REVIEWED BY: L.D. Wright 11-24-80

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION: 6 | SITE NUMBER (to be assigned by HQ): OK01589

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: Vickers Petroleum - Weathering Beds
B. STREET (or other identifier): P.O. Box 188 T4S, R2E
C. CITY: Ardmore
D. STATE: OK
E. ZIP CODE: 73401
F. COUNTY NAME: Carter

G. SITE OPERATOR INFORMATION
1. NAME: Vickers Petroleum Corp. - Bell Refinery
2. TELEPHONE NUMBER: (405) 223-0534
3. STREET: 142 By Pass
4. CITY: Ardmore
5. STATE: OK
6. ZIP CODE: 73401

H. REALTY OWNER INFORMATION (if different from operator of site)
1. NAME: Vickers Petroleum Corp.
2. TELEPHONE NUMBER: unknown
3. CITY: P.O. Box 2240 Wichiata
4. STATE: KS
5. ZIP CODE: 67201

I. SITE DESCRIPTION: tetraethyl lead sludge weathering beds

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.): 9/30/80
B. APPARENT SERIOUSNESS OF PROBLEM
☐ 1. HIGH ☒ 2. MEDIUM ☐ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION
1. NAME: Gary McDonald
2. TELEPHONE NUMBER: (405) 271-5338
3. DATE (mo., day, & yr.): 9/15/80

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION
1. NAME: Gary McDonald
2. TITLE: Field Inspector
3. ORGANIZATION: OSDH
4. TELEPHONE NO. (area code & no.): (405) 271-5338

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
~~Vernon Davis~~	~~Johnston County Health Dept.~~	~~(405) 371-2490~~
Andy Monson	Carter County Health Dept.	(405) 223-9705
Randy Gay	OSDH	(405) 271-7060

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

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
W. E. George	Env. Supervisor	Total Petroleum Corp (Vickers Petroleum) OKD057705972

SUPERFUND FILE
OCT 21 1992
RECEIVED

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III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Vickers Co. - Bell Refinery	See Above	—	lead sludge

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Taylor Const.	(405) 223-2331	76 Broadtown, Ardmore	lead sludge

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.) 9/11/80

H. TIME OF INSPECTION 1300

I. ACCESS GAINED BY: (credentials must be shown in all cases) [X] 1. PERMISSION [ ] 2. WARRANT

J. WEATHER (describe) Clear to partly cloudy Hot in 90's °F

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		N/A	
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

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

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
	N/A	

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IV. SAMPLING INFORMATION (continued)

C. PHOTOS

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

2. PHOTOS IN CUSTODY OF: CIW Files OSDH & Vickers Plant offc.

D. SITE MAPPED?

- [X] YES. SPECIFY LOCATION OF MAPS: I & SW Permit & Incomplete Disposal plan files

E. COORDINATES

1. LATITUDE (deg.-min.-sec.) 34° 12' 11"
2. LONGITUDE (deg.-min.-sec.) 97° 6' 10"

V. SITE INFORMATION

A. SITE STATUS

- [X] 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
- [X] 2. YES (specify generator's four-digit SIC Code): 2911

C. AREA OF SITE (in acres): 20

D. ARE THERE BUILDINGS ON THE SITE?

- [ ] 1. NO
- [X] 2. YES (specify): Bell Refinery offices & bldgs

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	X	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		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
					8. SOLVENT RECOVERY	X	8. OTHER (specify): actually API weathering beds
					9. OTHER (specify):		

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 for..

- [ ] 1. STORAGE
- [ ] 2. INCINERATION
- [ ] 3. LANDFILL
- [ ] 4. SURFACE IMPOUNDMENT
- [ ] 5. DEEP WELL
- [ ] 6. CHEM/BIO/PHYS TREATMENT
- [X] 7. LANDFARM Weathering beds
- [ ] 8. OPEN DUMP
- [ ] 9. TRANSPORTER
- [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

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

B. WASTE CHARACTERISTICS

- [X] 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.

yes - disposal plan

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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 6,000	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
UNIT OF MEASURE gal/yr	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	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.
X (2) METALS SLUDGES	(2) OTHER (specify):	(2) NON-HALOGNTD. SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE			(4) PESTICIDES	(4) FERROUS SMELTING WASTES	(4) MUNICIPAL
(5) OTHER (specify): tetra ethyl lead sludge			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER (specify):
			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
			(9) PCB		
			(10) METALS		
			(11) OTHER (specify)		

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

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
Oxides of lead	X			X				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

possible from exposure to unidentified areas contaminated with organic lead. Beds are not marked or fenced.

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VIII. HAZARD DESCRIPTION (continued)

[X] B. NON-WORKER INJURY/EXPOSURE

See "A"

[X] C. WORKER INJURY/EXPOSURE

possible but not if plant safety rules are followed for handling lead sludge

[X] D. CONTAMINATION OF WATER SUPPLY

Could be possible if leachate were to Reach shallow ~~[illegible]~~ groundwater used for domestic water in the area.

[ ] E. CONTAMINATION OF FOOD CHAIN

N/A

[X] F. CONTAMINATION OF GROUND WATER

See "D"

[X] G. CONTAMINATION OF SURFACE WATER

possible from runoff from contaminated areas where oily residues & lead sludge are placed but not likely since the tank berms should contain surface water

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VIII. HAZARD DESCRIPTION (continued)

[X] H. DAMAGE TO FLORA/FAUNA

grass dead in weathering bed areas

[ ] I. FISH KILL

N/A

[ ] J. CONTAMINATION OF AIR

N/A

[ ] K. NOTICEABLE ODORS

N/A

[X] L. CONTAMINATION OF SOIL

possible lead attenuation

[ ] M. PROPERTY DAMAGE

N/A

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VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION

N/A

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

N/A

☐ P. SEWER, STORM DRAIN PROBLEMS

N/A

☐ Q. EROSION PROBLEMS

N/A

☐ R. INADEQUATE SECURITY

N/A

☐ S. INCOMPATIBLE WASTES

N/A

 Continue On Reverse

VIII. HAZARD DESCRIPTION *(continued)*

☐ T. MIDNIGHT DUMPING

N/A

☐ U. OTHER *(specify)*:

N/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	200	200	unknown	1 mile
2. IN COMMERCIAL OR INDUSTRIAL AREAS	251	251	"	"
3. IN PUBLICLY TRAVELLED AREAS	unknown	—	—	—
4. PUBLIC USE AREAS *(parks, schools, etc.)*	"	—	—	—

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER *(specify unit)*	B. DIRECTION OF FLOW	C. GROUNDWATER USE IN VICINITY
7-10 feet	South	Domestic
D. POTENTIAL YIELD OF AQUIFER	**E. DISTANCE TO DRINKING WATER SUPPLY** *(specify unit of measure)*	**F. DIRECTION TO DRINKING WATER SUPPLY**
< 10 gpm	1/4-1/2 mile	SW

G. TYPE OF DRINKING WATER SUPPLY

☐ 1. NON-COMMUNITY < 15 CONNECTIONS*

☐ 2. COMMUNITY *(specify town)*: > 15 CONNECTIONS

☐ 3. SURFACE WATER

☒ 4. WELL

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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')
Epperson	87'	27 Truck By Pass behind house	X	
Bacon Transport	100'	bldg Truck By Pass	X	

I. RECEIVING WATER ~~If there was a flow~~

1. NAME: Sand

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

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

Stock water (ephemeral stream) flows to Cadello Cr to Red River

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	Sandstone interbedded with shale (>5')		
X	2. CLAY				
	3. GRAVEL	X	limestone - deep		

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: undetermined

H. DISCHARGE AREA

☐ 1. YES ☐ 2. NO 3. COMMENTS: undetermined

I. SLOPE

1. ESTIMATE % OF SLOPE: 0-1% inside berm, 2-5% outside

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.: E - SE

J. OTHER GEOLOGICAL DATA

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							

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

☒ 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.

LAND FARM SITE INSPECTION REPORT Vickers TEI Weathering Beds
(Supplemental Report)

INSTRUCTION
Answer and Explain as necessary.

1. STATE PERMIT
☐ YES ☒ NO have applied

2. AREA *(Dimensions of Site)*
applied within tank berms, dimensions undeterminable (200' dia.)

3. APPLICATION RATE
not recorded except applied in 3 inch layers over area

4. IMPROPER DISPOSAL OF UNAUTHORIZED MATERIALS IN LAND FARM
☐ YES ☒ NO after 3 weeks weathering - material is transferred to soil farm

5. DIVERSION STRUCTURES ARE EFFECTIVELY CONSTRUCTED AND PROPERLY MAINTAINED
☒ YES ☐ NO tank berm around each tank

6. EVIDENCE OF PONDING OF LIQUID ON SITE
☐ YES ☒ NO

7. ODORS *(especially hydrogen sulfide) (If YES, indicate)*
☐ YES ☒ NO

8. GENERAL PHYSICAL APPEARANCE OF SOIL *(Color, Sand/Silt/Clay Content)*
light sandy loam, tan/pink color

9. VEGETATION ON LAND FARM
bermuda grass in old application areas after 2 years or so

10. pH
NO equipment
pH not tested

EPA Form T2070-3A (10-79)