |
| | | methoxychlor | ND DL=< 50 |
| | | mirex | ND DL=< 50 |
| | | PCB-1262 | ND DL=< 50 |

US EPA HOUSTON BRANCH

| SAMPLE # | SOURCE | TYPE | DATE REC | DATE DIG | DATE REP |
|---|---|---|---|---|---|
| 8TFAKC1002 | AIR CENTER INC | SOIL | 20-Jan-88 | 22-Jan-88 | 05-FEB-88 |

ANALYSTS M.COLE/R.CLARK/T.SANDERS/TWC

| PARAMETER | CONCENTRATION | DET. LIMITS (DL) | UNITS |
|---|---|---|---|
| AS | 2.41 | 2.00 | MG/KG |
| SE | ND | 0.37 | MG/KG |
| TL | ND | 0.53 | MG/KG |
| HG | ND | 0.133 | MG/KG |
| AL | 12533 | 30 | MG/KG |
| SB | ND | 18 | MG/KG |
| BA | 104 | 3 | MG/KG |
| BE | ND | 2 | MG/KG |
| CD | ND | 2 | MG/KG |
| CA | 1960 | 45 | MG/KG |
| CR | 202 | 3 | MG/KG |
| CO | ND | 6 | MG/KG |
| CU | 10 | 6 | MG/KG |
| FE | 9258 | 8 | MG/KG |
| PB | 14 | 9 | MG/KG |
| MG | 1786 | 45 | MG/KG |
| MN | 102 | 2 | MG/KG |
| NI | 9 | 6 | MG/KG |
| K | 1771 | 300 | MG/KG |
| AG | ND | 3 | MG/KG |
| NA | ND | 300 | MG/KG |
| V | 21 | 2 | MG/KG |
| ZN | 52 | 15 | MG/KG |

INORGANICS

| | | |
|---|---|---|
| CYANIDE | 5.3 | MG/L |
| PHENOLS | 3 | MG/L |

COMMENTS: METALS ANALYSIS REPORTED ON DRY WEIGHT BASIS

ND=NONE DETECTED DL=DETECTION LIMIT

1 of 7

Date: 02/16/88

Appendix 3

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAF C10 Date Recvd: 01/20/88 Date Collected: 01/19/88
Sample Number: 3 Time Recvd: 10:00 Time Collected: 11:45

Source: AIR CENTER, INC Tag Number:
Site Description: STA#3 SECOND POND - NORTHEAST
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN OH-
Biology:

Due Date: 02/19/88
Date Projected: 02/19/88
Date Completed: 02/16/88
Comment:
Your Initials: LC

Attachment 3

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC10-03 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | COMPOUND | ug/KG |
|---|---|---|---|
| Phenol | nd dl=1200 | Acenaphthene | nd dl= 600 |
| bis(2-Chloroethyl) Ether | nd dl= 600 | 2,4-Dinitrophenol | nd dl=9000 |
| 2-Chlorophenol | nd dl=1200 | 4-Nitrophenol | nd dl=2400 |
| 1,3-Dichlorobenzene | nd dl= 600 | Dibenzofuran | nd dl= 600 |
| 1,4-Dichlorobenzene | nd dl= 600 | 2,4-Dinitrotoluene | nd dl=1800 |
| Benzyl Alcohol | nd dl=1200 | 2,6-Dinitrotoluene | nd dl=1800 |
| 1,2-Dichlorobenzene | nd dl= 600 | Diethylphthalate | nd dl= 600 |
| 2-Methylphenol | nd dl=1800 | 4-Chlorophenylphenyl Ether | nd dl=2400 |
| bis(2-chloroisopropyl)Ether | nd dl= 600 | Fluorene | nd dl= 600 |
| 4-Methylphenol | nd dl=1800 | 4-Nitroaniline | nd dl=2400 |
| N-Nitroso-Di-n-Propylamine | nd dl=1800 | 4,6-Dinitro-2-Methylphenol | nd dl=6000 |
| Hexachloroethane | nd dl= 600 | N-Nitrosodiphenylamine | nd dl=1200 |
| Nitrobenzene | nd dl= 600 | 4-Bromophenylphenyl Ether | nd dl=2400 |
| Isophorone | nd dl=1200 | Hexachlorobenzene | nd dl= 600 |
| 2-Nitrophenol | nd dl=3000 | Pentachlorophenol | nd dl=4500 |
| 2,4-Dimethylphenol | nd dl=1800 | Phenanthrene | nd dl= 600 |
| Benzoic Acid | nd dl=3000 | Anthracene | nd dl= 600 |
| bis(2-Chloroethoxy)Methane | nd dl= 600 | Di-n-Butylphthalate | nd dl= 600 |
| 2,4-Dichlorophenol | nd dl=1800 | Fluoranthene | nd dl= 600 |
| 1,2,4-trichlorobenzene | nd dl= 600 | Benzidine | nd dl=6000 |
| Naphthalene | nd dl= 600 | Pyrene | nd dl= 600 |
| 4-Chloroaniline | nd dl=1200 | Butylbenzylphthalate | nd dl=1200 |
| Hexachlorobutadiene | nd dl= 600 | 3,3'-Dichlorobenzidine | nd dl=3000 |
| 4-Chloro-3-Methylphenol | nd dl=2400 | Benzo(a)Anthracene | nd dl=2400 |
| 2-Methylnaphthalene | nd dl= 600 | bis-(2-Ethylhexyl)Phthalate | nd dl=1200 |
| Hexachlorocyclopentadiene | nd dl=3000 | Chrysene | nd dl=2400 |
| 2,4,6-Trichlorophenol | nd dl=1800 | Di-n-Octyl Phthalate | nd dl=1200 |
| 2,4,5-Trichlorophenol | nd dl=1800 | Benzo(b)Fluoranthene | nd dl=2400 |
| 2-Chloronaphthalene | nd dl= 600 | Benzo(k)Fluoranthene | nd dl=2400 |
| 2-Nitroaniline | nd dl=2400 | Benzo(a)Pyrene | nd dl=2400 |
| DimethylPhthalate | nd dl= 600 | Indeno(1,2,3-cd) Pyrene | nd dl=2400 |
| Acenaphthylene | nd dl= 600 | Dibenzo(a,h)Anthracene | nd dl=2400 |
| 3-Nitroaniline | nd dl=2400 | Benzo(g,h,i)Perylene | nd dl=2400Q |

Attachment 3

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC10-03 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

## TENTATIVE COMPOUNDS BY METHODS 624 AND 625

| SCAN# | CAS # | EST.CONC (ug/KG) | COMPOUND NAME |
|---|---|---|---|
| 264 | | 2380 | UNKNOWN |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 3

# ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: BTFAKL1003 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## VOLATILE COMPOUNDS BY METHOD 624

| PK | CAS# | | (ug/kg) |
|---|---|---|---|
| | 67-64-1 | acetone | ND DL= 250 |
| (2V) | 107-02-8 | acrolein | ND DL=5000 |
| (3V) | 107-13-1 | acrylonitrile | ND DL=5000 |
| (4V) | 71-43-2 | benzene | ND DL= 100 |
| | 78-93-3 | 2-butanone | ND DL= 250 |
| | 75-15-0 | carbon disulfide | ND DL= 250 |
| (6V) | 56-23-5 | carbon tetrachloride | ND DL= 100 |
| (9V) | 108-90-7 | chlorobenzene | ND DL= 100 |
| (10V | 107-06-2 | 1,2-dichloroethane | ND DL= 100 |
| (11V) | 71-55-6 | 1,1,1-trichloroethane | ND DL= 100 |
| (13V) | 75-34-3 | 1,1-dichloroethane | ND DL= 100 |
| (14V) | 79-00-5 | 1,1,2-trichloroethane | ND DL= 100 |
| (15V) | 79-34-5 | 1,1,2,2-tetrachloroethane | ND DL= 100 |
| (16V) | 75-00-3 | chloroethane | ND DL= 250 |
| (23V) | 67-66-3 | chloroform | ND DL= 100 |
| (29V) | 75-35-4 | 1,1-dichloroethene | ND DL= 100 |
| (30V) | 156-60-5 | trans-1,2-dichloroethene | ND DL= 100 |
| (32V) | 78-87-5 | 1,2-dichloropropane | ND DL= 100 |
| (33V) | 10061-02-6 | trans-1,3-dichloropropene | ND DL= 100 |
| | 10061-01-5 | cis-1,3-dichloropropene | ND DL= 100 |
| (38V) | 100-41-4 | ethylbenzene | ND DL= 100 |
| | 519-78-6 | 2-hexanone | ND DL= 250 |
| | 108-10-1 | 4-methyl-2-pentanone | ND DL= 250 |
| (44V) | 75-09-2 | methylene chloride | ND DL= 100 |
| (45V) | 74-87-3 | chloromethane | ND DL= 250 |
| (46V) | 74-83-9 | bromomethane | ND DL= 250 |
| (47V) | 75-25-2 | bromoform | ND DL= 100 |
| (48V) | 75-27-4 | bromodichloromethane | ND DL= 100 |
| (51V) | 124-48-1 | chlorodibromomethane | ND DL= 100 |
| | 100-42-5 | styrene | ND DL= 250 |
| (85V) | 127-18-4 | tetrachloroethene | ND DL= 100 |
| (86V) | 108-88-3 | toluene | ND DL= 100 |
| (87V) | 79-01-6 | trichloroethene | ND DL= 100 |
| | 108-05-4 | vinyl acetate | ND DL= 250 |
| (88V) | 75-01-4 | vinyl chloride | ND DL= 250 |
| | 95-47-6 | o-xylene | ND DL= 250 |
| | 108-38-3 | m-xylene and/or | |
| | 106-42-3 | p-xylene | ND DL= 250 |

Attachment 3

# ORGANIC ANALYSIS DATA

GCS-HL SAMPLE NO.: BTFAKC1003 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## TENTATIVE COMPOUNDS BY METHOD 624

| SCAN# | CAS # | TEST.CONC (ug/kg) | COMPOUND NAME |
|---|---|---|---|
| | | | No VOA TIC's detected. |

* ANALYSIS NOTE ! -- THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 3

# PESTICIDE/PCB ANALYSIS

GES HL SAMPLE NO.: BTTAKC10-03 DATE REPORTED: 1/27/1988

SAMPLE TYPE: SOIL

ANALYST: RAY A. FLORES

| PP# | CAS# | | UG/KG (PPB) |
|---|---|---|---|
| (89P) | 309-00-2 | aldrin | ND DL=< 50 |
| (90P) | 60-57-1 | deildrin | ND DL=< 50 |
| (91P) | 57-74-9 | chlordane | ND DL=< 50 |
| (92P) | 50-29-3 | 4,4'-DDT | ND DL=< 50 |
| (93P) | 72-55-9 | 4,4'-DDE | ND DL=< 50 |
| (94P) | 72-54-8 | 4,4'-DDD | ND DL=< 50 |
| (95P) | 115-29-7 | a-endosulfan | ND DL=< 50 |
| (96P) | 115-29-7 | b-endosulfan | ND DL=< 50 |
| (97P) | 1031-07-8 | endosulfan sulfate | ND DL=< 50 |
| (98P) | 72-20-8 | endrin | ND DL=< 50 |
| (99P) | 7421-93-4 | endrin aldehyde | ND DL < 50 |
| (100P) | 76-44-8 | heptachlor | ND DL=< 50 |
| (101P) | 1024-57-3 | heptachlor epoxide | ND DL=< 50 |
| (102P) | 319-84-6 | a-BHC | ND DL=< 50 |
| (103P) | 319-85-7 | b-BHC | ND DL=< 50 |
| (104P) | 319-86-8 | d-BHC | ND DL=< 50 |
| (105P) | 58-89-9 | g-BHC (lindane) | ND DL=< 50 |
| (106P) | 53469-21-9 | PCB-1242 | ND DL=< 50 |
| (107P) | 11097-69-1 | PCB-1254 | ND DL=< 50 |
| (108P) | 11104-28-2 | PCB-1221 | ND DL=< 100 |
| (109P) | 11141-16-5 | PCB-1232 | ND DL=< 50 |
| (110P) | 12672-29-6 | PCB-1248 | ND DL=< 50 |
| (111P) | 11096-82-5 | PCB-1260 | ND DL=< 50 |
| (112P) | 12674-11-2 | PCB-1016 | ND DL=< 50 |
| (113P) | 8001-35-2 | toxaphene | ND DL=< 50 |
| | | methoxychlor | ND DL=< 50 |
| | | mirex | ND DL=< 50 |
| | | PCB-1262 | ND DL=< 50 |

 ATTACHMENT: 3

US EPA HOUSTON BRANCH

| SAMPLE # | SOURCE | TYPE | DATE REC | DATE DIG | DATE REP |
|---|---|---|---|---|---|
| 8TFAKC1003 | AIR CENTER INC | SOIL | 20-Jan-88 | 22-Jan-88 | 05-FEB-88 |

ANALYSTS M.COLE/R.CLARK/T.SANDERS/TWC

| PARAMETER | CONCENTRATION | DET. LIMITS (DL) | UNITS |
|---|---|---|---|
| AS | ND | 2.02 | MG/KG |
| SE | ND | 0.37 | MG/KG |
| TL | ND | 0.54 | MG/KG |
| HG | ND | 0.122 | MG/KG |
| AL | 16400 | 32 | MG/KG |
| SB | ND | 19 | MG/KG |
| BA | 148 | 3 | MG/KG |
| BE | ND | 2 | MG/KG |
| CD | ND | 2 | MG/KG |
| CA | 2850 | 47 | MG/KG |
| CR | 39 | 3 | MG/KG |
| CO | 8 | 6 | MG/KG |
| CU | 13 | 6 | MG/KG |
| FE | 13772 | 8 | MG/KG |
| PB | 14 | 9 | MG/KG |
| MG | 5921 | 47 | MG/KG |
| MN | 279 | 2 | MG/KG |
| NI | 21 | 6 | MG/KG |
| K | 3318 | 316 | MG/KG |
| AG | ND | 3 | MG/KG |
| NA | ND | 316 | MG/KG |
| V | 25 | 9 | MG/KG |
| ZN | 53 | 2 | MG/KG |

INORGANICS

| | | |
|---|---|---|
| CYANIDE | 15.2 | MG/L |
| PHENOLS | < 2 | MG/L |

COMMENTS: METALS ANALYSIS REPORTED ON DRY WEIGHT BASIS

ND=NONE DETECTED DL=DETECTION LIMIT

167

Date: 02/16/88

Appendix 4

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAHC10 Date Recvd: 01/20/88 Date Collected: 01/19/88
Sample Number: 4 Time Recvd: 10:00 Time Collected: 12:00

Source: AIR CENTER, INC Tag Number:
Site Description: S1A#4 WOODLAHE POND- WEST
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN OH-
Biology:

Due Date: 02/19/88
Date Projected: 02/19/88
Date Completed: 02/16/88
Comment:
Your Initials: LC

Attachment 4

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: BTFAKC10-04 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHERY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | COMPOUND | ug/KG |
|---|---|---|---|
| Phenol | nd dl= 520 | Acenaphthene | nd dl= 260 |
| bis(2-Chloroethyl) Ether | nd dl= 260 | 2,4-Dinitrophenol | nd dl=3900 |
| 2-Chlorophenol | nd dl= 520 | 4-Nitrophenol | nd dl=1040 |
| 1,3-Dichlorobenzene | nd dl= 260 | Dibenzofuran | nd dl= 260 |
| 1,4-Dichlorobenzene | nd dl= 260 | 2,4-Dinitrotoluene | nd dl= 780 |
| Benzyl Alcohol | nd dl= 520 | 2,6-Dinitrotoluene | nd dl= 780 |
| 1,2-Dichlorobenzene | nd dl= 260 | Diethylphthalate | nd dl= 260 |
| 2-Methylphenol | nd dl= 780 | 4-Chlorophenylphenyl Ether | nd dl=1040 |
| bis(2-chloroisopropyl)Ether | nd dl= 260 | Fluorene | nd dl= 260 |
| 4-Methylphenol | nd dl= 780 | 4-Nitroaniline | nd dl=1040 |
| N-Nitroso-Di-n-Propylamine | nd dl= 780 | 4,6-Dinitro-2-Methylphenol | nd dl=2600 |
| Hexachloroethane | nd dl= 260 | N-Nitrosodiphenylamine | nd dl= 520 |
| Nitrobenzene | nd dl= 260 | 4-Bromophenylphenyl Ether | nd dl=1040 |
| Isophorone | nd dl= 520 | Hexachlorobenzene | nd dl= 260 |
| 2-Nitrophenol | nd dl=1300 | Pentachlorophenol | nd dl=1950 |
| 2,4-Dimethylphenol | nd dl= 780 | Phenanthrene | nd dl= 260 |
| Benzoic Acid | nd dl=1300 | Anthracene | nd dl= 260 |
| bis(2-Chloroethoxy)Methane | nd dl= 260 | Di-n-Butylphthalate | nd dl= 260 |
| 2,4-Dichlorophenol | nd dl= 780 | Fluoranthene | nd dl= 260 |
| 1,2,4-trichlorobenzene | nd dl= 260 | Benzidine | nd dl=2600 |
| Naphthalene | nd dl= 260 | Pyrene | nd dl= 260 |
| 4-Chloroaniline | nd dl= 520 | Butylbenzylphthalate | nd dl= 520 |
| Hexachlorobutadiene | nd dl= 260 | 3,3'-Dichlorobenzidine | nd dl=1300 |
| 4-Chloro-3-Methylphenol | nd dl=1040 | Benzo(a)Anthracene | nd dl=1040 |
| 2-Methylnaphthalene | nd dl= 260 | bis(2-Ethylhexyl)Phthalate | nd dl= 520 |
| Hexachlorocyclopentadiene | nd dl=1300 | Chrysene | nd dl=1040 |
| 2,4,6-Trichlorophenol | nd dl= 780 | Di-n-Octyl Phthalate | nd dl= 520 |
| 2,4,5-Trichlorophenol | nd dl= 780 | Benzo(b)Fluoranthene | nd dl=1040 |
| 2-Chloronaphthalene | nd dl= 260 | Benzo(k)Fluoranthene | nd dl=1040 |
| 2-Nitroaniline | nd dl=1040 | Benzo(a)Pyrene | nd dl=1040 |
| DimethylPhthalate | nd dl= 260 | Indeno(1,2,3-cd) Pyrene | nd dl=1040 |
| Acenaphthylene | nd dl= 260 | Dibenzo(a,h)Anthracene | nd dl=1040 |
| 3-Nitroaniline | nd dl=1040 | Benzo(g,h,i)Perylene | nd dl=1040 |

Attachment 4

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC10-04 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

| SCAN# | CAS # | EST.CONC (ug/KG) | COMPOUND NAME |
|---|---|---|---|
| 64 | | 734 | UNKNOWN |
| 85 | | 342 | UNKNOWN |
| 117 | | 420 | UNKNOWN |
| 194 | | 720 | UNKNOWN |
| 268 | | 1880 | UNKNOWN |
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* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 4

# ORGANIC ANALYSIS DATA

GCS-HL SAMPLE NO.: 8ITAKC1004 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## VOLATILE COMPOUNDS BY METHOD 624

| PP# | CAS# | | (ug/kg) |
|---|---|---|---|
| | 67-64-1 | acetone | ND DL= 250 |
| (2V) | 107-02-8 | acrolein | ND DL=5000 |
| (3V) | 107-13-1 | acrylonitrile | ND DL=5000 |
| (4V) | 71-43-2 | benzene | ND DL= 100 |
| | 78-93-3 | 2-butanone | ND DL= 250 |
| | 75-15-0 | carbon disulfide | ND DL= 250 |
| (6V) | 56-23-5 | carbon tetrachloride | ND DL= 100 |
| (7V) | 108-90-7 | chlorobenzene | ND DL= 100 |
| (10V | 107-06-2 | 1,2-dichloroethane | ND DL= 100 |
| (11V) | 71-55-6 | 1,1,1-trichloroethane | ND DL= 100 |
| (13V) | 75-34-3 | 1,1-dichloroethane | ND DL= 100 |
| (14V) | 79-00-5 | 1,1,2-trichloroethane | ND DL= 100 |
| (15V) | 79-34-5 | 1,1,2,2-tetrachloroethane | ND DL= 100 |
| (16V) | 75-00-3 | chloroethane | ND DL= 250 |
| (23V) | 67-66-3 | chloroform | ND DL= 100 |
| (29V) | 75-35-4 | 1,1-dichloroethene | ND DL= 100 |
| (30V) | 156-60-5 | trans-1,2-dichloroethene | ND DL= 100 |
| (32V) | 78-87-5 | 1,2-dichloropropane | ND DL= 100 |
| (33V) | 10061-02-6 | trans-1,3-dichloropropene | ND DL= 100 |
| | 10061-01-5 | cis-1,3-dichloropropene | ND DL= 100 |
| (38V) | 100-41-4 | ethylbenzene | ND DL= 100 |
| | 519-78-6 | 2-hexanone | ND DL= 250 |
| | 108-10-1 | 4-methyl-2-pentanone | ND DL= 250 |
| (44V) | 75-09-2 | methylene chloride | ND DL= 100 |
| (45V) | 74-87-3 | chloromethane | ND DL= 250 |
| (46V) | 74-83-9 | bromomethane | ND DL= 250 |
| (47V) | 75-25-2 | bromoform | ND DL= 100 |
| (48V) | 75-27-4 | bromodichloromethane | ND DL= 100 |
| (51V) | 124-48-1 | chlorodibromomethane | ND DL= 100 |
| | 100-42-5 | styrene | ND DL= 250 |
| (85V) | 127-18-4 | tetrachloroethene | ND DL= 100 |
| (86V) | 108-88-3 | toluene | ND DL= 100 |
| (87V) | 79-01-6 | trichloroethene | ND DL= 100 |
| | 108-05-4 | vinyl acetate | ND DL= 250 |
| (88V) | 75-01-4 | vinyl chloride | ND DL= 250 |
| | 95-47-6 | o-xylene | ND DL= 250 |
| | 108-38-3 | m-xylene and/or | |
| | 106-42-3 | p-xylene | ND DL= 250 |

Attachment 4

# ORGANIC ANALYSIS DATA

GCS-HL SAMPLE NO.: BTFAKC1004 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## TENTATIVE COMPOUNDS BY METHOD 624

| SCAN# | CAS # | EST.CONC (ug/kg) | COMPOUND NAME |
|---|---|---|---|
| | | | No VOA TIC's detected. |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 4

# PESTICIDE/PCB ANALYSIS

CLS HL SAMPLE NO.: 8TTAKC10-04 DATE REPORTED: 1/27/1988

SAMPLE TYPE: SOIL

ANALYST: RAY A. FLORES

| PP# | CAS# | | UG/KG (PPB) |
|---|---|---|---|
| (89P) | 309-00-2 | aldrin | ND DL=< 50 |
| (90P) | 60-57-1 | dieldrin | ND DL=< 50 |
| (91P) | 57-74-9 | chlordane | ND DL=< 50 |
| (92P) | 50-29-3 | 4,4'-DDT | ND DL=< 50 |
| (93P) | 72-55-9 | 4,4'-DDE | ND DL=< 50 |
| (94P) | 72-54-8 | 4,4'-DDD | ND DL=< 50 |
| (95P) | 115-29-7 | a-endosulfan | ND DL=< 50 |
| (96P) | 115-29-7 | b-endosulfan | ND DL=< 50 |
| (97P) | 1031-07-8 | endosulfan sulfate | ND DL=< 50 |
| (98P) | 72-20-8 | endrin | ND DL=< 50 |
| (99P) | 7421-93-4 | endrin aldehyde | ND DL=< 50 |
| (100P) | 76-44-8 | heptachlor | ND DL=< 50 |
| (101P) | 1024-57-3 | heptachlor epoxide | ND DL=< 50 |
| (102P) | 319-84-6 | a-BHC | ND DL=< 50 |
| (103P) | 319-85-7 | b-BHC | ND DL=< 50 |
| (104P) | 319-86-8 | d-BHC | ND DL=< 50 |
| (105P) | 58-89-9 | g-BHC (lindane) | ND DL=< 50 |
| (106P) | 53469-21-9 | PCB-1242 | ND DL=< 50 |
| (107P) | 11097-69-1 | PCB-1254 | ND DL=< 50 |
| (108P) | 11104-28-2 | PCB-1221 | ND DL=< 100 |
| (109P) | 11141-16-5 | PCB-1232 | ND DL=< 50 |
| (110P) | 12672-29-6 | PCB-1248 | ND DL=< 50 |
| (111P) | 11096-82-5 | PCB-1260 | ND DL=< 50 |
| (112P) | 12674-11-2 | PCB-1016 | ND DL=< 50 |
| (113P) | 8001-35-2 | toxaphene | ND DL=< 50 |
| | | methoxychlor | ND DL=< 50 |
| | | mirex | ND DL=< 50 |
| | | PCB-1262 | ND DL=< 50 |

US EPA HOUSTON BRANCH

| SAMPLE # | SOURCE | TYPE | DATE REC | DATE DIG | DATE REP |
|---|---|---|---|---|---|
| 8TFAKC1004 | AIR CENTER INC | SOIL | 20-Jan-88 | 22-Jan-88 | 05-FEB-88 |

ANALYSTS M.COLE/R.CLARK/T.SANDERS/TWC

| PARAMETER | CONCENTRATION | DET. LIMITS (DL) | UNITS |
|---|---|---|---|
| AS | 2.21 | 1.84 | MG/KG |
| SE | ND | 0.34 | MG/KG |
| TL | ND | 0.49 | MG/KG |
| HG | ND | 0.118 | MG/KG |
| AL | 8665 | 26 | MG/KG |
| SB | ND | 16 | MG/KG |
| BA | 74 | 3 | MG/KG |
| BE | ND | 1 | MG/KG |
| CD | ND | 1 | MG/KG |
| CA | 1333 | 39 | MG/KG |
| CR | 11 | 3 | MG/KG |
| CO | ND | 5 | MG/KG |
| CU | 6 | 5 | MG/KG |
| FE | 8218 | 7 | MG/KG |
| PB | ND | 8 | MG/KG |
| MG | 1314 | 39 | MG/KG |
| MN | 176 | 1 | MG/KG |
| NI | 7 | 5 | MG/KG |
| K | 1111 | 262 | MG/KG |
| AG | ND | 3 | MG/KG |
| NA | ND | 262 | MG/KG |
| V | 18 | 8 | MG/KG |
| ZN | 21 | 1 | MG/KG |

INORGANICS

| | | |
|---|---|---|
| CYANIDE | < 4.5 | MG/L |
| PHENOLS | < 2 | MG/L |

COMMENTS: METALS ANALYSIS REPORTED ON DRY WEIGHT BASIS

ND=NONE DETECTED DL=DETECTION LIMIT

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Date: 02/16/88

Appendix 5

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 8TFAC10 Date Recvd: 01/20/88 Date Collected: 01/19/88
Sample Number: 5 Time Recvd: 10:00 Time Collected: 13:10

Source: AIR CENTER, INC Tag Number:
Site Description: STA#5 BACKGROUND
Sample Type: SOIL
Sample Retention:

Param- Organic: ABN PCB PES VOA
Metals: HSL
Inorganic: CN OH-
Biology:

Due Date: 02/19/88
Date Projected: 02/19/88
Date Completed: 02/16/88
Comment:
Your Initials: LC

Attachment 5

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 8TFAKC10-05 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL ANALYST:MARVELYN HUMPHREY

## HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

| COMPOUND | ug/KG | COMPOUND | ug/KG |
|---|---|---|---|
| Phenol | nd dl=1080 | Acenaphthene | nd dl= 540 |
| bis(2-Chloroethyl) Ether | nd dl= 540 | 2,4-Dinitrophenol | nd dl=8100 |
| 2-Chlorophenol | nd dl=1080 | 4-Nitrophenol | nd dl=2160 |
| 1,3-Dichlorobenzene | nd dl= 540 | Dibenzofuran | nd dl= 540 |
| 1,4-Dichlorobenzene | nd dl= 540 | 2,4-Dinitrotoluene | nd dl=1620 |
| Benzyl Alcohol | nd dl=1080 | 2,6-Dinitrotoluene | nd dl=1620 |
| 1,2-Dichlorobenzene | nd dl= 540 | Diethylphthalate | nd dl= 540 |
| 2-Methylphenol | nd dl=1620 | 4-Chlorophenylphenyl Ether | nd dl=2160 |
| bis(2-chloroisopropyl)Ether | nd dl= 540 | Fluorene | nd dl= 540 |
| 4-Methylphenol | nd dl=1620 | 4-Nitroaniline | nd dl=2160 |
| N-Nitroso-Di-n-Propylamine | nd dl=1620 | 4,6-Dinitro-2-Methylphenol | nd dl=5400 |
| Hexachloroethane | nd dl= 540 | N-Nitrosodiphenylamine | nd dl=1080 |
| Nitrobenzene | nd dl= 540 | 4-Bromophenylphenyl Ether | nd dl=2160 |
| Isophorone | nd dl=1080 | Hexachlorobenzene | nd dl= 540 |
| 2-Nitrophenol | nd dl=2700 | Pentachlorophenol | nd dl=4050 |
| 2,4-Dimethylphenol | nd dl=1620 | Phenanthrene | nd dl= 540 |
| Benzoic Acid | nd dl=2700 | Anthracene | nd dl= 540 |
| bis(2-Chloroethoxy)Methane | nd dl= 540 | Di-n-Butylphthalate | nd dl= 540 |
| 2,4-Dichlorophenol | nd dl=1620 | Fluoranthene | nd dl= 540 |
| 1,2,4-trichlorobenzene | nd dl= 540 | Benzidine | nd dl=5400 |
| Naphthalene | nd dl= 540 | Pyrene | nd dl= 540 |
| 4-Chloroaniline | nd dl=1080 | Butylbenzylphthalate | nd dl=1080 |
| Hexachlorobutadiene | nd dl= 540 | 3,3'-Dichlorobenzidine | nd dl=2700 |
| 4-Chloro-3-Methylphenol | nd dl=2160 | Benzo(a)Anthracene | nd dl=2160 |
| 2-Methylnaphthalene | nd dl= 540 | bis-(2-Ethylhexyl)Phthalate | nd dl=1080 |
| Hexachlorocyclopentadiene | nd dl=2700 | Chrysene | nd dl=2160 |
| 2,4,6-Trichlorophenol | nd dl=1620 | Di-n-Octyl Phthalate | nd dl=1080 |
| 2,4,5-Trichlorophenol | nd dl=1620 | Benzo(b)Fluoranthene | nd dl=2160 |
| 2-Chloronaphthalene | nd dl= 540 | Benzo(k)Fluoranthene | nd dl=2160 |
| 2-Nitroaniline | nd dl=2160 | Benzo(a)Pyrene | nd dl=2160 |
| DimethylPhthalate | nd dl= 540 | Indeno(1,2,3-cd) Pyrene | nd dl=2160 |
| Acenaphthylene | nd dl= 540 | Dibenzo(a,h)Anthracene | nd dl=2160 |
| 3-Nitroaniline | nd dl=2160 | Benzo(g,h,i)Perylene | nd dl=2160 |

Attachment 5

# ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: BTFAKC10-05 DATE REPORTED: 2/8/88

SAMPLE TYPE: SOIL

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHODS 624 AND 625

| SCAN# | CAS # | EST.CONC (ug/KG) | COMPOUND NAME |
|---|---|---|---|
| 62 | | 386 | UNKNOWN |
| 83 | | 1070 | UNKNOWN |
| 267 | | 332 | UNKNOWN |

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 5

# ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: BTFAKC1005 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## VOLATILE COMPOUNDS BY METHOD 624

| PP# | CAS# | | (ug/kg) |
|---|---|---|---|
| | 67-64-1 | acetone | ND DL= 250 |
| (2V) | 107-02-8 | acrolein | ND DL=5000 |
| (3V) | 107-13-1 | acrylonitrile | ND DL=5000 |
| (4V) | 71-43-2 | benzene | ND DL= 100 |
| | 78-93-3 | 2-butanone | ND DL= 250 |
| | 75-15-0 | carbon disulfide | ND DL= 250 |
| (6V) | 56-23-5 | carbon tetrachloride | ND DL= 100 |
| (7V) | 108-90-7 | chlorobenzene | ND DL= 100 |
| (10V | 107-06-2 | 1,2-dichloroethane | ND DL= 100 |
| (11V) | 71-55-6 | 1,1,1-trichloroethane | ND DL= 100 |
| (13V) | 75-34-3 | 1,1-dichloroethane | ND DL= 100 |
| (14V) | 79-00-5 | 1,1,2-trichloroethane | ND DL= 100 |
| (15V) | 79-34-5 | 1,1,2,2-tetrachloroethane | ND DL= 100 |
| (16V) | 75-00-3 | chloroethane | ND DL= 250 |
| (23V) | 67-66-3 | chloroform | ND DL= 100 |
| (29V) | 75-35-4 | 1,1-dichloroethene | ND DL= 100 |
| (30V) | 156-60-5 | trans-1,2-dichloroethene | ND DL= 100 |
| (32V) | 78-87-5 | 1,2-dichloropropane | ND DL= 100 |
| (33V) | 10061-02-6 | trans-1,3-dichloropropene | ND DL= 100 |
| | 10061-01-5 | cis-1,3-dichloropropene | ND DL= 100 |
| (38V) | 100-41-4 | ethylbenzene | ND DL= 100 |
| | 519-78-6 | 2-hexanone | ND DL= 250 |
| | 108-10-1 | 4-methyl-2-pentanone | ND DL= 250 |
| (44V) | 75-09-2 | methylene chloride | ND DL= 100 |
| (45V) | 74-87-3 | chloromethane | ND DL= 250 |
| (46V) | 74-83-9 | bromomethane | ND DL= 250 |
| (47V) | 75-25-2 | bromoform | ND DL= 100 |
| (48V) | 75-27-4 | bromodichloromethane | ND DL= 100 |
| (51V) | 124-48-1 | chlorodibromomethane | ND DL= 100 |
| | 100-42-5 | styrene | ND DL= 250 |
| (85V) | 127-18-4 | tetrachloroethene | ND DL= 100 |
| (86V) | 108-88-3 | toluene | ND DL= 100 |
| (87V) | 79-01-6 | trichloroethene | ND DL= 100 |
| | 108-05-4 | vinyl acetate | ND DL= 250 |
| (88V) | 75-01-4 | vinyl chloride | ND DL= 250 |
| | 95-47-6 | o-xylene | ND DL= 250 |
| | 108-38-3 | m-xylene and/or | |
| | 106-42-3 | p-xylene | ND DL= 250 |

Attachment 5

# ORGANIC ANALYSIS DATA

GES-HL SAMPLE NO.: 8TFAKC1005 DATE REPORTED: 01/28/88

SAMPLE TYPE: Soil

ANALYST: Richard McMillin

## TENTATIVE COMPOUNDS BY METHOD 624

| SCAN# | CAS # | EST.CONC (ug/kg) | COMPOUND NAME |
|---|---|---|---|
| | | | No VOA TIC's detected. |

* ANALYSIS NOTE ! -- THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILLY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

Attachment 5

PESTICIDE/PCB ANALYSIS

SES-HL SAMPLE NO.: BTFAKC10-05 DATE REPORTED: 1/27/1988

SAMPLE TYPE: SOIL

ANALYST: RAY A. FLORES

| PP# | CAS# | | UG/KG (PPB) |
|---|---|---|---|
| (89P) | 309-00-2 | aldrin | ND DL=< 50 |
| (90P) | 60-57-1 | deildrin | ND DL=< 50 |
| (91P) | 57-74-9 | chlordane | ND DL=< 50 |
| (92P) | 50-29-3 | 4,4'-DDT | ND DL=< 50 |
| (93P) | 72-55-9 | 4,4'-DDE | ND DL=< 50 |
| (94P) | 72-54-8 | 4,4' DDD | ND DL=< 50 |
| (95P) | 115-29-7 | a endosulfan | ND DL < 50 |
| (96P) | 115-29-7 | b-endosulfan | ND DL=< 50 |
| (97P) | 1031-07-8 | endosulfan sulfate | ND DL=< 50 |
| (98P) | 72-20-8 | endrin | ND DL=< 50 |
| (99P) | 7421-93-4 | endrin aldehyde | ND DL=< 50 |
| (100P) | 76-44-8 | heptachlor | ND DL=< 50 |
| (101P) | 1024-57-3 | heptachlor epoxide | ND DL=< 50 |
| (102P) | 319-84-6 | a-BHC | ND DL=< 50 |
| (103P) | 319-85-7 | b BHC | ND DL=< 50 |
| (104P) | 319-86-8 | d-BHC | ND DL=< 50 |
| (105P) | 58-89-9 | g-BHC (lindane) | ND DL=< 50 |
| (106P) | 53469-21-9 | PCB-1242 | ND DL=< 50 |
| (107P) | 11097-69-1 | PCB-1254 | ND DL=< 50 |
| (108P) | 11104-28-2 | PCB-1221 | ND DL=< 100 |
| (109P) | 11141-16-5 | PCB 1232 | ND DL=< 50 |
| (110P) | 12672-29-6 | PCB-1248 | ND DL=< 50 |
| (111P) | 11096-82-5 | PCB-1260 | ND DL=< 50 |
| (112P) | 12674-11-2 | PCB-1016 | ND DL=< 50 |
| (113P) | 8001-35-2 | toxaphene | ND DL < 50 |
| | | methoxychlor | ND DL=< 50 |
| | | mirex | ND DL=< 50 |
| | | PCB-1262 | ND DL=< 50 |

US EPA HOUSTON BRANCH

| SAMPLE # | SOURCE | TYPE | DATE REC | DATE DIG | DATE REP |
|---|---|---|---|---|---|
| 8TFAKC1005 | AIR CENTER INC | SOIL | 20-Jan-88 | 22-Jan-88 | 05-FEB-88 |

ANALYSTS M.COLE/R.CLARK/T.SANDERS/TWC

| PARAMETER | CONCENTRATION | DET. LIMITS (DL) | UNITS |
|---|---|---|---|
| AS | 2.23 | 1.81 | MG/KG |
| SE | ND | 0.33 | MG/KG |
| TL | ND | 0.48 | MG/KG |
| HG | ND | 0.131 | MG/KG |
| AL | 11925 | 27 | MG/KG |
| SB | ND | 16 | MG/KG |
| BA | 258 | 3 | MG/KG |
| BE | ND | 1 | MG/KG |
| CD | ND | 1 | MG/KG |
| CA | 3936 | 40 | MG/KG |
| CR | 14 | 3 | MG/KG |
| CO | 8 | 5 | MG/KG |
| CU | 8 | 5 | MG/KG |
| FE | 11899 | 7 | MG/KG |
| PB | 26 | 8 | MG/KG |
| MG | 2195 | 40 | MG/KG |
| MN | 444 | 1 | MG/KG |
| NI | 10 | 5 | MG/KG |
| K | 1211 | 267 | MG/KG |
| AG | ND | 3 | MG/KG |
| NA | 272 | 267 | MG/KG |
| V | 26 | 8 | MG/KG |
| ZN | 50 | 1 | MG/KG |

INORGANICS

| | | |
|---|---|---|
| CYANIDE | < 4.5 | MG/L |
| PHENOLS | < 2 | MG/L |

COMMENTS: METALS ANALYSIS REPORTED ON DRY WEIGHT BASIS

ND=NONE DETECTED DL=DETECTION LIMIT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

MEMORANDUM

Date: February 5, 1988

Subject: Organic Laboratory Results for Air Center, Inc.

Richard McMillin for

From: Michael L. Dagget, Chief, Organic Section, 6E-HO

To: Diana G. Ayers, Chief, Houston Branch, 6E-H

Attached are the Organic laboratory results for samples 8TFADB1001 thru 8TFADB1006. These samples were analyzed for ABNs and VOAs. There were no compounds detected in the VOA fraction. Samples 3 & 6 contained bis-(2-Ethylhexyl)Phthalate in the ABN fraction.

This is a final report.

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

DATE: February 5, 1988

SUBJECT: Laboratory Results for Air Center (8TFADB10)

FROM: Diana Ayers, Chief, Houston Branch; 6E-H Dan L. Payne for

TO: James Steibing, Chief, Surveillance Branch; 6E-S

ATT: Dave Wineman; 6E-SC

Attached are the results for the subject site. Six water sample was received on 1/5/88 for ABN, VOA, Metals, Hardness and Cyanide.

This is a final report.

Attachments

Karlla
Originator

# PHONE CONVERSATION RECORD

**Conversation with:**
Name Scott Thompson
Company OK State Dept. of Agriculture
Address
Phone (405) 271-7168
**Subject** Air Center Inc Sampling

**Date** 1 / 11 / 88
**Time** 1510 hrs AM/PM

☑ Originator Placed Call
☐ Originator Received Call

**Notes:**
Thompson was out of office but sec. said he should be back shortly.

1530hrs no answer

1600hrs. no answer

☐ **File**
☐ **Tickle File** / /
☐ **Follow-Up By:**
☐ **Copy/Route To:**

Follow-Up-Action:

Originator's Initials

Kaarbla
Originator

# PHONE CONVERSATION RECORD

**Conversation with:**
Name Oklahoma State Dept. Agriculture
Company
Address
Phone (405) 271-7168
Subject air Center Inc.

Date 12 / 28 / 87
Time 1235 hrs AM/PM

☑ Originator Placed Call
☐ Originator Received Call

Notes: Scott Thompson was out for lunch should be back 1330 hrs.

1545 hrs (busy)

1600 hrs talked to Scott Thompson about sampling plan and will ~~t~~ call back to arrange time to make sampling mission.

☐ File
☐ Tickle File / /
☐ Follow-Up By:
☐ Copy/Route To:

Follow-Up-Action:

Originator's Initials MWK

recycled paper

ecology and environment

| 1A. Cost Center: TS 1306 | TAT ZONE II CONTRACT<br>CONTRACT NO. 68-01-7368<br>TECHNICAL DIRECTION DOCUMENT (TDD)<br>ECOLOGY AND ENVIRONMENT, INC. | 2. No.: T06-8712-28 |
|---|---|---|
| 1B. Account No.: TCK0270SAA | | OKD980750 23A<br>Amendment _____ |

| 3A. Priority | 4A. Estimate of Total Hours: (b) (4) | 5A. EPA Site Name: Air Center Inc. | 7. Completion Date: 3/31/88 |
|---|---|---|---|
| [X] High<br>[ ] Medium<br>[ ] Low | Total Costs: $6480 | 5B. SSID No.: N/A<br>5C. City/County/State: Oklahoma City/Oklahoma/OK | 8. Reference Info:<br>[ ] Yes [X] Attached<br>[ ] No [ ] Pick-up |
| 3B. Key EPA Contact:<br>Name: M Clary<br>Phone: 655-2270 | 4B. Overtime Approved:<br>[X] Yes [ ] No | 6. Source of Funds: [ ] Other _____<br>[X] CERCLA<br>[ ] 311<br>[ ] UST | 8A. Subtask Code: |

9. Type of Activity:

| CWA-311 | CERCLA | AS SPECIFIED ABOVE | |
|---|---|---|---|
| [ ] SPCC | [X] Site Assessment | [ ] Special Project | [ ] Quality Assurance |
| [ ] On-Scene Monitoring | [ ] Removal Funded | [ ] Analytical Project | [ ] Training |
| [ ] Spill Clean-up Funded | [ ] Removal PRP (AO/CO) | [ ] TITLE III | [ ] Program Management |
| | [ ] On-Site Monitoring | [ ] UST | [ ] Technical Assistance |
| | | [ ] FEMA | [ ] Information Management |

10. General Task Description: Conduct Site Assessment

11. Desired Report Form:
[X] Formal Report
[ ] Letter Report
[ ] Formal Briefing
[ ] Other (Specify)

12. Specific Elements:

(1) Contact State OSDA (Scott Thompson (405) 271-7168 develop grab Sampling plan / 3-5 samples of sediment in ponds and drainage ditch
(2) Submit Plan to OSC for approval
(3) Conduct Site Visit with State (Scott Thompson) if available
(4) Brief OSC

13. Interim Deadlines:
(1) 12/29/87

14. Authorizing DPO: J Chris Petersen (Signature)

15. Date: 12/14/87

16. Received by: [X] Accepted [ ] Accepted with Exceptions (Attached) [ ] Rejected
Charles C Bond FOR WR Goode (TATL Signature)

17. Date: 12/16/87

T007037

Distribution

| | | |
|---|---|---|
| Sheet 1 | White | DPO Copy |
| Sheet 2 | Blue | TATL Copy |
| Sheet 3 | Green | ZPM Copy |
| Sheet 4 | Canary | PO Copy |
| Sheet 5 | Pink | CO Copy |
| Sheet 6 | Goldenrod | DPO Original (Unsigned by TATL) |

Matt Kaarlela

EPA

POTENTIAL HAZARDOUS WASTE SITE
TENTATIVE DISPOSITION EPA-SI

| REGION | SITE NUMBER |
|---|---|
| 6 | OKD980750319 |

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency, Site Tracking System, Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

## I. SITE IDENTIFICATION

| A. SITE NAME | B. STREET | |
|---|---|---|
| AIR CENTER INC. | HWY. 8, WILEY POST AIRPORT, 7300 NW. 62nd | |
| **C. CITY** | **D. STATE** | **E. ZIP CODE** |
| OKLAHOMA CITY OK. CO. | OKLA. | 73131 |

## II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

| RECOMMENDATION | MARK 'X' | ACTION AGENCY: EPA | STATE | LOCAL | PRIVATE |
|---|---|---|---|---|---|
| A. NO ACTION NEEDED – NO HAZARD | | | | | |
| B. INVESTIGATIVE ACTION(S) NEEDED *(If yes, complete Section III.)* | X | X | | | |
| C. REMEDIAL ACTION NEEDED *(If yes, complete Section IV.)* | | | | | |
| D. ENFORCEMENT ACTION NEEDED *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)* | | | | | |

E. RATIONALE FOR DISPOSITION A site recon was conducted at this site in order to develop a sampling plan to be used to complete an HRS package. After reviewing this sampling plan, 6H-ES concurs with the FIT's recommendations (with a few minor changes which are attached to the FIT task request). It is recommended that FIT carry out its proposed sampling plan with the exception of the changes attached to the FIT task request.

F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION *(mo., day, & yr.)*

G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED *(mo., day, & yr.)*

H. PREPARER INFORMATION

| 1. NAME | 2. TELEPHONE NUMBER | 3. DATE *(mo., day, & yr.)* |
|---|---|---|
| DAVID CODIK | 214-655-6740 | 10/29/87 |

## III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

A final strategy can be achieved once this site has been evaluated using the HRS, if it is determined that the score is >28.5.

B. PROPOSED INVESTIGATIVE ACTIVITY *(Detailed Information)*

| 1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO. | 2. SCHEDULED DATE OF ACTION *(mo, day, & yr)* | 3. TO BE PERFORMED BY *(EPA, Contractor, State, etc.)* | 4. ESTIMATED MANHOURS | 5. REMARKS |
|---|---|---|---|---|
| a. TYPE OF SITE INSPECTION | | | | |
| (1) | | | | |
| (2) | | | | |
| (3) | | | | |
| b. TYPE OF MONITORING | | | | |
| (1) | | | | |
| (2) | | | | |
| c. TYPE OF SAMPLING | | | | |
| (1) | | | | |
| (2) | | | | |



Continue On Reverse

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
ALLIED BANK TOWER AT FOUNTAIN PLACE
1445 ROSS AVENUE
DALLAS, TEXAS 75202

DATE: 10/29/87
SUBJECT: FIT TASK REQUEST
FROM: DAVID COOK (6H-ES)
TO: DAVE WINEMAN (6E-SH)

Please task FIT to complete the following work:

☐ New Assignment
☑ Amendment

**Key EPA Contact:**
Name: DAVID COOK (6H-ES) Phone: 214-655-6740

**SSID Number:** 64

**CERID Number:** OKD980750319

**EPA Site Name:** AIR CENTER INC.

**City/County/State:** OKLAHOMA / OKLAHOMA / OKLAHOMA

**Desired Report Format:**
☑ Formal Report ☐ Standard Report ☐ Other (Specify): _____
☐ Letter Report ☐ Formal Briefing

**Type of Activity:**
☐ PA ☑ HRS Support ☐ Enforcement Support ☐ General Technical Assistance
☐ SI ☐ Special Studies
☐ ESI

**General Task Description:** CARRY OUT PROPOSED SAMPLING WITH THE EXCEPTION OF THE ATTACHED CHANGES TO FIT'S RECOMMEND SAMPLING PLAN

**Specific Elements:** _____

☐ Additional Scope Attached

CONCURRENCE: 11/2/87
Martha M. McKee, Chief

11/2
Jo Ann Miller

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
ALLIED BANK TOWER AT FOUNTAIN PLACE
1445 ROSS AVENUE
DALLAS, TEXAS 75202

REPLY TO: 6W-SP

MEMORANDUM

DATE: October 13, 1987

SUBJECT: Potential Hazardous Waste Site - Site Inspection Report

FROM: Oscar Cabra, Jr., P.E.
Chief
Water Supply Branch (6W-S)

TO: Martha McKee
Chief
Superfund Compliance Section (6H-ES)

In response to the CERCLA investigation reports which you recently sent to the Water Supply Branch, I am attaching our comments. Thank you for the opportunity to review these documents.

Attachments: Air Center, Incorporated
Oklahoma City, Oklahoma
OKD980750319

cc: Carl Hickam (6H-ES)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: Sept. 16/87

SUBJECT: Potential Hazardous Waste Site

FROM: Dave Wineman
Dave Wineman, FIT RPO
Hazardous Waste Section (6E-SH)

1987 SEP 17 AM 7:04
SUPERFUND BRANCH

TO: Martha McKee, Chief
Compliance Section (6H-ES)

Site Name : Air Center, Inc.

Location : Oklahoma City, OK

EPA ID No. : OKD 980 750 319

TDD No. : F06-8707-11

A. Deliverables :

1. Preliminary Assessment (Form 2070-2) attached ( )
2. Site Inspection Report (Form 2070-3) attached (X)
3. Sampling Inspection Report attached ( )
4. Other: _____ attached ( )

B. Were drinking water wells sampled ? Yes ( ) No ( )

C. Analytical Data :

1. None collected ( )
2. Field data ( )
3. Contract lab results attached ( )
4. Houston lab results attached ( )

D. Comments :

Recon inspection. A sampling plan is included in this report.

cc: (circle) Cabra 6H-S
Gazda 6E-E
Taylor 6H-CE

# This Document Contained Material Which Was Not Filmed/Scanned

**Title** Air Center Incorporated - Wiley Post, Reconnaissance of the Water Resources of the Oklahoma City Quadrangle, Central Oklahoma, Oversized Document

# Please Refer to the File in Superfund Records Center

REVIEW 507

Potential Hazardous Waste Site - Inspection Report

Site Name AIR CENTER, INC

Site Location OKLAHOMA CITY 7300 NW 63rd

Site Number OKD 980750319 Date of Survey 7/23/87 Site Insp. Report

Inspected by _____ State ___ FIT X TAT ___

Other (specify) _____

Received From DAVE WINEMAN

Date rec'd by Water Supply Branch SEPT 16, 87

Type samples: No Samples were taken

| | | | |
|---|---|---|---|
| ___ on-site | ___ on-site | ___ on-site | ___ on-site |
| ___ SOIL | ___ SURFACE WATER | ___ GROUND WATER | ___ DRINKING WATER |
| ___ off-site | ___ off-site | ___ off-site | ___ off-site |

Type contaminant(s):

___ ORGANICS ___ INORGANICS ___ RADIONUCLIDES ___ MICROBIOLOGICAL

Summary: This is a site inspection report on a former aircraft renovation and paint stripping facility. Suspect that underground storage tanks have been covered and lagoons refilled. There is possible contamination of surface water and alluvium and bedrock aquifers. The nearest well, 3/4 miles to west of site, belongs to City of Bethany. Other wells, residential wells, are within one to three miles. Three residential wells and two wells on the Bethany system are included in the sampling plan.

RECOMMENDATION: Conduct the sampling plan proposed by FIT

Concurrence:

D. Thomas Smith 10/7/87

Edgar A. Jeffery 10/4/87

Signature and Date

18 MAY 1987

Mr. Lou Dominquez
Manager Airport Planning
& Development Division
Air Center
P.O. Box 59937
Oklahoma City, Oklahoma 73159

Dear Mr. Dominquez:

Enclosed is a copy of the site inspection report and sample analyses for Air Center in Oklahoma City, Oklahoma. This report was prepared by Oklahoma State Department of Health after their site visit on September 10, 1986. If you have any questions about this report, please contact Doug Fassett at (214) 655-6740.

Sincerely,

Martha M. McKee, Chief
Superfund Site Assessment Section

Enclosure

bcc: Superfund File OKD980750319

6H-ES:NEWMAN:JB:4/25/87:Disk #3:Doc #8 p-23

F-6-8707-11

EPA

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT

| REGION | SITE NUMBER (to be assigned by Hq) |
|---|---|
| 6 | OKD980750319 |

**GENERAL INSTRUCTIONS:** Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (*Section II*). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

## I. SITE IDENTIFICATION

| A. SITE NAME | B. STREET (or other identifier) | | |
|---|---|---|---|
| Air Center, Inc. | Hwy. 8, Wiley Post Airport, 7300 N.W. 63rd | | |
| **C. CITY** | **D. STATE** | **E. ZIP CODE** | **F. COUNTY NAME** |
| Oklahoma City | OK | 73131 | Oklahoma |

**G. SITE OPERATOR INFORMATION**

| 1. NAME | 2. TELEPHONE NUMBER | | |
|---|---|---|---|
| Mr. Lou Dominguez, Mgr. Airport Planning and Development | (405) 681-5311 | | |
| **3. STREET** | **4. CITY** | **5. STATE** | **6. ZIP CODE** |
| P.O. Box 5993 | Oklahoma City | OK | 73159 |

**H. REALTY OWNER INFORMATION** (*if different from operator of site*)

| 1. NAME | 2. TELEPHONE NUMBER | |
|---|---|---|
| City of Oklahoma City | (405) 231-2011 | |
| **3. CITY** | **4. STATE** | **5. ZIP CODE** |
| Oklahoma City | OK | 73102 |

**I. SITE DESCRIPTION**

Former aircraft renovation and paint stripping facility

**J. TYPE OF OWNERSHIP**

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☒ 4. MUNICIPAL ☐ 5. PRIVATE

## II. TENTATIVE DISPOSITION (*complete this section last*)

**A. ESTIMATE DATE OF TENTATIVE DISPOSITION** (*mo., day, & yr.*)

**B. APPARENT SERIOUSNESS OF PROBLEM**

☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

**C. PREPARER INFORMATION**

| 1. NAME | 2. TELEPHONE NUMBER | 3. DATE (mo., day, & yr.) |
|---|---|---|
| Ravinder Joseph, ICF Technology/FIT | (214) 744-1641 | July 29, 1987 |

## III. INSPECTION INFORMATION

**A. PRINCIPAL INSPECTOR INFORMATION**

| 1. NAME | 2. TITLE |
|---|---|
| Debra Pandak | FIT Environmental Scientist |

| 3. ORGANIZATION | 4. TELEPHONE NO. (area code & no.) |
|---|---|
| ICF Technology, 1509 Main Street, Suite 900, Dallas, Texas 75201 | (214) 744-1641 |

**B. INSPECTION PARTICIPANTS**

| 1. NAME | 2. ORGANIZATION | 3. TELEPHONE NO. |
|---|---|---|
| Ravinder Joseph | ICF Technology, Dallas | (214) 744-1641 |
| Heather Schijf | ICF Technology, Dallas | (214) 744-1641 |
| Tom Rountree | ICF Technology, Dallas | (214) 744-1641 |

**C. SITE REPRESENTATIVES INTERVIEWED** (*corporate officials, workers, residents*)

| 1. NAME | 2. TITLE & TELEPHONE NO. | 3. ADDRESS |
|---|---|---|
| Scott A. Thompson | Environmental Specialist (405) 271-2702 | Oklahoma State Dept. of Health, P.O. Box 53551, 1000 N.E. Tenth, Oklahoma City, OK 73152 |
| John N. Ice | Environmental Health Spec. (405) 271-7063 | Oklahoma State Department of Health, Industrial Waste Division |
| | | |
| | | |
| | | |
| | | |

Reviewed by GHES Date D.C. 6/24/92

Continued From Front

## III. INSPECTION INFORMATION (continued)

**D. GENERATOR INFORMATION** (sources of waste)

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS | 4. WASTE TYPE GENERATED |
|---|---|---|---|
| Air Center, Inc. | N/A | Hanger 8, Wiley Post Airport | Paints, Solvents, |
| (Out of Business) | | 7300 N.W. 63rd, Oklahoma City, OK 73131 | Paint Stripping, |
| | | | Waste Water |

**E. TRANSPORTER/HAULER INFORMATION**

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS | 4. WASTE TYPE TRANSPORTED |
|---|---|---|---|
| N/A | | | |
| | | | |
| | | | |

**F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.**

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS |
|---|---|---|
| N/A | | |
| | | |
| | | |

| G. DATE OF INSPECTION (mo., day, & yr.) | H. TIME OF INSPECTION | I. ACCESS GAINED BY: (credentials must be shown in all cases) |
|---|---|---|
| 7/23/87 | 1200-1400 hours | [x] 1. PERMISSION [ ] 2. WARRANT |

**J. WEATHER** (describe)

Warm and sunny. Approximately 92° F. Winds from the SW at 10-15 mph

## IV. SAMPLING INFORMATION

**A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.**

| 1. SAMPLE TYPE | 2. SAMPLE TAKEN (mark 'X') | 3. SAMPLE SENT TO: | 4. DATE RESULTS AVAILABLE |
|---|---|---|---|
| a. GROUNDWATER | | | |
| b. SURFACE WATER | | | |
| c. WASTE | | | |
| d. AIR | | | |
| e. RUNOFF | | | |
| f. SPILL | | | |
| g. SOIL | | | |
| h. VEGETATION | | | |
| i. OTHER (specify) | x | No samples were taken during this inspection | |

**B. FIELD MEASUREMENTS TAKEN** (e.g., radioactivity, explosivity, PH, etc.)

| 1. TYPE | 2. LOCATION OF MEASUREMENTS | 3. RESULTS |
|---|---|---|
| HNU | Continuous monitoring at site | No readings above background |
| RAM-4 | Continuous monitoring at site | No readings above background |
| Metal Detector | Area between drainage ditch and hangers | Detected metal close to concrete drainage pipe and to the east side of paint stripping hangers |



Continue On Page 3

Continued From Page 2

## IV. SAMPLING INFORMATION (continued)

**G. PHOTOS**

1. TYPE OF PHOTOS
[X] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF:
EPA Region 6 (see attached)

**D. SITE MAPPED?**

[X] YES. SPECIFY LOCATION OF MAPS: Location map and site sketch attached

**E. COORDINATES**

1. LATITUDE (deg.-min.-sec.)
35° 32' 17" N

2. LONGITUDE (deg.-min.-sec.)
97° 38' 30" W

## V. SITE INFORMATION

**A. SITE STATUS**

[ ] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

[X] 2. INACTIVE (Those sites which no longer receive wastes.)

[ ] 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

**B. IS GENERATOR ON SITE?**

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): 3724

**C. AREA OF SITE (in acres)**

11.5 (estimated)

**D. ARE THERE BUILDINGS ON THE SITE?**

[ ] 1. NO [X] 2. YES (specify): There are three hangers, an above ground water tank and a shed adjoining the tank

## VI. CHARACTERIZATION OF SITE ACTIVITY

Rate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| A. TRANSPORTER | X | B. STORER | X | C. TREATER | X | D. DISPOSER |
|---|---|---|---|---|---|---|
| 1. RAIL | | 1. PILE | | 1. FILTRATION | | 1. LANDFILL |
| 2. SHIP | | 2. SURFACE IMPOUNDMENT | | 2. INCINERATION | | 2. LANDFARM |
| 3. BARGE | | 3. DRUMS | | 3. VOLUME REDUCTION | | 3. OPEN DUMP |
| 4. TRUCK | | 4. TANK, ABOVE GROUND | | 4. RECYCLING/RECOVERY | | 4. SURFACE IMPOUNDMENT |
| 5. PIPELINE | | 5. TANK, BELOW GROUND | X | 5. CHEM./PHYS./TREATMENT | | 5. MIDNIGHT DUMPING |
| 6. OTHER (specify): | | 6. OTHER (specify): | | 6. BIOLOGICAL TREATMENT | | 6. INCINERATION |
| | | | | 7. WASTE OIL REPROCESSING | | 7. UNDERGROUND INJECTION |
| | | | | 8. SOLVENT RECOVERY | | 8. OTHER (specify): |
| | | | | 9. OTHER (specify): | | |

Tank covers discovered on site (photos 19 and 20) point to the presence of underground storage tanks. (See attached ROC to Wayne O'Berg.)

A lagoon which has since been filled up is presumed to be on site. Drainage ditch.

**E. SUPPLEMENTAL REPORTS:** If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

[X] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [ ] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

## VII. WASTE RELATED INFORMATION

**A. WASTE TYPE**

[X] 1. LIQUID [ ] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

**B. WASTE CHARACTERISTICS**

[ ] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[X] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER (specify):

**C. WASTE CATEGORIES**

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

No



Continue On Reverse

## VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

| a. SLUDGE | b. OIL | c. SOLVENTS | d. CHEMICALS | e. SOLIDS | f. OTHER |
|---|---|---|---|---|---|
| AMOUNT: 500-700 (est) | AMOUNT: Unknown | AMOUNT: Unknown | AMOUNT: 200 (est) | AMOUNT: None | AMOUNT: None |
| UNIT OF MEASURE: gallons/year | UNIT OF MEASURE: | UNIT OF MEASURE: | UNIT OF MEASURE: gallons/week | UNIT OF MEASURE: | UNIT OF MEASURE: |
| X (1) PAINT, PIGMENTS | X (1) OILY WASTES | X (1) HALOGENATED SOLVENTS | X (1) ACIDS | X (1) FLYASH | X (1) LABORATORY, PHARMACEUT. |
| (2) METALS SLUDGES | (2) OTHER(specify): | X (2) NON-HALOGNTD. SOLVENTS | (2) PICKLING LIQUORS | (2) ASBESTOS | (2) HOSPITAL |
| (3) POTW | | (3) OTHER(specify): | X (3) CAUSTICS | (3) MILLING/MINE TAILINGS | (3) RADIOACTIVE |
| (4) ALUMINUM SLUDGE | | | (4) PESTICIDES | (4) FERROUS SMELTING WASTES | (4) MUNICIPAL |
| X (5) OTHER(specify): paint stripping sludge | | | (5) DYES/INKS | (5) NON-FERROUS SMLTG. WASTES | (5) OTHER(specify): |
| | | | (6) CYANIDE | (6) OTHER(specify): | |
| | | | X (7) PHENOLS | | |
| | | | (8) HALOGENS | | |
| | | | (9) PCB | | |
| | | | (10) METALS | | |
| | | | X (11) OTHER(specify): paint remover | | |

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

| 1. SUBSTANCE | 2. FORM (mark 'X') a. SOLID | b. LIQ. | c. VAPOR | 3. TOXICITY (mark 'X') a. HIGH | b. MED. | c. LOW | d. NONE | 4. CAS NUMBER | 5. AMOUNT | 6. UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | x | x | | | | | | 7440-47-5 | Unknown | |
| Lead | x | x | | | | | | 7439-92-1 | Unknown | |
| Cadmium | x | | | | | | | 7440-43-9 | Unknown | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## VIII. HAZARD DESCRIPTION

**FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.**

[X] A. HUMAN HEALTH HAZARDS

Past sampling results show chromium and lead were found in levels above background in Woodlake pond sediments. This is a potential health hazard as children were observed playing in mud at the edges of the pond (photo #8) and a resident was seen fishing.

## VIII. HAZARD DESCRIPTION *(continued)*

☐ T. MIDNIGHT DUMPING

☒ U. OTHER *(specify)*:

Air Center generated waste water from paint stripping operations of airplanes and the waste water was supposedly stored in two 500 gallon underground storage tanks and then pumped out. However it was noticed during an inspection by the Oklahoma Water Resources Board that the liquid was allowed to drain into an unlined lagoon. The lagoon was later covered up and the waste water was allowed to drain directly into a drainage ditch which went under Rockwell Avenue and led to a residential pond (Woodlake Pond). The facility went out of business about March 1984.

The Oklahoma State Department of Health took samples along the drainage pathway from the residential pond. The samples revealed significant concentrations of lead and chromium in the sediments. Some contaminants, like cadmium, and trace amounts of arsenic were also found. Phenols were also detected in water and sediments (186,000 mg/l in water and 4,820 mg/kg in sediment) in June 1984. No organics were detected in four samples tested by the Oklahoma State Board of Health in April 1986.

On July 23, 1987 FIT conducted a site recon to support the HRS package completed on this site. The objectives of the site recon were to ascertain the migration path of contaminants along the drainage path and to do a residential well survey. Other objectives of the recon were to determine the existence of two NOS 500-gallon underground storage tanks and the lagoon on site. The development of a sampling plan to determine the presence and spread of contaminants was also a major objective.

(Continued on Attachment A)

## IX. POPULATION DIRECTLY AFFECTED BY SITE

| A. LOCATION OF POPULATION | B. APPROX. NO. OF PEOPLE AFFECTED | C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA | D. APPROX. NO. OF BUILDINGS AFFECTED | E. DISTANCE TO SITE *(specify units)* |
|---|---|---|---|---|
| 1. IN RESIDENTIAL AREAS | 760 | 760 | 200 | ½ mile |
| 2. IN COMMERCIAL OR INDUSTRIAL AREAS | 500 | 500 | 20 | 1 mile |
| 3. IN PUBLICLY TRAVELLED AREAS | 1,000/day | 1,000/day | 10 | ¼ mile |
| 4. PUBLIC USE AREAS *(parks, schools, etc.)* | 100 | 100 | 1 | ¼ mile |

## X. WATER AND HYDROLOGICAL DATA

| A. DEPTH TO GROUNDWATER *(specify unit)* | B. DIRECTION OF FLOW | C. GROUNDWATER USE IN VICINITY |
|---|---|---|
| 40-45' (est) | SW | Drinking Water/Irrigation |
| **D. POTENTIAL YIELD OF AQUIFER** | **E. DISTANCE TO DRINKING WATER SUPPLY** *(specify unit of measure)* | **F. DIRECTION TO DRINKING WATER SUPPLY** |
| Unknown | 3/4 mile | East |

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS

☒ 2. COMMUNITY *(specify town)*: Oklahoma City & Warr Acres-Surface Water (Lake Hefner) > 15 CONNECTIONS

☐ 3. SURFACE WATER

☒ 4. WELL City of Bethany - ground water



*Continue On Page 9*

*Continued From Page 6*

## VIII. HAZARD DESCRIPTION *(continued)*

☐ **N. FIRE OR EXPLOSION**

☐ **O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID**

☐ **P. SEWER, STORM DRAIN PROBLEMS**

☐ **Q. EROSION PROBLEMS**

☒ **R. INADEQUATE SECURITY**

Air Center has been out of business since March 1984. The facility is on airport property, which is completely fenced. The site has a locked gate in front approximately five feet tall. Employees of the airport could access the property easily.

☐ **S. INCOMPATIBLE WASTES**

*Continued From Page 4*

## VIII. HAZARD DESCRIPTION *(continued)*

☐ **B. NON-WORKER INJURY/EXPOSURE**

☐ **C. WORKER INJURY/EXPOSURE**

☐ **D. CONTAMINATION OF WATER SUPPLY**

☒ **E. CONTAMINATION OF FOOD CHAIN**

Possible contamination of fish in Woodlake pond. Recon team documented fishing in this pond (photo #11). There had been a complaint of bad tasting fish from a resident some years back.

☐ **F. CONTAMINATION OF GROUND WATER**

☒ **G. CONTAMINATION OF SURFACE WATER**

The Oklahoma State Department of Health found significant concentrations of heavy metals (lead and chromium) in the sediments of Woodlake pond and along the drainage path leading to the pond. No visual evidence of this was observed during the FIT recon.

Continued From Front

## VIII. HAZARD DESCRIPTION *(continued)*

[X] H. DAMAGE TO FLORA/FAUNA

Circular patches of dead vegetation approximately two feet in diameter were found to the east of the water tank. Patches of lighter vegetation were also noticed adjoining the east side of the hangers.

[ ] I. FISH KILL

[ ] J. CONTAMINATION OF AIR

[ ] K. NOTICEABLE ODORS

[ ] L. CONTAMINATION OF SOIL

[ ] M. PROPERTY DAMAGE

 Continue On Page 7

Continued From Page 8

## X. WATER AND HYDROLOGICAL DATA (continued)

LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

| 1. WELL | 2. DEPTH (specify unit) | 3. LOCATION (proximity to population/buildings) | 4. NON-COMMUNITY (mark 'X') | 5. COMMUNITY (mark 'X') |
|---|---|---|---|---|
| | | | | |
| | | See Attachment A | | |
| | | | | |
| | | | | |
| | | | | |

RECEIVING WATER

1. NAME: Woodlake Pond

☐ 2. SEWERS ☐ 3. STREAMS/RIVERS ☒ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Woodlake Pond is used mainly for recreational use and for fishing. Drainage path leads from this into a series of lakes across Bluff Creek Canal and possibly into Silver Lake and Ski Island, also used for recreational purposes.

## XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN.

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☒ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

## XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

| 'X' | A. OVERBURDEN | 'X' | B. BEDROCK (specify below) | 'X' | C. OTHER (specify below) |
|---|---|---|---|---|---|
| X | 1. SAND | X | Red shale, sandstone | X | unconsolidated interfringering lenses of sand, silt, gravel and clay |
| X | 2. CLAY | | | | |
| | 3. GRAVEL | | | | |

## XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☐ D. MODERATE (10 to .1 cm/sec.) ☒ E. LOW (.1 to .001 cm/sec.) ☒ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS: Possible recharge of alluvium and bedrock aquifers

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS

I. SLOPE

1. ESTIMATE % OF SLOPE: 1-3%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: East and Northeast

J. OTHER GEOLOGICAL DATA



Continue On Reverse

*Continued From Front*

## XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

| A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.) | B. ISSUING AGENCY | C. PERMIT NUMBER | D. DATE ISSUED (mo., day, & yr.) | E. EXPIRATION DATE (mo., day, & yr.) | F. IN COMPLIANCE (mark 'X') | | |
|---|---|---|---|---|---|---|---|
| | | | | | 1. YES | 2. NO | 3. UNKNOWN |
| See Attachment A | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

X NONE ☐ YES *(summarize in this space)*

**NOTE:** Based on the information in Sections III through XV, fill out the Tentative Disposition *(Section II)* information on the first page of this form.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

DATE: 7/10/87
SUBJECT: FIT TASK REQUEST
FROM: DAVID COOK (6H-ES)
TO: KEITH BRADLEY (6E-SH)

Please task FIT to complete the following work:

2A. ☑ New Assignment ☐ Amendment

OKD98075319

5A. SSID No.: L9 ZZ

5B. EPA Site Name: AIR CENTER INC.

5C. City/County/State: OKLA. CITY / OKLAHOMA / OKLAHOMA

6. Desired Report Form: ☑ Formal Report ☐ Letter Report ☐ Formal Briefing ☐ Other (Specify)

8B. Key EPA Contact: DAVID COOK (6H-ES)
Phone: 214-655-6740

8. Type of Activity: ☐ PA ☐ SI ☐ ESI ☑ HRS Support [redacted] ☐ Special Studies ☐ Enforcement Support [redacted] ☐ General Technical Assistance [redacted]

9. General Task Description:
DEVELOP SAMPLING PLAN TO SUPPORT HRS PACKAGE.

10. Specific Elements:
(1) SUBMIT SAMPLE PLAN FOR EPA APPROVAL.

☐ Additional Scope Attached

CONCUR: Robert L. Dose, Acting
Martha M. McKee, Chief

7/13
Jo Ann Miller

OKD 7/21/87

REQUEST FOR SITE IDENTIFIER APPROVAL

REQUESTED BY: DAVID COOK SECTION: 6H-ES DATE: 7/10/87

SITE NAME: AIR CENTER INC., OKLA. SITE NUMBER ASSIGNED G4
OKD 98 0750319

CRITERIA FOR SITE ASSIGNMENT: ENFORCEMENT ON ALL

OKD980750319

(1) REMOVAL

- [ ] REMOVAL ACTION PROBABLE
- [ ] ACTION MEMO ISSUED
- [ ] ENFORCEMENT ACTIVITY - COST RECOVERY CASE IS LIKELY
- [ ] EMERGENCY NUMBER ASSIGNED BY OSC

REMEDIAL

- [ ] RI/FS - REMEDIAL INVESTIGATION/FEASIBILITY STUDY (Normally only approved NPL sites)
- [ ] IRM - INITIAL REMEDIAL MEASURE
- [x] FORWARD PLANNING (Can Occur Prior To NPL)

CIRCLE APPLICABLE PROGRAM(s): REMOVAL - (REMEDIAL) - REMOVAL/REMEDIAL - ENFORCEME

THE FOLLOWING ACCOUNT NUMBERS WILL BE ESTABLISHED BY THE FINANCIAL MANAGEMENT SECTION (6M-RF) IF THE PROGRAM IS CIRCLED ABOVE:

REMOVAL/REMEDIAL
(all accounts listed below)

| | REMOVAL | REMEDIAL | ENFORCEMENT |
|---|---|---|---|
| ESD | TFA06M8 __<br>TGB06M5 __<br>TGB06MP __ | TFA06M9 __<br>TGB06M6 __ | TFA06M7 __<br>TGB06M4 __ |
| HAZARDOUS WASTE | TGB06L5 __<br>TFA06L8 __ | TGB06L6 __<br>TFA06L9 __<br>TGB06LP __ | TGB06L4 __<br>TGB06LP __ |
| ORC | TJB06D5 __<br>TEY06D5 __ | TJB06D6 __<br>TEY06D6 __ | TJB06D4 __<br>TEY06D4 __ |
| MGMT | TEN06C8 __ | TEN06C9 __ | TEN06C7 __ |

WHEN REMOVAL/REMEDIAL THE FOLLOWING WILL ALSO BE ADDED:

TGB06L4__ / TJB06D4__ / TEY06D4__ / TEN06C7__ / TFA06M7 __ /TGB06M4 __

FOR ALL SITES ADD: TFA06MU__ / TGB06MU__

THIS REQUEST OF A SITE IDENTIFIER HAS [x] HAS NOT [ ] BEEN APPROVED.

APPROVED BY: _____
SUPERFUND BRANCH CHIEF OR DESIGNEE

UPDATED FY 87

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
REGION VI
1201 ELM STREET
DALLAS, TEXAS 75270

DATE: 4/3/87
SUBJECT: FIT TASK REQUEST
FROM: Doug Fassett
TO: KEITH BRADLEY (6E-SH)

Please task FIT to complete the following work:

2A. ☑ New Assignment ☐ Amendment

OKD980750319

5A. SSID No.:

5B. EPA Site Name: Air Center

5C. City/County/State: Oklahoma City Oklahoma Oklahoma

6. Desired Report Form: ☑ Formal Report ☐ Formal Briefing ☐ Letter Report ☐ Other (Specify)

3B. Key EPA Contact:
Name: Doug Fassett
Phone: (214) 655-6740

8. Type of Activity: ☐ PA ☐ SI ☐ ESI ☑ HRS Support [redacted] ☐ Special Studies ☐ Enforcement Support [redacted] ☐ General Technical Assistance [redacted]

9. General Task Description:
Complete an HRS package on the site.

10. Specific Elements:
Identify the target population which may be affected by the site. The population of Bethany and several trailer courts have been identified as users of ground water. Include other users that also obtain drinking water from within three miles of the site.

☐ Additional Scope Attached

CONCUR: Martha M. McKee, Chief

Jo Ann Miller

EPA

**POTENTIAL HAZARDOUS WASTE SITE**
**TENTATIVE DISPOSITION** State - SI

| REGION | SITE NUMBER |
|---|---|
| VI | OKD980750319 |

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency, Site Tracking System, Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW; Washington, DC 20460.

## I. SITE IDENTIFICATION

| A. SITE NAME | B. STREET | |
|---|---|---|
| Air Center | Hanger 8, Wiley Post Airport 7300 NW 63rd. | |
| **C. CITY** | **D. STATE** | **E. ZIP CODE** |
| Oklahoma City | OK | 73123 |

## II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

| RECOMMENDATION | MARK 'X' | ACTION AGENCY: EPA | STATE | LOCAL | PRIVATE |
|---|---|---|---|---|---|
| A. NO ACTION NEEDED -- NO HAZARD | | | | | |
| B. INVESTIGATIVE ACTION(S) NEEDED *(If yes, complete Section III.)* | | | X | | |
| C. REMEDIAL ACTION NEEDED *(If yes, complete Section IV.)* | | | | | |
| D. ENFORCEMENT ACTION NEEDED *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)* | | | | | |

E. RATIONALE FOR DISPOSITION

Air Center is an active aircraft renovation and painting operation. The business filed for bankruptcy in February or March, 1984 and was reportedly sold in April, 1984. It is believed that the facility illegaly discharged chromic acid, paint wastes and solvents into a drainage ditch. This ditch feeds a pond on the airport property, which in turn overflows into a nearby residential pond. Sampling has detected chromium (980 ppm) in the airport pond and in the residential pond. The concentration of chromium in the residential pond does not pose a serious hazard to human health.

| F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION *(mo., day, & yr.)* | G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED *(mo., day, & yr.)* |
|---|---|
| | 3/30/87 |

H. PREPARER INFORMATION

| 1. NAME | 2. TELEPHONE NUMBER | 3. DATE *(mo., day, & yr.)* |
|---|---|---|
| Doug Fassett | (214) 655-6740 | 3/28/87 |

## III. INVESTIGATIVE ACTIVITY NEEDED

A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.

An HRS package is needed to completely assess the site. Since the depth to groundwater is 20 ft. users may be at risk. The population of Bethany, that is served by municipal ground water, should be taken into account.

B. PROPOSED INVESTIGATIVE ACTIVITY *(Detailed Information)*

| 1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO. | 2. SCHEDULED DATE OF ACTION *(mo, day, & yr)* | 3. TO BE PERFORMED BY *(EPA, Contractor, State, etc.)* | 4. ESTIMATED MANHOURS | 5. REMARKS |
|---|---|---|---|---|
| a. TYPE OF SITE INSPECTION | | | | |
| (1) HRS package | | State (OSDH) or FIT | | |
| (2) | | | | |
| (3) | | | | |
| b. TYPE OF MONITORING | | | | |
| (1) | | | | |
| (2) | | | | |
| c. TYPE OF SAMPLING | | | | |
| (1) | | | | |
| (2) | | | | |

EPA Form T2070-4 (10-79) GW-SP

*Continue On Reverse*

*Continued From Front*

## III. INVESTIGATIVE ACTIVITY NEEDED and PART B - PROPOSED INVESTIGATIVE ACTIVITY *(Continued)*

| | | | | |
|---|---|---|---|---|
| d. TYPE OF LAB ANALYSIS (1) | | | | |
| (2) | | | | |
| e. OTHER *(specify)* (1) | | | | |
| (2) | | | | |

C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B *(on front & above)* AS NEEDED TO IDENTIFY ADDITIONAL INVESTIGATIVE WORK.

D. ESTIMATED MANHOURS BY ACTION AGENCY

| 1. ACTION AGENCY | 2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES | 1. ACTION AGENCY | 2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES |
|---|---|---|---|
| a. EPA | | b. STATE | |
| c. EPA CONTRACTOR | | d. OTHER *(specify)* | |

## IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY STRATEGY *(On Site & Off-Site)* List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below.

| 1. ACTION | 2. EST. START DATE *(mo,day,&yr)* | 3. EST. END DATE *(mo,day,&yr)* | 4. ACTION AGENCY *(EPA, State, Private Party)* | 5. ESTIMATED COST | 6. SPECIFY 311 OR OTHER ACTION, INDICATE THE MAGNITUDE OF THE WORK REQUIRED |
|---|---|---|---|---|---|
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |

B. LONG TERM STRATEGY *(On Site & Off-Site)* List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

| 1. ACTION | 2. EST. START DATE *(mo,day,&yr)* | 3. EST. END DATE *(mo,day,&yr)* | 4. ACTION AGENCY *(EPA, State Private Party)* | 5 ESTIMATED COST | 6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED |
|---|---|---|---|---|---|
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |

C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY

| 1. ACTION AGENCY | 2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES | 3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES | 1. ACTION AGENCY | 2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES | 3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES |
|---|---|---|---|---|---|
| a. EPA | | | b. STATE | | |
| c. PRIVATE PARTIES | | | d. OTHER *(specify)* | | |

**Joan K. Leavitt, M.D.**
Commissioner

**Board of Health**
James A. Cox, Jr., M.D.
President
Linda M. Johnson, M.D.
Vice President
Robert D. McCullough, II D.O.
Secretary/Treasurer
Wallace Byrd, M.D.
John B. Carmichael, D.D.S.
Ernest D. Martin
Walter Scott Mason, III
Edwin L. Pointer, M.D.
W. A. "Tate" Taylor

**OKLAHOMA STATE DEPARTMENT OF HEALTH**

**P.O. BOX 53551**
**1000 N.E. TENTH**
**OKLAHOMA CITY, OK 73152**

AN EQUAL OPPORTUNITY EMPLOYER

JAN 16 1987

January 7, 1987

Betty Jean Reece (6H-SS)
Environmental Protection Agency
Region VI
1201 Elm
Dallas, TX 75270

Dear Ms. Reece:

Enclosed is a site inspection report for the Air Center Site in Oklahoma City. This site was an airplane renovating operation on property leased from the Wiley Post Airport. The primary concern is chromium which was discharged during the plants operation. Attached to the report is an evaluation by our toxicologist.

We feel that there is no need for any futher action under CERCLA. We have requested that the airport authorities undertake some monitoring of the site, which we will oversee. They have agreed to do so and we should be able to set up a monitoring program soon.

If you have any questions, please feel free to call me at (405) 271-7072.

Sincerley,

Scott A. Thompson

Scott A. Thompson, ES
PA/SI Program
Solid Waste Division

SAT:vf

Enclosure

OKD980750319

EPA

# POTENTIAL HAZARDOUS WASTE SITE
# SITE INSPECTION REPORT

| REGION | SITE NUMBER (to be assigned by HQ) |
|---|---|
| 6 | OK02496 |

**GENERAL INSTRUCTIONS:** Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (*Section II*). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

## I. SITE IDENTIFICATION

A. SITE NAME: Air Center

B. STREET (or other identifier): Hangar 8, Wiley Post Airport 7300 N.W. 63rd

C. CITY: Oklahoma City,

D. STATE: OK

E. ZIP CODE: 73132

F. COUNTY NAME: Oklahoma

G. SITE OPERATOR INFORMATION

1. NAME: Air Center Inc. (Out-of-Business)

2. TELEPHONE NUMBER: (405) 789-4020

3. STREET: P.O. Box 32168

4. CITY: Oklahoma City,

5. STATE: OK

6. ZIP CODE: 73123

H. REALTY OWNER INFORMATION (if different from operator of site)

1. NAME: City of Oklahoma City

2. TELEPHONE NUMBER: (405) 231-2011

3. CITY: Oklahoma City,

4. STATE: OK

5. ZIP CODE: 73102

I. SITE DESCRIPTION

Aircraft renovation and painting operations. See Attachment A.

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☒ 4. MUNICIPAL ☐ 5. PRIVATE

## II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.).

B. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME: Scott A. Thompson

2. TELEPHONE NUMBER: (405) 271-7072

3. DATE (mo., day, & yr.): 01/05/87

## III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME: Scott A. Thompson

2. TITLE: Environmental Specialist

3. ORGANIZATION: Oklahoma State Department of Health

4. TELEPHONE NO. (area code & no.): (405) 271-7072

B. INSPECTION PARTICIPANTS

| 1. NAME | 2. ORGANIZATION | 3. TELEPHONE NO. |
|---|---|---|
| David Stutt | OSDH | (405) 271-7079 |
| Ann Hrebec | OSDH | (405) 271-7151 |
| | | |

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

| 1. NAME | 2. TITLE & TELEPHONE NO. | 3. ADDRESS |
|---|---|---|
| Lou Dominquez | Mgr. Airport Planning & Development Division (405) 681-5311 | P.O. Box 59937 Oklahoma City, OK 73159 |
| | | |
| | | |
| | | |
| | | |
| | | |

*Continued From Front*

## III. INSPECTION INFORMATION *(continued)*

**D. GENERATOR INFORMATION** *(sources of waste)*

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS | 4. WASTE TYPE GENERATED |
|---|---|---|---|
| Air Center Inc | (405) 789-4020 | P.O. Box 32168 Oklahoma City, OK 73123 | Paint, solvents, acids |
| | | | |
| | | | |

**E. TRANSPORTER/HAULER INFORMATION**

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS | 4. WASTE TYPE TRANSPORTED |
|---|---|---|---|
| N/A | | | |
| | | | |
| | | | |

**F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.**

| 1. NAME | 2. TELEPHONE NO. | 3. ADDRESS |
|---|---|---|
| Kansas Industrial Environmental Serv | (316) 744-1286 | Wichita, Kansas |
| | | |
| | | |

| G. DATE OF INSPECTION (Mo., day, & yr.) | H. TIME OF INSPECTION | I. ACCESS GAINED BY: *(credentials must be shown in all cases)* |
|---|---|---|
| 9/10/86 | 9:30 AM | [X] 1. PERMISSION [ ] 2. WARRANT |

**J. WEATHER** *(describe)*

Warm. Sunny.

## IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

| 1. SAMPLE TYPE | 2. SAMPLE TAKEN (Mark 'X') | 3. SAMPLE SENT TO: | 4. DATE RESULTS AVAILABLE |
|---|---|---|---|
| a. GROUNDWATER | | | |
| b. SURFACE WATER | X | State Environmental Lab | 10/13/86 |
| c. WASTE | | | |
| d. AIR | | | |
| e. RUNOFF | | | |
| f. SPILL | | | |
| g. SOIL | X | State Environmental Lab | 10/13/86 |
| h. VEGETATION | | | |
| i. OTHER *(specify)* | | | |

B. FIELD MEASUREMENTS TAKEN *(e.g., radioactivity, explosivity, pH, etc.)*

| 1. TYPE | 2. LOCATION OF MEASUREMENTS | 3. RESULTS |
|---|---|---|
| None | | |
| | | |
| | | |
| | | |

Continued From Page 2

## IV. SAMPLING INFORMATION (continued)

**C. PHOTOS**

1. TYPE OF PHOTOS: [X] a. GROUND [ ] b. AERIAL
2. PHOTOS IN CUSTODY OF: OSDH See attachments

**D. SITE MAPPED?**

[X] YES. SPECIFY LOCATION OF MAPS. See attachments

**E. COORDINATES**

1. LATITUDE (deg.-min.-sec.): 35° 32' 17" N
2. LONGITUDE (deg.-min.-sec.): 97° 38' 30" W

## V. SITE INFORMATION

**A. SITE STATUS**

[ ] 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)
[X] 2. INACTIVE (Those sites which no longer receive wastes.)
[ ] 3. OTHER (specify): _____ (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

**B. IS GENERATOR ON SITE?**

[ ] 1. NO [X] 2. YES (specify generator's four-digit SIC Code): 3724

**C. AREA OF SITE (in acres)**: 11.5 est.

**D. ARE THERE BUILDINGS ON THE SITE?**

[ ] 1. NO [X] 2. YES (specify): 1 Office & Hangar, 2 Hangars, Water Pumphouse, Fire Water Tank

## VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| 'X' | A. TRANSPORTER | 'X' | B. STORER | 'X' | C. TREATER | 'X' | D. DISPOSER |
|---|---|---|---|---|---|---|---|
| | 1. RAIL | | 1. PILE | | 1. FILTRATION | | 1. LANDFILL |
| | 2. SHIP | | 2. SURFACE IMPOUNDMENT | | 2. INCINERATION | | 2. LANDFARM |
| | 3. BARGE | | 3. DRUMS | | 3. VOLUME REDUCTION | | 3. OPEN DUMP |
| | 4. TRUCK | | 4. TANK, ABOVE GROUND | | 4. RECYCLING/RECOVERY | X | 4. SURFACE IMPOUNDMENT |
| | 5. PIPELINE | | 5. TANK, BELOW GROUND | | 5. CHEM./PHYS./TREATMENT | | 5. MIDNIGHT DUMPING |
| | 6. OTHER (specify): N/A | | 6. OTHER (specify): N/A | | 6. BIOLOGICAL TREATMENT | | 6. INCINERATION |
| | | | | | 7. WASTE OIL REPROCESSING | | 7. UNDERGROUND INJECTION |
| | | | | | 8. SOLVENT RECOVERY | X | 8. OTHER (specify): illegal surface water discharge |
| | | | | | 9. OTHER (specify): N/A | | |

**E. SUPPLEMENTAL REPORTS:** If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this form.

[ ] 1. STORAGE (D) [ ] 2. INCINERATION (S) [ ] 3. LANDFILL (E) [ ] 4. SURFACE IMPOUNDMENT (C) [ ] 5. DEEP WELL
[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM (A) [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

## VII. WASTE RELATED INFORMATION

**A. WASTE TYPE**

[X] 1. LIQUID [ ] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

**B. WASTE CHARACTERISTICS**

[X] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [X] 4. HIGHLY VOLATILE
[X] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE
[ ] 9. OTHER (specify):

**C. WASTE CATEGORIES**

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

No

Continued From Front

## VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category: mark 'X' to indicate which wastes are present.

| a. SLUDGE | b. OIL | c. SOLVENTS | d. CHEMICALS | e. SOLIDS | f. OTHER |
|---|---|---|---|---|---|
| AMOUNT Est. 500-750 | AMOUNT None | AMOUNT Unknown | AMOUNT Est. 200 | AMOUNT None | AMOUNT None |
| UNIT OF MEASURE Gallons/Year | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE Gallons/Week | UNIT OF MEASURE | UNIT OF MEASURE |
| X (1) PAINT, PIGMENTS | X (1) OILY WASTES | X (1) HALOGENATED SOLVENTS | X (1) ACIDS | X (1) FLYASH | X (1) LABORATORY PHARMACEUT. |
| (2) METALS SLUDGES | (2) OTHER (specify): | (2) NON-HALOGNTD. SOLVENTS | (2) PICKLING LIQUORS | (2) ASBESTOS | (2) HOSPITAL |
| (3) POTW | | (3) OTHER (specify): | X (3) CAUSTICS | (3) MILLING/MINE TAILINGS | (3) RADIOACTIVE |
| (4) ALUMINUM SLUDGE | | | (4) PESTICIDES | (4) FERROUS SMELTING WASTES | (4) MUNICIPAL |
| X (5) OTHER (specify): Paint - Stripping Sludge | | | (5) DYES/INKS | (5) NON-FERROUS SMLTG. WASTES | (5) OTHER (specify): |
| | | | (6) CYANIDE | (6) OTHER (specify): | |
| | | | X (7) PHENOLS | | |
| | | | (8) HALOGENS | | |
| | | | (9) PCB | | |
| | | | (10) METALS | | |
| | | | X (11) OTHER (specify): Paint removers Washdown wastes | | |

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

| 1. SUBSTANCE | 2. FORM (mark 'X') a. SOLID LIQ | b. LIQ. | c. VAPOR | 3. TOXICITY (mark 'X') a. HIGH | b. MED. | c. LOW | d. NONE | 4. CAS NUMBER | 5. AMOUNT | 6. UNIT |
|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | X | X | | | X | | | RN 7440473 | 980 | ppm |
| Cadmium | X | | | X | | | | RN 7440439 | 1.5 | ppm |
| | | | | | | | | | | |
| See attached sample results. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

___ A. HUMAN HEALTH HAZARDS



Continue On Page 5

Continued From Page 4

## VIII. HAZARD DESCRIPTION (continued)

B. NON-WORKER INJURY/EXPOSURE

C. WORKER INJURY/EXPOSURE

D. CONTAMINATION OF WATER SUPPLY

E. CONTAMINATION OF FOOD CHAIN

F. CONTAMINATION OF GROUND WATER

G. CONTAMINATION OF SURFACE WATER



Continue On R

Continued From Front

## VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☐ K. NOTICEABLE ODORS

☐ L. CONTAMINATION OF SOIL

☐ M. PROPERTY DAMAGE



Continue On Page 7

Continued From Page 6

## VIII. HAZARD DESCRIPTION (continued)

__ N. FIRE OR EXPLOSION

__ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

__ P. SEWER, STORM DRAIN PROBLEMS

__ Q. EROSION PROBLEMS

__ R. INADEQUATE SECURITY

__ S. INCOMPATIBLE WASTES

## VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☐ U. OTHER (specify):

## IX. POPULATION DIRECTLY AFFECTED BY SITE

| A. LOCATION OF POPULATION | B. APPROX. NO. OF PEOPLE AFFECTED | C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA | D. APPROX. NO. OF BUILDINGS AFFECTED | E. DISTANCE TO SITE (specify units) |
|---|---|---|---|---|
| 1. IN RESIDENTIAL AREAS | 760 | 760 | 200 Est | ½ Mile |
| 2. IN COMMERCIAL OR INDUSTRIAL AREAS | 500 | 500 | 20 Est. | 1 Mile |
| 3. IN PUBLICLY TRAVELLED AREAS | 1000/day | 1000/day | | ¼ Mile |
| 4. PUBLIC USE AREAS (parks, schools, etc.) | 100 | 100 | 1 | ¼ Mile |

## X. WATER AND HYDROLOGICAL DATA

| A. DEPTH TO GROUNDWATER (specify unit) | B. DIRECTION OF FLOW | C. GROUNDWATER USE IN VICINITY |
|---|---|---|
| 20 Ft. | Southwest | None known |
| **D. POTENTIAL YIELD OF AQUIFER** | **E. DISTANCE TO DRINKING WATER SUPPLY (specify units of measure)** | **F. DIRECTION TO DRINKING WATER SUPPLY** |
| 100 gpm | 2 Miles | Northeast |

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS

☒ 2. COMMUNITY (specify name): Oklahoma City > 15 CONNECTIONS

☒ 3. SURFACE WATER

☐ 4. WELL



Continue On Page 3

Continued From Page 8

## X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

| 1. WELL | 2. DEPTH (specify unit) | 3. LOCATION (proximity to population/ buildings) | 4. NON-COMMUNITY (mark 'X') | 5. COMMUNITY (mark 'X') |
|---|---|---|---|---|
| | | Not Known | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

I. RECEIVING WATER

1. NAME: Spring Creek

☐ 2. SEWERS ☒ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Public and private water supply, fish and wildlife propagation, agriculture, primary & secondary recreation, M & I Cooling, asthetics.

## XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

## XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

| 'X' | A. OVERBURDEN | 'X' | B. BEDROCK (specify below) | 'X' | C. OTHER (specify below) |
|---|---|---|---|---|---|
| X | 1. SAND | X | Weathered shale, sandstone | X | Fill material-sand, clay, gravel. |
| X | 2. CLAY | X | Hennessey shale | | |
| | 3. GRAVEL | | | | |

## XIII. SOIL PERMEABILITY

☐ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☒ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS: Possible recharge of terrace deposits & Hennessey shale.

H. DISCHARGE AREA

☐ 1. YES ☒ 2. NO 3. COMMENTS.

I. SLOPE

1. ESTIMATE % OF SLOPE: 1 - 3%

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: East. Condition is fair.

J. OTHER GEOLOGICAL DATA



Continue On Reverse

*Continued From Front*

## XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

| A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.) | B. ISSUING AGENCY | C. PERMIT NUMBER | D. DATE ISSUED (mo., day, & yr.) | E. EXPIRATION DATE (mo., day, & yr.) | F. IN COMPLIANCE (mark "X") 1. YES | 2. NO | 3. UNKNOWN |
|---|---|---|---|---|---|---|---|
| None known | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

## XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

X NONE  ___ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

| Corresponding number on form | Additional Remark and/or Explanation |
|---|---|
| I.1. Site Description | This site is located on a municipal airport. The property was leased from the city. Wastes including chromic acid, paint wastes, solvents were believed to have been discharged illegaly into a drainage ditch. This ditch feeds a pond on the airport property which overflows into a nearby residential pond. Since the company went bankrupt, the Airport authorities contracted for a closure of the facility and it was completed satisfactorily. All material classified as hazardous waste was properly removed and disposed of. Sampling has revealed that chromium has migrated from the site into the residential pond but we do not believe the present level poses a threat to the public or the environment. There is a possibility that the chromium in solution in the airport and residential ponds may inhibit the reproduction of lower aquatic organisms and they may need to be stocked periodically for recreational uses. |

Note: Sampling was conducted in two phases. On April 8, 1986 four samples (Sample Numbers 131929 thru 131932) were collected to ascertain the need for any immediate actions concerning the residential pond. These first samples did not reveal any organic significant contamination.

On September 10, 1986 the second set of samples (Sample Numbers 136758 thru 136766) was taken and only a metals analysis was deemed necessary. The second set of nine samples are what our toxicologist used to do an evaluation of any acute or chronic threats posed by the levels of chromium.

Insp. Date July 11, 1986
Disp. Plan No. 55109
Permit No.
EPA I.D. NO. OKT410010821

# OKLAHOMA CONTROLLED INDUSTRIAL WASTE COMPLIANCE INSPECTION

## SITE IDENTIFICATION

A. Site Name: Gulfstream Aerospace Corp.
B. Street (or other identifier): 5001 N Rockwell

C. City: Bethany
D. State: OK
E. Zip Code: 73008
F. County Name: Oklahoma

G. Site Operator Information: Bill Humes Senior V.P. operator

1. Name: Owner: Chrysler Corp.
S. Telephone Number: 405-789-5000

3. Street: (Same)
4. City
5. State
6. Zip Code

H. Site Description: Manufacture Aircraft Parts

J. Type of Ownership
___1. Federal ___2. State ___3. County ___4. Municipal ✓5. Private

K. ✓1. Generator ___2. Transporter ___3. Treatment ___4. Storage ___5. Disposal

## INSPECTION INFORMATION

A. Principal Inspector Information

1. Name: Lynn Doty RPS
2. Title: Environmental Specialist

3. Organization: OSDH
4. Telephone No. (area code & No.): 405-271-5338

B. Inspection Participants

Joe Reeves, Material + Process Engr. Gulfstream Aerospace Corp
Barbara Mass, Personnel Coordinator Aerospace Corp
Gayla D. Williams Records Clerk/dispatcher "

GENERATO

DATE:

OKLAHOMA CONTROLLED INDUSTRIAL W STE
COMPLIANCE INSPECTION REPORT
GENERATORS CHECKLIST

Note: On multiple part questions circle those not in compliance.

Section A EPA Identification Number.

Area of N/C

1. Does Generator have EPA ID Number. (Rule 1.2.4 IAW 262.12 - EPA ID Number) and approved Disposal Plan (Rule 3.1)? ✓ Yes ____ No

____ a. If yes, EPA ID Number OKT410010821

____ b. OSDH Disposal Plan Number 55109 ✓ Yes ____ No

Section B - Hazardous Waste Determination - (Rule 3.13 IAW 262.11)

1. Does generator generate hazardous waste(s) listed in Subpart D (Rule 2.1 IAW 261.30 - 261.33 - List of Hazardous Waste)? ✓ Yes ____ No

2. Does generator generate solid waste(s) that exhibit hazardous characteristics: (Corrosivity, ignitability, reactivity, EP toxicity) (Rule 2.3 IAW 261.20 - 261.24 - Characteristics of Hazardous Waste)? ✓ Yes ____ No

   a. If yes, list wastes and quantities on attachment. (Include EPA Hazardous Waste Number and Oklahoma Waste Code and provide waste name and description)

   b. Does generator determine characteristics by testing or by applying knowledge of processes? Both

      (1) If determined by testing, did generator use test methods in Part 261, Subpart C (or equivalent)? ✓ Yes ____ No
      USPCx did testing for generators

      (2) If equivalent test methods used, attach copy of equivalent methods used.

3. Are there any other solid wastes deemed non-hazardous by generators? i.e. (process waste streams, collected matter from air pollution control equipment, water treatment sludge, etc.) ____ Yes ✓ No

   a. If yes, did generator determine non-hazardous characteristics by testing or knowledge of process?

      _____ NA

      (1) If determined by testing, did generator use test methods in Part 261, Subpart C (or equivalent)? ____ Yes ____ No

Area of
N/C

(2) If equivalent test methods are used, attach copy of equivalent methods used.

b. List wastes and quantities deemed non-hazardous or processes from which non-hazardous wastes were produced. (Use narrative explanations sheet).

Section C - Manifest

1. Does generator ship hazardous waste off-site? (Subpart B - The Manifest) ✓ Yes ____ No

a. If no, do not fill out Section C and D.

b. If yes, identify primary off-site facility(s). ~~Use narrative explanations sheet.~~: USPCI Lone Mountain

2. Has generator shipped hazardous waste off-site since November 19, 1980? ✓ Yes ____ No

3. Is generator exempted from regulation because of:

Small quantity generator (Rule 2.2 IAW 261.55 - Special requirements) ____ Yes ✓ No
or
produces non-hazardous waste at this time (Rule 2.1 IAW 261.4 - Exclusions)? ____ Yes ✓ No

4. If not exempted does generator use a manifest? (Act 1-2010) ✓ Yes ____ No

a. If yes, is manifest form approved by OSDH? (Act 1-2010) ✓ Yes ____ No

(Check completed manifests at random. Indicate how many manifests were inspected, how many violations were noted and the type of violation).

5. Does all the following information appear on the manifest(s)? (Rule 4.3.1 IAW 262.20) ✓ Yes ____ No

(Circle deficiencies)

a. Manifest document number
b. Generator's name
c. Generator's EPA ID number
d. Generator's State ID number (disposal plan number)
e. Generator's adddress
f. Generator's telephone number
g. Generator's signature
h. Date that waste was offered for shipment
i. Transporter's name
j. Transporter's EPA ID number
k. Transporter's OK ID number

Area of N/C

l. Transporter's telephone number.
m. Secondary transporter information (if applicable)
n. Disposal facility name
o. Disposal facility EPA ID number
p. Disposal facility address
q. Facility's telephone number
r. Alternate facility information (if any)
s. D.O.T. description of waste(s)
t. Total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded onto vehicle.
u. EPA waste code (if applicable)
w. OK waste code

____ 6. (a) Did generator obtain hadwritten signature and date of acceptance from initial transporter? ✓ Yes ____ No

(b) Who signed and dated for transporter? (Rule 4.3.1)
Name Various Title Truck driver

____ 7. Does generator retain one copy of manifest signed by generator and transporter? (Rule 3.9) ✓ Yes ____ No

____ 8. Do returned copies of manifest include facility owner/operator signature and date of acceptance?(Rule 3.10) ✓ Yes ____ No

____ 9. If copy of manifest from facility was not returned within 45 days, did generator file an exception report? (Rule 3.10 et.seq.) NA ____ Yes ____ No

(a) If yes, did it contain the following information

1) Legible copy of manifest NA ____ Yes ____ No

AND

2) Cover letter explaining generator efforts to locate waste. NA ____ Yes ____ No

____ 10. Does (will) generator retain both copies of manifest for 3 years? (Rule 1.3.1.5.1) ✓ Yes ____ No

Section D Pre-Transport Requirements
(THESE REQUIREMENTS APPLY ONLY TO CONTAINERS THAT ARE BEING OFFERED FOR SHIPMENT OFF-SITE)

1. Does generator package waste? ✓ Yes ____ No

If no, skip the rest of Section D
If yes, complete the following questions

____ 2. Does generator package waste in accordance with 49 CFR 173, 178, and 179? (DOT requirements)(Rule 3.16(a) IAW 262.30 - Packaging) ✓ Yes ____ No

Area of N/C

___ 3. Inspect containers to be shipped. (Rule 3.16(a))

a. Are containers to be shipped leaking or corroding or bulging? ___Yes ✓ No

b. Use narrative explanations sheet to describe containers and condition.

c. Is there evidence of heat generation from incompatible wates in the containers? ___Yes ✓ No

___ 4. Does the generator follow DOT labeling requirements before transport in accordance with 49 CFR 172? (Rule 3.16(c) IAW 262.31 labeling) USPCI does Label w. for facility ✓ Yes ___No

___ 5. Does the generator mark each package before transport in accordance with 49 CFR 172? (Rule 3.16(c) IAW 262.32 -Marking) ✓ Yes ___No

✓ 6. Is each container of 110 gallons or less marked with the following label before transport? (Rule 3.16(c) IAW 262.32 - Marking) not all ___Yes ✓ No

Label saying: HAZARDOUS WASTE - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency

Generator's Name and Address _____

_____

Manifest Document Number _____

7. If there are any vechicles present on site loading or unloading hazardous waste, inspect for presence of placards. Note this instance on narrative explanation sheet. (Rule 3.16(d) IAW 262.33) NA

SECTION E - Accumulation Time
(Rule 3.17 and 3.18 IAW 262.34 - Accumulation Time)

1. Is facility a permitted storage facility or does the facility have interim status? ___Yes ✓ No

2. If no:

✓ a. Is hazardous waste shipped off-site within 90 days Have been accepting see narrative ___Yes ✓ No

b. Are containers used to store waste? ✓ Yes ___No

✓ (1) Is the beginning date of accumulation time clearly indicated ? (Rule ~~3.15~~b) 3.16b ___Yes ✓ No

Area of N/C

c. (1) Does generator inspect containers for leakage or corrosion? (Rule 3.16(a) IAW 265.174 - Inspections) Re-use product drums to ship waste, USPCI provides overpacks ____Yes ✓ No

d. (1) Does generator handle ignitable or reactive waste? ✓ Yes ____No

(2) If yes, does generator locate containers holding ignitable or reactive waste at least 15 meters (50 feet) inside facility's property line? (Rule 3.16(a) IAW 265.176 - Special Requirements for Ignitable or Reactive Wastes) ✓ Yes ____No

NOTE: If generator accumulates waste on-site for less than 90 days, fill out Generator Only Supplemental Checklist.

3. Describe storage area. ~~Use photos and~~ narrative ~~explantion sheet.~~: Concrete slab floor inside of storage building with special area roped off.

Section F-Recordkeeping and Records

1. Is generator keeping the following reports? (Rule 1.2.1.5.1 & 3.12 IAW 262.41 - Recorkeeping)(Note: the following must be kept for a minimum of three (3) years.)

a. Manifests and signed copies from designated facilities? ✓ Yes ____No

b. Quarterly Reports (Rule 3.12, 3.7) ✓ Yes ____No

c. Exception Reports (Rule 3.10) NA Yes ____No

d. Test results where applicable. ✓ Yes ____No

e. Biennial Reports for each odd number year (Rule 3.12) ✓ Yes ____No

2. Where are records kept (at facility or elsewhere)?

At facility Office

3. Who is in charge of keeping the records?

Name Gayla Williams Title Records Clerk/Dispatcher

Section G. - Special Condition

1. Has generator received from or transported to a foreign source any hazardous waste? (Rule 3.11 IAW 262.50 - International Shipments) ____Yes ✓ No

| Area of N/C | | |
|---|---|---|
| | If yes, | |
| ____ | a. Has he filed a notice with the Director | NA ____Yes ____No |
| ____ | b. Is this waste manifested and signed by Foreign Consignee? | ____Yes ____No |
| ____ | c. If generator transported wastes out of the country has he received confirmation of delivered shipment? | ____Yes ____No |

Gulfstream 7/11/86

# Generators Checklist Narrative

Item

B.1 + B2 The types of wastes and quantities are attached to this checklist as photocopies of the biennial report, disposal plan and facility records. In addition to the attached list of wastes the facility has contaminated soil to dispose of. On May 22, 1986 a spill of hydrofluoric and chromic acid was reported and the removed soil was sampled. The attached lab report shows this contaminated soil to be EP Toxic for Chromium. After soil removal the ground was sampled by compositing soil every fifty feet along the spill area. The ground sample data is also attached and shows an EP toxic value for lead. It was discovered during sampling that lead contaminated foundry sand had been previously dumped on the ground. The lead contaminated area was colored a dark brown. The facility must initiate a clean-up program for the lead contaminated area. All lead and chromium contaminated soil must be disposed of as a hazardous waste. A memo to the files was written regarding the spill incident.

Gulfstream 7/11/86

Generators
Checklist Narrative Con't

Item

D.6+ E.6.1 Most of the Containers in the storage area did not have the required labels identifying hazardous waste. Those containers which lacked labels also lacked the beginning date of accumulation time.

E.a The Facility is in the process of cleaning out old chemical products and as a result has accumulated a large amount of waste. USPCI packed and labelled the extra waste for shipping. The regular waste was not labelled and all of the containers were stored for more than 90 days while cleanup progressed. The philosophy for exceeding the 90 day limit was to save money by shipping all generated waste at one time to cut transport cost. The date on labelled drums was March 6, 1986.

Do not make entries in shaded ar

OMB #: 2050-0024 Expires: 5-31-88

ENVIRONMENTAL PROTECTION AGENCY

# GENERATOR BIENNIAL HAZARDOUS WASTE REPORT FOR 1985

This report is for the calendar year ending December 31, 1985
Read All Instructions Carefully Before Making Any Entries on Form

## I. NON-REGULATED STATUS

Complete this section only if you did not generate regulated quantities of hazardous waste at any time during the 1985 calendar year. Circle the one code at right that best describes your status during the entire year (see instructions for explanation of codes).

Mailed 4-8-86

1 Non-handler
2 Small Quantity Generator
4 Exempt
5 Beneficial Use
9 Out of Business

Please print/type with elite type (12 characters per inch)

This Installation's Non-Regulated Status is Expected to Apply:

☐ For 1985 Only ☐ Permanently

☐ Other _____

## II. GENERATOR'S EPA I.D. NUMBER

T/A C

F 0 K T 4 1 0 0 1 0 8 2 1 1 1
1 2 13 14 15

C303 ENTRY (OFFICIAL USE ONLY): ☐

## III. NAME OF ESTABLISHMENT

GULF STREAM AERO SPACE CORPORATION
30 69

## IV. ESTABLISHMENT MAILING ADDRESS

3 PO BOX 22500
15 16 45
Street or P.O. Box

4 OKLAHOMA CITY OKLAHOMA 73123
15 16 41 42 47 51
City or Town State Zip Code

## V. LOCATION OF ESTABLISHMENT (if different than section IV above)

5 7400 NW 50th STREET
15 16 45
Street or Route number

6 OKLAHOMA CITY OKLAHOMA 73123
15 16 41 42 47 51
City or Town State Zip Code

## VI. ESTABLISHMENT CONTACT

2 HUMES BILL
15 16 45
Name (last and first)

4 0 5 — 7 8 9 — 5 0 0 0
46 55
Phone No. (area code & no.)

## VII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Print/Type Name | Title | Signature | Date Signed |
|---|---|---|---|
| BILL M HUMES | SR. VICE-PRES | Bill M Humes | 4-8-86 |

Tear out here

Do not make entries in shaded areas

ENVIRONMENTAL PROTECTION AGENCY

# Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

VIII. GENERATOR'S EPA I.D. NO.

T/A C

G O K T 4 1 0 0 1 0 8 2 1 1

1 2 13 14 15

X. FACILITY'S EPA I.D. NO.

F O K D 0 6 5 4 3 8 3 7 6

16 28

XII. TRANSPORTATION SERVICES USED

U.S. Pollution Control, Inc.
OKD981046295

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

Lone Mountain

XI. FACILITY ADDRESS

RR 2, Box 180A
Waynoka, OK 73860

XIII. WASTE IDENTIFICATION

| Sequence # (29–32) | Line # | A. Description of Waste | B. DOT Hazard code (33–34) | C. EPA Hazardous Waste No. (see instructions) (35–38, 39–42, 43–46, 47–50) | D Amount of Waste (51–59) | E. Unit of Measure (60) |
|---|---|---|---|---|---|---|
| | 1 | Mixed acid waste, corrosive liquid, from pickling of steel from cad plating process | 02 | D002 | 5500 | 8.7 lb./gal G |
| | 2 | Soil contaminated w/oil | 15 | 0000 | 2255 | 12.0 lb./gal G |
| | 3 | Zyglo penetrant used for finding cracks in metal | 15 | 0000 | 110 | 6.5 lb./gal G |
| | 4 | Zinc chromate paint sludge, by-product of paint booths | 15 | 0000 | 2090 | 10.0 lb./gal G |
| | 5 | Dried paint waste, by-product of paint booths (sensitizer) | 15 | 0000 | 660 | 8.7 lb./gal G |
| | 6 | Styrene, used to make fiberglass parts | 08 | D001 | 55 | 10.4 lb./gal G |
| | 7 | Oil & water (mainly water) | 15 | 0000 | 1650 | 8.3 lb./gal G |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |

Tear out here

XIV. COMMENTS (enter information by section number—see instructions)

Do not make entries in shaded ar

ENVIRONMENTAL PROTECTION A ICY

# Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

VIII. GENERATOR'S EPA I.D. NO.

G 0 K T 4 1 0 0 1 0 8 2 1 T/A C 1

(1–2, 13–15)

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

Hydrocarbon Recylers, Inc.

X. FACILITY'S EPA I.D. NO.

F 0 K D 0 0 0 6 3 2 7 3 7

(16–28)

XI. FACILITY ADDRESS

5354 W. 46th St. South
Tulsa, Okla. 74157

XII. TRANSPORTATION SERVICES USED

U.S. Pollution Control, Inc.
OKD981046295

XIII. WASTE IDENTIFICATION

| Sequence # (29–32) | Line # | A. Description of Waste | B. DOT Hazard code (33–34) | C. EPA Hazardous Waste No. (see instructions) (35–38, 39–42, 43–46, 47–50) | D. Amount of Waste (51–59) | E. Unit of Measure (60) |
|---|---|---|---|---|---|---|
| | 1 | Methyl Ethyl Ketone | 0 8 | U 1 5 9 | 2 2 0 | 6.7 lb./gal G |
| | 2 | Stoddard solvent, used in degreasing | 0 8 | D 0 0 1 | 1 1 0 | 6.8 lb./gal G |
| | 3 | JP50, jet fuel | 0 8 | D 0 0 1 | 2 7 5 | 6.7 lb./gal G |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |

Tear out here

XIV. COMMENTS (enter information by section number—see instructions)

Do not make entries in shaded areas

ENVIRONMENTAL PROTECTION AGENCY

# Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

VIII. GENERATOR'S EPA I.D. NO.

T/A C

| G | O | K | T | 4 | 1 | 0 | 0 | 1 | 0 | 8 | 2 | 1 | | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | | | | | | | | | | 13 | 14 | 15 |

X. FACILITY'S EPA I.D. NO.

| F | O | K | D | 0 | 6 | 5 | 4 | 3 | 8 | 3 | 7 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | | | | | | | | | | | | 28 |

XII. TRANSPORTATION SERVICES USED

U .S. Pollution Control, Inc.
OKD981046295

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

Lone Mountain

XI. FACILITY ADDRESS

RR 2, Box 180A
Waynoka, OK 73860

XIII. WASTE IDENTIFICATION

| Sequence # (29–32) | Line # | A. Description of Waste | B. DOT Hazard code (33–34) | C. EPA Hazardous Waste No. (see instructions) (35–38, 39–42, 43–46, 47–50) | D. Amount of Waste (51–59) | E. Unit of Measure (60) |
|---|---|---|---|---|---|---|
| | 1 | Mixed acid waste, result of pickling of steel from cad plating and anodizing process | 02 | D002 | 9000 | 8.7 lb./gal G |
| | 2 | | | | | |
| | 3 | | | | | |
| | 4 | | | | | |
| | 5 | | | | | |
| | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| | 9 | | | | | |
| | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |

Tear out here

XIV. COMMENTS (enter information by section number—see instructions)

1985 Generated - Stored on-site less than 90 days as of December 31, 1985

Do not make entries in shaded areas

ENVIRONMENTAL PROTECTION / NCY

# Generator Biennial Hazardous Waste Report for 1985 (cont.)

This report is for the calendar year ending December 31, 1985

Date rec'd: _____ Rec'd by: _____

XV. GENERATOR'S EPA I.D. NO.

T/A C

| G | 0 | K | T | 4 | 1 | 0 | 0 | 1 | 0 | 8 | 2 | 1 | | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | | | | | | | | | | | 13 | 14 | 15 |

XVI. WASTE MINIMIZATION (narrative description)

Due to economic conditions, our facility was forced to discontinue the manufacture of aircraft which resulted in less hazardous waste being generated than previous years. This provided us sufficient time to do a detail cleanup and dispose of excessive materials we had accumulated so we could set up a more efficient inventory control. We are presently implementing a complete program to dispose of our chemicals every 90 days. We are also informing the employees of their right to know of what materials they are handling and providing Material Safety Data Sheets upon request. We have made an effort to dispose of hazardous material in 1985 by cleaning up old pits to prevent any contamination.

Tear out here

14

# CONTROLLED INDUSTRIAL WASTE GENERATOR'S LISTING

This is a listing of all Controlled Industrial Wastes reported to the Oklahoma State Department of Health, Industrial Waste Division as being generated and disposed of by the Business/Plant named below, as of the date specified. This is not a permit and does not constitute authorization of any particular disposal practice, method or site.

Disposal Plan Number 55109, amending plan approved September 6, 1985

has been assigned, as of October 21, 19 85, to: EPA ID Number OKT410010821

Business/Plant Name Gulfstream Aerospace Corp. Commander Business Aircraft

Mailing Address 5001 N. Rockwell, Bethany, OK 73008

Plant Address/Location 7400 Northwest 50th, Oklahoma City, OK 73123

Person in Charge of Facility Bill Humes, V.P. Phone No. ( 405 ) 789-5000

| NO. | STATE WASTE CODE | FEDERAL WASTE CODE | CHARACTERISTIC | DESCRIPTION | USPCI TRANS-PORTER | USPCI RECEIVING FACILITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 1 | 020111 | | Corrosive | Acid and sludge | 2004 | SD47002 | |
| 2 | 020102 | | Corrosive | Mixed acid wastes | 2004 | SD47002 | |
| 3 | 020102 | | Corrosive | Chromic acid | 2004 | SD47002 | |
| 4 | 654103 | | Sensitizer | Contains Zinc Chromate/in Resins + Solvents Dried paint waste | 2004 | SD47002 | |
| 5 | 664116 | | Toxic | Styrene | 2004 @ | ## SD47002 | |
| 6 | 163802 | | Toxic One Time | PCB's | 2005 # | AL00781+ | |
| 7 | 064600 | | Toxic | Zyglo Penetrant | 2004 | SD47002 | |
| 8 | 104110 | U159 | Flammable | MEK | 2004 | RR47001* | |
| 9 | 104611 | | Flammable | Stoddard Solvent | 2004 | RR47001* | |
| 10 | 103000 | | Flammable One Time | Jet fuel Bottoms of tank being emptied | 2004 | RR72001 | |

Facility Contact:

Prepared by: AAC, LJB

\# Alternate hauler is 2004
C+ Alternate disposal site is AR00249
## Alternate disposal site is RR83010
@ Alternate haulers are 1085 and 3055
* Alternate disposal site RR72001

Have waste oils which are Recycled from hydropress 2 x's / yr @ 500-600 gallons each Taken directly from process units

Clean up this year will be amounting in increases on disposal amts

Mailed 10/25/85

OKLAHOMA STATE DEPARTMENT OF HEALTH
INDUSTRIAL & SOLID WASTE SERVICE

ODH Form No. 859
(6-1-82)

# CONTROLLED INDUSTRIAL WASTE
# GENERATOR'S LISTING

This is a listing of all Controlled Industrial Wastes reported to the Oklahoma State Department of Health, Industrial Waste Division as being generated and disposed of by the Business/Plant named below, as of the date specified. This is not a permit and does not constitute authorization of any particular disposal practice, method or site.

Disposal Plan Number 55109, amending plan approved September 6, 1985

has been assigned, as of October 21, 19 85, to: EPA ID Number OKT410010821

Business/Plant Name Page 2

Mailing Address

Plant Address/Location

Person in Charge of Facility Phone No. ( )

| NO. | STATE WASTE CODE | FEDERAL WASTE CODE | CHARACTERISTIC | DESCRIPTION | TRANS-PORTER | RECEIVING FACILITY | REMARKS |
|---|---|---|---|---|---|---|---|
| 11 | 093302 | One Time tank cleanout | Unclassified | Waste oil/water | 2004 | SD47002 | |
| 12 | 793313 | One Time Disposal | Unclassified | Oil contaminated soil | 2004 | SD47002 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Facility Contact:

Prepared by: AAC,LJB

OKLAHOMA STATE DEPARTMENT OF HEALTH
INDUSTRIAL & SOLID WASTE SERVICE

ODH Form No. 859
(6-1-82)

Description: Industrial Waste Disposal Report for 1980 & 1981 & 1982

| Qtr. Ending ↓ Date | Quantity | Dept. No. | Vendor | P.O. No. | Price | Remarks |
|---|---|---|---|---|---|---|
| | | | | 1980 | | |
| -31-80 | None | 020 | None | None | Ø | Ø |
| -30-80 | 6,000 gal. | 020 | U.S. Pollution Control | 21BC239635 | $ 2,178.06 | Selcon 29 Corrosive Solution |
| -30-80 | None | 020 | None | None | Ø | Ø |
| 2-31-80 | None | 020 | None | None | Ø | Ø |
| | | | | 1981 | | |
| Qtr. Ending | | | | | | |
| 3-31-81 | None | 020 | Did not send report - waiting for | | | new disposal plan number |
| -30-81 | None | 020 | Did not send report - waiting for new | | | disposal plan number |
| -30-81 | 4,400 gal. | 020 | U.S.D.C. | 21BC202329 | $ 1,628.64 | caustic waste acids & sludge |
| | 5,000 gal. | " | " | 21BC202452 | $ 1,949.62 | caustic chromic acid solution |
| | 5,000 gal. | " | U.S.P.C. | 21BC202500 | $ 1,821.41 | chromic acid solution |
| 2-31-81 | 32 drums | 020 | U.S.P.C. | 21BC202693 | $ 2,432.00 | caustic chromic-acid solution |
| | | | | 1982 | | |
| Qtr. Ending | | | | | | |
| 3-31-82 | None | 020 | None | None | Ø | Ø (lost copy) |
| -30-82 | 13 drums | 020 | U.S.P.C. | 21BC207390 | $ 1,425.00 | Chromic Acid solution |
| | 3,000 ~~300~~ gal. | " | U.S.P.C. | 207471 | $ 4,331.00 | Chromic Acid solution |
| | 5,100 gal. | " | U.S.P.C. | " | | Dried paint waste |
| -30-82 | 15 drums | 020 | U.S.P.C. | 207657 | $ 1,871.00 | Polyester Styrene |
| | 2 drums | " | " | " | | zinc chromate sludge |
| 2-31-82 | ~~None~~ | ~~020~~ | ~~None~~ | ~~None~~ | ~~Ø~~ | ~~Ø~~ |
| | 1 drum | 020 | U.S.P.C. | 208042 | $ 1,506.00 | Chemical cleaner |
| | 4 drums | " | " | " | | Paint waste |
| | 1 drum | " | " | " | | Resin |

Form 480 (10-60)

Description:

# Industrial Waste Disposal Report for 1983

Qtr. Ending 1983

| Date | Quantity | Dept. No. | Vendor | P.O. No. | Price | Remarks |
|---|---|---|---|---|---|---|
| 2-23-82 | ~~1 drum~~ | ~~020~~ | ~~U.S.P.C.~~ | ~~208042~~ | | ~~Chemical Cleaner~~ |
| | ~~4 drums~~ | " | " | " | | ~~Paint~~ |
| -31-83 | ø | 020 | — | — | | ø |
| | | | | | | |
| 30-83 | 5,000 gal. | 020 | U.S.P.C. | 213529 | 2,148.45 | Deoxidizer |
| | | | | | | |
| -30-83 | 2 gal. | 020 | U.S.P.C. | 213815 | 1,097.00 | PCB transformer oil |
| | 4,5000 gal | 020 | " | 213788 | 4,169.86 | Mixed acid wastes |
| | | | | | | |
| -31-83 | 1,155 gal. | 020 | Diaz Refinery ~~Sandell~~ | 214214 | 1,050.00 | Zinc chromate |
| | ~~550~~ 365 gal. | 020 | " | " | ~~500.00~~ 350.00 | Resin & Solvents |
| | | | | 1984 | | |
| -31-84 | 5,100 gal. | 020 | U.S.P.C. | 214637 | 1,881.46 | Acid & sludge corrosive |
| | | | | | | |
| -30-84 | ø | 020 | — | — | | — |
| | | | | | | |
| -30-84 | ø | 020 | — | — | | — |
| | | | | | | |
| 2-31-84 | ø | 020 | — | — | | |
| | | | | | | |

Description:

Qtr. Ending 1985

| Date | Quantity | Dept. No. | Vendor | P.O. No. | Price | Remarks |
|---|---|---|---|---|---|---|
| -31-85 | None | 020 | — | — | — | — |
| -31-85 | (4-24) 5500 gal. | 020 | U.S.P.C. | 217293 | *2,852.29 | Mixed acid wastes |
| 30-85 | None | 020 | — | — | — | — |
| 31-85 | (11-11-85) 2255 gal. | 020 | U.S.P.C. (to Lone Mountain) | 216673 | *6,796.90 (Total) | Soil contaminated w/oil |
| | (11-11-85) 110 gal. | " | " " | " | | Zyglo penetrant |
| | (11-11-85) 1210 gal. | " | " " | " | | * Zinc chromate paint sludge |
| | (11-11-85) 110 gal. | " | " " | " | | Chromic acid, neutralized pH 7 |
| | (11-11-85) 55 gal. | " | " " | " | | Styrene |
| | (12-11-85) 220 gal. | " | U.S.P.C. (to Hydrocarbon Recyclers) | 216709 | *5,620.65 | MEK |
| | (12-11-85) 110 gal. | " | " " | " | | Stoddard Solvent |
| | (12-11-85) 275 gal. | " | " " | " | | Jet fuel (JP50) |
| | (12-11-85) 1,650 gal. | " | " (to Lone Mountain) | " | | Oil & water |
| | (12-11-85) 880 gal. | " | " " | " | | * Zinc Chromate paint sludge |
| 660 | (12-11-85) ~~220~~ gal. | " | " " | " | | * Dried paint waste |
| Total | Gal. for | Year | 1985 — ~~10,395~~ 13,035 | | | * All same OKla. Waste Code No. |

Description:

Qtr. Ending 1986

| Date | Quantity | Dept. No. | Vendor | P.O. No. | Price | Remarks |
|---|---|---|---|---|---|---|
| -31-86 | (1-6-86) 5000 gal. | 020 | U.S.P.C. | 216726 | $2,670.11 | Mixed acid wastes |
| | (1-16-86) 4000 gal. | 020 | U.S.P.C. | 216741 | $2,169.71 | Mixed acid wastes |
| 30-86 | | (Did not report on quarterly report - not considered haz. waste) | | | | |
| port? | (4-11-86) 2400 gal. | 020 | Hydrocarbon Recyclers | 218887 | $ 960.00 | 100 octane aviation fuel |
| | | | | | | |
| 30-86 | | | | | | |

SAMPLE NUMBER 133407 00000
DATE COLLECTED 05/27/86
DATE RECEIVED 05/28/86
DATE COMPLETED 06/18/86
STATION
COLLECTED BY LYNN DOTY

OKLAHOMA STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

RECEIVED
JUN 2 0 1986

Soil removed and placed in Storage bins

DWAIN FARLEY, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY OK 73152

COPY

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LUORIDE IN SEDIMENT | | 28.80 | MG/KG | PH (LAB) | | 11.60 | STD UNI |
| RSENIC IN SEDIMENT | < | 3.00 | MG/KG | BARIUM IN SEDIMENT | | 52.00 | MG/KG |
| ADMIUM IN SEDIMENT | | 9.71 | MG/KG | EP TOX CHROMIUM | | 26800 | UG/L |
| HROMIUM IN SEDIMENT | | 1281.00 | MG/KG | LEAD IN SEDIMENT | | 156.00 | MG/KG |
| P TOX LEAD | < | 45 | UG/L | MERCURY IN SEDIMENT | < | 0.05 | MG/KG |
| ELENIUM IN SEDIMENT | | 4.63 | MG/KG | SILVER IN SEDIMENT | < | 0.35 | MG/KG |

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE GULFSTREAM AEROSPACE SURFACE CITY OKLAHOMA CITY
PROGRAM WASTE MGMT SER(GENERAL PROJ)
COUNTY OKLAHOMA

LEGAL
/4 /4 /4 SEC T R M

SAMPLER'S COMMENTS CHROMIC AND HYDROFLUORIC ACIDS WERE SPILLED ON GROUND AND NEUTRALIZED WITH SLATE LIME

ANALYST'S COMMENTS No free liquid

FORM NO 314 (8-77) REQUISITIONER COPY 21 ANALYST [illegible]

SAMPLE NUMBER 133406 00000

DATE COLLECTED 05/27/86

DATE RECEIVED 05/28/86

DATE COMPLETED 06/18/86

STATION

COLLECTED BY LYNNE DUTY

OKLAHOMA STATE DEPARTMENT OF HEALTH

STATE WATER QUALITY LABORATORY

WATER ANALYSIS REPORT

RECEIVED

JUN 2 0 1986

Waste Management Office

Soil Remaining on Ground after Clean-up operations

COPY

DWAIN FARLEY, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY OK 73152

GENEPAL PROJECTS

CONCENTRATION IN SAMPLE

| | | | | | | |
|---|---|---|---|---|---|---|
| FLUORIDE IN SEDIMENT | 110.00 | MG/KG | PH (LAB) | | 11.10 | STD UNI |
| ARSENIC IN SEDIMENT | 11.87 | MG/KG | BARIUM IN SEDIMENT | | 47.75 | MG/KG |
| CADMIUM IN SEDIMENT | 9.05 | MG/KG | EP TOX CHROMIUM | | 911 | UG/L |
| CHROMIUM IN SEDIMENT | 641.60 | MG/KG | LEAD IN SEDIMENT | | 4850.00 | MG/KG |
| EP TOX LEAD | 11970 | UG/L | MERCURY IN SEDIMENT | < | 0.05 | MG/KG |
| SELENIUM IN SEDIMENT | 5.50 | MG/KG | SILVER IN SEDIMENT | < | 0.35 | MG/KG |

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE GULFSTREAM AEROSPACE SURFACE CITY OKLAHOMA CITY

PROGRAM WASTE MGMT SER (GENERAL PROJ)

COUNTY OKLAHOMA

LEGAL

/4 /4 /4 SEC T R M

SAMPLER'S COMMENTS CHROMIC AND HYDROFLUORIC ACIDS WERE SPILLED ON GROUND AND NEUTRALIZED WITH SLATE LIME. SAMPLE 1

ANALYST'S COMMENTS No free liquid

OD FORM NO 814 (9-77) REQUISITIONER COPY 2 ANALYST

PLE NUMBER 131929 00000
ATE COLLECTED 04/08/86 TIME 12:50
DATE RECEIVED 04/11/86
DATE COMPLETED 07/24/86
STATION HMS55126
COLLECTED BY AF

OKLAH A STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

RECEIVED
JUL 25 AM
Waste Management Service

AIR CENTER

COPY

H. A. CAVES, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY, 73152

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | REMARKS | VALUE | UNITS | PARAMETER | REMARKS | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| ANTIMONY IN SED | < | 17.50 | MG/KG | ARSENIC IN SEDIMENT | | 4.00 | MG/KG |
| BARIUM IN SEDIMENT | | 93.00 | MG/KG | BERYLLIUM IN SEDIMNT | | 1.00 | MG/KG |
| CADMIUM IN SEDIMENT | < | 1.00 | MG/KG | CHROMIUM IN SEDIMENT | | 17.00 | MG/KG |
| COPPER IN SEDIMENT | | 7.00 | MG/KG | LEAD IN SEDIMENT | | 48.00 | MG/KG |
| MERCURY IN SEDIMENT | < | 0.05 | MG/KG | NICKEL IN SEDIMENT | | 14.00 | MG/KG |
| SELENIUM IN SEDIMENT | < | 1.25 | MG/KG | SILVER IN SEDIMENT | < | 1.50 | MG/KG |
| THALLIUM IN SEDIMENT | < | 10.000 | MG/KG | ZINC IN SEDIMENT | | 32.00 | MG/KG |
| PHENOL IN SEDIMENT | N | | UG/KG | 2-CHLOROPHENOL SED | N | | UG/KG |
| 2,4-DIMETHLYPHENOL S | N | | UG/KG | 2-NITROPHENOL SED | N | | UG/KG |
| 2,4-DICHLOROPHENOL S | N | | UG/KG | P-CHLORO-M-CRESOL SD | N | | UG/KG |
| 246-TRICHLROPHENOL S | N | | UG/KG | 4-NITROPHENOL SED | N | | UG/KG |
| 2,4-DINITROPHENOL SD | N | | UG/KG | 46DINITRO-O-CRESOL S | N | | UG/KG |
| PENTACHLOROPHENOL SD | N | | UG/KG | BIS2CHLRMTHYL-ETHR S | N | | UG/KG |
| 1,4-DICHLROBENZENE S | N | | UG/KG | BIS2CLROISOPYPLETH S | N | | UG/KG |
| NITROBENZENE IN SED | N | | UG/KG | DIMETHYLPHTHALATE S | N | | UG/KG |
| 2,6-DINITROTOLUENE S | N | | UG/KG | ACENAPHTHYLENE IN S | N | | UG/KG |
| 2-METHYLPHENOL SED | N | | UG/KG | 4-METHYLPHENOL SED | N | | UG/KG |
| 245-TRICHLROPHENOL S | N | | UG/KG | BENZOIC ACID SED | N | | UG/KG |
| 4-BROMOPHPHETHER SED | N | | UG/KG | BENZYL ALCOHOL SED | N | | UG/KG |
| 4-CHLOROANALINE SED | N | | UG/KG | 2-NITROANALINE SED | N | | UG/KG |
| 3-NITROANALINE SED | N | | UG/KG | DIBENZOFURAN IN SED | N | | UG/KG |
| 4-NITROANALINE SED | N | | UG/KG | 3,3'-DICLROBNZDINE S | N | | UG/KG |
| BIS2ETHLHXLPHTHLTE S | | 430 | UG/KG | BNZO(B)FLURANTHENE S | N | | UG/KG |
| 1,2-DICHLOROBNZENE S | N | | UG/KG | 1,3-DICHLROBENZENE S | N | | UG/KG |
| BIS2CLROETHXYMTHNE S | N | | UG/KG | NAPTHALAENE IN SED | N | | UG/KG |
| HEXACHLROBUTADIENE S | N | | UG/KG | ACENAPHTHENE IN SED | N | | UG/KG |
| DIETHYLPHTHALATE S | N | | UG/KG | FLUORENE IN SEDIMENT | N | | UG/KG |
| HEXACHLOROBENZENE S | N | | UG/KG | ANTHRACENE IN SEDMNT | N | | UG/KG |
| PYRENE IN SEDIMENT | N | | UG/KG | CHRYSENE IN SEDIMENT | N | | UG/KG |
| 2-CHLRONAPHTHALENE S | N | | UG/KG | NTROSODIPHNYLAMNE S | N | | UG/KG |
| 2-MTHYL NPHTHALENE S | N | | UG/KG | PHENANTHRENE SED | N | | UG/KG |
| FLUORANTHENE SED | N | | UG/KG | BTYLBNZYLPHTHALATE S | N | | UG/KG |

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA

CITY OKLAHOMA CITY

LEGAL

/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLER'S COMMENTS #1 WEST END OF POND

ANALYST'S COMMENTS

OHD FORM NO 814 (8-77) REQUISITIONER COPY

ANALYST Bill Battens

SAMPLE NUMBER 131929 00000
DATE COLLECTED 04/08/86 TIME 12:50
DATE RECEIVED 04/11/86
DATE COMPLETED 07/24/86
STATION HMS55126
COLLECTED BY AF

RECEIVED
JUL 25 AM
Waste Management Service

OKLAHOMA STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

AIR CENTER

H. A. CAVES, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY, 73152

COPY

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | REMARKS | VALUE | UNITS | PARAMETER | REMARKS | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| 4-CHLOROPHPHETHER S | N | | UG/KG | DI-N-OCTYLPHTHALTE S | N | | UG/KG |
| BENZO(A)PYRENE S | N | | UG/KG | BNZO(K)FLURANTHENE S | N | | UG/KG |
| BENZO(GHI)PERYLENE S | N | | UG/KG | INDENO(123CD)PYRNE S | N | | UG/KG |
| DI-N-BUTYLPHTHALTE S | N | | UG/KG | BENZO(A)ANTHRACENE S | N | | UG/KG |
| 2,4-DINITROTOLUENE S | N | | UG/KG | DIBNZO(AH)ANTHRACE S | N | | UG/KG |
| NTROSODIPROPYLAMNE S | N | | UG/KG | HEXACHLOROETHANE S | N | | UG/KG |
| ISOPHORONE S | N | | UG/KG | 124-TRICHOROBENZNE S | N | | UG/KG |
| HXACLROCYCLPNTDENE S | N | | UG/KG | METH ETH KETON SED | N | | UG/KG |
| STRYENE IN SEDIMENT | N | | UG/KG | XYLENES IN SEDIMENT | N | | UG/KG |
| ACETONE IN SEDIMENT | N | | UG/KG | METHYL ISOBTYL KET S | N | | UG/KG |
| CARBONDISULFIDE SED | N | | UG/KG | METHYLENE CHLORIDE S | N | | UG/KG |
| 1,1-DICLROETHYLENE S | N | | UG/KG | 1,1-DICHLOROETHANE S | N | | UG/KG |
| TRN1,2DICHLRETHENE S | N | | UG/KG | CHLOROFORM IN SED | N | | UG/KG |
| 1,2-DICHLOROETHANE S | N | | UG/KG | 1,1,1-TRICLRETHANE S | N | | UG/KG |
| CARBON TETRACHLRDE S | N | | UG/KG | DICLOROBRMOMETHANE S | N | | UG/KG |
| 1,2-DICHLOROPROPNE S | N | | UG/KG | T-1,3-DICLROPRPENE S | N | | UG/KG |
| TRICHLOROETHYLENE S | N | | UG/KG | DIBROMOCHLOROMTHNE S | N | | UG/KG |
| C-1,3-DICLROPRPENE S | N | | UG/KG | 112-TRICLOROETHANE S | N | | UG/KG |
| BENZENE IN SEDIMENT | N | | UG/KG | BROMOFORM IN SED | N | | UG/KG |
| TETRACLOROETHLENE S | N | | UG/KG | 1122-TETRACLETHANE S | N | | UG/KG |
| TOLUENE IN SEDIMENT | N | | UG/KG | CHLOROBENZENE IN SED | N | | UG/KG |
| ETHYLBENZENE IN SED | N | | UG/KG | METHYL CHLORIDE SED | N | | UG/KG |
| METHYL BROMIDE SED | N | | UG/KG | VINYL CHLORIDE SED | N | | UG/KG |
| CHLOROETHANE IN SED | N | | UG/KG | 2-CHLROETHLVNLETHR S | N | | UG/KG |
| 2-HEXANONE IN SED | N | | UG/KG | VINYL ACETATE SED | N | | UG/KG |

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT
N NOT DETECTED

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA
CITY OKLAHOMA CITY

LEGAL
/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLER'S COMMENTS #1 WEST END OF POND

ANALYST'S COMMENTS

OHD FORM NO 814 (8-77) REQUISITIONER COPY

ANALYST Bill Battery

SAMPLE NUMBER 131930 00000
DATE COLLECTED 04/08/86 TIME 13:15
DATE RECEIVED 04/11/86
DATE COMPLETED 07/24/86
STATION HMS55126
COLLECTED BY AF

RECEIVED
JUL 25 AM
Waste Management Service

OKLAH A STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

AIR CENTER

H. A. CAVES, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY, 73152

COPY

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | REMARKS | VALUE | UNITS | PARAMETER | REMARKS | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| ANTIMONY IN SED | < | 17.50 | MG/KG | ARSENIC IN SEDIMENT | | 5.00 | MG/KG |
| BARIUM IN SEDIMENT | | 333.00 | MG/KG | BERYLLIUM IN SEDIMNT | | 1.00 | MG/KG |
| CADMIUM IN SEDIMENT | < | 1.00 | MG/KG | CHROMIUM IN SEDIMENT | | 8.00 | MG/KG |
| COPPER IN SEDIMENT | | 4.00 | MG/KG | LEAD IN SEDIMENT | | 10.00 | MG/KG |
| MERCURY IN SEDIMENT | < | 0.05 | MG/KG | NICKEL IN SEDIMENT | < | 5.00 | MG/KG |
| SELENIUM IN SEDIMENT | < | 1.25 | MG/KG | SILVER IN SEDIMENT | < | 1.50 | MG/KG |
| THALLIUM IN SEDIMENT | < | 10.000 | MG/KG | ZINC IN SEDIMENT | | 16.00 | MG/KG |
| PHENOL IN SEDIMENT | N | | UG/KG | 2-CHLOROPHENOL SED | N | | UG/KG |
| 2,4-DIMETHLYPHENOL S | N | | UG/KG | 2-NITROPHENOL SED | N | | UG/KG |
| 2,4-DICHLOROPHENOL S | N | | UG/KG | P-CHLORO-M-CRESOL SD | N | | UG/KG |
| 246-TRICHLROPHENOL S | N | | UG/KG | 4-NITROPHENOL SED | N | | UG/KG |
| 2,4-DINITROPHENOL SD | N | | UG/KG | 46DINITRO-O-CRESOL S | N | | UG/KG |
| PENTACHLOROPHENOL SD | N | | UG/KG | BIS2CHLRMTHYL-ETHR S | N | | UG/KG |
| 1,4-DICHLROBENZENE S | N | | UG/KG | BIS2CLROISOPYPLETH S | N | | UG/KG |
| NITROBENZENE IN SED | N | | UG/KG | DIMETHYLPHTHALATE S | N | | UG/KG |
| 2,6-DINITROTOLUENE S | N | | UG/KG | ACENAPHTHYLENE IN S | N | | UG/KG |
| 2-METHYLPHENOL SED | N | | UG/KG | 4-METHYLPHENOL SED | N | | UG/KG |
| 245-TRICHLROPHENOL S | N | | UG/KG | BENZOIC ACID SED | N | | UG/KG |
| 4-BROMOPHPHETHER SED | N | | UG/KG | BENZYL ALCOHOL SED | N | | UG/KG |
| 4-CHLOROANALINE SED | N | | UG/KG | 2-NITROANALINE SED | N | | UG/KG |
| 3-NITROANALINE SED | N | | UG/KG | DIBENZOFURAN IN SED | N | | UG/KG |
| 4-NITROANALINE SED | N | | UG/KG | 3,3'-DICLROBNZDINE S | N | | UG/KG |
| BIS2ETHLHXLPHTHLTE S | N | | UG/KG | BNZO(B)FLURANTHENE S | N | | UG/KG |
| 1,2-DICHLOROBNZENE S | N | | UG/KG | 1,3-DICHLROBENZENE S | N | | UG/KG |
| BIS2CLROETHXYMTHNE S | N | | UG/KG | NAPTHALAENE IN SED | N | | UG/KG |
| HEXACHLROBUTADIENE S | N | | UG/KG | ACENAPHTHENE IN SED | N | | UG/KG |
| DIETHYLPHTHALATE S | N | | UG/KG | FLUORENE IN SEDIMENT | N | | UG/KG |
| HEXACHLOROBENZENE S | N | | UG/KG | ANTHRACENE IN SEDMNT | N | | UG/KG |
| PYRENE IN SEDIMENT | N | | UG/KG | CHRYSENE IN SEDIMENT | N | | UG/KG |
| 2-CHLRONAPHTHALENE S | N | | UG/KG | NTROSODIPHNYLAMNE S | N | | UG/KG |
| 2-MTHYL NPHTHALENE S | N | | UG/KG | PHENANTHRENE SED | N | | UG/KG |
| FLUORANTHENE SED | N | | UG/KG | BTYLBNZYLPHTHALATE S | N | | UG/KG |

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA
CITY OKLAHOMA CITY

LEGAL
/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLERS #2 POND
COMMENTS

ANALYST'S COMMENTS

OHD FORM NO 814 (8-77) REQUISITIONER COPY

ANALYST Bill Battery

SAMPLE NUMBER 131930 00000
DATE COLLECTED 04/08/86 TIME 13:15
DATE RECEIVED 04/11/86
DATE COMPLETED 07/24/86
STATION HMS55126
COLLECTED BY AF

RECEIVED
JUL 25 AM
Waste Management Service

OKLAHOMA STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

AIR CENTER

H. A. CAVES, CHIEF
WASTE MANAGEMENT SERVICE
OSDH RCCM 803
OKLAHOMA CITY, 73152

COPY

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | REMARKS | VALUE | UNITS | PARAMETER | REMARKS | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| 4-CHLOROPHPHETHER S | N | | UG/KG | DI-N-OCTYLPHTHALTE S | N | | UG/KG |
| BENZO(A)PYRENE S | N | | UG/KG | BNZO(K)FLURANTHENE S | N | | UG/KG |
| BENZO(GHI)PERYLENE S | N | | UG/KG | INDENO(123CD)PYRNE S | N | | UG/KG |
| DI-N-BUTYLPHTHALTE S | N | | UG/KG | BENZO(A)ANTHRACENE S | N | | UG/KG |
| 2,4-DINITROTOLUENE S | N | | UG/KG | DIBNZO(AH)ANTHRACE S | N | | UG/KG |
| NITROSODIPROPYLAMNE S | N | | UG/KG | HEXACHLOROETHANE S | N | | UG/KG |
| ISOPHORONE S | N | | UG/KG | 124-TRICHOROBENZNE S | N | | UG/KG |
| HXACLROCYCLPNTDENE S | N | | UG/KG | METH ETH KETON SED | N | | UG/KG |
| STRYENE IN SEDIMENT | N | | UG/KG | XYLENES IN SEDIMENT | N | | UG/KG |
| ACETONE IN SEDIMENT | N | | UG/KG | METHYL ISOBTYL KET S | N | | UG/KG |
| CARBONDISULFIDE SED | N | | UG/KG | METHYLENE CHLORIDE S | N | | UG/KG |
| 1,1-DICLROETHYLENE S | N | | UG/KG | 1,1-DICHLOROETHANE S | N | | UG/KG |
| TRN1,2DICHLRETHENE S | N | | UG/KG | CHLOROFORM IN SED | N | | UG/KG |
| 1,2-DICHLOROETHANE S | N | | UG/KG | 1,1,1-TRICLRETHANE S | N | | UG/KG |
| CARBON TETRACHLRDE S | N | | UG/KG | DICLOROBRMOMETHANE S | N | | UG/KG |
| 1,2-DICHLOROPROPNE S | N | | UG/KG | T-1,3-DICLROPRPENE S | N | | UG/KG |
| TRICHLOROETHYLENE S | N | | UG/KG | DIBROMOCHLOROMTHNE S | N | | UG/KG |
| C-1,3-DICLROPRPENE S | N | | UG/KG | 112-TRICLOROETHANE S | N | | UG/KG |
| BENZENE IN SEDIMENT | N | | UG/KG | BROMOFORM IN SED | N | | UG/KG |
| TETRACLOROETHLENE S | N | | UG/KG | 1122-TETRACLETHANE S | N | | UG/KG |
| TOLUENE IN SEDIMENT | N | | UG/KG | CHLOROBENZENE IN SED | N | | UG/KG |
| ETHYLBENZENE IN SED | N | | UG/KG | METHYL CHLORIDE SED | N | | UG/KG |
| METHYL BROMIDE SED | N | | UG/KG | VINYL CHLORIDE SED | N | | UG/KG |
| CHLOROETHANE IN SED | N | | UG/KG | 2-CHLROETHLVNLETHR S | N | | UG/KG |
| 2-HEXANONE IN SED | N | | UG/KG | VINYL ACETATE SED | N | | UG/KG |

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT
N NOT DETECTED

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA
CITY OKLAHOMA CITY

LEGAL
/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLER'S COMMENTS #2 PCND

ANALYST'S COMMENTS

OHD FORM NO 814 (8-77) REQUISITIONER COPY

ANALYST Bill Batten

SAMPLE NUMBER 131931
DATE COLLECTED 04/08/86
DATE RECEIVED 04/11/86
DATE COMPLETED 07/24/86
STATION HMS55126
COLLECTED BY AF

00000

RECEIVED
JUL 25 AM
Waste Management Service

OKLAH A STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

AIR CENTER

H. A. CAVES, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY, 73152

COPY

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | | VALUE | UNITS | PARAMETER | | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| ANTIMONY IN SED | < | 17.50 | MG/KG | ARSENIC IN SEDIMENT | | 3.50 | MG/KG |
| BARIUM IN SEDIMENT | | 104.00 | MG/KG | BERYLLIUM IN SEDIMNT | | 1.00 | MG/KG |
| CADMIUM IN SEDIMENT | < | 1.00 | MG/KG | CHROMIUM IN SEDIMENT | | 19.00 | MG/KG |
| COPPER IN SEDIMENT | | 8.00 | MG/KG | LEAD IN SEDIMENT | | 16.00 | MG/KG |
| MERCURY IN SEDIMENT | < | 0.05 | MG/KG | NICKEL IN SEDIMENT | | 11.00 | MG/KG |
| SELENIUM IN SEDIMENT | < | 1.25 | MG/KG | SILVER IN SEDIMENT | < | 1.50 | MG/KG |
| THALLIUM IN SEDIMENT | < | 10.000 | MG/KG | ZINC IN SEDIMENT | | 32.00 | MG/KG |
| PHENOL IN SEDIMENT | N | | UG/KG | 2-CHLOROPHENOL SED | N | | UG/KG |
| 2,4-DIMETHLYPHENOL S | N | | UG/KG | 2-NITROPHENOL SED | N | | UG/KG |
| 2,4-DICHLOROPHENOL S | N | | UG/KG | P-CHLORO-M-CRESOL SD | N | | UG/KG |
| 246-TRICHLROPHENOL S | N | | UG/KG | 4-NITROPHENOL SED | N | | UG/KG |
| 2,4-DINITROPHENOL SD | N | | UG/KG | 46DINITRO-O-CRESOL S | N | | UG/KG |
| PENTACHLOROPHENOL SD | N | | UG/KG | BIS2CHLRMTHYL-ETHR S | N | | UG/KG |
| 1,4-DICHLROBENZENE S | N | | UG/KG | BIS2CLROISOPYPLETH S | N | | UG/KG |
| NITROBENZENE IN SED | N | | UG/KG | DIMETHYLPHTHALATE S | N | | UG/KG |
| 2,6-DINITROTOLUENE S | N | | UG/KG | ACENAPHTHYLENE IN S | N | | UG/KG |
| 2-METHYLPHENOL SED | N | | UG/KG | 4-METHYLPHENOL SED | N | | UG/KG |
| 245-TRICHLROPHENOL S | N | | UG/KG | BENZOIC ACID SED | N | | UG/KG |
| 4-BROMOPHPHETHER SED | N | | UG/KG | BENZYL ALCOHOL SED | N | | UG/KG |
| 4-CHLOROANALINE SED | N | | UG/KG | 2-NITROANALINE SED | N | | UG/KG |
| 3-NITROANALINE SED | N | | UG/KG | DIBENZOFURAN IN SED | N | | UG/KG |
| 4-NITROANALINE SED | N | | UG/KG | 3,3'-DICLROBNZDINE S | N | | UG/KG |
| BIS2ETHLHXLPHTHLTE S | N | | UG/KG | BNZO(B)FLURANTHENE S | N | | UG/KG |
| 1,2-DICHLOROBNZENE S | N | | UG/KG | 1,3-DICHLROBENZENE S | N | | UG/KG |
| BIS2CLROETHXYMTHNE S | N | | UG/KG | NAPTHALAENE IN SED | N | | UG/KG |
| HEXACHLROBUTADIENE S | N | | UG/KG | ACENAPHTHENE IN SED | N | | UG/KG |
| DIETHYLPHTHALATE S | N | | UG/KG | FLUORENE IN SEDIMENT | N | | UG/KG |
| HEXACHLOROBENZENE S | N | | UG/KG | ANTHRACENE IN SEDMNT | N | | UG/KG |
| PYRENE IN SEDIMENT | N | | UG/KG | CHRYSENE IN SEDIMENT | N | | UG/KG |
| 2-CHLRONAPHTHALENE S | N | | UG/KG | NTROSODIPHNYLAMNE S | N | | UG/KG |
| 2-MTHYL NPHTHALENE S | N | | UG/KG | PHENANTHRENE SED | N | | UG/KG |
| FLUORANTHENE SED | N | | UG/KG | BTYLBNZYLPHTHALATE S | N | | UG/KG |

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA

CITY OKLAHOMA CITY

LEGAL
/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLER'S #3 POND
COMMENTS

ANALYST'S
COMMENTS

OSDH FORM NO 814 (3 77) REQUISITIONER COPY

ANALYST Bill Batten

SAMPLE NUMBER 131931
DATE COLLECTED 04/08/86
DATE RECEIVED 04/11/86
DATE COMPLETED 07/24/86
STATION HMS55126
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OKLAH A STATE DEPARTMENT OF HEALTH
STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

AIR CENTER

Waste Management Service

H. A. CAVES, CHIEF
WASTE MANAGEMENT SERVICE
OSDH ROOM 803
OKLAHOMA CITY, 73152

COPY

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | REMARK | VALUE | UNITS | PARAMETER | REMARK | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| 4-CHLOROPHPHETHER S | N | | UG/KG | DI-N-OCTYLPHTHALTE S | N | | UG/KG |
| BENZO(A)PYRENE S | N | | UG/KG | BNZO(K)FLURANTHENE S | N | | UG/KG |
| BENZO(GHI)PERYLENE S | N | | UG/KG | INDENO(123CD)PYRNE S | N | | UG/KG |
| DI-N-BUTYLPHTHALTE S | N | | UG/KG | BENZO(A)ANTHRACENE S | N | | UG/KG |
| 2,4-DINITROTOLUENE S | N | | UG/KG | DIBNZO(AH)ANTHRACE S | N | | UG/KG |
| NTROSODIPROPYLAMNE S | N | | UG/KG | HEXACHLOROETHANE S | N | | UG/KG |
| ISOPHORONE S | N | | UG/KG | 124-TRICHOROBENZNE S | N | | UG/KG |
| HXACLROCYCLPNTDENE S | N | | UG/KG | METH ETH KETON SED | N | | UG/KG |
| STRYENE IN SEDIMENT | N | | UG/KG | XYLENES IN SEDIMENT | N | | UG/KG |
| ACETONE IN SEDIMENT | N | | UG/KG | METHYL ISOBTYL KET S | N | | UG/KG |
| CARBONDISULFIDE SED | N | | UG/KG | METHYLENE CHLORIDE S | N | | UG/KG |
| 1,1-DICLROETHYLENE S | N | | UG/KG | 1,1-DICHLOROETHANE S | N | | UG/KG |
| TRN1,2DICHLRETHENE S | N | | UG/KG | CHLOROFORM IN SED | N | | UG/KG |
| 1,2-DICHLOROETHANE S | N | | UG/KG | 1,1,1-TRICLRETHANE S | N | | UG/KG |
| CARBON TETRACHLRDE S | N | | UG/KG | DICLOROBRMOMETHANE S | N | | UG/KG |
| 1,2-DICHLOROPROPNE S | N | | UG/KG | T-1,3-DICLROPRPENE S | N | | UG/KG |
| TRICHLOROETHYLENE S | N | | UG/KG | DIBROMOCHLOROMTHNE S | N | | UG/KG |
| C-1,3-DICLROPRPENE S | N | | UG/KG | 112-TRICLOROETHANE S | N | | UG/KG |
| BENZENE IN SEDIMENT | N | | UG/KG | BROMOFORM IN SED | N | | UG/KG |
| TETRACLOROETHLENE S | N | | UG/KG | 1122-TETRACLETHANE S | N | | UG/KG |
| TOLUENE IN SEDIMENT | N | | UG/KG | CHLOROBENZENE IN SED | N | | UG/KG |
| ETHYLBENZENE IN SED | N | | UG/KG | METHYL CHLORIDE SED | N | | UG/KG |
| METHYL BROMIDE SED | N | | UG/KG | VINYL CHLORIDE SED | N | | UG/KG |
| CHLOROETHANE IN SED | N | | UG/KG | 2-CHLROETHLVNLETHR S | N | | UG/KG |
| 2-HEXANONE IN SED | N | | UG/KG | VINYL ACETATE SED | N | | UG/KG |

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT
N NOT DETECTED

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA
CITY OKLAHOMA CITY

LEGAL

/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLER S #3 POND
COMMENTS

ANALYST S
COMMENTS

LHD FORM NO 814 (8-77) REQUISITIONER COPY

ANALYST Bill Battery

SAMPLE NUMBER 131932
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GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | | VALUE | UNITS | PARAMETER | | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| ANTIMONY IN SED | < | 17.50 | MG/KG | ARSENIC IN SEDIMENT | ✓ | 14.00 | MG/KG |
| BARIUM IN SEDIMENT | | 157.00 | MG/KG | BERYLLIUM IN SEDIMNT | | 2.00 | MG/KG |
| CADMIUM IN SEDIMENT | < | 1.00 | MG/KG | CHROMIUM IN SEDIMENT | | 34.00 | MG/KG |
| COPPER IN SEDIMENT | | 18.50 | MG/KG | LEAD IN SEDIMENT | | 20.00 | MG/KG |
| MERCURY IN SEDIMENT | < | 0.05 | MG/KG | NICKEL IN SEDIMENT | ✓ | 35.00 | MG/KG |
| SELENIUM IN SEDIMENT | < | 1.25 | MG/KG | SILVER IN SEDIMENT | < | 1.50 | MG/KG |
| THALLIUM IN SEDIMENT | < | 10.000 | MG/KG | ZINC IN SEDIMENT | ✓ | 62.00 | MG/KG |
| PHENOL IN SEDIMENT | N | | UG/KG | 2-CHLOROPHENOL SED | N | | UG/KG |
| 2,4-DIMETHLYPHENOL S | N | | UG/KG | 2-NITROPHENOL SED | N | | UG/KG |
| 2,4-DICHLOROPHENOL S | N | | UG/KG | P-CHLORO-M-CRESOL SD | N | | UG/KG |
| 246-TRICHLROPHENOL S | N | | UG/KG | 4-NITROPHENOL SED | N | | UG/KG |
| 2,4-DINITROPHENOL SD | N | | UG/KG | 46DINITRO-O-CRESOL S | N | | UG/KG |
| PENTACHLOROPHENOL SD | N | | UG/KG | BIS2CHLRMTHYL-ETHR S | N | | UG/KG |
| 1,4-DICHLROBENZENE S | N | | UG/KG | BIS2CLROISOPYPLETH S | N | | UG/KG |
| NITROBENZENE IN SED | N | | UG/KG | DIMETHYLPHTHALATE S | N | | UG/KG |
| 2,6-DINITROTOLUENE S | N | | UG/KG | ACENAPHTHYLENE IN S | N | | UG/KG |
| 2-METHYLPHENOL SED | N | | UG/KG | 4-METHYLPHENOL SED | N | | UG/KG |
| 245-TRICHLROPHENOL S | N | | UG/KG | BENZOIC ACID SED | N | | UG/KG |
| 4-BROMOPHPHETHER SED | N | | UG/KG | BENZYL ALCOHOL SED | N | | UG/KG |
| 4-CHLOROANALINE SED | N | | UG/KG | 2-NITROANALINE SED | N | | UG/KG |
| 3-NITROANALINE SED | N | | UG/KG | DIBENZOFURAN IN SED | N | | UG/KG |
| 4-NITROANALINE SED | N | | UG/KG | 3,3'-DICLROBNZDINE S | N | | UG/KG |
| BIS2ETHLHXLPHTHLTE S | N | | UG/KG | BNZO(B)FLURANTHENE S | N | | UG/KG |
| 1,2-DICHLOROBNZENE S | N | | UG/KG | 1,3-DICHLROBENZENE S | N | | UG/KG |
| BIS2CLROETHXYMTHNE S | N | | UG/KG | NAPTHALAENE IN SED | N | | UG/KG |
| HEXACHLROBUTADIENE S | N | | UG/KG | ACENAPHTHENE IN SED | N | | UG/KG |
| DIETHYLPHTHALATE S | N | | UG/KG | FLUORENE IN SEDIMENT | N | | UG/KG |
| HEXACHLOROBENZENE S | N | | UG/KG | ANTHRACENE IN SEDMNT | N | | UG/KG |
| PYRENE IN SEDIMENT | N | | UG/KG | CHRYSENE IN SEDIMENT | N | | UG/KG |
| 2-CHLRONAPHTHALENE S | N | | UG/KG | NTROSODIPHNYLAMNE S | N | | UG/KG |
| 2-MTHYL NPHTHALENE S | N | | UG/KG | PHENANTHRENE SED | N | | UG/KG |
| FLUORANTHENE SED | N | | UG/KG | BTYLBNZYLPHTHALATE S | N | | UG/KG |

SEE REVERSE SIDE FOR WATER QUALITY REPORT SIGNIFICANCE

SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA

CITY OKLAHOMA CITY

LEGAL

/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLERS #4 POND
COMMENTS

ANALYSTS SEE ATTACHED GC/MS REPORT FOR TENTATIVELY IDENTIFIED RESULTS.
COMMENTS

OSDH FORM NO 8 4 (3 77) REQUISITIONER COPY

ANALYST Bill Batten

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STATE WATER QUALITY LABORATORY
WATER ANALYSIS REPORT

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Waste Management Service

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OSDH ROOM 803
OKLAHOMA CITY, 73152

GENERAL PROJECTS

CONCENTRATION IN SAMPLE

| PARAMETER | CODE | VALUE | UNITS | PARAMETER | CODE | VALUE | UNITS |
|---|---|---|---|---|---|---|---|
| 4-CHLOROPHPHETHER S | N | | UG/KG | DI-N-OCTYLPHTHALTE S | N | | UG/KG |
| BENZO(A)PYRENE S | N | | UG/KG | BNZO(K)FLURANTHENE S | N | | UG/KG |
| BENZO(GHI)PERYLENE S | N | | UG/KG | INDENO(123CD)PYRNE S | N | | UG/KG |
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| HXACLROCYCLPNTDENE S | N | | UG/KG | METH ETH KETON SED | N | | UG/KG |
| STRYENE IN SEDIMENT | N | | UG/KG | XYLENES IN SEDIMENT | N | | UG/KG |
| ACETONE IN SEDIMENT | N | | UG/KG | METHYL ISOBTYL KET S | N | | UG/KG |
| CARBONDISULFIDE SED | N | | UG/KG | METHYLENE CHLORIDE S | N | | UG/KG |
| 1,1-DICLROETHYLENE S | N | | UG/KG | 1,1-DICHLOROETHANE S | N | | UG/KG |
| TRN1,2DICHLRETHENE S | N | | UG/KG | CHLOROFORM IN SED | N | | UG/KG |
| 1,2-DICHLOROETHANE S | N | | UG/KG | 1,1,1-TRICLRETHANE S | N | | UG/KG |
| CARBON TETRACHLRDE S | N | | UG/KG | DICLOROBRMOMETHANE S | N | | UG/KG |
| 1,2-DICHLOROPROPNE S | N | | UG/KG | T-1,3-DICLROPRPENE S | N | | UG/KG |
| TRICHLOROETHYLENE S | N | | UG/KG | DIBROMOCHLOROMTHNE S | N | | UG/KG |
| C-1,3-DICLROPRPENE S | N | | UG/KG | 112-TRICLOROETHANE S | N | | UG/KG |
| BENZENE IN SEDIMENT | N | | UG/KG | BROMOFORM IN SED | N | | UG/KG |
| TETRACLOROETHLENE S | N | | UG/KG | 1122-TETRACLETHANE S | N | | UG/KG |
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| ETHYLBENZENE IN SED | N | | UG/KG | METHYL CHLORIDE SED | N | | UG/KG |
| METHYL BROMIDE SED | N | | UG/KG | VINYL CHLORIDE SED | N | | UG/KG |
| CHLOROETHANE IN SED | N | | UG/KG | 2-CHLROETHLVNLETHR S | N | | UG/KG |
| 2-HEXANONE IN SED | N | | UG/KG | VINYL ACETATE SED | N | | UG/KG |

REMARK CODE EXPLANATIONS

< LESS THAN DETECTION LIMIT
N NOT DETECTED

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SOURCE AIR CENTER
PROGRAM WASTE MGMT SERV(MULTI SITE)
COUNTY OKLAHOMA

CITY OKLAHOMA CITY

LEGAL

/4 /4 /4 SEC 08 T 12N R 04W IM

SAMPLERS COMMENTS #4 PCNC

ANALYST'S COMMENTS SEE ATTACHED GC/MS REPORT FOR TENTATIVELY IDENTIFIED RESULTS.

OHD FORM NO 814 (8-77) REQUISITIONER COPY

ANALYST Bill Batten

GC/MS LABORATORY
SAMPLE ANALYSIS REPORT

**********
* TENTATIVELY IDENTIFIED BY NBS LIBRARY SEARCH *
**********

| | | | |
|---|---|---|---|
| 1.: | HYDROCARBONS | 2000 - 3000 | UG/KG |
| 2.: | | | |
| 3.: | | | |
| 4.: | | | |
| 5.: | | | |
| 6.: | | | |
| 7.: | | | |
| 8.: | | | |
| 9.: | | | |
| 10.: | | | |
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| 26.: | | | |
| 27.: | | | |
| 28.: | | | |
| 29.: | | | |
| 30.: | | | |

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JUN 25 AM
Waste Management Service

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ANALYST'S COMMENTS :

ANALYST Bill Batten :

PLANT Gulfstream Aerospace

DATE July 11, 1986

RATOR ONLY SUPPLEMENTAL CHECKLIST

es for Generators which accumulate at least ~~1000 k.g.~~
1.) Tanks or 2.) Containers
ore Over ~~90 Days~~ (Required by Rule 3.16)
ction of 90 Day Storage Requirement

operator have a personnel training program
ere applicable: (IAW 265.16 - Personnel Training)
'ure

for using, inspecting, repairing, and
cility emergency equipment.

ters for automatic waste feed cut-off

for using communications or alarm systems.

o fires or explosions.

o groundwater contamination incidents.

f operations.

ogram directed by a person trained in
management procedures?
ersonnel Training)

operator maintain Personnel Training records
(IAW 265.16--Personnel Training)

hey include:

e for each position related to controlled
al waste management and the name of each
ee filling a position?

job description for each job title including
uisite skill, education or other equivalent
on and duties of personnel assigned to each
n?

ption of type and amount of both introductory
ntinuing training that will be given to each
filling a position.

s that document that the required training
en given to or completed by facility
nel?

| | | |
|---|---|---|
| | ___ Yes ✓ No | ✓ Yes ___ No |
| | ✓ Yes ___ No | ✓ Yes ___ No |
| | NA Yes ___ No | ✓ Yes ___ No |
| | ✓ Yes ___ No | ✓ Yes ___ NO |
| | ✓ Yes ___ No | |
| | ✓ Yes ___ No | ✓ Yes ___ No |
| | ✓ Yes ___ No | |
| | ___ Yes ✓ No | for |
| | ___ Yes ✓ No | |
| | NA<br>___ Yes ___ No | ✓ Yes ___ No |
| | ___ Yes ___ No | |
| | ___ Yes ___ No | cal ___ Yes ✓ No |
| | ___ Yes ___ No | ✓ Yes ___ No |



23

Area of N/C

5. In the case that more than one police or fire department might respond, is there a designated primary authority? (IAW 265.37 -Arrangements with local authorities) ✓ Yes ____ No

a) If yes, indicate primary authority Wiley Post Airport Fire Dept.

b) Is the fire department a city or volunteer fire department? City

6. Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers? (IAW 265.37 - Arrangements with local authorities) ✓ Yes ____ No

Are they readily available to the emergency coordinator? ✓ Yes ____ No
Barbara Marrs Personnel Office/Public Rel.

7. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility? ✓ Yes ____ No

If no, has the owner/operator attempted to do this? NA Yes ____ No

8. If the State, or local authorities decline to enter into the above referenced agreements, has this situation been entered in the operating record? (IAW 265.37 -Arrangements with local authorities) NA Yes ____ No

Section C - Contingency Plan and Emergency Procedures

1. Does the facility have a contingency plan? (IAW 265.51 - Purpose and implementation of Contingency Plan) ✓ Yes ____ No

a) If yes, is it maintained at the facility? (IAW 265.53 -Copies of Contingency Plan) ✓ Yes ____ No

2. Is the contingency plan a revised SPCC Plan? (IAW 265.52 - Content of Contingency Plan)) ____ Yes ✓ No

3. Does the contingency plan contain the following information: (IAW 265.52 - Content of Contingency Plan) ✓ Yes ____ No

a) A description of the actions to be taken by facility personnel in the event of fire, explosion, or release of controlled industrial waste? ✓ Yes ____ No

b) A description of the arrangements with local authorities? ✓ Yes ____ No

Area of N/C

c) A list of names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator? ____Yes ✓ No

d) A list of all emergency equipment including 1) the location of each item 2) a physical description of each item on the list and 3) an outline of each item's capabilities? Partial ____Yes ✓ No

e) An evacuation plan where there is a possibility that evacuation could be necessary including ____Yes ✓ No

1) signals to begin evacuation
2) evacuation routes
3) alternate evacuation routes

____ 4. Is there an emergency coordinator on site or within short driving distance of the plant at all times? (IAW 265.55 - Emergency Coordinator) ✓ Yes ____No

✓ 5. Has the facility supplied all local authorities and State response teams with a copy of the contingency plan? (IAW 265.53 - Copies of Contingency Plan) ____Yes ✓ No

____ 6. Has the contingency plan ever been implemented? (IAW 265.56 - Emergency Procedures) ✓ Yes ____No

a) If yes, was a written report submitted to the Director within 15 days after the incident? NA Yes ____No

Gulfstream 7/11/86

Generator Only
Checklist Narrative

Item

1.0 The Contingency plan contains an outline for a personnel training program. This outline however
2.0 has not been implemented. A person trained in hazardous waste management procedures is not
3.0 directing a training program. As no training program is carried out there are no training records and annual reviews are non-existant.

B-1 On May 22, 1986 Gulfstream reported a waste spill of hydrofluoric and chromic acids onto the ground. The soil was neutralized and removed to storage bins. Removed soil was EP toxic for Chromium. In situ soil showed lead contamination from foundry sand disposal which as yet has not been removed and is EP toxic. See narrative to generators checklist item B.1 + B.2.

C-3.C The Contingency plan does not spell out the names and addresses or phone numbers for the
C.3.d emergency coordinator(s). More details are needed regarding the list of emergency equipment to include the locations of each item and the items
C.3.e capabilities. Evacuation routes and alternate routes are not marked on the facility contingency map. The map contains extraneous information and does not

Gulfstream 7/11/86

Generators Only Narrative Con't

Item

depict the currently used waste storage areas. The text needs to include the storage tank which was added since the plan was written in 1982. The text of the contingency plan (page 3) states the storage area for containers is used for waste remaining an excess of 90 days. The sentence should read not in excess of 90 days. Appendix E of the contingency plan has an inspection form for the container storage area but not one for inspecting the tank and safety and emergency equipment. Appendix I lists the agencies who are to receive incident reports; the Director of CSDH Industrial Waste division was left off this list. Appendix G states ammendments will be made to the contingency plan 6 months after review, the regulations require that ammendments be made immediately. This contingency plan must be

C.5 updated. Local authorities have not been provided a copy of the contingency plan — they must be provided an ammended version as the existing plan is out of date.

FACILITY Gulfstream Aerospace

DATE 7/11/86

# CONTAINERS STORAGE CHECKLIST
(Rule 7.1.6 & 7.8)

| Area of N/C | | | | |
|---|---|---|---|---|
| | 1. | Does the facility store hazardous waste in containers? (IAW 265.170) (Includes hoppers and gondolas) | ✓ Yes | ___ No |
| | | If no, do not complete this form. | | |
| ___ | 2. | Are the containers in good condition? (check for leaks, corrosion, bulges, etc.) | ✓ Yes | ___ No |
| ___ | 3. | If a container is found to be leaking, does the operator transfer the hazardous waste from the leaking container? (IAW 265.171) | ✓ Yes | ___ No |
| ___ | 4. | Is the waste compatible with the containers and/or its liner? (IAW 265.172) | ✓ Yes | ___ No |
| | | If no, explain in narrative. | | |
| ___ | 5. | Are the stored containers closed? | ✓ Yes | ___ No |
| | | If no, explain in narrative. | | |
| ___ | 6. | Are containers holding hazardous waste opened, handled, or stored in such a manner as to cause the container to rupture or leak? (IAW 265.173) | ___ Yes | ✓ No |
| | | If yes, explain in narrative. | | |
| ✓ | 7. | Are areas where containers are stored inspected at least weekly looking for container leaks and for deterioration caused by corrosion or other factors? (IAW 265.173) | ___ Yes | ✓ No |
| ___ | 8. | Are containers holding ignitible or reactive wastes located at least 15 meters (150 feet) from the facility property line? (IAW 265.176) | ✓ Yes | ___ No |
| ___ | 9. | Are incompatible wastes stored in the same containers or placed in an unwashed container that previously contained an incompatible waste or material? (IAW 265.177) | ___ Yes | ✓ No |
| | | If yes, explain in narrative. | | |
| ___ | 10. | Are containers holding incompatible wastes kept apart by physical barrier or sufficient distance? (IAW 265.177) | ✓ Yes | ___ NO |
| | | If no, explain in narrative. | | |

Gulfstream 7-11-86

# Container Checklist Narrative

item

x 7. The container storage area is not inspected on a regular basis for signs of leaks or deterioration. The start of accumulation date has not been marked on each container.

FACILITY Gulfstream

DATE: 7/11/86

# TANKS CHECKLIST
(Rule 7.9 & 7.1.6.)

Area of N/C

NOTE: If multiple tanks exist, list each tank and specify compliance or non-compliance. Complete an individual checklist for each tank not in compliance and collective checklist for those in compliance.

1. Are there any tanks which are not being used which the facility no longer plans to use? ____YES ✓ NO

   a. If yes, has all hazardous waste and hazardous waste residue been removed from these tanks, discharge control equipment, and discharge confinement structures? NA ____YES ____NO

2. Are tanks presently used to treat or store waste? ✓ YES ____NO

   a. If no, do not complete rest of form.
   b. If yes, check tanks.

3. Is there evidence that wastes placed in the tank are incompatible with the tank or liner? (IAW 265.192) ____YES ✓ NO

   NOTE: Any evidence of ruptures, leaks or corrosion. (Use narrative explanations sheet.)

4. Are there any uncovered tanks? (IAW 265.192) ____YES ✓ NO

   a. If no, do not complete 4b. -e.
   b. If yes, do they have 2 feet (60cm) freeboard? NA ____YES ____NO

   OR

   c. A containment structure? (e.g. dike or trench) ____YES ____NO

   OR

   d. A drainage control system? ____YES ____NO

   OR

   e. A diversion structure? (e.g. standby tank) ____YES ____NO
   (NOTE: The structure in c, d or e must have a capacity that equals or exceeds the colume of the to 2 feet (60 cm) of the tank.

If the answers to 4b. -e. are "no", explain current conditions using narrative sheets.

Area of
N/C

5. Are any of the tanks continous feed? (IAW 265.192) ____YES ✓ NO

____ a. If yes, is it equipped with a means to stop inflow (e.g. waste feed cutoff or by-pass to a stand-by tank)? NA YES ____NO

Waste Analysis

6. Is the tank used to store one waste exclusively? (Use narrative explanations sheet). Variety of acid wastes HCl, HF, $H_2SO_4$, Chromic ____YES ✓ NO

____ 1. Are waste analyses and trail tests conducted on these wastes ____YES ✓ NO

OR

Does the owner/operator have written documented information on similar treatment of similar wastes under similar operating conditions? & Experience ____YES ✓ NO

____ 2. Is this information retained in the operating record? ____YES ✓ NO

Inspections (Note: This section does not exclude underground tanks)

____ 7. Does the owner/operator inspect the following at least daily, where present? (IAW 265.194) NA YES ____NO

(Indicate which items are present in 7 and 8.)

____ a. Discharge control equipment (e.g. waste feed cut-off, by pass and/or drainage systems)? NA YES ____NO

____ b. Monitoring equipment (e.g. pressure and temperature gages)? NA YES ____NO

____ c. Level of waste in each uncovered tank? NA YES ____NO

____ 8. Does the owner/operator inspect the following at least weekly? (IAW 265.194) Not on any Log or Schedule ____YES ✓ NO

a. Construction materials of tanks for corrosion or leaks? ✓ YES ____NO

b. Construction materials of and area surrounding discharge confinement structures for erosion or signs of leakage? ✓ YES ____NO

9. What is the procedure for assessing the condition of the tank(s)? Explain in narrative. (e.g. How does the procedure allow for detection of cracks, leaks or corrosion or procedures for emptying the tank to allow entrance, etc.) Observe for Rust, leaks, Seepage Visual Observations by maintenance Dept

10. Does the facility have a closure plan? (IAW 265.197) ✓ YES ___ NO

___ a. Does the plan address the closure of each tank? If no, explain in narrative. ___ YES ✓ NO

___ b. Is the plan maintained at the facility ✓ YES ___ NO

11. Are ignitable or reactive wastes placed in tanks? (IAW 265.198) ___ YES ✓ NO

___ a. If yes, are they treated, rendered or mixed before or immediately after placement in the tank so it no longer meets the definition of ignitable or reactive? NA YES ___ NO

OR

___ b. Is the waste protected from sources of ignition or reaction? ✓ YES ___ NO

1. If yes, use narrative explanations sheet to describe separation and confinement procedures. by isolation + segregation

2. If no, use narrative explanations sheet to describe sources of ignition or reaction

OR

c. Is the tank used solely for emergencies? ___ YES ✓ NO

___ 12. Has the facility ever placed incompatible wastes in the tank? (IAW 265.199) ___ YES ✓ NO

a. If yes, what were the results. (Use narrative explanations sheet). (Look for signs of mixing of incompatible wastes, e.g. fire, toxic mist, heat generation, bulging containers, etc.

___ 13. If a waste is to be placed in a tank that previously held an imcompatible waste, was that tank washed? (IAW 265.199) NA YES ___ NO

a. If Yes, describe washing procedures (Use narrative explanation sheet).

b. Describe how it is possible for incompatible wastes to be placed in the same tank. (Use narrative explanations sheet.)

Gulfstream 7/11/86

# Tanks
## Checklist Narrative

Item

x 6.0 Gulfstream utilizes one storage tank for mixed acid waste. The tank holds approximately 5,000 gallons. Wastes stored in this tank include HCl, HF, $H_2SO_4$ and Chromic acid. The wastes are said to be hauled offsite to U.S.P.C.I. every 60-70 days however the start of accumulation date is not recorded.

6.1 Based on experience the operator has determined the wastes in the tank to be compatible. Testing is not necessary.

x 8.0 The operator stated that the tanks are inspected however no frequency is determined as inspection schedules and logs are not being maintained for the tank.

9.0 The maintenance department personnel are responsible for visually observing the tank for signs of rust, leaks, seepage etc. The tank appears to be in good condition.

x 10.a The facilities closure plan dated September 1982 does not address the closure of the tank.

11.b The tank is protected from sources of ignition or reaction by its placement on the property, isolated from such sources.

This checklist was filled out because the generator was in violation of the 90 day storage limitation.

FACILITY Gulfstream

DATE: 7-11-86

OKLAHOMA CONTROLLED INDUSTRIAL WASTE COMPLIANCE

INSPECTION REPORT - FACILITIES CHECKLIST

Area of N/C — Section A - General Facility Standards

____ 1. Does facility have EPA Identification No. and OSDH Site No? (Rule 7.1.6 IAW 40 CFR, 265.11) ____YES ✓ NO

____ A. If yes, OSDH Site No._____

____ EPA I.D. NO. OKT410010821

If no, explain This facility notified as Generator Only - he was not given a site number

____ 2. Has facility received hazardous waste from a foreign source? (Rule 7.1.6.IAW 40 CFR 265.12) ____YES ✓ NO

A. If yes, has he filed a notice with the Director? NA YES ____NO

____ 3. Does owner/operator control precipitation, run on and runoff that is or may become contaminated with industrial waste? (Rule 7.2.2) ✓ YES ____NO

____ A. Explain Berm around Storage building

____ B. Is a containment structure used? Designed for less than 90 day storage. NA YES ____NO

1. Is the structure capable of retaining precipitation and runoff generated by 24 hr.,hundred year storm plus a minimum of two (2) feet of freeboard. (Rule 7.2.2.2) NA YES ____NO

____ 4. Is all material handling conducted with in dikes, retention walls or other features to control all spills? Explain. (Rule 7.2.3) NA YES ____NO

A. Will the system contain the larger of

i. Volume of largest truck or rail cars loaded or unloaded

or

ii. 20% maximum total volume of all trucks and rail cars being loaded or unloaded at one time
plus
Precipitation and runoff generated by the 24Hr/50 year storm
plus
a minimum 12 in. of freeboard

7/11/86

Area of N/C

____ 5. Are all contained liquids handled as a controlled industrial waste? (Rule 7.2.3.1) ✓ YES ____ NO
Explain Should a tank, container, etc leak it is handled as CIW

Waste Analysis

✓ 6. Does facility maintain a copy of the waste analysis plan at the facility (Rule 7.1.6, IAW 40 CFR 265.13) ____ YES ✓ NO

____ A. If yes, does it include NA

____ 1. Parameters for which each waste will be analyzed? ____ YES ____ NO

____ 2. Test methods used to test for these parameters? ____ YES ____ NO

____ 3. Sampling method used to obtain sample? ____ YES ____ NO

____ 4. Frequency with which the initial analyses will be reviewed or repeated? (For facilities receiving waste from off-site) ____ YES ____ NO

____ 5. Waste analyses that generators have agreed to supply? (For facilities receiving waste from off-site) ____ YES ____ NO

____ 6. Procedures which are used to inspect and analyze each movement of hazardous waste including:

a. Procedures to be used to determine the identity of each movement of waste? ____ YES ____ NO

b. Sampling method to be used to obtain representative sample of the waste to be identified? ✓ YES ____ NO

7. Does the facility provide adequate security through: (Rule 7.3.1)

____ A. Fence around facility? (Rule 7.3.1) ✓ YES ____ NO

____ B. Locked entrance? (Rule 7.3.1) ✓ YES ____ NO

✓ C. Warning sign? (Rule 7.4.1) ____ YES ✓ NO

General Inspection Requirements

✓ 8. A. Does the owner/operator maintain a written schedule for inspecting: (Rule 7.1.6 IAW 265.15 - General Inspection Requirements)

____ 1. Monitoring equipment? (If applicable) NA ____ YES ____ NO

| Area of N/C | | | |
|---|---|---|---|
| ____ | 2. Safety and emergency equipment? | ____YES | ✓ NO |
| ____ | 3. Security devices? | ____YES | ✓ NO |
| ____ | 4. Operating and structural equipment (if applicable) | NA YES | ____NO |
| ____ | 5. Does the schedule or plan identify the types of problems to be looked for during inspection? | ____YES | ✓ NO |
| ____ | a. Malfunction or deterioration (e.g. inoperative sump pump, leaking fitting, eroding dike, corroded piper or tanks, etc.) | ____YES | ✓ NO |
| ____ | b. Operator error | ____YES | ✓ NO |
| ____ | c. Discharges (e.g. leaks from valves or pipes joint breaks, etc.) | ____YES | ✓ NO |
| ____ | B. Is a written schedule for these inspections maintained at the facility? | ____YES | ✓ NO |
| ____ | 1. Are these inspections conducted? | ____YES | ✓ NO |
| | a. Is a record of these inspections maintained in the inspection log? | ____YES | ✓ NO |
| ✓ | 9. Does the owner/operator have an inspection log? (Rule 7.1.6 IAW 265.15 - General Inspection Requirements) | ____YES | ✓ NO |
| ____ | A. If yes, does it include: | | |
| ____ | 1. Date and time of inspection? | NA YES | ____NO |
| ____ | 2. Name of inspector? | ____YES | ____NO |
| ____ | 3. Notation of observations? | ____YES | ____NO |
| ____ | 4. Date and nature of repairs or remedial action? | ____YES | ____NO |
| ____ | B. Are there any malfunctions or other deficiencies noted in the inspection log that remain uncorrected? (Use narritive explanation sheet). | ____YES | ____NO |
| ____ | C. Are records of the inspection log maintained at the facility for three (3) years? | ✓ YES | ____NO |

Personnel Training see generator Only Checklist

| | | | |
|---|---|---|---|
| ✓ | 10. Does the owner/operator maintain Personnel Training Records at the facility? (Rule 7.1.6 IAW 40 CFR 265.16) | ____YES | ✓ NO |

How long are they kept? _____

A. If yes, do they include:

Area of
N/C

NA

____ 1. Job title and written job description of each position? ____YES ____NO

____ 2. Description of type and amount of training? ____YES ____NO

____ 3. Records of training given to facility personnel? ____YES ____NO

____ 4. Is training reviewed annually? ____YES ____NO

Requirements for Ignitable, Reactive or Incompatible Waste

11. Does facility handle ignitable or reactive wastes? (Rule 7.1.6 IAW 40 CFR 265.17) ✓ YES ____NO

____ A. If yes, is waste separated and confined from sources of ignition or reaction, (open flames, smoking, cutting and welding, hot surfaces, frictional heat) sparks (static, electrical or mechanical), spontaneous ignition (e.g. from heat producing chemical reactions) and radiant heat? ✓ YES ____NO

1. If yes, ~~use narrative explanations sheet to~~ describe separation and confinement procedures:
No Smoking Area + Segregated from ignition sources
2. If no, use narrative explanation sheet to describe sources of ignition or reaction.

____ B. Are smoking and open flame confined to specifically designated locations? ✓ YES ____NO

____ C. Are "No Smoking" signs posted in hazardous areas? ✓ YES ____NO

____ 12 Check Containers (Rule 7.8 & 7.1.6, IAW 40 CFR 265.17)

____ A. Are containers leaking or corroding? ____YES ✓ NO

____ B. Is there evidence of heat generation from incompatible wastes? ____YES ✓ NO

Section B - Preparedness and Prevention

✓ 1. Is there evidence of fire, explosion or contamination of the environment? (Rule 7.1.6 IAW 40 CFR 265.31) ✓ YES ____NO

If yes, use narrative explanations sheet to explain.: See Generator Only Narrative Section B.1

2. Is the facility equipped with: (Rule 7.1.6 IAW 40 CFR 265.32)

____ A. Internal communication or alarm system? ✓ YES ____NO

____ (1) Is it easily accessible in case of emergency? ✓ YES ____NO

Area of
N/C

____ B. Telephone or two-way radio to call emergency response personnel? ✓ YES ____ NO

____ C. Portable fire extinguishers, fire control equipment, spill control equipment and decontamination equipment? ✓ YES ____ NO

____ (1) Is this equipment tested to assure its proper operation? ✓ YES ____ NO

____ D. Water of adequate volume for hoses, sprinklers or water spray system? ✓ YES ____ NO

(1) Describe source of water City Supply

____ 3. Is there sufficient aisle space to allow unobstructed movement of personnel and equipment? (Rule 7.1.6, IAW 40 CFR 265.35) ✓ YES ____ NO

✓ 4. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility? (layout of facility, properties of hazardous waste handled and associated hazards, places where facility personnel would normally be working, entrances to roads inside facility, possible evacuation routes). (Rule 7.1.6 IAW 40 CFR 265.37) Need to provide Contingency Plan has made verbal contact only ____ YES ✓ NO

____ 5. In the case that more than one police and fire department might respond, is there a designated primary authority? (Rule 7.1.6, IAW 40 CFR 265.37) ✓ YES ____ NO

a. If yes, list primary authority Fire = Wiley Post Airport
Police = City of Bethany

____ 6. Does the owner/operator have phone numbers of, and agreements with, State emergency response teams, emergency response contractors and equipment suppliers? (Rule 7.1.6, IAW 40 CFR 26.537) ✓ YES ____ NO

____ Are they readily available to emergency coordinator? ✓ YES ____ NO

____ 7. Has the owner/operator arranged to familiarize local hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility? (Rule 7.1.6, IAW 40 CFR 26.537) ✓ YES ____ NO

Section C - Contingency Plan and Emergency Procedures
(See Generator Only Narrative Section C)

____ 1. Is a contingency plan maintained at the facility? (Rule 7.1.6, IAW 40 CFR 265.51 & 53) ✓ YES ____ NO

____ A. 1. If yes, is it a revised SPCC Plan? (Rule 7.1.6, IAW 40 CFR 265.52) ____ YES ✓ NO

Area of N/C

| | | | |
|---|---|---|---|
| ____ | 2. Actions to be taken in response to emergencies? | ✓ YES | ____ NO |
| ____ | 3. Description of arrangements with police, fire and hospital officials? | ✓ YES | ____ NO |
| ✓ | 4. List of names, addresses, phone numbers of persons qualified to act as emergency coordinator? | ____ YES | ✓ NO |
| ✓ | 5. List of all emergency equipment at the facility? | ____ YES | ✓ NO |
| ✓ | 6. Evacuation plan for facility personnel? | ____ YES | ✓ NO |
| ____ | 2. Is there a emergency coordinator on site, or within short driving distance, at all times? (Rule 7.1.6, IAW 40 CFR 265.55) | ✓ YES | ____ NO |

Section D - Manifest System, Recordkeeping and Reporting

| | | | |
|---|---|---|---|
| | 1. Does facility receive waste from off-site? (Rule 1.3.1.6) | ____ YES | ✓ NO |
| ____ | A. If yes, does the owner/operator retain copies of all manifests? | NA ____ YES | ____ NO |
| | (1) Are the manifests signed and dated and returned to generator? | ____ YES | ____ NO |
| | (2) Is a signed copy given to the transporter? | ____ YES | ____ NO |
| ✓ | 2. Does the owner/operator keep a written operating record at the facility? (Rule 7.1.6 IAW 265.73) | ____ YES | ✓ NO |
| ____ | A. If yes, does it include: | | |
| ____ | (1) Description and quantity of each hazardous waste received? | NA ____ YES | ____ NO |
| ____ | (2) Location and quantity of each hazardous waste at each location? | ____ YES | ____ NO |
| ____ | (3) Records and results of waste analyses? | ____ YES | ____ NO |
| ____ | (4) Report of incidents involving implementing of the contingency plan? | ____ YES | ____ NO |
| ____ | (5) Records and results of required inspections? | ____ YES | ____ NO |
| ____ | (6) Monitoring, testing or analytical date? | ____ YES | ____ NO |

Area of
N/C

NA

____ (7) Closure cost estimates and for disposal facilities post closure cost estimates? ____YES ____NO

____ (8) Is location of waste recorded on map or diagram? ____YES ____NO

____ 3. Has the facility received any waste (that does not come under the small generator exclusion) not accompanied by a manifest? NA YES ____NO

____ A. If yes, has he submitted an unmanifested waste report to the Director (Rule 7.1.6, IAW 265.76) ____YES ____NO

4. Has the facility received any shipments of controlled industrial waste which were inconsistent with the manifest? (Rule 7.1.6 IAW, 265.72) ____YES ____NO

____ A. If yes, has he resolved the discrepancy with generator & transporter? ____YES ____NO

____ B. If no, has a manifest discrepancy report been filed with the Director? ____YES ____NO

Section E. - Plans and Reports

____ 1. Have all plans and reports been visually inspected and/or been made available for inspection? (Rule 7.1.6 IAW 265.74- availability, retention and disposition of records) ✓ YES ____NO

A. Does the facility submit monthly reports to the Director? ____YES ✓ NO
List discrepancies or errors As Generator, submits quarterly reports

B. Does the facility submit annual reports that include closure cost estimates and, where applicable, monitoring data. ____YES ✓ NO
List discrepancies or errors closure cost est. not revised annually

____ List plans and/or reports not made available for inspection.

Personnel Training Records

____ 2. Did operator provide inspector with a drawing of the facility? ✓ YES ____NO

a. If yes, please indicate which are hazardous waste facilities on the drawing. attachment

3. Indicate types of hazardous waste facilities.

✓ Containers
✓ Tanks
____Surface Impoundments

Area of
N/C

_____Waste Piles
_____Land Treatment
_____Landfill
_____Incinerator
_____Thermal Treatment
_____Chemical, Physical and Biological Treatment

_____ Section F - Groundwater Monitoring

_____ 1. Are there any ground water monitoring wells? _____YES ✓ NO
(Rule 7.1.6 , 265.90 Applicability)

NA

a. Is owner/operator aware that prior to 11/19/81 he must install, operate and maintain a groundwater monitoring system (unless waived in writing)? _____YES _____NO

The owner or operator of a surface impoundment, landfill, or land treatment facility which is used to management hazardous waste must implement a groundwater monitoring program. (Rule 7.1.6, IAW 265.90)

_____ 1. Specify the site(s) for which a ground water monitoring system (has) or (should have) been installed:_____

_____ 2. What date was the monitoring program initiated (date of first sampling)?_____

_____ 3. Indicate by a map or sketch locations of each monitoring well and distance from active site(s) (attach). Also list depths diameter and completion data on each well (or include well drilling and completion report). Indicate whether the wells are hydraulically upgradient or downgradient and the direction of flow of the groundwater. (Rule 7.1.6 IAW 265.91)

_____ 4. If no ground water monitoring system has been installed, include a copy of Low Potential Ground Water Demonstration used to document a low potential for migration of hazardous waste or constituents. Also describe briefly what basis was used to justify the waiver of monitoring requirements: (Rule 7.1.6 IAW 265.190 (c))

_____ 5. If a ground water monitoring system has been installed, attach a copy of the ground water sampling and analysis plan. Briefly describe sample collection technique for obtaining samples and the method used to establish elevation of ground water for ground water monitoring wells: (Rule 7.1.6 IAW 265.92)

Gulfstream 7/11/86

Facilities
Checklist Narrative

Item

This checklist was filled out because the 90 day storage time limitation was exceeded by the generator. The facility was not listed as a TSD and only notified as a generator.

A6.0 The facility does not utilize a waste analysis plan This is required for TSD facilities

A7.C The warning signs for TSD facilities are non-existent

A8.0 The facility does not maintain an inspection schedule and does not perform routine inspections.

A9.0 No inspection logs are utilized or records kept.

A10.0 There are no personnel training records

B4 O/C See generator only narrative the contingency plan is incomplete and copies have not been revised and provided to local authorities

D2.0 As required for TSD facilities Gulfstream does not keep a written operating record at the facility.

G.2.A There is a closure plan but it does not address the tank at all or decontamination steps. Page 3 of the closure plan states that the southern storage area may have waste stored in excess of 90 days this should be reworded to not in excess of 90 days. The Closure Plan and and Contingency Plan were written for Gulfstream

Facilities Checklist Narrative Con't

by Stanley/Wynne Engineering in 1982. Both plans are inadequate and have been ignored by facility personnel in that their existence was not known to key personnel and filed away rather than actively updated and followed.

H. Gulfstream has not met the financial requirements of a TSD. There is a closure cost estimate but it does not address tank closure and has not been revised annually.

Area of
N/C

NA

_____ 6. Is a Ground Water Quality Assessment Plan maintained at the facility?

YES _____ NO ____ Outline only _____

7. Indicate the name and address of the facility conducting the analyses.

_____

Section G - Closure and Post Closure (Rule 7.1.6)

1. Attach copy of closure plan. See Board Copy 982

_____ 2. Does owner/operator maintain copy of closure plan at facility? (IAW 265.112) ✓ YES ____ NO

If yes;

✓ A. Does Closure Plan Include: Closure plan does not address tank storage area only containers

_____ 1. Description of steps to close facility. ✓ YES ____ NO
_____ 2. Estimate of maximum inventory of wastes at facility ✓ YES ____ NO
_____ 3. List steps needed to decontaminate equipment. ____ YES ✓ NO
_____ 4. Expected year of closure and schedule of closure. ✓ YES ____ NO

_____ B. Does Post Closure Plan provide for thirty (30) years. (IAW 265.117)

NA

_____ 1. Monitoring Activities. ____ YES ____ NO
_____ 2. Maintenance of monitoring and containment systems. ____ YES ____ NO
_____ 3. Has land authority been notified of waste disposal? (IAW 265.119) ____ YES ____ NO
____ 4. Does deed contain notice that property was used for waste disposal? (IAW 265.120) ____ YES ____ NO

✓ Section H - Financial Requirements (Rule 7.1.9)

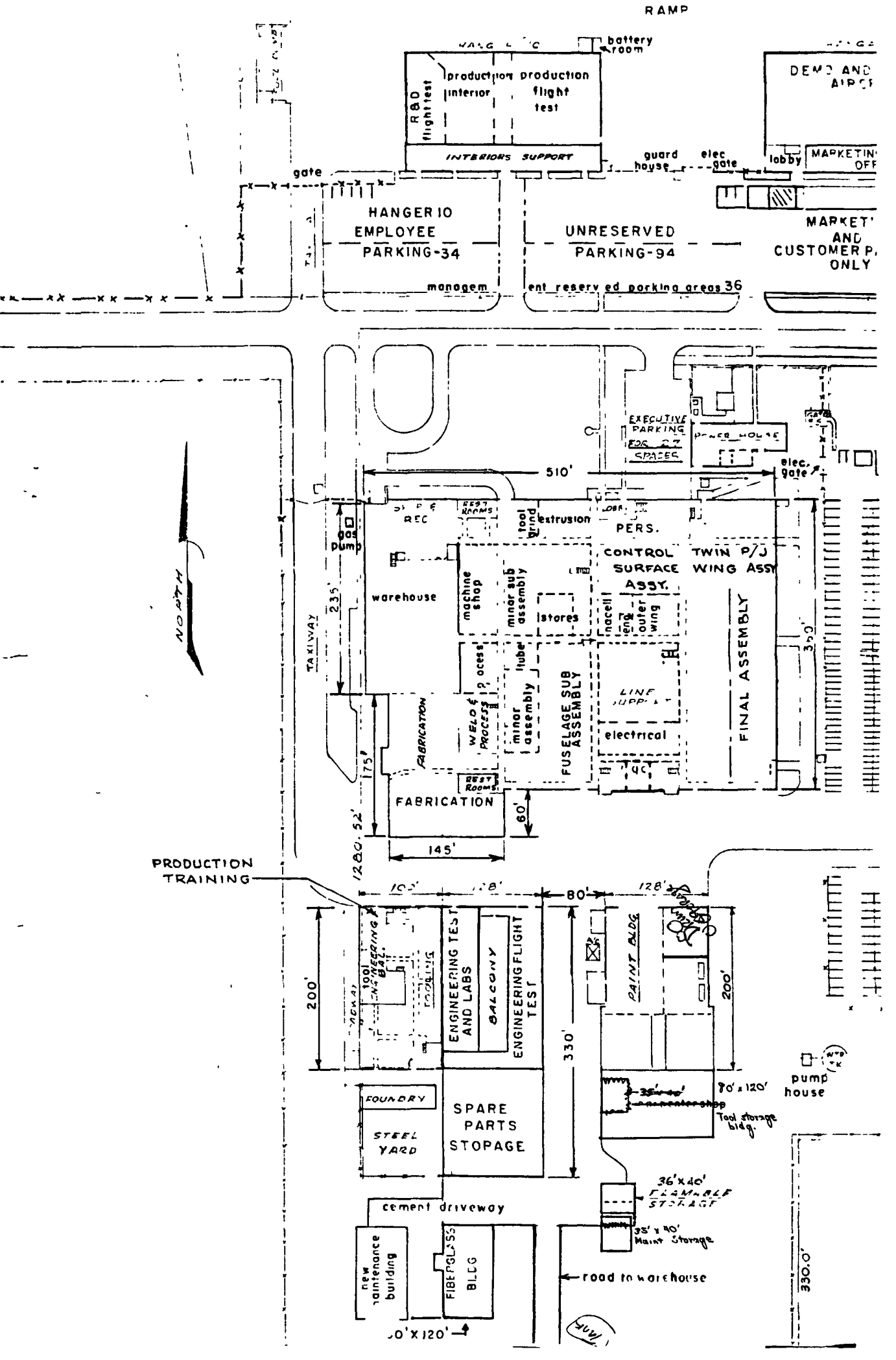
NA if Generator only

_____ 1. List instrument of financial responsibility.

_____ 2. Is there a cost estimate for closure? (IAW 265.142) ✓ YES ____ NO

_____ 3. Is there financial assurance for closure? (IAW 265.143) ____ YES ✓ NO

_____ 4. Is there a cost estimate for post-closure? (IAW 265.144) ____ YES ✓ NO


RAMP
battery room
production interior
production flight test
R&D flight test
INTERIORS SUPPORT
guard house
elec gate
lobby
gate
HANGER 10
EMPLOYEE
PARKING-34
UNRESERVED
PARKING-94
MARKET
AND
CUSTOMER P.
ONLY
management reserved parking areas 36
EXECUTIVE PARKING
POWER HOUSE
elec. gate
510'
REC
REST ROOMS
tool grind
extrusion
PERS.
gas pump
CONTROL SURFACE ASSY.
TWIN P/J WING ASSY
warehouse
machine shop
minor sub assembly
stores
nacelle
outer wing
FINAL ASSEMBLY
TAXIWAY
235'
NORTH
tube
process
WELD PROCESS
minor assembly
FUSELAGE SUB ASSEMBLY
LINE SUPPORT
electrical
FABRICATION
175'
REST ROOMS
FABRICATION
60'
52'
1280'
145'
PRODUCTION TRAINING
102'
128'
80'
128'
200'
TOOL ENGINEERING BLD.
TOOLING
ENGINEERING TEST AND LABS
BALCONY
ENGINEERING FLIGHT TEST
330'
PAINT BLDG
200'
pump house
FOUNDRY
STEEL YARD
SPARE PARTS STORAGE
80' x 120'
Tool storage bldg.
36'x40'
FLAMMABLE STORAGE
cement driveway
35' x 40'
Maint Storage
new maintenance building
FIBERGLASS BLDG
road to warehouse
330.0'
20'x120'

Area of
N/C

| | | | |
|---|---|---|---|
| ____ | 3. Is a closure plan maintained at the facility? | ✓ YES | ____ NO |
| ____ | 4. Is there evidence of any open burning of hazardous waste? (Use narrative explanations sheet) | ✓ YES | ____ NO |
| ____ | 5. Is open burning or detonation of waste explosives conducted? (IAW 265.382) | ✓ YES | ____ NO |
| ____ | a. If yes, is the detonation performed in accordance with the following table? | YES | |

| Pounds of waste explosives or propellants | Minimum distance from open burning detonation to the property or others |
|---|---|
| 0-100 | 204m (670 ft) |
| 101-1,000 | 380m (1,250 ft) |
| 1,001-10,000 | 530m (1,730 ft) |
| 10,001-30,000 | 690m (2,260 ft) |

OKLAHOMA RCRA 3012 - PA/SI PROGRAM

STATUS 3/1/86



| SITE NAME/NUMBER | PA | SI | SIF |
|---|---|---|---|
| 28. OK 2496 (Now under MSCA)<br>Post Airport, Wiley<br>(Air Center, Inc.) | X | - | |
| 29. OK 3913 (SI dropped due to no hazard)<br>BFI Chemical Services | X | | |
| 30. OK 884 (SI dropped due to no hazard)<br>Pryor Automatic Tool Co. | X | | |
| 31. OK 728<br>Oklahoma Grain Warehouse<br>(OKG Bulkhandling) | X | X | |
| 32. OK 4456 Arco Petroleum Products<br>(Currently part of NPL site Sand Springs) | - | - | |
| 33. OK 752<br>Consolidated Oil Sales | | - | |
| 34. OK 1678<br>Public Service of Oklahoma (Riverside) | | X | |
| 35. OK 779<br>Pryor Foundry | | X | |
| 36. OK 1848<br>Public Service of Oklahoma (Southwest) | | X | |
| 37. OK 1236<br>Conoco Soil Farm | | X | |
| 38. OK 1422<br>Allied Materials | | X | |

Interim PA/SI Commitments

9 PAs 9 PAs submitted/accepted
16 SIs 5 SIs submitted/accepted (5 SIs dropped)
(reduced to 11)

| SITE NAME/NUMBER | PA | SI | SIF |
|---|---|---|---|
| 1. OK 4693<br>Ray Jones Truck Service | X | - | |

OKLAHOMA RCRA 3012 - PA/SI PROGRAM STATUS 3/1/86



| SITE NAME/NUMBER | PA | SI | SIF |
|---|---|---|---|
| 43. OK05118<br>Chemical Products Development Corp.<br>(SI under original grant commitments) | | - | (SIs overdue) |
| 44. OK05037<br>Blackwell E. Coolidge Dump<br>(SI under original grant commitments) | | - | (SIs overdue) |
| 45. OK02674<br>Alpha Drum<br>(SI under original grant commitments) | - | - | (SIs overdue) |
| 46. OK02496<br>Air Center<br>(SI under original grant commitments) | | - | (SIs overdue) |
| 47. OK03697<br>Huffman Wood Preserving<br>(SI under original grant commitments) | | - | (SIs overdue) |
| 48. OK02356<br>Kelco Basin<br>(SI under original grant commitments) | | - | (SIs overdue) |
| 49. OK05274<br>Olustee City Barn | | - | |
| 50. OK05177<br>Prattville Casting | | | - |

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P.O. BOX 53551
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AN EQUAL OPPORTUNITY EMPLOYER

RECEIVED
AUG 27 1985
HAZARDOUS MATERIALS
BRANCH

August 13, 1985

Paul Sieminski
U. S. Environmental Protection Agency
Region VI
1201 Elm
Dallas, TX 75270

Enclosed is a schedule of work to be performed during the extension of the Multi-Site Cooperative Agreement PA/SI program. This schedule covers a period from October 1, 1985 through December 31, 1985.

Under this extension the State intends to perform: 5 preliminary assessments, 7 site inspections, and 1 site inspection follow-up. It is anticipated that site inspections will need to be performed at Ag Enterprises (discovery), Alpha Drum (OK02674), Pauls Oil Reclaiming (discovery). At this time it appears that we will not perform the inspections of these sites until after January 1, 1986.

Thank you for your assistance, if you have any questions, please call me at (405) 271-5338.

Sincerely,

Scott A. Thompson

Scott A. Thompson
PA/SI Program
Solid Waste Division

Enclosure

Printed on 100% Recycled Paper

WORK SCHEDULE
MULTI-SITE COOPERATIVE AGREEMENT PA/SI PROGRAM
FOR EXTENSION
OCTOBER 1, 1985 THROUGH DECEMBER 1, 1985

| HAZIT NUMBER | SITE NAME | PA | SI | SIF |
|---|---|---|---|---|
| Discovery | Cities Service Formaldehyde Plant | October | December | - |
| Discovery | Ag Enterprises | October | * | - |
| Discovery | Wild Man Cyanide Smelter | October | December | - |
| Discovery | Pauls Oil Reclaiming | October | * | - |
| OK02445 | Prestolite | - | - | October |
| OK05118 | Chemical Products Development Corp | - | November | - |
| OK05037 | Blackwell E. Coolidge Dump | - | November | - |
| OK02674 | Alpha Drum | October | * | - |
| OK02496 | Air Center | - | November | - |
| OK03697 | Huffman Wood Preserving | - | November | - |
| OK02356 | Kelso Basin | - | December | - |

- Designates an action which will not be performed by the State.

* These sites will probably require a Site Inspection but it is anticipated that they will not be inspected until after January 1, 1986.

OK02496

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RECEIVED
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1984 APR 23 AM 10: 45
SUPERFUND BRANCH

April 20, 1984

Paul Sieminski
EPA
Region 6
1201 Elm
Dallas, TX 75270

Dear Paul:

This letter transmits Site Inspection Safety and Sampling Plans for Hazsit OK02356, Kelco Basin, and for Hazsit OK02496, Air Center, Inc.

Early inspection is needed because the Kelco Basin may soon be returned to service, and Air Center, Inc., has recently filed for bankruptcy under Chapter 11.

Yours truly,

R. Fenton Rood, Director
Resource Recovery Division

RFR:JI:vf

Enclosures

EPA

**POTENTIAL HAZARDOUS WASTE SITE**
**TENTATIVE DISPOSITION**

| REGION | SITE NUMBER |
|---|---|
| 6 | OK 2496 |

File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency, Site Tracking System; Hazardous Waste Enforcement Task Force *(EN-335)*; 401 M St., SW, Washington, DC 20460.

## I. SITE IDENTIFICATION

| A. SITE NAME | B. STREET | |
|---|---|---|
| AIR CENTER, INC. | 7300 NW 63 HANGER 8, Wiley Post Airport | |
| **C. CITY** | **D. STATE** | **E. ZIP CODE** |
| OKLAHOMA CITY | OK | 73132 |

## II. TENTATIVE DISPOSITION

Indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes.

| RECOMMENDATION | MARK 'X' | ACTION-AGENCY: EPA | STATE | LOCAL | PRIVATE |
|---|---|---|---|---|---|
| A. NO ACTION NEEDED -- NO HAZARD | | | | | |
| B. INVESTIGATIVE ACTION(S) NEEDED *(If yes, complete Section III.)* | | / | X | | |
| C. REMEDIAL ACTION NEEDED *(If yes, complete Section IV.)* | | | | | |
| D. ENFORCEMENT ACTION NEEDED *(If yes, specify in Part E whether the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.)* | | | | | |

**E. RATIONALE FOR DISPOSITION**

Aircraft refurbishing and exterior painting of aircraft. Total retention lagoon formerly used for waste treatment was filled w/ area soil. Two 500 gallon below ground tanks reported to be onsite and used for storing paint/stripping sludge.

**F. INDICATE THE ESTIMATED DATE OF FINAL DISPOSITION** *(mo., day, & yr.)*

**G. IF A CASE DEVELOPMENT PLAN IS NECESSARY, INDICATE THE ESTIMATED DATE ON WHICH THE PLAN WILL BE DEVELOPED** *(mo., day, & yr.)*

**H. PREPARER INFORMATION**

| 1. NAME | 2. TELEPHONE NUMBER | 3. DATE *(mo., day, & yr.)* |
|---|---|---|
| A.L. GARDNER GAW-SE | 214/767-6421 | 11-7-83 |

## III. INVESTIGATIVE ACTIVITY NEEDED

**A. IDENTIFY ADDITIONAL INFORMATION NEEDED TO ACHIEVE A FINAL DISPOSITION.**

Determine the integrity of the below ground tanks. and if the retention lagoon poses a potential hazard to the environment

**B. PROPOSED INVESTIGATIVE ACTIVITY** *(Detailed Information)*

| 1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO. | 2. SCHEDULED DATE OF ACTION *(mo, day, & yr)* | 3. TO BE PERFORMED BY *(EPA, Contractor, State, etc.)* | 4. ESTIMATED MANHOURS | 5. REMARKS |
|---|---|---|---|---|
| a. TYPE OF SITE INSPECTION | | | | |
| (1) Recon | 1983 | State | | RCRA 3012 |
| (2) | | | | |
| (3) | | | | |
| b. TYPE OF MONITORING | | | | |
| (1) | | | | |
| (2) | | | | |
| c. TYPE OF SAMPLING | | | | |
| (1) | | | | |
| (2) | | | | |



*Continue On Reverse*

*Continued From Front*

## III. INVESTIGATIVE ACTIVITY NEEDED and PART B - PROPOSED INVESTIGATIVE ACTIVITY *(Continued)*

| | | | | |
|---|---|---|---|---|
| d. TYPE OF LAB ANALYSIS (1) | | | | |
| (2) | | | | |
| e. OTHER *(specify)* (1) | | | | |
| (2) | | | | |

C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B *(on front & above)* AS NEEDED TO IDENTIFY ADDITIONAL INVESTIGATIVE WORK.

D. ESTIMATED MANHOURS BY ACTION AGENCY

| 1. ACTION AGENCY | 2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES | 1. ACTION AGENCY | 2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES |
|---|---|---|---|
| a. EPA | | b. STATE | |
| c. EPA CONTRACTOR | | d. OTHER *(specify)* | |

## IV. REMEDIAL ACTIONS

A. SHORT TERM/EMERGENCY STRATEGY *(On Site & Off-Site)*: List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below.

| 1. ACTION | 2. EST. START DATE *(mo,day,& yr)* | 3. EST. END DATE *(mo,day,& yr)* | 4. ACTION AGENCY *(EPA, State, Private Party)* | 5. ESTIMATED COST | 6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED |
|---|---|---|---|---|---|
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |

B. LONG TERM STRATEGY *(On Site & Off-Site)*: List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See instructions for a list of Key Words for each of the actions to be used in the spaces below.

| 1. ACTION | 2. EST. START DATE *(mo,day,& yr)* | 3. EST. END DATE *(mo,day,& yr)* | 4. ACTION AGENCY *(EPA, State Private Party)* | 5. ESTIMATED COST | 6. SPECIFY 311 OR OTHER ACTION, INDICATE THE MAGNITUDE OF THE WORK REQUIRED |
|---|---|---|---|---|---|
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |
| | | | | $ | |

C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY

| 1. ACTION AGENCY | 2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES | 3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES | 1. ACTION AGENCY | 2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES | 3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES |
|---|---|---|---|---|---|
| a. EPA | | | b. STATE | | |
| c. PRIVATE PARTIES | | | d. OTHER *(specify)* | | |

EPA

# POTENTIAL HAZARDOUS WASTE SITE
## IDENTIFICATION AND PRELIMINARY ASSESSMENT

| REGION | SITE NUMBER (to be assigned by Hq) |
|---|---|
| 6 | OK02496 |

**NOTE:** This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

**GENERAL INSTRUCTIONS:** Complete Sections I and III through X as completely as possible before Section II (*Preliminary Assessment*). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (*EN-335*); 401 M St., SW; Washington, DC 20460.

## I. SITE IDENTIFICATION

A. SITE NAME: Air Center, Inc.

B. STREET (or other identifier): Hanger 8, Wiley Post Airport-7300 NW 63

C. CITY: Oklahoma City

D. STATE: OK

E. ZIP CODE: 73132

F. COUNTY NAME: Oklahoma

G. OWNER/OPERATOR (if known)

1. NAME: Air Center, Inc. P.O. Box 32168 Oklahoma City, OK 73123 — Wayne Oberg, Chief of Operating

2. TELEPHONE NUMBER: (405)789-4020

H. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4 MUNICIPAL ☒ 5 PRIVATE ☐ 6 UNKNOWN

I. SITE DESCRIPTION

Aircraft refurbishing and exterior painting in Hanger 8b: buried lagoon.

J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.)

Ex-Employee in conversation with A.A. Coulter, OSDH

K. DATE IDENTIFIED (mo., day, & yr.): 4/28/80

L. PRINCIPAL STATE CONTACT

1. NAME: Fenton Rood

2. TELEPHONE NUMBER: (405)271-5338

## II. PRELIMINARY ASSESSMENT (complete this section last)

A. APPARENT SERIOUSNESS OF PROBLEM

☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4 NONE ☐ 5 UNKNOWN

B. RECOMMENDATION

☐ 1. NO ACTION NEEDED (no hazard)

☐ 2. IMMEDIATE SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR
b. WILL BE PERFORMED BY

☒ 3. SITE INSPECTION NEEDED
a. TENTATIVELY SCHEDULED FOR: Week of Nov. 7-11, 1983
b. WILL BE PERFORMED BY: OSDH, Ice and Herlacher

☐ 4. SITE INSPECTION NEEDED (low priority)

C. PREPARER INFORMATION

1. NAME: John N. Ice, Martin Herlacher

2. TELEPHONE NUMBER: (405)271-5338

3. DATE (mo., day, & yr.): 10/22/83

## III. SITE INFORMATION

A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)

☐ 2. INACTIVE (Those sites which no longer receive wastes.)

☐ 3. OTHER (specify): (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☐ 1. NO ☒ 2. YES (specify generator's four-digit SIC Code): 3724

C. AREA OF SITE (in acres): approximately 10

D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES

1. LATITUDE (deg.-min.-sec.): 35° 31' 45" North

2. LONGITUDE (deg.-min.-sec.): 97° 38' 00" West

E. ARE THERE BUILDINGS ON THE SITE?

☐ 1. NO ☒ 2. YES (specify): 1 office/hangar; 2 hangars

11/7/83

T2070-2 (10-79)

Continue On Reverse

Continued From Front

## IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

| 'X' | A. TRANSPORTER | 'X' | B. STORER | 'X' | C. TREATER | 'X' | D. DISPOSER |
|---|---|---|---|---|---|---|---|
| | 1. RAIL | | 1. PILE | X | 1. FILTRATION | | 1. LANDFILL |
| | 2. SHIP | | 2. SURFACE IMPOUNDMENT | | 2. INCINERATION | | 2. LANDFARM |
| | 3. BARGE | | 3. DRUMS | | 3. VOLUME REDUCTION | | 3. OPEN DUMP |
| | 4. TRUCK | | 4. TANK, ABOVE GROUND | | 4. RECYCLING/RECOVERY | | 4. SURFACE IMPOUNDMENT |
| X | 5. PIPELINE | X | 5. TANK, BELOW GROUND | | 5. CHEM./PHYS. TREATMENT | | 5. MIDNIGHT DUMPING |
| | 6. OTHER (specify): | | 6. OTHER (specify): | | 6. BIOLOGICAL TREATMENT | | 6. INCINERATION |
| | | | | | 7. WASTE OIL REPROCESSING | | 7. UNDERGROUND INJECTION |
| | 5. outflow to discharge | | 2 500-gal settling tanks for painting and stripping sludge | | 8. SOLVENT RECOVERY | X | 8. OTHER (specify) intermittent stream→ pond→pond→unnamed tributary→Bluff Creek |
| | | | | X | 9. OTHER (specify) Filtered water to sludge tank;top water discharge. | | |

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

Strip and paint large aircraft, refurbish interiors, producing sludge and top water from paint operations and scrap from aircraft interiors, including wiring, hose, etc. Total retention lagoon formerly used for treatment was filled in with soil removed during extension of runway.

## V. WASTE RELATED INFORMATION

A. WASTE TYPE

[ ] 1 UNKNOWN [X] 2. LIQUID [X] 3. SOLID [X] 4. SLUDGE [ ] 5. GAS

B. WASTE CHARACTERISTICS

[ ] 1 UNKNOWN [X] 2. CORROSIVE [X] 3. IGNITABLE [ ] 4. RADIOACTIVE [X] 5 HIGHLY VOLATILE
[X] 6. TOXIC [ ] 7 REACTIVE [X] 8. INERT [X] 9 FLAMMABLE

[ ] 10. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

No

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

| a. SLUDGE X | b. OIL | c. SOLVENTS | d. CHEMICALS | e. SOLIDS | f. OTHER |
|---|---|---|---|---|---|
| AMOUNT less than 1000 gal/yr | AMOUNT 0.00 | AMOUNT 0.00 | AMOUNT less than 50 | AMOUNT variable | AMOUNT 0.00 |
| UNIT OF MEASURE gal | UNIT OF MEASURE | UNIT OF MEASURE | UNIT OF MEASURE gal/wk | UNIT OF MEASURE | UNIT OF MEASURE |
| 'X' (1) PAINT, PIGMENTS: X | 'X' (1) OILY WASTES | 'X' (1) HALOGENATED SOLVENTS | 'X' (1) ACIDS | 'X' (1) FLYASH | 'X' (1) LABORATORY PHARMACEUT. |
| (2) METALS SLUDGES | (2) OTHER (specify): | (2) NON-HALOGNTD. SOLVENTS | (2) PICKLING LIQUORS | (2) ASBESTOS | (2) HOSPITAL |
| (3) POTW | | (3) OTHER (specify): | (3) CAUSTICS: X | (3) MILLING/MINE TAILINGS | (3) RADIOACTIVE |
| (4) ALUMINUM SLUDGE | | | (4) PESTICIDES | (4) FERROUS SMLTG. WASTES | (4) MUNICIPAL |
| X (5) OTHER (specify): depleted stripper | | | (5) DYES/INKS | (5) NON-FERROUS SMLTG. WASTES | (5) OTHER (specify): |
| | | | (6) CYANIDE | X (6) OTHER (specify): Upholstery, wiring, hoses, interior paneling | |
| | | | (7) PHENOLS: X | | |
| | | | (8) HALOGENS | | |
| | | | (9) PCB | | |
| | | | (10) METALS | | |
| | | | (11) OTHER (specify) | | |

 Continue On Page 3

Continued From Page 2

## V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

Heavy metals pigments, solvents, strippers

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

Informant (1980) reported strippers poured directly into lagoon. Lagoon has since been filled with soil from runway extension. Oklahoma Water Resources Board recent analysis of sediment from present discharge area indicate excessive levels of toxics

## VI. HAZARD DESCRIPTION

| A. TYPE OF HAZARD | B. POTENTIAL HAZARD (mark 'X') | C. ALLEGED INCIDENT (mark 'X') | D. DATE OF INCIDENT (mo., day, yr.) | E. REMARKS |
|---|---|---|---|---|
| 1. NO HAZARD | | | | |
| 2. HUMAN HEALTH | | | | |
| 3. NON-WORKER INJURY/EXPOSURE | | | | |
| 4. WORKER INJURY | | | | |
| 5. CONTAMINATION OF WATER SUPPLY | | | | |
| 6. CONTAMINATION OF FOOD CHAIN | | | | |
| 7. CONTAMINATION OF GROUND WATER | | | | |
| 8. CONTAMINATION OF SURFACE WATER | X | | | |
| 9. DAMAGE TO FLORA/FAUNA | | | | |
| 10. FISH KILL | | | | |
| 11. CONTAMINATION OF AIR | | | | |
| 12. NOTICEABLE ODORS | | | | |
| 13. CONTAMINATION OF SOIL | X | | | |
| 14. PROPERTY DAMAGE | | | | |
| 15. FIRE OR EXPLOSION | | | | |
| 16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS | X | | | |
| 17. SEWER, STORM DRAIN PROBLEMS | | | | |
| 18. EROSION PROBLEMS | X | | | |
| 19. INADEQUATE SECURITY | | | | |
| 20. INCOMPATIBLE WASTES | | | | |
| 21. MIDNIGHT DUMPING | | | | |
| 22. OTHER (specify): | | | | |



Continue On Reverse

*Continued From Front*

## VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

☐ 1. NPDES PERMIT ☐ 2. SPCC PLAN ☐ 3. STATE PERMIT *(specify)* _____

☐ 4. AIR PERMITS ☐ 5. LOCAL PERMIT ☐ 6. RCRA TRANSPORTER

☐ 7. RCRA STORER ☐ 8 RCRA TREATER ☐ 9 RCRA DISPOSER

☒ 10. OTHER *(specify)*: Generator Disposal Plan #55126

B. IN COMPLIANCE?

☒ 1. YES ☐ 2. NO ☐ 3. UNKNOWN

4. WITH RESPECT TO *(list regulation name & number)* No permits held

## VIII. PAST REGULATORY ACTIONS

☒ A. NONE ☐ B. YES *(summarize below)*

None identified

## IX. INSPECTION ACTIVITY *(past or on-going)*

☐ A. NONE ☒ B. YES *(complete items 1,2,3, & 4 below)*

| 1 TYPE OF ACTIVITY | 2 DATE OF PAST ACTION *(mo., day, & yr.)* | 3 PERFORMED BY: *(EPA/State)* | 4. DESCRIPTION |
|---|---|---|---|
| Initial inspection | 9/7/83 | State | Oklahoma Water Resources Board investigation of discharge |
| | | | |
| | | | |

## X. REMEDIAL ACTIVITY *(past or on-going)*

☐ A. NONE ☒ B. YES *(complete items 1, 2, 3, & 4 below)*

| 1. TYPE OF ACTIVITY | 2. DATE OF PAST ACTION *(mo., day, & yr.)* | 3. PERFORMED BY: *(EPA/State)* | 4. DESCRIPTION |
|---|---|---|---|
| Permit Application | 10/17/83 | State | Waste Disposal Plan and Application |
| | | | |
| | | | |

**NOTE:** Based on the information in Sections III through X, fill out the Preliminary Assessment *(Section II)* information on the first page of this form.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Air n er Inc OKD2496

| Corresponding number on form | Additional Remark and/or Explanation |
|---|---|
| V.4. | and metals. Site has never applied for permits for wastes or discharge of liquids. |

ATTACHMENT A

RECEIPT AND TRANSMITTAL MEMO

Date Received 10/31/83

Project Officer (P&D) PAUL SIEMINSKI

| HAZSIT # | SITE NAME | FORM # and DATE COMPLETED | CHECK ONE ACCEPTED | REJECTED |
|---|---|---|---|---|
| 1. OK02496 | AIR CENTER, INC. HANGER 8, WILEY/POST AIRPORT | 2070-2 10/22/83 | ✓ | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| n. | | | | |

AUG 7

Mr. Fenton Rood, Director
Environmental Health Division
Oklahoma State Department of
Health
1000 Northeast Tenth Street
P.O. Box 53551
Oklahoma City, Oklahoma 73152

Dear Mr. Rood:

Enclosed for your information and files are the Superfund Site Strategy Recommendations and associated reports for the following sites:

| SITE NAME | EPA NUMBER | REPORT EVALUATED |
|---|---|---|
| ° Madwell Metals | OKD032994345 | FIT PA |
| ° Coyle Drum Site | OKD987067758 | FIT PA |
| ° Flynt Mining | OKD096143417 | FIT PA |
| ° Cities Service Refinery | OKD982311656 | FIT PA |
| ° Royal Manufacturing Co. | OKD980623029 | FIT PA |
| ° Blackwell | OKD980796023 | FIT PA (re-assessment) |
| ° Fansteel Metals | OKD007221831 | FIT SSI |
| ° Air Center Inc. | OKD980750319 | FIT SSI |

If you have any questions about the enclosed material or need additional information, please call Peter A. Sam at (214) 655-6740.

Sincerely,

William H. Taylor, Chief
Superfund Site Assessment Section (6H-MA)

Enclosures

bcc: Cathy Gilmore (6H-SA)
Peter A. Sam (6H-MA)
File Number OKD032994345
File Number OKD987067758
File Number OKD096143417
File Number OKD982311656
File Number OKD980623029
File Number OKD980796023
File Number OKD007221831
File Number OKD980750319

6H-MA:SAM:CS:8/3/89:Disk #1:Sub#44:Doc#15:p-1: X6740/6725

# STORAGE FACILITIES SITE INSPECTION REPORT
*(Supplemental Report)*

**INSTRUCTION**
Answer and Explain as Necessary.

**1. STORAGE AREA HAS CONTINUOUS IMPERVIOUS BASE**

☐ YES ☐ NO Unknown

**STORAGE AREA HAS A CONFINEMENT STRUCTURE**

☐ YES ☐ NO Unknown

**3. EVIDENCE OF LEAKAGE/OVERFLOW** *(If "Yes", document where and how much runoff is overflowing or leaking from containment)*

☐ YES ☐ NO Unknown

**4. ESTIMATE TYPE AND NUMBER OF BARRELS/CONTAINERS**

None

**5. GLASS OR PLASTIC STORAGE CONTAINERS USED**

☐ YES ☒ NO

**6. ESTIMATE NUMBER AND CAPACITY OF STORAGE TANKS**

Two NOS 500-gallon underground storage tanks according to Air Center permit application in February 1984. Visual evidence of tanks seen in attached photos (photo #9, photo #20).

**7. NOTE LABELING ON CONTAINERS**

None. Tanks used to store paint stripping sludge.

**8. EVIDENCE OF LEAKAGE CORROSION OR BULGING OF BARRELS/CONTAINERS/STORAGE TANKS** *(If "Yes", document evidence. Describe location and extent of damage. Take PHOTOGRAPHS)*

☐ YES ☐ NO

Unknown

**9. DIRECT VENTING OF STORAGE TANKS**

☐ YES ☒ NO

**10. CONTAINERS HOLDING INCOMPATIBLE SUBSTANCES** *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*

☐ YES ☐ NO Unknown

**11. INCOMPATIBLE SUBSTANCES STORED IN CLOSE PROXIMITY** *(If "Yes", document evidence. Describe location and identity of hazardous waste. Take PHOTOGRAPHS.)*

☐ YES ☐ NO Unknown

**12. ADEQUATE CONTAINER WASHING AND REUSE PRACTICES**

☐ YES ☒ NO

**13. ADEQUATE PRACTICES FOR DISPOSAL OF EMPTY STORAGE CONTAINERS**

☐ YES ☒ NO

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

| Corresponding number on form | Additional Remark and/or Explanation |
|---|---|
| VIII. U. | The following is FIT's recommended sampling plan (see attached sketches): |

I. Off Site - Water course for drainage after leaving Air Center

Depth and type of sample: 1' deep sediment sample

Analysis performed: metals and cyanide and for phenols (SAS).

Justification for phenol analysis: Even though organic analysis in 1986 did not reveal phenols, phenols were detected in significant amounts in water and sediments in 1984. Also, because it is a semi-volatile and contaminants may still be coming from Air Center, analysis is recommended.

| Sample No. | | Location | Justification |
|---|---|---|---|
| *1 | a) sediment<br>b) water | North eastern end of spillway leading into Woodlake Pond from Air Center | To determine presence of contaminants east of Rockwell Avenue |
| 2 | | Strip of land projecting into drainage path (see photo #9) | Possible point of accumulation of contaminants |
| 3 | | SE end of pond close to drainage inlet | Possible point for contamination not attributable to Air Center |
| 4 | | NE edge of pond | Furthermost end of pond and possible point for accumulation |

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

| Corresponding number on form | Additional Remark and/or Explanation | | |
|---|---|---|---|
| | Sample No. | Location | Justification |
| VIII. U. | 5 & 6 | Near both ends of spillway (photos 3 & 4) | To trace the migration of contaminants from lake into drainage path leading to swampy area. |
| | 7 | Along the bend in the drainage path | Possible accumulation of contaminants |
| | 8 & 9 | Swampy area to the NE of Woodlake Pond | To determine contamination into and out of swampy area |
| | 24 | South of location #3 | Background which may also give information on contamination due to residential areas |

II. On-Site

| Sample # | Location | Type & Depth of Sample | Analysis Required |
|---|---|---|---|
| 10 | NE corner of site | a) soil. 1' depth<br>b) water sample | Metals and cyanides and phenols |

Justification: Furthest point of contamination on-site. End of site drainage path.

| | | | |
|---|---|---|---|
| 11,12&13 | Both sides of pipe and inlet to swampy area | soil. 1' depth | -do- |

Justification: To determine the migration path of contaminants.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form

VIII. U.

Additional Remark and/or Explanation

| Sample # | Location | Type & Depth of Sample | Analysis Required |
|---|---|---|---|
| 14 | SE slope of lagoon into drainage ditch | soil. 1' depth possibly deeper | Metals and cyanides and phenols |

Justification: Possible seepage from lagoon into drainage ditch.

| | | | |
|---|---|---|---|
| ✓15 | Near Dead Tree | soil. 1' depth possibly deeper | -do- |

Justification: Possible accumulation of contaminants may have caused this.

| | | | |
|---|---|---|---|
| ✓16 | Breach in the berm | soil. 1' depth | -do- |

Justification: Possible drainage path of contamination.

| | | | |
|---|---|---|---|
| ✓17 | Probable location of lagoon | soil. a) 1' depth<br>soil. b) 6' depth | -do- |

Justification: Lagoon said to have contained contaminants and later filled up with soil.

| | | | |
|---|---|---|---|
| ✓18 | Circular patch of dead vegetation on lagoon (photo #20 | soil. a) 1' depth<br>soil. b) 6' depth | -do- |

Justification: -do-

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

Corresponding number on form VIII. U.

Additional Remark and/or Explanation

| Sample # | Location | Type & Depth of Sample | Analysis Required |
|---|---|---|---|
| √19 | Probable location of lagoon (photo #13 and 15) | soil. a) 1′ depth<br>soil. b) 6′ depth | -do- |

Justification: -do-

| | | | |
|---|---|---|---|
| √20 | Near concrete drainage pipe (photo #12) | soil. a) 1′ depth | -do- |

Justification: Possible contamination from hangers through pipe.

| | | | |
|---|---|---|---|
| √21 | Circular patches on grass to the east of hanger (photo #21) | soil. 1′ depth | -do- |

Justification: Possible storage area for drums.

| | | | |
|---|---|---|---|
| √22 | Underground storage tank (photo 19&20) | Medium concentration sediment. Bottom of tank. | Metals and cyanide, organic-volatiles, extractable (extractable and pesticides). Phenols. |

Justification: Storage for stripper waste.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

| Corresponding number on form | Additional Remark and/or Explanation |
|---|---|
| VIII.U. | |

| Sample # | Location | Type & Depth of Sample | Analysis Required |
|---|---|---|---|
| ✓23 | North of paint stripping hanger | soil. a) 1′ depth<br>soil. b) 6′ depth | Metals and cyanide, organic - volatiles, extractable (extractables and pesticides), phenols |

Justification: Background

Ground Water Sampling

| | | | |
|---|---|---|---|
| (b) (9) | Residential Well<br>(b) (6)<br>Depth of well: 110′ | Water | Metals and cyanides organic - volatiles, extractable (extractables and pesticides), phenols |
| ✓26 | City of Bethany Municipal Well #21<br>Depth of Well: 70.5′ | Water | -do- |
| (b) (9) | Residential Well<br>(b) (6)<br>Depth of Well: 75′ | Water | -do- |
| ✓28 | City of Bethany Municipal Well #23<br>Depth of Well: Unknown<br>City of Bethany | Water | -do- |

Justification: The above are drinking water wells within the 1-3 mile radius of site which are down gradient from site.

ATTACHMENT A

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT SUPPLEMENT SHEET

Instruction - This sheet is provided to give additional information in explanation of a question on the form T2070-3.

| Corresponding number on form | Additional Remark and/or Explanation |
|---|---|
| VIII.U. (Cont'd) | |

| Sample # | Location | Type & Depth of Sample | Analysis Required |
|---|---|---|---|
| (b) (9) [redacted] | Residential Well (b) (6) [redacted] | Water | Metals and cyanides, organic - volatiles, extractable (extractable and pesticides), phenols |

Justification: Background water sample located to the north-northwest of site and approximately three to four miles from the site and upgradient from it.

The FIT recon team did not find wells other than the City of Bethany Well #23 within one mile of the site. Areas outside the Bethany city limits are supplied by Oklahoma City, which gets its water from Lake Hefner.

The drainage path was followed from Woodlake Pond to the swampy area into a series of ponds and then over Bluff Creek Canal to possibly Ski Island and Silver Lake. No sampling locations were chosen further than the swampy area to the NE of Woodlake Pond as there would be cross contamination from numerous drainage inlets and drainage paths into these ponds.

The possible location of lagoon was determined from cross checking aerial photos against the unusual soft and dried grass bottom observed at the site to the southeast of the water tank.

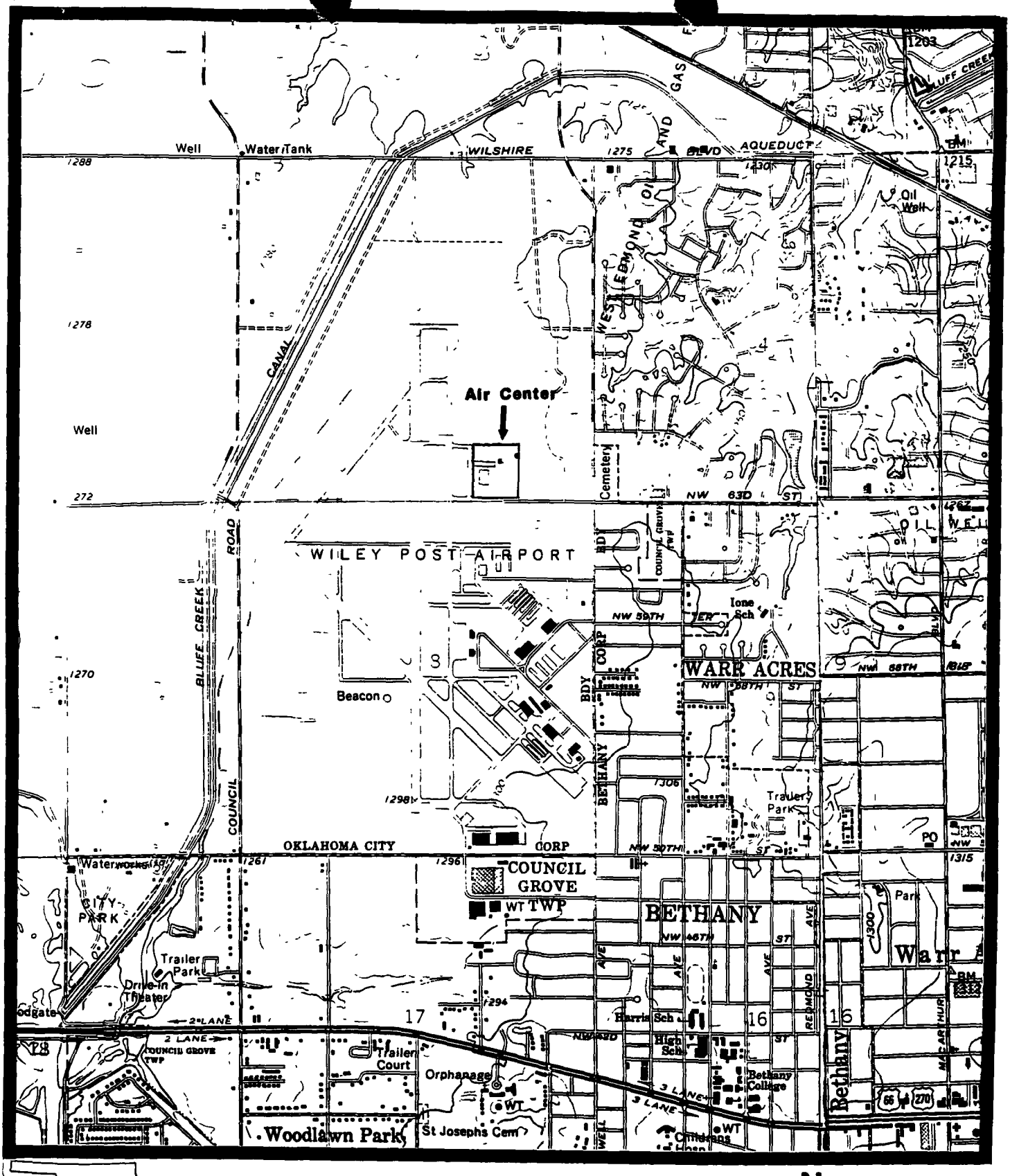
X.H.

No water wells were observed within a 1/4 mile radius of site. The closest well is located about 3/4 miles to the west of the site. This is a drinking water well belonging to the City of Bethany. The records show this well to have a static head of 42.2 feet.

There are residential drinking water wells within one to two miles to the south of the site, one to two miles to the southwest and two to three miles to the North of the site. The residential well survey forms are attached.

XIV.

The facility applied for a State Generator Disposal Plan on 10/17/83. It is not known whether any permit was issued, as the facility went out of business.




QUADRANGLE LOCATION
U.S.G.S. 7.5 min.
TOPOQUADRANGLES

# TITLE : SITE LOCATION

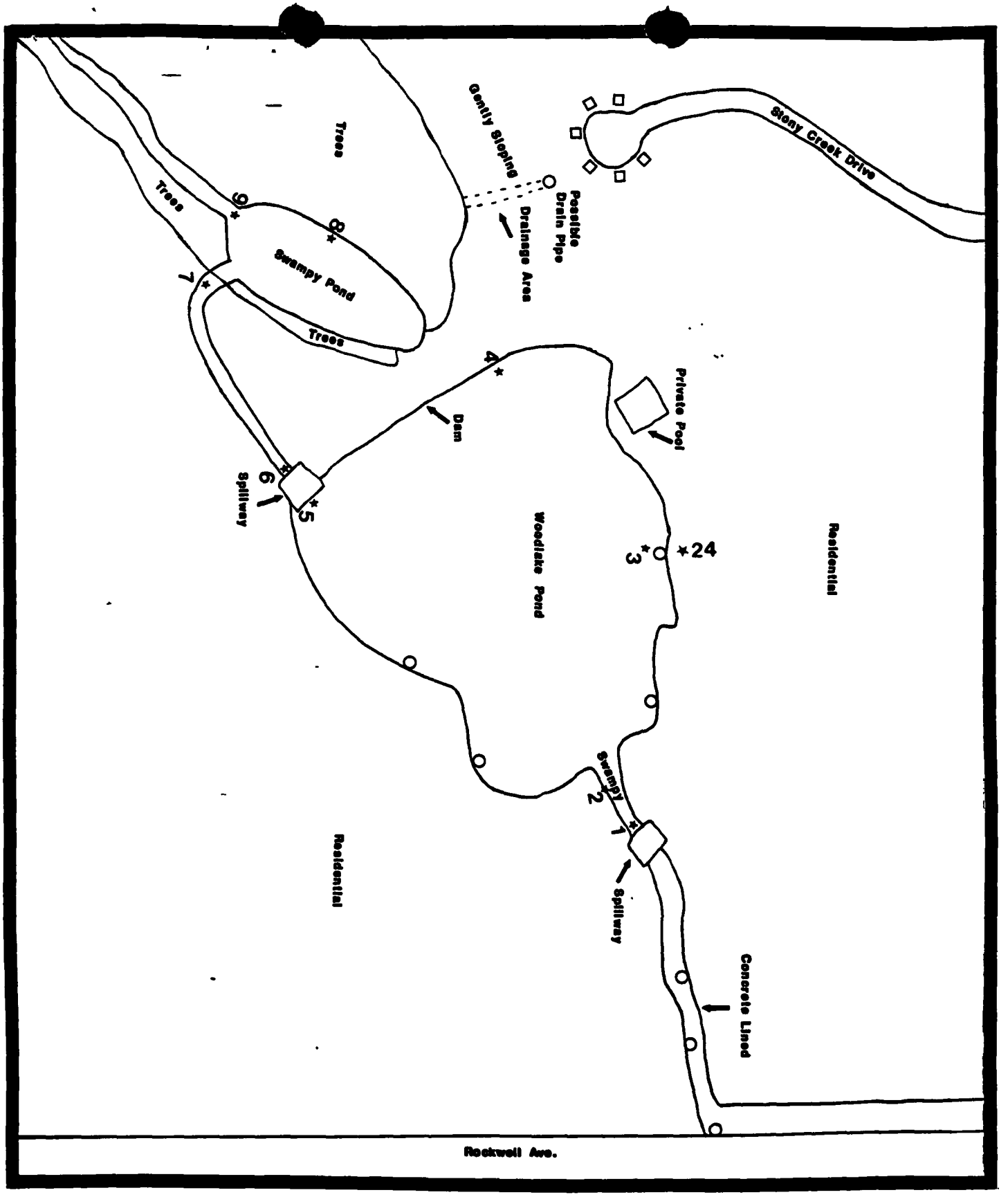
**SITE NAME : Air Center**
**Oklahoma City, Oklahoma**

**CERCLIS NO. : OKD980750319**
**TDD NO. : F-6-8707-11**

N

1 ½ 0
MILE

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929




**Water Course for Drainage Ditch after leaving Air Center**

**OKD980750319**

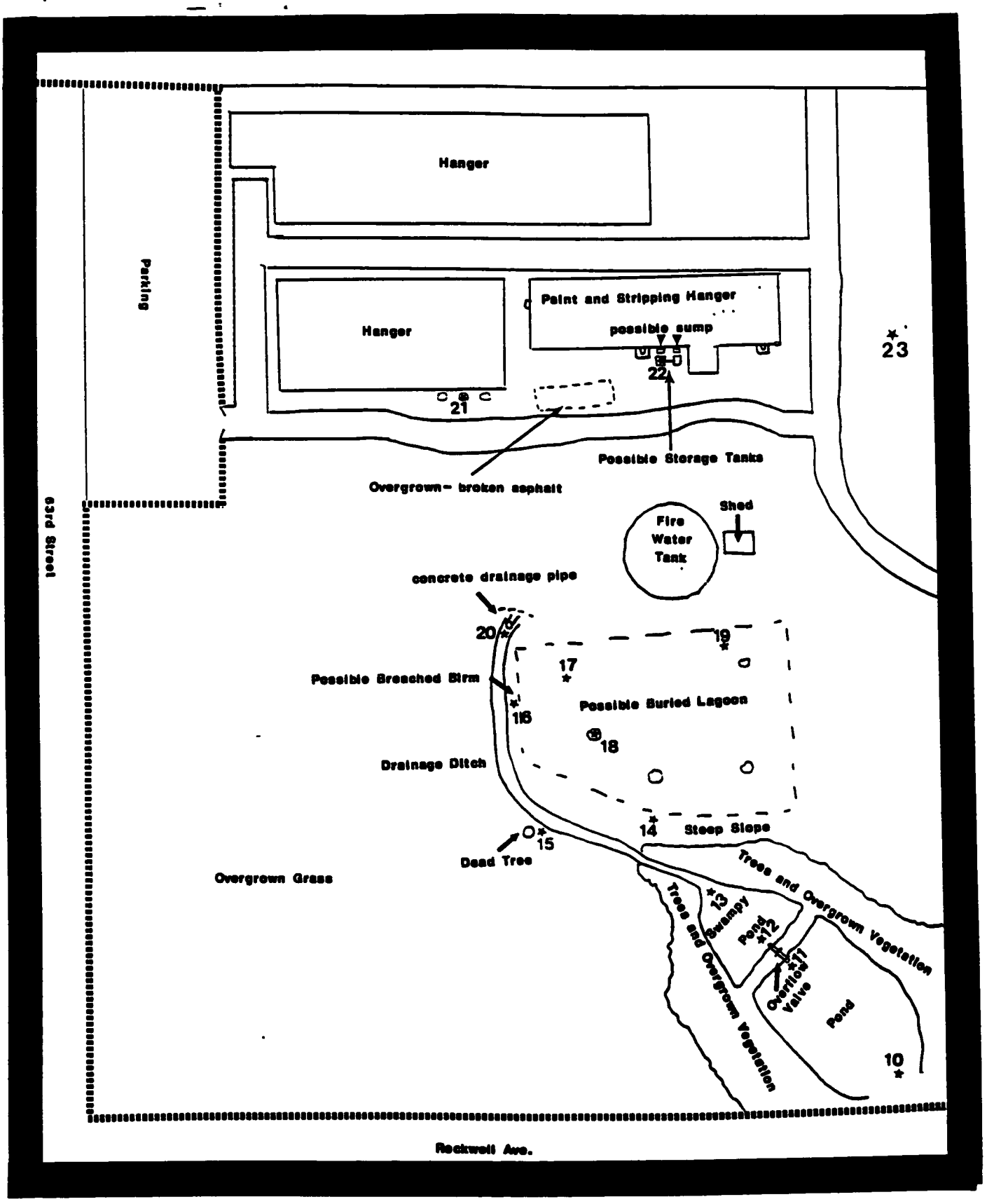
**TDD# F-6-8707-11**

N

○ Drainage Inlets from Surrounding Streets

★ Proposed Sampling Points

**Not To Scale**




**Site Sketch**
**Air Center Inc.**
**Oklahoma City, Oklahoma**
**OKD980750319**
**TDD# F-6-8707-11**
**Site Inspection: 7-23-87**

○ Spots of Dead Vegetation
Fence Line
2 ✱ Possible Sampling Points

N →
Not To Scale

# This Document Contained Material Which Was Not Filmed/Scanned

**Title** Arr Center Incorporated - Wiley Post, site Location MAP, Oversized MAP

# Please Refer to the File in Superfund Records Center

## Quadrangles Used:

Bethany, Okla.

Britton, Okla.

Oklahoma City, Okla. (not available)

Mustang, Okla.

CERCLIS NO:OKD980750319

TDD NO:F-6-8707-11

## Air Center Inc.

## Oklahoma City, Oklahoma

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

ROAD CLASSIFICATION

Heavy duty — Light duty

Medium duty — Unimproved dirt

( ) Interstate Route ( ) State Route

.... Drainage pathway

OKLAHOMA

QUADRANGLE LOCATION

★Sampling Locations

# This Document Contained Material Which Was Not Filmed/Scanned

**Title** Air Center Incorporated-Wiley Post, Storage Facilities Site Inspection Report, Site Photos

# Please Refer to the File in Superfund Records Center

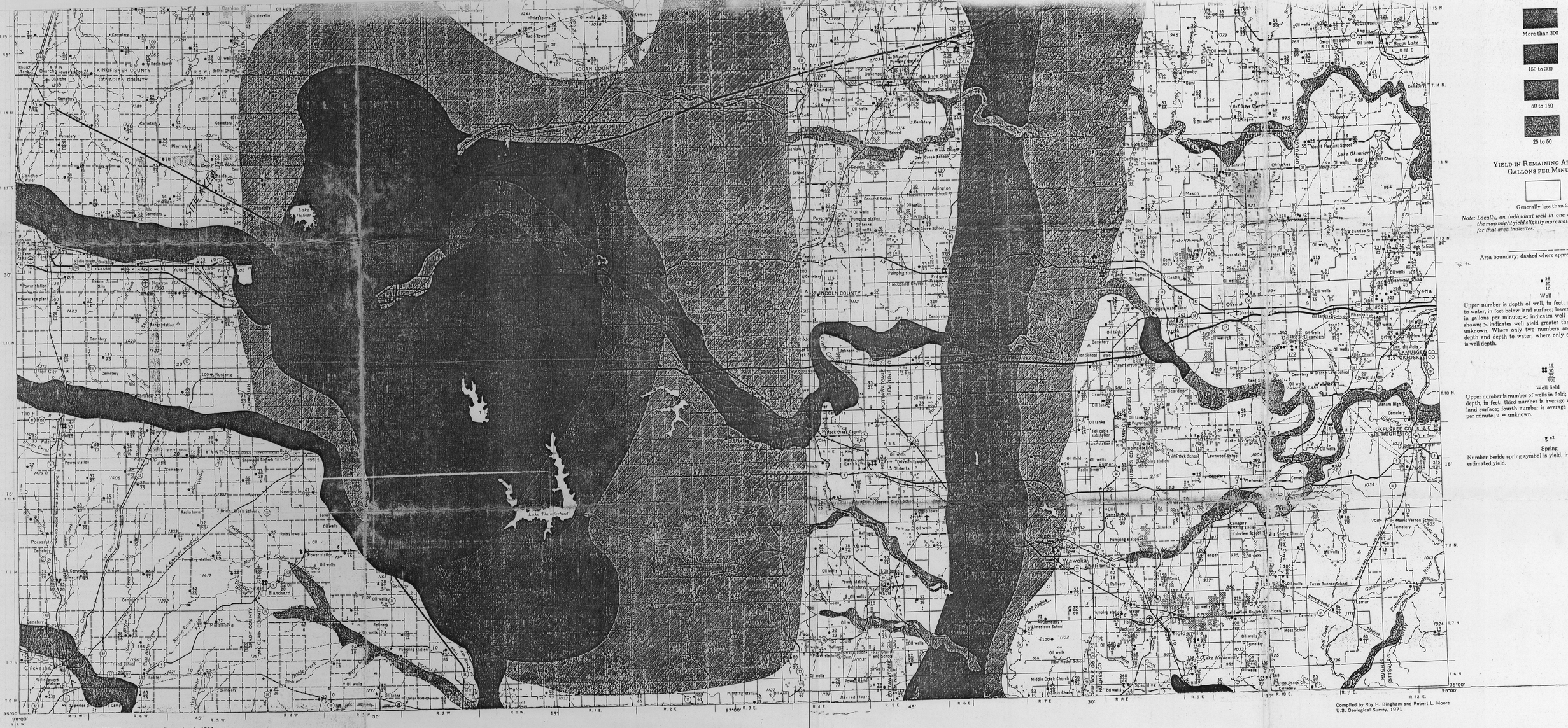



Figure 4. Map showing availability of ground water and pertinent data for drilled wells.

## AVAILABILITY OF GROUND WATER

Information used to determine the availability of ground water was obtained in the field, from published and unpublished geologic maps, and from State and Federal agencies. Field information included measurement of well depth and depth to water, and reported yield and well-construction data. The Oklahoma Water Resources Board provided reported data on industrial and irrigation wells. The U.S. Public Health Service provided records on numerous wells in Hughes, Okfuskee, Okmulgee, and Creek Counties, and the U.S. Army Corps of Engineers provided records of wells along the shores of Lake Heyburn.

Delineation of areas of ground-water availability was based on the assumptions that (1) well yields from a particular geologic unit are similar throughout the extent of the unit provided that the lithology is similar, and (2) drilled wells will penetrate the total thickness of the aquifer.

Ground water in the Oklahoma City quadrangle is derived from precipitation falling directly upon the area. The average annual precipitation ranges from about 28 inches in the northwestern part of the quadrangle to about 41 inches in the southeastern part. Of this amount, an estimated 24 to 30 inches is returned to the atmosphere annually through evaporation and transpiration by plants. Runoff ranges from about 2.5 to 8 inches annually. The remaining 1.5 to 3.5 inches of the annual precipitation is available to recharge the ground-water reservoir.

During the principal recharge period, from November to April, a small part of the rainfall percolates from the land surface downward into the underlying rocks and becomes ground water. The capacity of the underlying rocks to absorb and transmit water depends upon the number, size, shape, and arrangement of the openings in them.

Water generally moves very slowly through fine-grained rocks such as siltstone and shale because the openings between the rock particles are too small to transmit water freely; thus, yields of wells penetrating these rocks are small. Water generally moves freely through medium- to coarse-grained sandstone and gravel; therefore, yields of wells penetrating these rocks are relatively large.

### Major Aquifers

An aquifer is a geologic unit, a part of a geologic unit, or a group of units that will yield significant amounts of water to wells. For this report, major aquifers are of two types: aquifers in unconsolidated alluvium and terrace deposits, and aquifers in bedrock. The location and range in yields from major aquifers are shown in figure 4.

Generally, the water-bearing properties of alluvium and of terrace deposits are similar; thus, these two units are combined and shown as a single aquifer along major streams. The units consist of lenticular layers of silt, clay, fine sand, and locally a layer of coarse sand and gravel at the base. The yields of wells depend largely upon the saturated thickness of the coarse sand and gravel; highest yields are obtained where the saturated layers are thickest.

In some areas in Kingfisher, Canadian, Cleveland, Oklahoma, and Pottawatomie Counties, alluvium and terrace deposits are the source of water for irrigation, industrial, and municipal use (fig. 4). In those counties, yields of 200 to 250 gpm (gallons per minute) are common, except in Kingfisher County, where terrace deposits commonly yield 400 to 500 gpm. As no large-capacity wells are known to have been drilled in the alluvium and terrace deposits in the eastern half of the area, the potential yields of these units in this area are estimated on the basis of geologic information.

Ground-water supplies in alluvium and terrace deposits can be made available for use by the installation of properly constructed wells. Pumping of large amounts of water from these units, however, lowers the water table. Lowering of the water table may cause some water to flow into the alluvium from the nearby stream. Therefore, pumping of large amounts of water from the alluvium can reduce streamflow. In some areas poor-quality water from the stream may cause deterioration of the quality of water in the alluvium.

Mining of water occurs when the amount of water pumped from the aquifer is greater than the amount of recharge. Such mining decreases the amount of water available from the aquifer and is reflected by water levels that continue to decline year after year.

Data are not available to accurately predict the duration, intensity, and areal extent of problems that may result from development and use of large-capacity wells in the alluvium and terrace deposits.

The Vamoosa Formation is a major bedrock aquifer. Sandstone layers in the Vamoosa are fine to coarse grained and are irregularly interbedded with shale; thicknesses of the sandstone layers vary considerably within short lateral distances. Yields of deeper wells in the Vamoosa Formation are generally greater than shallower wells because more of the saturated sandstone layers are penetrated. In some areas of Seminole, Okfuskee, and Creek Counties, wells drilled 600 to 750 feet deep penetrate as much as 150 to 200 feet of saturated sandstone and commonly yield 100 to 150 gpm. In the eastern two-thirds of the outcrop area of the Vamoosa Formation, drilled wells commonly yield 25 to 50 gpm because only part of the formation is present. Domestic wells generally are less than 100 feet deep, and yields are small but could be increased by deepening the wells to penetrate additional water-bearing sandstone.

Major bedrock aquifers in addition to the Vamoosa Formation are sandstone layers in the Garber Sandstone and Wellington Formation. These sandstone layers are fine to medium grained and are irregularly interbedded with shale; thicknesses of individual layers range from a featheredge to as much as 50 feet within short lateral distances.

In Cleveland and Oklahoma Counties, some wells drilled 700 to 850 feet into the Garber-Wellington aquifer may penetrate as much as 200 to 300 feet of water-bearing sandstone, whereas adjacent wells of equal depth may penetrate only a few thin beds of sandstone. Wells that penetrate most of the two formations commonly yield 200 to 250 gpm. Larger yields are obtained locally where the sandstone layers are thickest (Wood and Burton, 1968). In the western parts of Cleveland and Oklahoma Counties, salt water is present at depths of 200 to 300 feet below land surface; thus only the upper few layers of the saturated sandstone provide fresh water (Hart, 1966). The yields of wells from these layers are generally about 25 gpm.

Development and use of large-capacity wells in the sandstone aquifers might result in deterioration of water quality, mining of water from the aquifer (which would decrease the amount of water available), and possibly minor amounts of land-surface subsidence. The areal extent and duration of such effects have not been determined.

Rocks underlying those areas where major aquifers are not present are mostly shale, siltstone, minor sandstone, conglomerate, and thin layers of limestone of Permian and Pennsylvanian age and locally thin layers of alluvium and terrace deposits. Most wells drilled into those rocks probably yield less than 10 gpm; however, an individual well might yield as much as 25 gpm where the sandstone layers are thickest or where the rocks are broken by faults.

### Water-Level Fluctuations

Although most rain falls during the spring and summer months, most ground water recharge takes place during late winter and early spring when vegetation is dead or dormant and evaporation and transpiration are at a minimum. Thus water levels, as shown by the hydrographs (fig. 5), are highest in early spring, begin to decline in late spring or early summer, and continue to decline until autumn when they are at their lowest levels. In late autumn they begin to rise as evaporation and transpiration decrease. During the summer months, intermittent rains of an inch or more produce a temporary rise in water levels.

During the spring months, water levels in some of the sandstone formations rise rapidly in response to rainfall and decline nearly as rapidly, indicating that the permeability is sufficient to permit rapid recharge and lateral movement within the sandstone. The hydrographs of wells in sandstone near Perkins and Paden show this rapid response. In contrast, the hydrographs of other wells in the area show less response to rainfall, an indication that fractures in the sandstone through which recharge can enter the formation are few or restricted or that the source of recharge is at a considerable distance from the well.

### References Cited


Hart, D. L., Jr., 1966, Base of fresh ground water in southern Oklahoma: U.S. Geological Survey Hydrologic Investigations Atlas HA-223, 2 sheets, scale 1:250,000.

U.S. Public Health Service, 1962, Drinking water standards: U.S. Public Health Service Publication 956, 61 p.

Wood, P. R., and Burton, L. C., 1968, Ground-water resources in Cleveland and Oklahoma Counties, Oklahoma: Oklahoma Geological Survey Circular 71, 75 p.

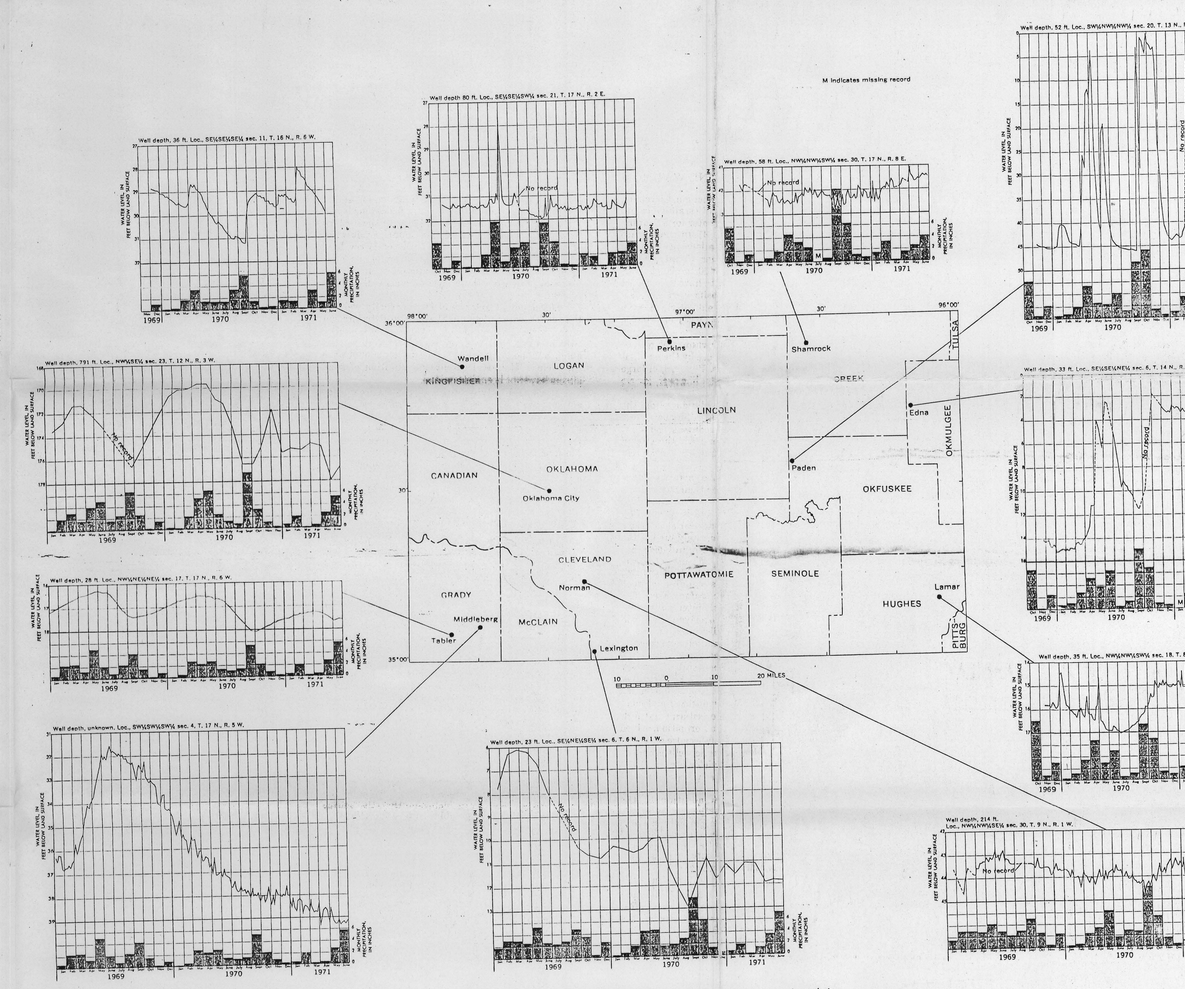




Figure 5. Hydrographs and precipitation data at selected sites.

# RECONNAISSANCE OF THE WATER RESOURCES OF THE OKLAHOMA CITY QUADRANGLE, CENTRAL OKLAHOMA


By

Roy H. Bingham and Robert L. Moore

U.S. Geological Survey



1975

Third Printing, 1991


09-00

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
   If so, to what depth? _____
   What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) possibly livestock

8. Any other pertinent information? _____

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug Unknown

3. Depth of well 110 feet

4. Depth to static water 30 feet

5. Is the well cased? Yes x No _____ Unknown _____
   If so, to what depth? 80 feet
   What type of casing is used? Steel

6. Is well screened? Yes _____ No _____ Unknown _____
   Foot Valve

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) drinking, irrigation, livestock

8. Any other pertinent information? No treatment

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
   If so, to what depth? _____
   What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) _____

8. Any other pertinent information? Two wells.

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
   If so, to what depth? _____
   What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) unknown

8. Any other pertinent information? Water is used for gardening; drinking water comes from the city.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
If so, to what depth? _____
What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) unknown

8. Any other pertinent information? Water is used for gardening; drinking water comes from the city.

RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
If so, to what depth? _____
What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) No use known.

8. Any other pertinent information? Lady in hospital - information from owners at (b) (6) [redacted]

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1972

3. Depth of well 55 Feet

4. Depth to static water Unknown

5. Is the well cased? Yes x No ____ Unknown ____
   If so, to what depth? Unknown
   What type of casing is used? Unknown

6. Is well screened? Yes ____ No ____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Gardening

8. Any other pertinent information? No septic tank. Well tested and quality good, according to owner.

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1977

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
   If so, to what depth? Unknown
   What type of casing is used? Unknown

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Garden, lawn

8. Any other pertinent information? City of Bethany - drinking. Husband may know more.

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug Unknown

3. Depth of well Unknown

4. Depth to static water Unknown

5. Is the well cased? Yes _____ No _____ Unknown x
   If so, to what depth? _____
   What type of casing is used? _____

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Unknown

8. Any other pertinent information? Used well in past. City water now. (Dog)

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1948

3. Depth of well Approximately 80 feet.

4. Depth to static water Can overflow

5. Is the well cased? Yes x No ____ Unknown ____
   If so, to what depth? ____
   What type of casing is used? PVC

6. Is well screened? Yes ____ No ____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Lawn and garden

8. Any other pertinent information? Well - lawn; city water - drinking; water softening service - City of Bethany; hard water - 90 grains. Gave business card.

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug _____

3. Depth of well 75 feet

4. Depth to static water About 20 feet

5. Is the well cased? Yes x No _____ Unknown _____
   If so, to what depth? _____
   What type of casing is used? galvanized casing

6. Is well screened? Yes _____ No _____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Household

8. Any other pertinent information? ½ horse power submersible pump. Approximately three years ago put in a water softener - treat with water softener.

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6)

2. Date well was dug 1945

3. Depth of well 50 feet originally; 1982-pulled out pipe and installed a submersible pump from 20 feet.

4. Depth to static water 20 feet - as of 1982

5. Is the well cased? Yes _____ No x Unknown _____
   If so, to what depth? _____
   What type of casing is used? No casing - submersible pump from 20 feet

6. Is well screened? Yes _____ No x Unknown _____

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) Household

8. Any other pertinent information? Water quality testing - up to 40.
   Clorox every now and then.

# RESIDENTIAL WELL SAMPLING INFORMATION

1. Name, address and phone number of resident (include county and zip code)

(b) (6) [redacted]

2. Date well was dug 1942

3. Depth of well 75 feet

4. Depth to static water Unknown

5. Is the well cased? Yes x No ____ Unknown ____
   If so, to what depth? ____
   What type of casing is used? steel

6. Is well screened? Yes ____ No ____ Unknown x

7. How much is the well pumped? (Only for residential use of for use in watering livestock?) household

8. Any other pertinent information? No treatment. Pulled up piping above ground. Problems when it rains with water quality.

EPA

# POTENTIAL HAZARDOUS WASTE SITE LOG

SITE NUMBER OK-02496

**NOTE:** The initial identification of a potential site or incident should not be interpreted as a finding of illegal activity or confirmation that an actual health or environmental threat exists. All identified sites will be assessed under the EPA's Hazardous Waste Site Enforcement and Response System to determine if a hazardous waste problem actually exists.

SITE NAME #8 . rt ir en r

SUMMARY OF POTENTIAL OR KNOWN PROBLEM
industrial waste site survey form
Oklahoma City - County health dept. (al Coulter)

| ITEM | DATE OF DETERMINATION OR COMPLETION | RESPONSIBLE ORGANIZATION OR INDIVIDUAL (EPA, State, Contractor, Other) | PERSON MAKING ENTRY TO LOG FORM | DATE ENTERED ON LOG (mo.day.yr) |
|---|---|---|---|---|
| 1. IDENTIFICATION OF POTENTIAL PROBLEM -25-80 | 27 1 | O r | | 7-28- |
| 2. PRELIMINARY ASSESSMENT | 10-22-83 | State - Ice | Newman | 11-14-8 |
| APPARENT SERIOUSNESS OF PROBLEM: | ☐ HIGH | ☐ MEDIUM ☒ LOW | ☐ NONE ☐ UNKNOWN | |
| 3. SITE INSPECTION | ① 9-10-86 | SI State | Newman | 3- 8 |
| 4. EPA TENTATIVE DISPOSITION (check appropriate item(s) below) | -23-87 | E F | Newman | 11-10-87 |
| ☐ a. NO ACTION NEEDED | | | | |
| ☒ b. INVESTIGATIVE ACTION NEEDED | ① 11-5-83 | Gardner | Newman | 11-14-83 |
| ☐ c. REMEDIAL ACTION NEEDED | ② 3-18-87 | Fassett | Newman | 3-30-87 |
| | ③ ~~10-89~~ | ~~Cook~~ | ~~Newman~~ | ~~11-10-~~ |
| ☐ d. ENFORCEMENT ACTION NEEDED | 4 11-21- | Cook | Newman | 12-7-88 |
| 5. EPA FINAL STRATEGY DETERMINATION (check appropriate item(s) below) | | | | |
| ☐ a. NO ACTION NEEDED | | | | |
| ☐ b. REMEDIAL ACTION NEEDED | | | | |
| ☐ c. REMEDIAL ACTION NEEDED BUT, NO RESOURCES AVAILABLE | | | | |
| ☐ d. ENFORCEMENT ACTION NEEDED | | | | |
| ☐ (1) CASE DEVELOPMENT PLAN PREPARED | | | | |
| ☐ (2) ENFORCEMENT CASE FILED OR ADMINISTRATIVE ORDER ISSUED | | | | |
| 6. STRATEGY COMPLETED | | | | |

EPA Form T2070-1 (10-79)

EPA Form 6/24/80