



## IOWA DEPARTMENT OF NATURAL RESOURCES WATER SUPPLY NOTIFICATION

Complete form and submit it to: WATER SUPPLY SECTION, IOWA DEPARTMENT OF NATURAL RESOURCES, 502 E 9<sup>TH</sup> ST, DES MOINES IA 50319-0034 and if a **county** has delegated authority, to the designated county authority responsible for issuing private water supply construction permits or regulating non-public water well construction, as provided in accordance with Chapter 567-38 and 49 of the Iowa Administrative Code.

(PLEASE TYPE OR PRINT)

Responsible Party Name: Multistate Trust Phone: \_\_\_\_\_

Tank Site Name: Former Kerr McGee LUST No.: 9LTQ97 Registration No.: 197910660

Address of Tank Site: 436 Lincoln Way City: Nevada Zip Code: 50201

County: Story Contact Name: Mr. Kipp Eckert Phone: \_\_\_\_\_

Address: 1920 232<sup>nd</sup> Place SE City: Bothel State: WA Zip Code: 98021

### GLOBAL POSITIONING SYSTEM LOCATION OF PROPERTY

Latitude 42.022496 Longitude -93.453854

### LEGAL DESCRIPTION OF PROPERTY

NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  Section No. 7  
Township No. 83 N Range No. 22  E  W County Story

### Maximum Concentrations of Chemicals of Concern Remaining At the Site

	Maximum Concentrations of Chemicals of Concern Remaining At the Site					
	Group 1				Group 2: Total Extractable Hydrocarbons	
	Benzene	Toluene	Ethylbenzene	Xylenes	Diesel	Waste Oil
Soil (ppm)	3.28	6.32	84.5		1,000	
Tier 1 levels	0.54	42	15		3,800	
Groundwater (ppb)	10,800	1,280	1,070	5,050	<278	<278
Tier 1 levels	290	7,300	3,700	73,000	75,000	40,000

Provide site maps showing soil and groundwater contamination, as described on the back of this form.

I certify that the foregoing information is true and correct to the best of my knowledge and agree to provide any additional information the department or county authority may need concerning this site.

Print Name, Address and Phone Number of Certified Groundwater Professional

Diane Pals

Apex Companies, LLC

10052 Justin Dr, Suite L

Urbandale, IA 50322

Signature: 

Date: 10/13/15

**Purpose of DNR Form 542-1530**

An area contaminated with petroleum hydrocarbon compounds may exist within your present or future water distribution system. The petroleum-based chemicals of concern include benzene, toluene, ethylbenzene, xylenes and other compounds found in gasoline, diesel and waste oil. These chemicals were introduced into the subsurface from a release at the site referenced on the second line on DNR Form 542-1530. They are often transported in the direction of groundwater flow and away from their point of introduction.

The main concern is for water well installed within the inferred, defined or predicted contamination zone (see attached form and maps). Although existing wells have not been impacted, contamination remains which is above the allowable levels for drinking water. The groundwater at this site is considered a protected groundwater source. Caution and possible further evaluation should be used before allowing drinking water wells to be installed in this area. This information is sent to you in response to present regulations (Iowa Administrative Code 135).

A risk-based corrective action (RBCA) assessment has been done at the site-either a Tier 1 or a Tier 2. At Tier 1, only a few samples are taken to try to identify the maximum contamination. If more assessment is needed, a Tier 2 is done where several samples are taken to see how far soil and groundwater contamination has spread. Therefore, if the attached maps are from Tier 1 they probably will show only a few soil and groundwater samples. If these maps are from Tier 2 they will show how far the actual contamination plume(s) have spread and computer-simulated contamination plume(s).

A standard DNR utility notification form (DNR Form 542-1530) and site map(s) are enclosed. The data may prove useful in determining whether to permit the installation of drinking water well(s) in the vicinity of the referenced site.

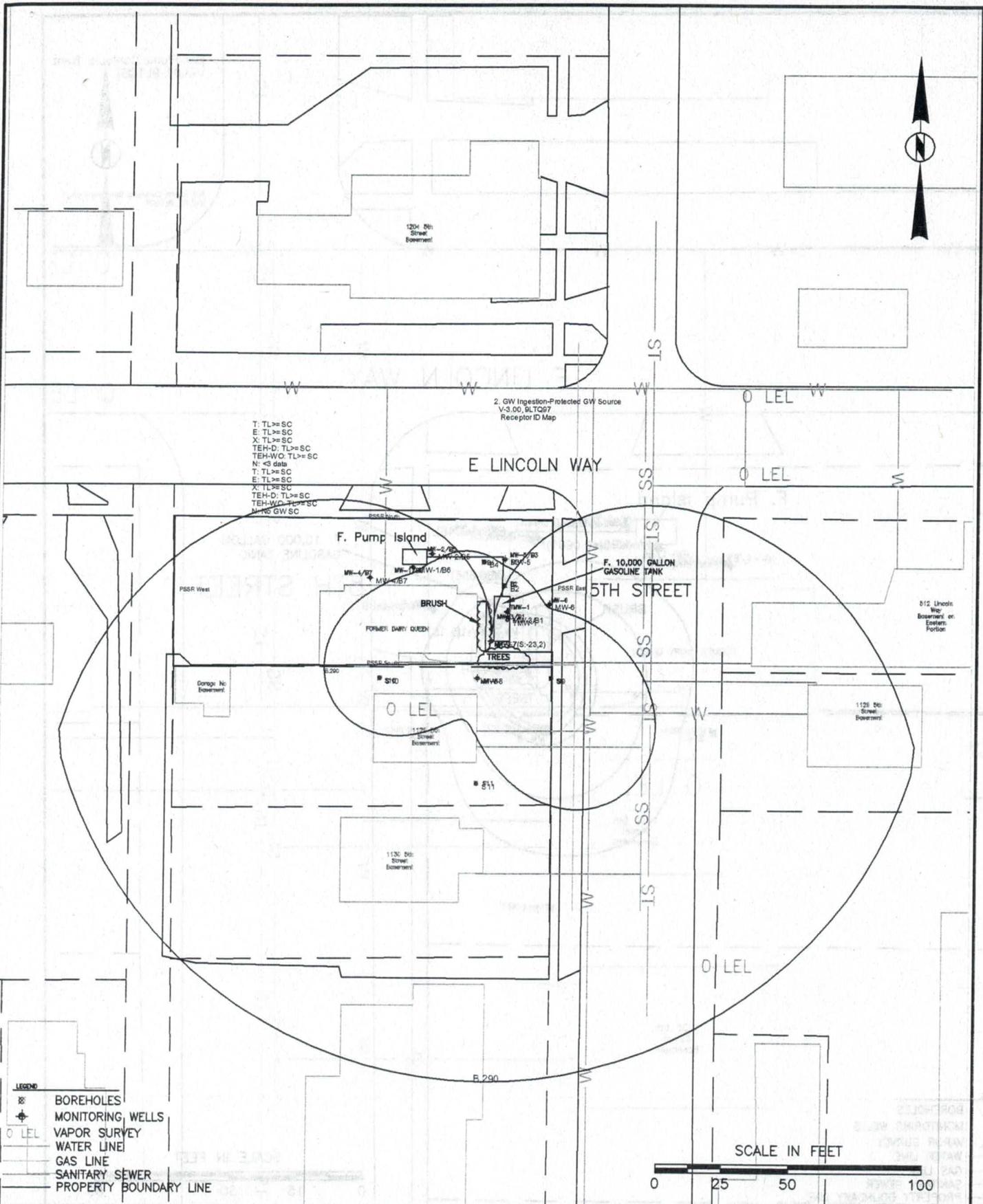
The table on the front side of this form contains the maximum contamination levels found in the soil and groundwater at this site. Below these numbers are two rows containing the Iowa DNR's Tier 1 levels (the top row is for actual receptors and the bottom row is for potential receptors).

Group 1 (soil extracted by receptors)	Group 2 (soil extracted by receptors)	Group 3 (soil extracted by receptors)	Group 4 (soil extracted by receptors)	Group 5 (soil extracted by receptors)	Group 6 (soil extracted by receptors)	Group 7 (soil extracted by receptors)
Gasoline	1,000	1,000	1,000	1,000	1,000	1,000
Toluene	1,000	1,000	1,000	1,000	1,000	1,000
Ethylbenzene	1,000	1,000	1,000	1,000	1,000	1,000
Xylenes	1,000	1,000	1,000	1,000	1,000	1,000
Benzene	1,000	1,000	1,000	1,000	1,000	1,000
Other	1,000	1,000	1,000	1,000	1,000	1,000

I certify that the information provided in this form is true and correct to the best of my knowledge and I agree to provide the information to the Iowa DNR for its use in determining whether to permit the installation of drinking water well(s) in the vicinity of the referenced site.

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

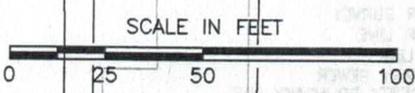
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_



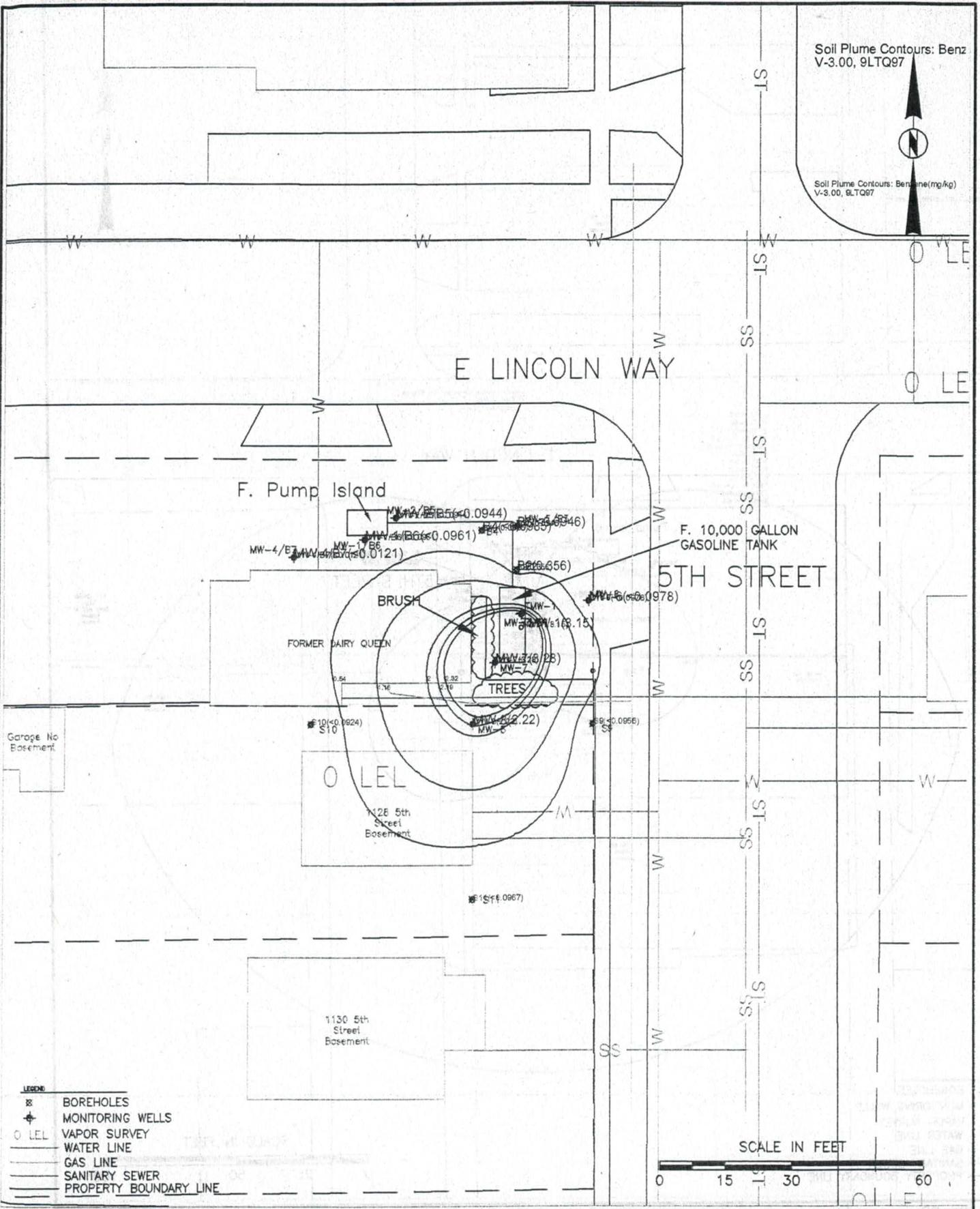
T: TL>=SC  
 E: TL>=SC  
 X: TL>=SC  
 TEH-D: TL>=SC  
 TEH-WO: TL>=SC  
 N: <= data  
 T: TL>=SC  
 E: TL>=SC  
 X: TL>=SC  
 TEH-D: TL>=SC  
 TEH-WO: TL>=SC  
 N: NO GW SC

2. GW Ingestion-Protected GW Source  
 W-3.00, 9LTC07  
 Receptor ID Map

- LEGEND**
- ⊗ BOREHOLES
  - ⊕ MONITORING WELLS
  - VAPOR SURVEY
  - WATER LINE
  - GAS LINE
  - SANITARY SEWER
  - PROPERTY BOUNDARY LINE



CHECK BY DP	GROUNDWATER INGESTION TO PROTECTED GROUNDWATER SOURCE  FORMER KERR-MCGEE 436 LINCOLN WAY NEVADA, IOWA		FIGURE
DRAWN BY EJM			2
DATE 9/21/2015			
SCALE AS SHOWN			
CAD NO. 400578.01A			
PRJ NO. 400578.001			



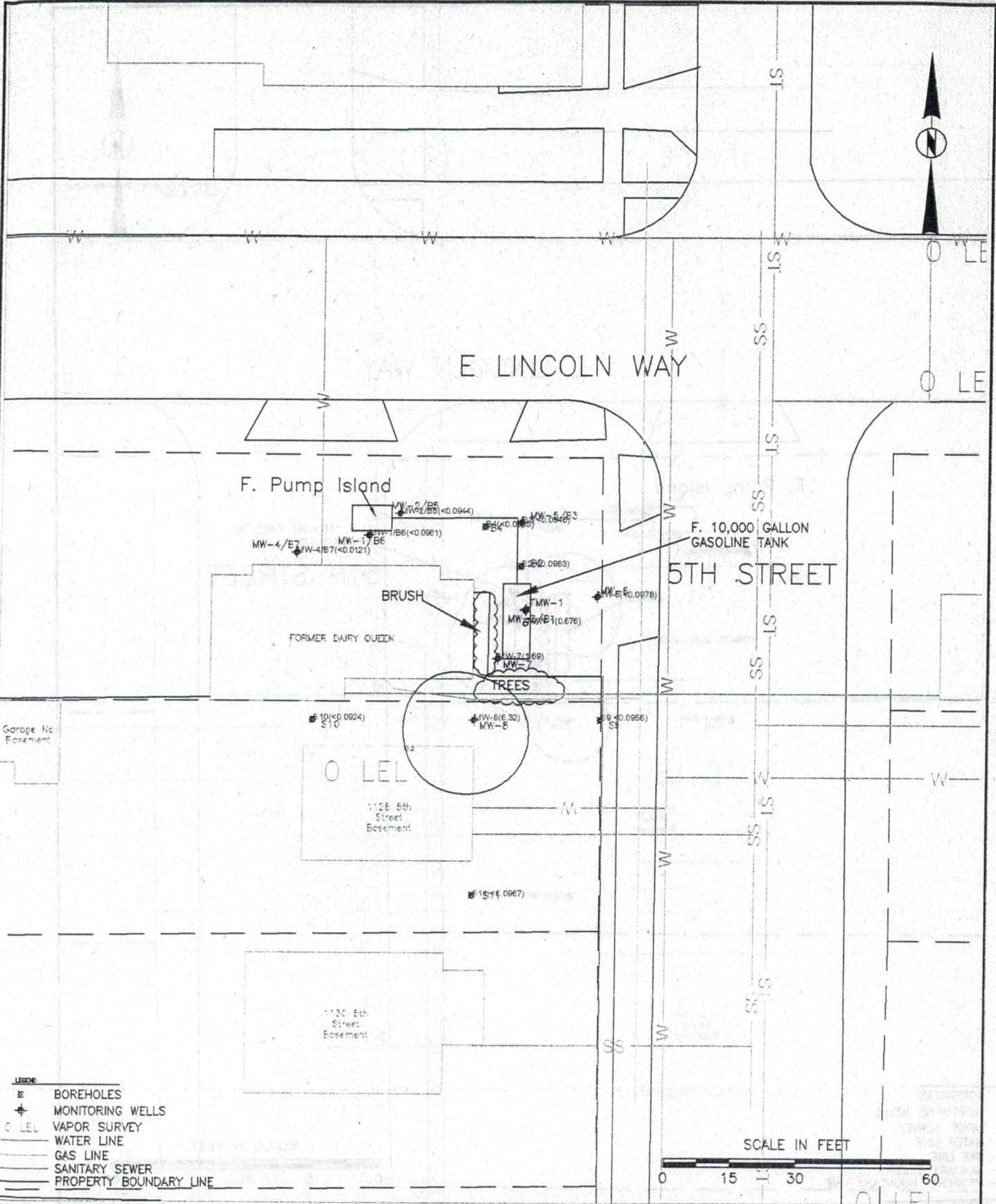
CHECK BY	DP
DRAWN BY	EJM
DATE	9/21/2015
SCALE	AS SHOWN
CAD NO.	400578.01A
PRJ NO.	400578.001

**SOIL CONTAMINATION PLUME MAP  
BENZENE**

FORMER KERR-MCGEE  
436 LINCOLN WAY  
NEVADA, IOWA



FIGURE  
**20A**



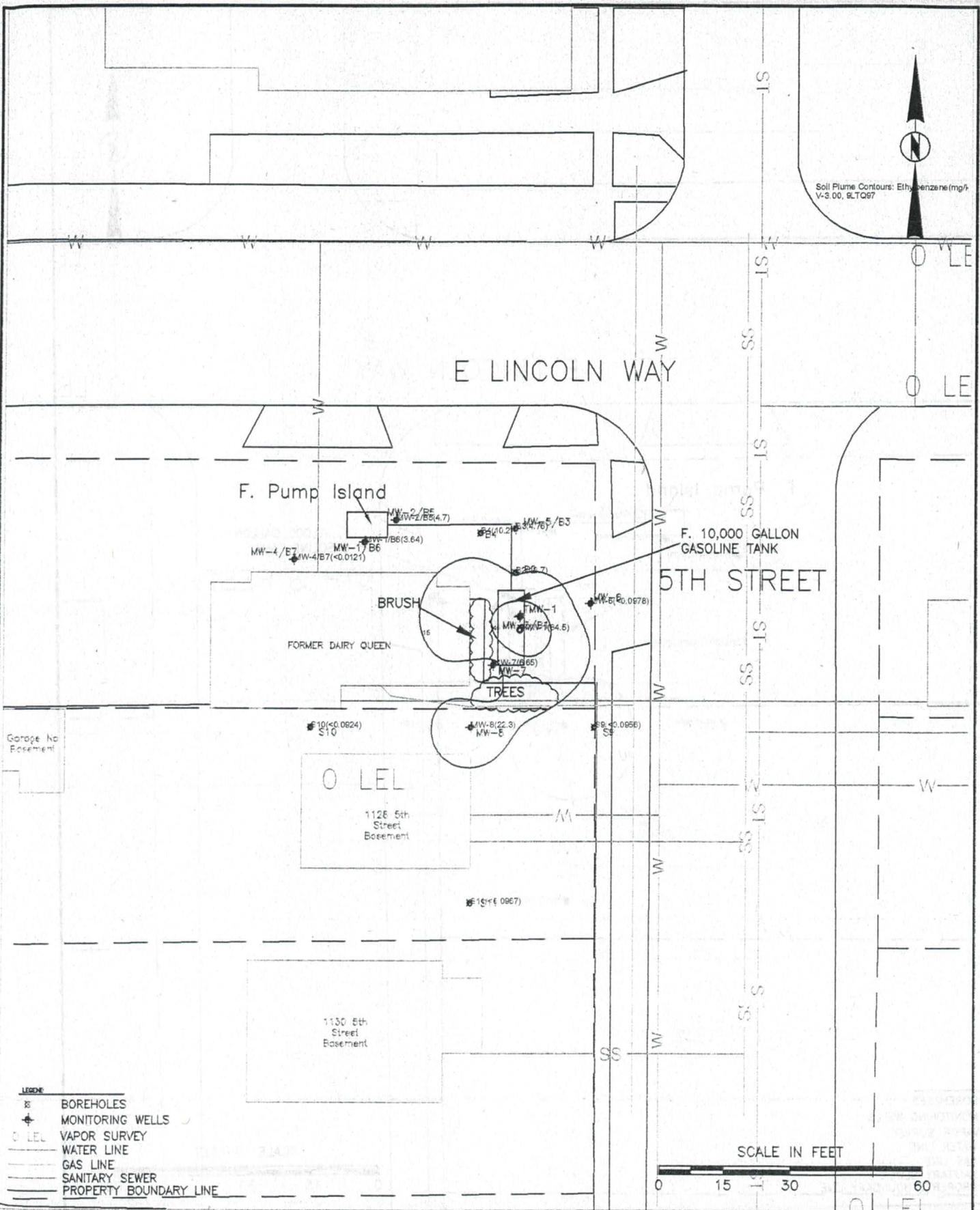
CHECK BY	DP
DRAWN BY	EJM
DATE	9/21/2015
SCALE	AS SHOWN
CAD NO.	400578.01A
PRJ NO.	400578.001

SOIL CONTAMINATION PLUME MAP  
TOLUENE

FORMER KERR-MCGEE  
436 LINCOLN WAY  
NEVADA, IOWA



FIGURE  
**20B**



CHECK BY	DP
DRAWN BY	EJM
DATE	9/21/2015
SCALE	AS SHOWN
CAD NO.	400578.01A
PRJ NO.	400578.001

SOIL CONTAMINATION PLUME MAP  
ETHYLBENZENE

FORMER KERR-MCGEE  
436 LINCOLN WAY  
NEVADA, IOWA



FIGURE

20C

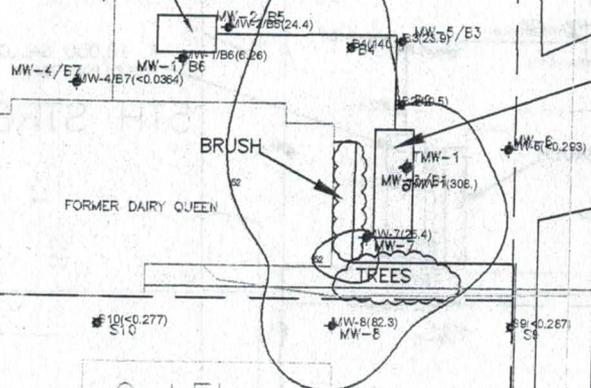
Soil Plume Contours: Xylenes (mg/kg)  
V-3.00, &LTQ97



E LINCOLN WAY

F. 10,000 GALLON GASOLINE TANK  
5TH STREET

F. Pump Island



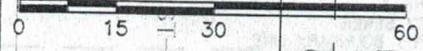
Garage Ho Encasement

1126 5th Street Encasement

1130 5th Street Encasement

- LEGEND
- ⊗ BOREHOLES
  - ⊕ MONITORING WELLS
  - VAPOR SURVEY
  - WATER LINE
  - GAS LINE
  - SANITARY SEWER
  - PROPERTY BOUNDARY LINE

SCALE IN FEET



CHECK BY	DP
DRAWN BY	EJM
DATE	9/21/2015
SCALE	AS SHOWN
CAD NO.	400578.01A
PRJ NO.	400578.001

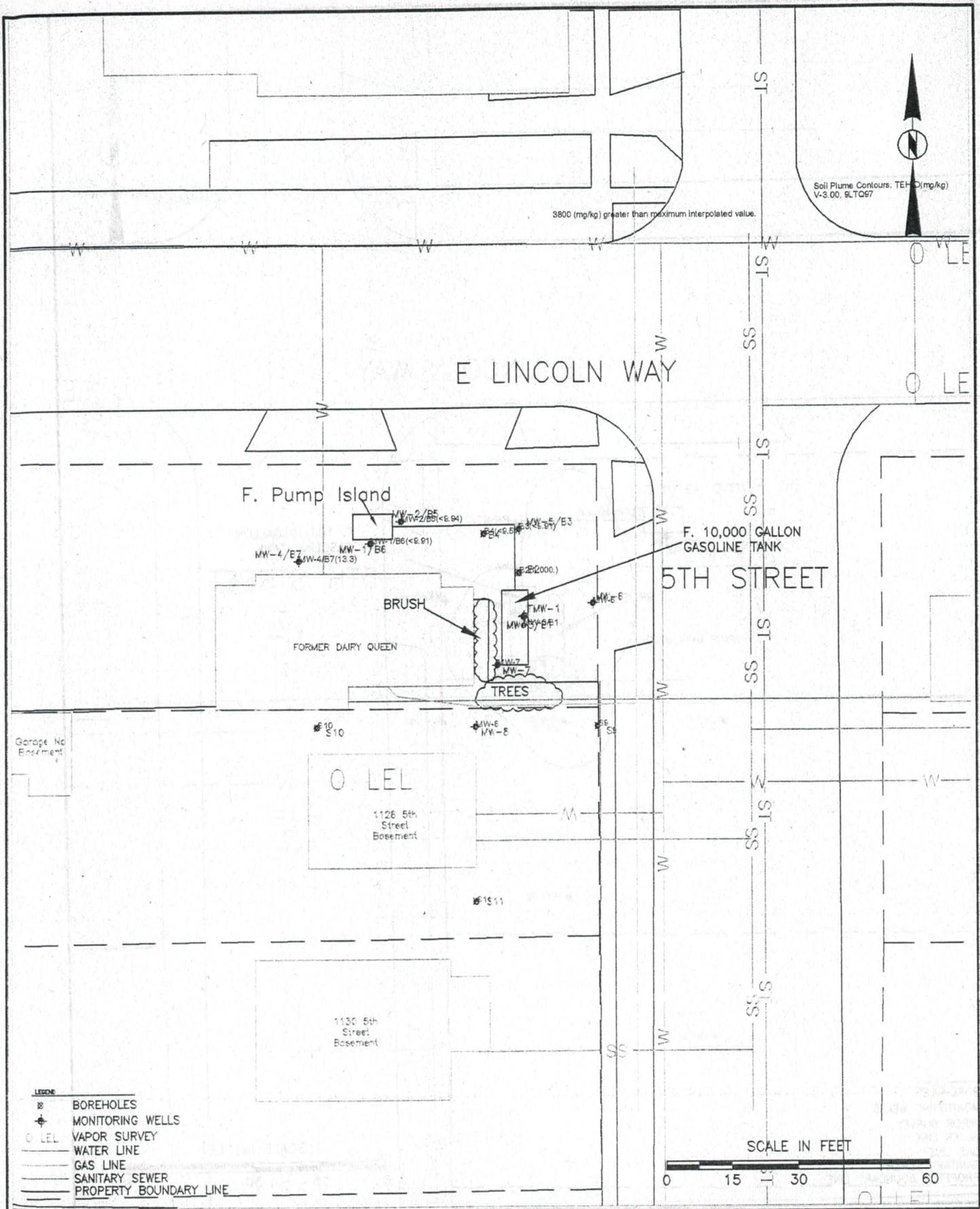
SOIL CONTAMINATION PLUME MAP  
XYLENES

FORMER KERR-MCGEE  
436 LINCOLN WAY  
NEVADA, IOWA



FIGURE

20D



CHECK BY	DP
DRAWN BY	EJM
DATE	9/21/2015
SCALE	AS SHOWN
CAD NO.	400578.01A
PRJ NO.	400578.001

SOIL CONTAMINATION PLUME MAP  
TEH-DIESEL

FORMER KERR-MCGEE  
436 LINCOLN WAY  
NEVADA, IOWA



FIGURE

20E

1204 5th Street  
Basement



Soil Plume Contour TEH-WO(mg)  
V-3.00, 8, TC97

1000 (mg/kg) greater than maximum interpolated value.

E LINCOLN WAY

F. Pump Island

F. 10,000 GALLON  
GASOLINE TANK

5TH STREET

BRUSH

FORMER DAIRY QUEEN

TREES

Garage No  
Basement

0 LEL

1126 5th  
Street  
Basement

1130 5th  
Street  
Basement

- LEGEND**
- ⊗ BOREHOLES
  - ⊕ MONITORING WELLS
  - LEL VAPOR SURVEY
  - WATER LINE
  - GAS LINE
  - SANITARY SEWER
  - PROPERTY BOUNDARY LINE

SCALE IN FEET

0 15 30 60

CHECK BY DP
DRAWN BY EJM
DATE 9/21/2015
SCALE AS SHOWN
CAD NO. 400578.01A
PRJ NO. 400578.001

SOIL CONTAMINATION PLUME MAP  
TEH-WASTE OIL

FORMER KERR-MCGEE  
436 LINCOLN WAY  
NEVADA, IOWA



FIGURE

20F