

**State of Wisconsin Substance Release Notification Form**  
**Department of Natural Resources Form 4400-91 (Rev. 12-04, e-form)**  
**24-Hour Emergency Hotline Number: 1-800-943-0003**

<b>Date &amp; Military Time of Incident:</b> 07/26/2005 2230hrs		<b>Date &amp; Military Time Reported:</b> 07/27/2005 0115hrs		<b>Spill File #</b> nor07262005_01 <b>BRRTS #</b> 04-16-544769	
<b>Person Reporting:</b> STEVE HANSON VIA NRC FAX		<b>Representing:</b> MURPHY OIL REFINERY		<b>Phone #</b> 715-398-3533 <b>Fax #</b>	
<b>Responsible Party (RP) / Spiller:</b> MURPHY OIL REFINERY		<b>RP Decision Based On:</b> PROTOCOL		<b>Phone #</b> 715-398-3533 <b>Fax #</b>	
<b>RP Address:</b> 2400 STINSON AVENUE				<b>City State Zip Code</b> SUPERIOR WI 54880-	
<b>RP Contact Name &amp; Title:</b> Dave Beattie				<b>Phone #</b> 715-398-8455 <b>Fax #</b>	
<b>Substance Involved:</b> NO 1 FUEL OIL (KEROSENE)		<b>Amount &amp; Units Released:</b> 500 GALLONS out of containment		<b>Amount &amp; Units Recovered:</b>	
<input type="checkbox"/> Solid <input type="checkbox"/> Semisolid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas		Color:		Odor:	
<b>Exact Location Of Incident: (including street name, bldg. #, mileage, etc.)</b> 2400 STINSON AVENUE INTO SECONDARY CONCRETE CONTAINMENT				<b>Facility Name / Property Owner:</b> MURPHY OIL REFINERY	
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Township SUPERIOR		<b>County</b> DOUGLAS		<b>Latitude/Longitude</b> deg. ' " , deg. ' "	
<b>DNR Region:</b> NOR		NW 1/4 NW 1/4 Sec 36 T49N R14 <input checked="" type="checkbox"/> E <input type="checkbox"/> W		<b>Weather Conditions:</b>	
<b>Cause of Incident:</b> THE CALLER STATES THAT A VALVE BROKE ON A PIPELINE THAT TRANSFERS PRODUCT IN THEIR FACILITY RESULTING IN A RELEASE OF MATERIALS INTO THEIR SECONDARY CONTAINMENT. CONTRACTORS ARE ON SCENE WITH VAC TRUCKS. NORM DUNBAR STATED THAT HE WILL BE VISITING FACILITY ON 7/29/05.					
<b>Spilled Substance Impact To: (check X all that apply)</b>		<b>Spill Cause and/or Site:</b>		<b>Action Taken By Spiller:</b>	
<input type="checkbox"/> Air <input type="checkbox"/> Potential <input checked="" type="checkbox"/> Concrete/Asphalt <input type="checkbox"/> Potential <input type="checkbox"/> Contained/Recovered <input type="checkbox"/> Groundwater <input type="checkbox"/> Potential <input type="checkbox"/> Private Well <input type="checkbox"/> Potential <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Potential <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Potential <input type="checkbox"/> Storm Sewer <input type="checkbox"/> Potential <input type="checkbox"/> Surface Water <input type="checkbox"/> Potential Name: <input type="checkbox"/> Other:		<input type="checkbox"/> Ag Coop/Food Factory <input type="checkbox"/> Airport Facility <input type="checkbox"/> Railroad Facility <input type="checkbox"/> Construction, Excavation, Wrecking, Quarry, Mine <input type="checkbox"/> Gas/Service Station/Garage/Auto Dealer/Repair Shop <input type="checkbox"/> Hydraulic Line Break <input checked="" type="checkbox"/> Industrial Facility <input type="checkbox"/> Paper Mill <input type="checkbox"/> Chemical Co. <input type="checkbox"/> Pipeline/Terminal/Tank Farm/Oil Jobber/Wholesaler <input type="checkbox"/> Private Property (home/farm) <input type="checkbox"/> Public Property (city, state, church, school, etc.) <input type="checkbox"/> Transportation Accident, Fuel Tank Spill <input type="checkbox"/> Transportation Accident, Load Spill <input type="checkbox"/> Utility Co. Power Generating/Transfer Facility <input type="checkbox"/> Other:		<input type="checkbox"/> Cleanup Method: <input checked="" type="checkbox"/> Absorbent boom & pads <input checked="" type="checkbox"/> Excavation 10yds - soil above plastic liner <input type="checkbox"/> <input checked="" type="checkbox"/> Containment <input type="checkbox"/> Contractor Hired Name: <input type="checkbox"/> Monitor <input type="checkbox"/> No Action Needed <input type="checkbox"/> No Action Taken <input checked="" type="checkbox"/> Waste Destination: Waste mgmt. Canyon, MN <input checked="" type="checkbox"/> Other: vacuum ed	
<b>Injuries?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes how many?		<b>Has An Evacuation Occurred?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Potential?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Are There Any Resource Damages?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Potential <b>What Kind?</b>					
<b>Other Agencies Notified: (check first column, if notified; check both columns, if on the scene)</b>				<b>Incident Commander:</b>	
<input type="checkbox"/> Fire Department <input type="checkbox"/> Local Law Enforcement <input type="checkbox"/> LEPC or Local Emer. Mgt. <input type="checkbox"/> Level A/Level B Team		<input checked="" type="checkbox"/> Local DNR <input checked="" type="checkbox"/> Div. Emerg. Mgt. <input type="checkbox"/> Coast Guard <input type="checkbox"/> DHFS 608-258-0099		<input type="checkbox"/> EPA <input checked="" type="checkbox"/> Nat'l Resp Ctr 800-442-8802 <input type="checkbox"/> Chemtrec 800-424-9300 <input type="checkbox"/> Other:	
<b>Prepared By:</b> RONDA CONNER		Phone # 608-267-0844		Date: 07/27/2005	
<b>Person Notified:</b> NORM DUNBAR		Phone # 715-365-8963		Date: 07/27/2005 Time: 1555	
<b>Investigated By:</b> Norman Dunbar		Sign: Norman Dunbar		Date: 7/29/05	
<b>Spill Coordinator Signoff:</b> Norman Dunbar		Date: 6/6/04		Rpt'd To DATCP? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Insfed. To DATCP <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date:	
				Spill Packet Sent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: To:	
				Transferred to ERP <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Case #	
				NFA Letter Sent? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: Incident Closed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Date: 6/6/04	
<input type="checkbox"/> See Additional Comments On Reverse (Please, print page 2 of 2)					

**Dunbar, Norman C**

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**From:** Dave\_Beattie@murphyoilcorp.com  
**Sent:** Monday, June 05, 2006 7:48 AM  
**To:** Dunbar, Norman C  
**Subject:** Tk 65 Spill Soil from 7-26-05 spill

Good Afternoon Norm:

I was just going through some old papers on my desk and realized that I never let you know that the diesel contaminated soil(7-26-05 spill) in the Tk 65 basin was removed on March 28th(just came across my note to email you that we had removed the soil).

It was a triangular area that we had narrowed it down to. We couldn't remove the soil last fall after we got the analysis back because the ground had frozen. We removed the top 6-8 inches of soil as we had determined last year(there is a liner in the tank basin). The amount of soil removed was about 10 yds.

I apologize for just getting this to you now. Please let me know if you need anything else.

Thanks  
Dave

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# Soil Sample Locations

Tank-65 Basin

11/3/05

N-Refinery  
↓

Tank 65

Electric  
Conduit  
Line

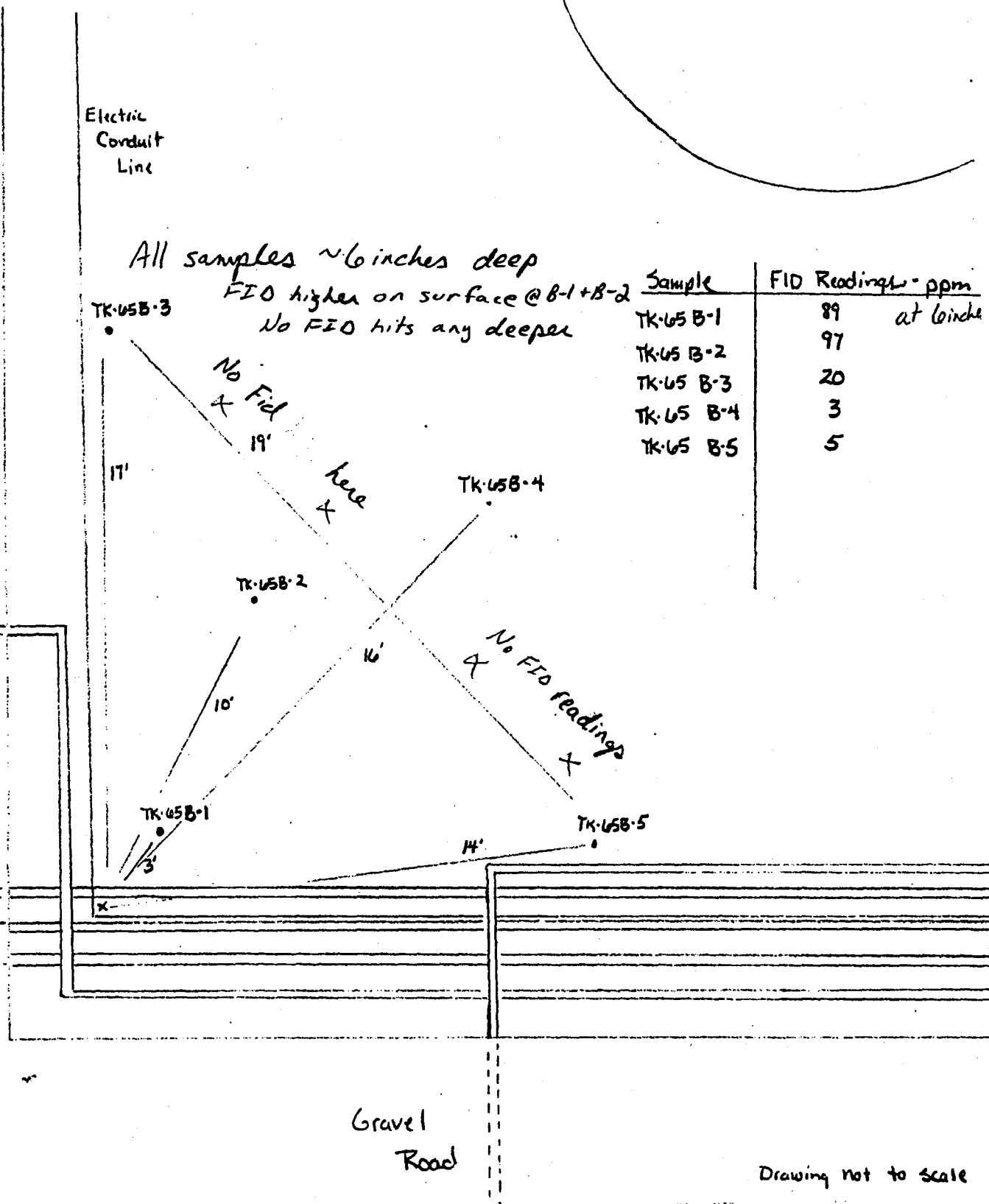
All samples ~6 inches deep

FID higher on surface @ B-1+B-2  
No FID hits any deeper

Sample	FID Reading - ppm
TK-65 B-1	89 at 6 inches
TK-65 B-2	97
TK-65 B-3	20
TK-65 B-4	3
TK-65 B-5	5

Gravel  
Road

Low Sulfur  
Diesel Line



Gravel  
Road

Drawing not to scale

**Cleland, Cathy W**

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**From:** Dunbar, Norman C  
**Sent:** Wednesday, November 16, 2005 3:03 PM  
**To:** Cleland, Cathy W  
**Subject:** FW: Tk 65 Info  
**Attachments:** Tk 65 Sample Info.pdf

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**From:** Dave\_Beattie@murphyoilcorp.com [mailto:Dave\_Beattie@murphyoilcorp.com]  
**Sent:** Wednesday, November 16, 2005 2:24 PM  
**To:** Dunbar, Norman C  
**Subject:** Tk 65 Info

Good Afternoon Norm:

Attached is the Tk 65 tank basin soil sample results and a small, simple map of the area. It looks like we have defined the area and it appears the contamination doesn't go down any further than 6 inches, except for the area around B-1. All of the samples taken for analytical were taken 6 inches bgs. We used an FID to give us some idea of where the petroleum contamination is, which helped us narrow down where we should sample. The FID readings on the map were at the same spot as the samples were taken. There were no FID readings on the surface at B-3,B-4 or B-5.

My first thought and hope is to excavate the top 6 inches of soil from the corner out to the boundary made by B-3,B-4, B-5 and then also excavate/hand dig down to the liner in the area from B-1 up to the gravel road.

Please look it over and let me know what you think. I will be in the rest of the week if you would like to discuss.

Thanks  
Dave  
715-398-8455

*(See attached file: Tk 65 Sample Info.pdf)*

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11/16/2005

**Dunbar, Norman C**

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**From:** Hosch, James A  
**Sent:** Monday, October 17, 2005 1:55 PM  
**To:** Dunbar, Norman C; Saari, Christopher A.  
**Cc:** Robinson, John H.  
**Subject:** RE: Update on Tk 65 #1 Fuel Oil Spill

They need to tell us what they want to do to address NR 720 Wis. Adm. Code. The purpose of the liner was to prevent the oil to get to the groundwater. If there is soil over the composite it should be removed because any precipitation event will cause contamination to the runoff from this area. Unless that water runs to their treatment plant 100 percent of the time you still have a threat to the environment. Of course any worker at the location would also have a potential risk. I don't think this should be an ERP unless the liner leaked.

-----Original Message-----

**From:** Dunbar, Norman C  
**Sent:** Monday, October 17, 2005 9:45 AM  
**To:** Hosch, James A; Saari, Christopher A.  
**Subject:** FW: Update on Tk 65 #1 Fuel Oil Spill

Have we ever removed soil above a lined tank basin? If not , how do I close this? I suspect I will have to ERP this spill.  
 Norm

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**From:** Dave\_Beattie@murphyoilcorp.com [mailto:Dave\_Beattie@murphyoilcorp.com]  
**Sent:** Monday, October 17, 2005 9:41 AM  
**To:** Dunbar, Norman C  
**Cc:** Liz\_Lundmark@murphyoilcorp.com  
**Subject:** Fw: Update on Tk 65 #1 Fuel Oil Spill

Attached are the DRO results for the samples that were taken. The tank basin sample was 8600mg/kg and the dike wall sample was 330mg/kg. They both came out higher than I expected.

Please let me know how you would us to proceed next. Just a reminder that the tank dike and tank basin are lined.

Thanks  
 Dave  
 715-398-8455

*(See attached file: Tk 65 Basin from Pipeline Spill.pdf)*

▼ Dave Beattie

**Dave** To: Norman.Dunbar@dnr.state.wi.us  
**Beattie** cc: Liz Lundmark/SUP/MOC@MOC  
 Subject: Update on Tk 65 #1 Fuel Oil Spill

09/23/2005  
 09:25 AM



Good Morning Norm:

Just wanted to let you know that I had Twin Ports Testing take two samples yesterday for DRO analysis from the fuel oil spill(7/26) site you came up and visited on 7/29.

One sample was on the tank dike wall, the other was down in the tank basin. We should have results in a few weeks.

Let me know if you have any questions.

Dave  
715-398-8455

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10/17/2005

**Hazardous Substance Discharge Notification Form - NR 706.05**

Murphy Oil USA, Inc. - Superior Refinery  
2407 Stinson Ave., Superior, WI 54880  
Phone: (715) 398-3533 Fax: (715) 398-8209

Refinery Map Coordinates: NW1/4, NW1/4, Sect. 36, T 49N, R 14N.

1) Reporting Information

Name: Dave Beattie  
Date: 7-27-05

Phone: 715-398-8455  
Position: Environmental Engineer

2) Discharge Information

Date: 7-26-05 Discovered at Time: 2225  
Amount Released: Less than 500 gallons out of containment Duration: \_\_\_\_\_  
Material/Product: #1 Fuel Oil Response Time: Shut pump off when spill detected.  
Specific Location: Pipeline Pumps Vac truck on site in 35 minutes. (2300)  
How was spill detected: By one of  
Cause: Broken 1/2" Valve and Nipple off transfer pump spill back line  
during #1 Fuel Oil Transfer

Approx. 1500 gallons in containment, less than 500 gallons if necessary, continue on back outside of containment over

3) Additional Information

Physical Characteristics (i.e. solid, liquid or gas): Liquid, clear

Chemical Properties: Spec. Gravity 0.8-0.83, Boiling Point 315-572°F  
Flash Point 125°F. Vapor density is 5 with Air = 1

Possible Hazards: \_\_\_\_\_

Immediate Corrective Action/Clean-up: Pipeline transfer pumps shut down,  
Vac Truck on site to clean up all oil and water in low areas

People/Companies Performing the Action: Walker Centrifuge Services - OAR on-site  
Vac truck operator

Speed and Movement of Discharge(if any): Slowly to the South and down  
dike road and dike walks by K65.

Actual/Potential Impacts to Human Health(if any): \_\_\_\_\_

Actual/Potential Impacts to Environment(if any): Small amount of staining to  
grass, soil, and gravel. K65 Dike is lined.

Weather Conditions(i.e. precipitation, wind speed and direction): Light winds, clear skies  
Dark out

Agencies On-scene During Spill(if any): \_\_\_\_\_

Further action needed(if any): Using absorbants to take care of small oil puddles

Amount reaching Navigable Waters: None

Total Oil Storage Capacity of Tanks/Lines Material was Discharged From: \_\_\_\_\_

Adequate Secondary Containment: \_\_\_\_\_

Steps taken to Reduce Possibility of Recurrence: \_\_\_\_\_

Enforcement Actions(if any): \_\_\_\_\_

Effectiveness of Monitoring Equipment(if any): \_\_\_\_\_

Original: Refinery Manager CC: Operations Manager, Environmental Manager  
When completed, FAX to (715) 365-8932 attn. - RR Program Assist

Also vacuumed up ~6000 gallons of water from low areas  
that had fuel oil on top of water (Approx 150 gals Fuel Oil)  
All water and oil was drained to our wash slab and  
API separator ~~at the~~ and treated on site.



### Hazardous Substance Discharge Call Log

Murphy Oil USA, Inc. - Superior Refinery

2407 Stinson Ave., Superior, WI 54880

Phone: (715) 398-3533 Fax: (715) 398-8209

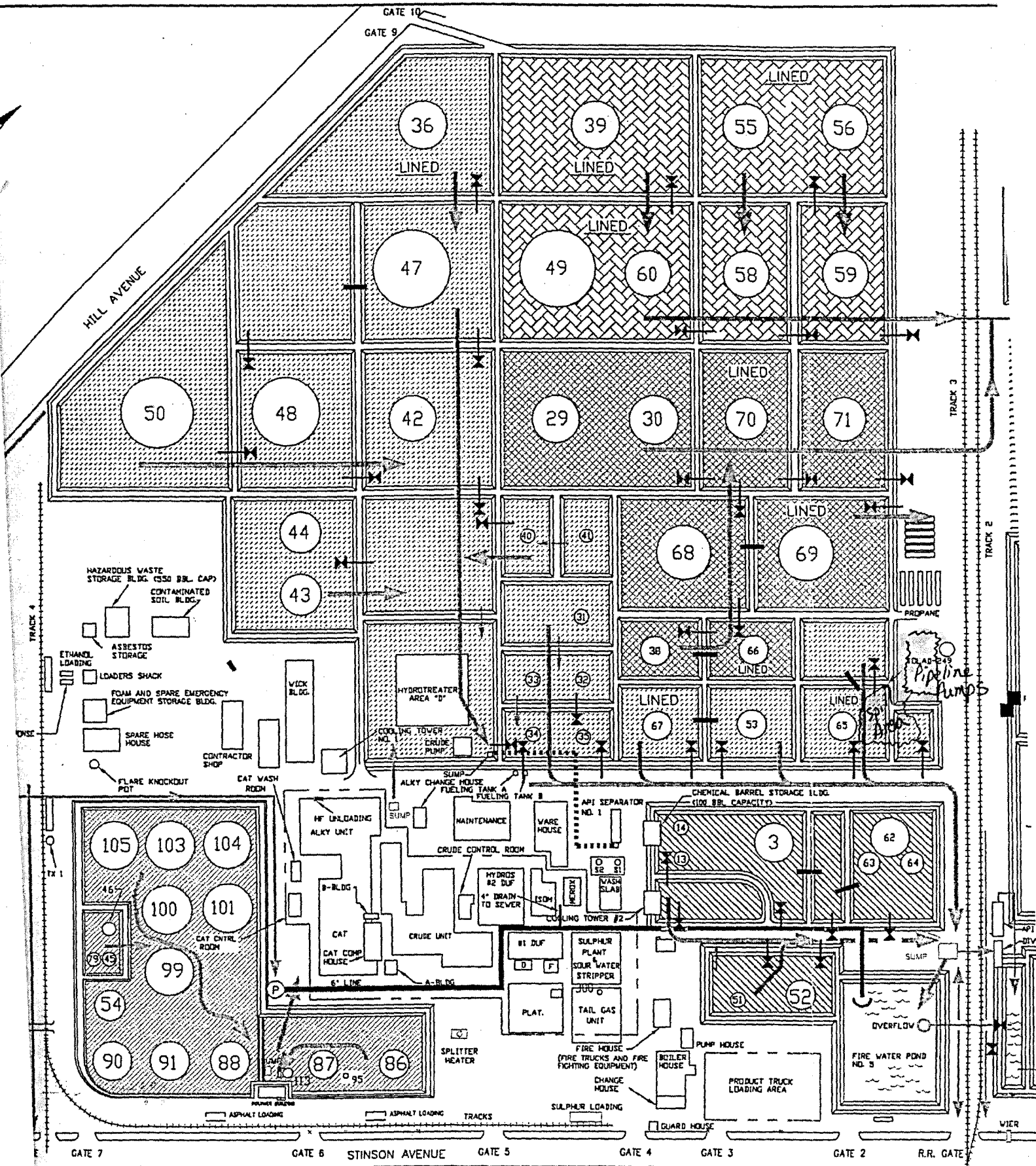
Refinery Map Coordinates: NW1/4, NW1/4, Sect. 36, T 49N, R 14N.

Time of Call	Agency	Phone #	Person Contacted	Comments/Follow Up Action required by Agency
7-27 00:20	NRC	800-424-8802	Petty officer Allison	Report. 766,925
	Fire Dept. (If needed)	394-0227 or 911		
	Police Dept. (If needed)	395-7234 or 911		
7-26 11:50	Wisconsin Emergency Gov't	800-943-0003	Dave Lawall	
7-27 00:05	Coast Guard MSO	720-5286	Tyler Behnke	
7-27 00:10	Douglas Cnty. Emergency Gov't	395-1391	Keith Kessler	Left Message
	DNR - Water and Soil	715-365-8963	Norm Dunbar	Left Message Also discussed w/ Norm on phone 7/27 @ 11:30.
	DNR - Air	392-7989		Norm will be here 7/29 (Friday)
	DNR - Haz. Waste	392-7831		

Signature of Person Making Calls Steve Hanson - Shift Foreman Made Calls

Title \_\_\_\_\_

Dave Beattie talked w/ Norm Dunbar  
W DNR at 11:30 7/27.



ISLAND-243  
Pipeline  
Pumps

Main Office

Refinery North

BARDON AVENUE

DRAWN BY APPI