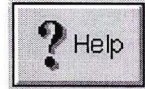


#54880-0456-07-P

**Wisconsin**  
**Department of Natural Resources**[Home](#) | [Search](#) | [Feedback](#) | [What's New](#)

## WI DNR Activities at Discharge Sites



BRRTS data comes from many sources inside and outside of DNR. There may be gaps and errors in the data, or delays in updating new information. Please see our [disclaimers page](#) for more information.

**DNR Activity Number:** 02-16-221908

**Activity Type:** ERP

**Activity Name:** MURPHY OIL - TANK #79

**Start Date:** 05/05/1993

**End Date:** 12/03/1999

**Site Name:** MURPHY OIL CORP

**Address:** 2400 STINSON AVE

**Municipality:** SUPERIOR

**Zip:** 548800456

**County:** Douglas

**DNR Region:** Northern Region

**Facility Acres:** 365

**Degrees of Latitude:** 46

**Minutes of Latitude:** 41

**Seconds of Latitude:** 27.6

**Degrees of Longitude:** 92

**Minutes of Longitude:** 4

**Seconds of Longitude:** 16.4

**Lat/Long Datum:** 1927 (NAD27)

**Lat/Long Method:** Digitized from a map @ larger than 1:24,000 scale [40 meters]

**Quarter Quarter Section:** NW

**Quarter Section:** NW

**Survey Section:** 36

**Survey Township:** 49

**Survey Range:** 14W

**FID Number:** 816009590

**Jurisdiction:** Commerce

**Eligible for PECFA Funds:** N

**AST at Site:** N

**Tracked by Commerce Database:** Y

**Priority:** Low

**Risk:** Low

## Persons or Companies associated with this DNR Activity

Person or Company	Role	Address	Address 2	PO Box	Municipality	State	Zip
HOSCH, JIM	Project Manager	1401 TOWER AVE	WDNR		SUPERIOR	WI	54880

Record 1 of 1

[Download](#)

## Actions performed during this DNR Activity

Action Name	Action Description	Comment	Date Action Occurred
Notification	Date the DNR is notified of the discovery of the contamination.	FROM SPILL #04-16-048389	05/05/1993
SI Report Received (w/out Fee)	Date the DNR receives the Site Investigation Report. Provides information regarding activities performed to determine degree & extent of contamination and forming a basis for choosing the appropriate remedial action.	SI RESULTS & REQUEST TO REMOVE FROM SPILL LIST	08/19/1999
Activity Transferred to DCOM	Date that project management for the activity is transferred to Department of Commerce. Includes transfer of site files.		08/19/1999
Activity Closed	Date the Closure Letter or No Further Action letter is sent. NOTE: This is the ONLY action code that will close an activity:	*** Closure from Commerce Data Interchange ***	12/03/1999

Records 1 to 4 of 4

Download
----------

## Impacts

Impact Description	Comment
Soil Contamination	

Record 1 of 1

## Substance

Substance Description	Substance Name	Amount Released	Units
Oil & Grease			

Record 1 of 1

## Spiller Action

No Records returned

- Person or Company
- Distance
- PLSS

## WI DNR Activities at Discharge Sites



BRRTS data comes from many sources inside and outside of DNR. There may be gaps and errors in the data, or delays in updating new information. Please see our [disclaimers page](#) for more information.

**DNR Activity Number:** 04-16-048389

**Activity Type:** Spills  
**Activity Name:** MURPHY OIL - TANK #79  
**Start Date:** 05/05/1993  
**End Date:**  
**Site Name:** MURPHY OIL CORP  
**Address:** 2400 STINSON AVE  
**Municipality:** SUPERIOR  
**Zip:** 548800456  
**County:** Douglas  
**DNR Region:** Northern Region  
**Facility Acres:** 365  
**Degrees of Latitude:** 46  
**Minutes of Latitude:** 41  
**Seconds of Latitude:** 27.6  
**Degrees of Longitude:** 92  
**Minutes of Longitude:** 4  
**Seconds of Longitude:** 16.4  
**Lat/Long Datum:** 1927 (NAD27)

**Lat/Long Method:** Digitized from a map @ larger than 1:24,000 scale [40 meters]  
**Quarter Quarter Section:** NW  
**Quarter Section:** NW  
**Survey Section:** 36  
**Survey Township:** 49  
**Survey Range:** 14W

**FID Number:** 816009590  
**Activity Comment:** OLD SPILL ID: 930505-01  
**Jurisdiction:** DNR

**Incident Time:** 05/05/1993 08:30:00 am

**Spill Cause:** TRAFFIC ACCIDENT

**Spill Source Description:** Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler

**Notified DNR Immediately:** Y

**DNR Investigator:** J DAVIDOWSKI

## Persons or Companies associated with this DNR Activity

Person or Company	Role	Address	Address 2	PO Box	Municipality	State	Zip
MURPHY OIL USA	Responsible Party						

Record 1 of 1

Download

## Actions performed during this DNR Activity

Action Name	Action Description	Comment	Date Action Occurred
Notification	Date the DNR is notified of the discovery of the contamination.	Auto populated via migration process	05/05/1993
Activity Transferred to ERP	This case was not closed out shortly after occurrence and is now tracked as an activity in ERP program.	02-16-221908	06/03/1999

Records 1 to 2 of 2

[Download](#)

## Impacts

Impact Description	Comment
Contained/Recovered	CONTAINED/RECOVERED

Record 1 of 1

## Substance

Substance Description	Substance Name	Amount Released	Units
Oil & Grease	OIL	30	Barrel
Other	WATER (COMB)		

Records 1 to 2 of 2

## Spiller Action

Spiller Action	Comment
Cleanup Method	CONTAINED/RECOVERED

Record 1 of 1

- [Person or Company](#)
- [Distance](#)
- [PLSS](#)
- [Lat/Long](#)

- 
- **Return Links**
    - [BRRTS on the Web](#)

**Send DNR Feedback About This DNR Activity**  
[BRRTS on the Web Feedback Form](#)



December 3, 1999

Mr. R. Lee Vail  
Murphy Oil  
PO Box 61780  
New Orleans, LA 70160-1780

Subject: **Close-out of Case # 54880-0456-07P/ BRRTS # 02-16-221908**  
**Murphy Oil Tank 45, 46, 79**

Dear Mr. Vail:

On September 23, 1999 the above site was reviewed for closure by the Site Review staff of the PECFA Bureau. Because the site involved only soil contamination, without a threat to groundwater, all issues relating to this site are administered by the staff within the Department of Commerce's PECFA Bureau. Using the standards established in NR 700, the Department has determined that this site has been remediated to a level protective of the environment and human health. The Department considers this site to meet environmental standards, and no further action is necessary.

This is based upon the information provided to us by your consultant. If, in the future, site conditions indicate that any contamination that might remain poses a threat, the need for further remediation would be determined and required if necessary.

Be sure to include a copy of this letter with your PECFA claim package, if your site is eligible for reimbursement. This letter is to take the place of the Form 4-B.

Thank you for your efforts in the protection of the environment. If you have any additional questions, please call me at 715-762-5557.

Sincerely,

Shanna L. Laube, P.G.  
Hydrogeologist  
PECFA Program

cc: Dennis Kugle, Gannett Fleming

NON-FEE BASED

GMU: Quin Hoesch, Superior

FI Date: 8/19/99

BRRTS UID # 02-16-221908

SITE NAME Murphy Oil, USA, Inc.

- Notification
- Tank Closure/Site Assessment
- Site Investigation Work Plan
- Site Investigation Rpt.
- Remedial Action Work Plan
- Remedial Design Rpt.
- Construction Documentation Rpt.
- Remedial Action Rpt.
- Long-term Monitoring Plan
- Progress Rpt.
- O & M
- Landspreading Application
- Technical Assistance Meeting
- Enforcement Conference
- OTHER \_\_\_\_\_

Free Product?	Yes	<input checked="" type="radio"/> No	NA/Unk	
GW Impacted?	Yes	<input checked="" type="radio"/> No	NA/Unk	
Priority	High	<input checked="" type="radio"/> Med	<input checked="" type="radio"/> Low	<input checked="" type="radio"/> Unk.
Wells sampled? (Public/Private)	Yes	No	<input checked="" type="radio"/> NA/Unk	
# of wells				
Results sent to DG?	Yes	No	<input checked="" type="radio"/> NA/Unk	
Impacted Well? (Public/Private)	Yes	No	<input checked="" type="radio"/> NA/Unk	
# of wells				
Endangered Species issues?	Yes	<input checked="" type="radio"/> No	NA/Unk	
Meet Criteria for Closure?	<input checked="" type="radio"/> Yes	No	NA/Unk	
RP Notified?	<input checked="" type="radio"/> Yes	No	NA/Unk	
Significant Violator?	Yes	<input checked="" type="radio"/> No	NA/Unk	
Agency	DNR	DCOM	DATCP	

\*80K Sites  
 Agree w/approval from DCOM? Yes No

REVIEWER: Hoesch

FO Date: 9/8/99



Action Code	Comments
<u>76</u>	<u>Transferred to DCOM</u>
	<u>Phone call to consultant informed that</u>
	<u>transfer would occur</u>

RETURN TO: DANIELLE LANCOUR  
 RHINELANDER

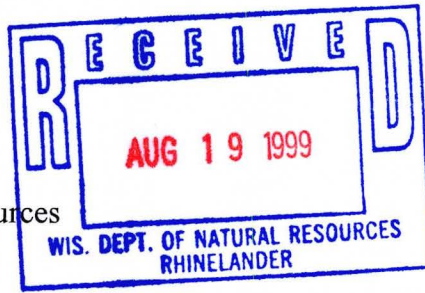




GANNETT FLEMING, INC.  
 8025 Excelsior Drive  
 Madison, WI 53717-1900  
 Office: (608) 836-1500  
 Fax: (608) 831-3337

August 11, 1999  
 File #34265.003 / 367-18.3

Mr. James A. Hosch  
 Wisconsin Department of Natural Resources  
 1401 Tower Avenue  
 Superior, WI 54880



RECEIVED  
 AUG 13 1999  
 DNR-SUPERIOR

Re: Tank 45, 46, and 79 Release Site Investigation Results and Request to Remove From Spill List, Murphy Oil USA, Inc., Superior, Wisconsin  
 PECFA Claim #: Non-PECFA  
 WDNR BRRTS #: 02-16-221908

Dear Mr. Hosch:

On behalf of Murphy Oil USA, Inc., Gannett Fleming, Inc. is submitting this report describing our 1998 site investigation of what were originally identified as two separate releases of petroleum products, one from Tank 46 and one from Tank 79, at Murphy's Superior refinery. Further review of the reported releases has revealed that there were no releases of petroleum products in this tank basin. Sampling and analysis of soils in the basin, completed before the reporting error was discovered, has documented that no soils in the basin contain contaminants at concentrations above their respective NR 720 generic residual contaminant levels (RCLs). The information summarized here was sent to you as part of the September 10, 1998, Phase 1 and 2 investigation report. Based on the information provided below, we request that the WDNR review this submittal and remove this site from its spill list.

**Background**

Releases from Tanks 46 and 79, which have capacities of approximately 420,000 gallons each, were reported to the WDNR in May 1993 (Tank 79 - 1,200 gallons of sour water) and November 1993 (Tank 46 - 1,600 gallons of light cycle oil). Both releases resulted from overfilling the tanks. However, as described in our August 6, 1999, letter to Ms. Shanna Laube, on which you were copied, the November 1993 release actually occurred in the Tank 51/52 basin. The substance released from Tank 79 in May 1993 was sour water, not a petroleum product. Attachment A contains a copy of Murphy's internal spill report for the May 1993 release dated May 5, 1993. Also enclosed with Attachment A is a June 3, 1993, letter to the WDNR from Murphy describing the May 5, 1993, spill of sour water from Tank 79. Figure 1 is a location map, and Figure 2 is a refinery site plan showing the locations of these tanks.

Mr. James A. Hosch  
Wisconsin Department of Natural Resources  
August 11, 1999

-2-

Because the basin containing Tanks 45, 46, and 79 is bounded by berms and the clay soil at the site is relatively impermeable, the May 1993 release of sour water ponded on the soil surface. This allowed Murphy personnel time to vacuum up most of the water. The recovered water had a slight sheen on it, so it was run through one of the refinery's API separators. Murphy did not collect soil samples after completing these activities, and the WDNR did not initially request that Murphy conduct an investigation.

In a letter dated October 6, 1997, the WDNR notified Murphy that it was required under NR 716.05(2)(b) to conduct an investigation of the two historical Tank 45, 46, and 79 releases. Murphy retained Gannett Fleming to conduct the site investigation.

#### **Hand-Auger and Geoprobe Investigations (July 1998)**

To qualitatively assess the degree and extent of contamination and to focus future soil sampling, Gannett Fleming used a hand auger to collect shallow (1 to 1.5 feet below ground surface [bgs]) soil samples from five locations (1 through 5) from the bottom of this tank basin in early July 1998. These samples were field-screened with a flame-ionization detector. The highest field-screening concentration was 4 ppm, essentially equivalent to background concentrations, and none of the samples exhibited a petroleum-like odor. Figure 3 is a site plan showing the locations and the field-screening results for the samples.

Based on these results, we used a Geoprobe in late July 1998 to collect one soil sample from a location (GP-19) in the northeast corner of the basin. The location of GP-19 is shown on Figure 3. Wet soils in the northwest quarter of the basin and aboveground piping along the east and south sides precluded Geoprobe access to other areas in the basin. Soil samples were collected from GP-19 at depths of 1 to 1.5 and 4.5 to 5 feet bgs and analyzed for diesel range organics (DRO), petroleum volatile organic compounds (PVOCs), and polynuclear aromatic hydrocarbons (PAHs). These analytical results are included in Table 1. Neither sample contained any compounds at concentrations above the NR 720 generic RCLs. Attachment B contains the boring log and abandonment form for GP-19. Attachment C contains the laboratory report and chain of custody form for these samples.

**Gannett Fleming**

Mr. James A. Hosch  
Wisconsin Department of Natural Resources  
August 11, 1999

-3-

**Results**

The field-screening did not indicate any petroleum contamination. The subsequent analysis of two soil samples confirmed this, as neither of the samples contained concentrations of petroleum-related compounds that exceeded their applicable generic NR 720 RCLs.

**Summary**

What were originally identified as two releases of petroleum products, one each from Tanks 46 and 79, occurring in May 1993 and November 1993 at the Murphy refinery, have been shown to be a release of petroleum product in the basin of Tank 51/52 and a release of sour water, not petroleum product, in the basin of Tank 79.

After the WDNR notified Murphy that it was required to investigate the apparent releases from Tanks 46 and 79, Gannett Fleming conducted subsurface site investigations in July 1998 to define the extent and degree of any petroleum contamination in soil in the basin.

Field-screening results and laboratory analysis of soil samples from the basin confirm that soils in the basin do not contain any petroleum compounds above NR 720 generic RCLs.

**Request to Remove Site From Spill List**

The results of the site investigation and a review of Murphy's files confirm that there were no releases of petroleum products in the Tank 45, 46, and 79 basin.

Since there were no releases and the generic NR 720 RCLs have not been exceeded in soil samples collected from the Tank 45, 46, and 79 basin, on behalf of Murphy, we are requesting that the WDNR remove this site from its spill list.

**Gannett Fleming**

Mr. James A. Hosch  
Wisconsin Department of Natural Resources  
August 11, 1999

-4-

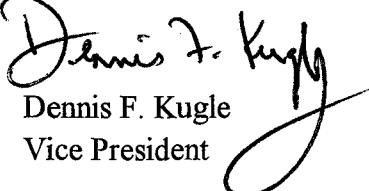
Please call if you have any questions or need additional information.

Sincerely,

GANNETT FLEMING, INC.

Handwritten signature of David J. Olig in cursive script.

David J. Olig, P.G.  
Senior Project Manager

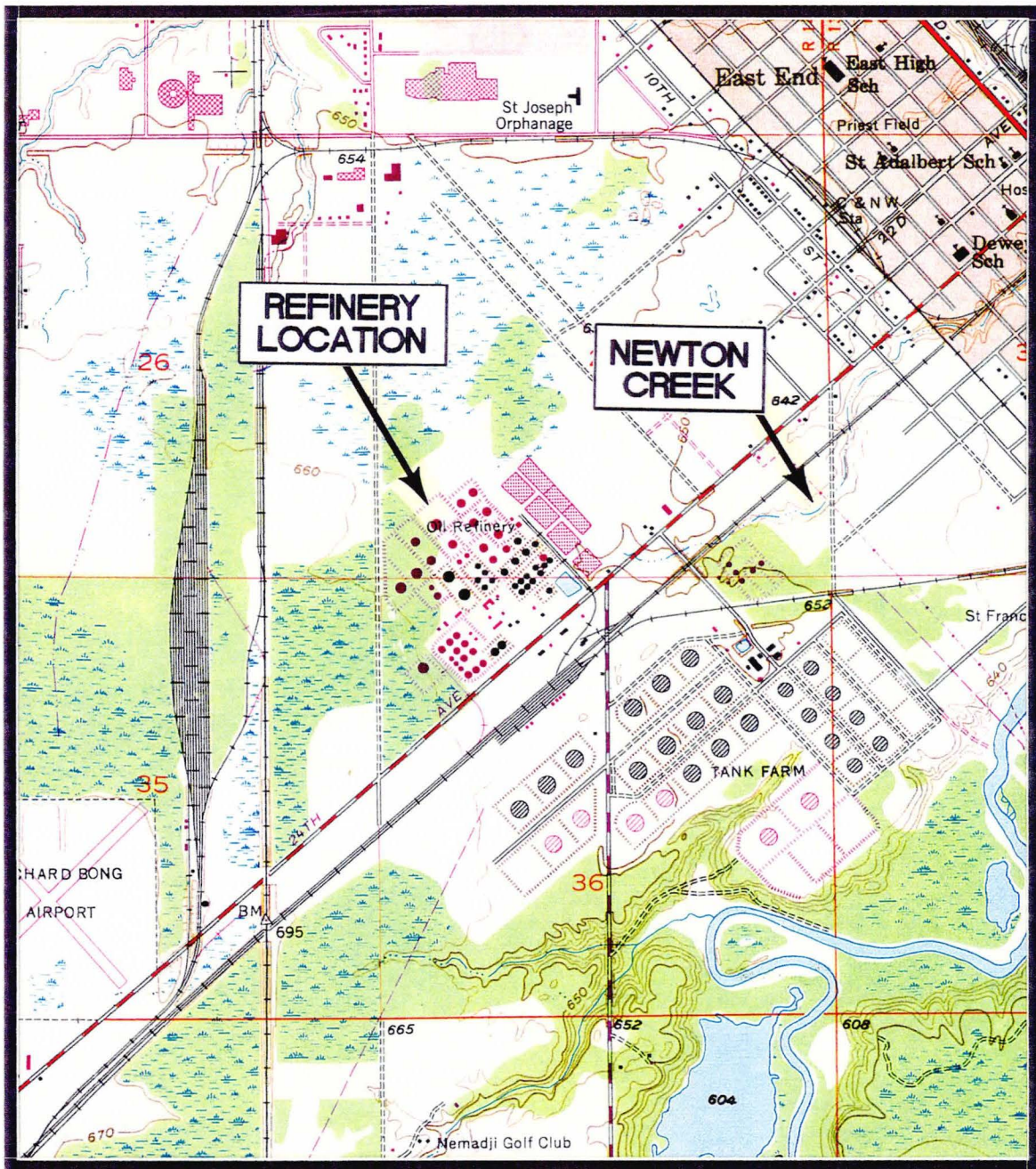
Handwritten signature of Dennis F. Kugle in cursive script.

Dennis F. Kugle  
Vice President

DJO/reb

Enc.

cc: Lee Vail (Murphy/New Orleans)  
Liz Lundmark (Murphy/Superior)  
Kevin Melnyk (Murphy/El Dorado)  
Greg Neve (Murphy/Superior)  
Rick Lewandowski (DeWitt, Ross & Stevens/Madison)



SCALE: 1 INCH = 2000 FEET

7.5 MIN TOPOGRAPHIC MAP  
SUPERIOR, WISCONSIN  
1954  
PHOTOREVISED 1983



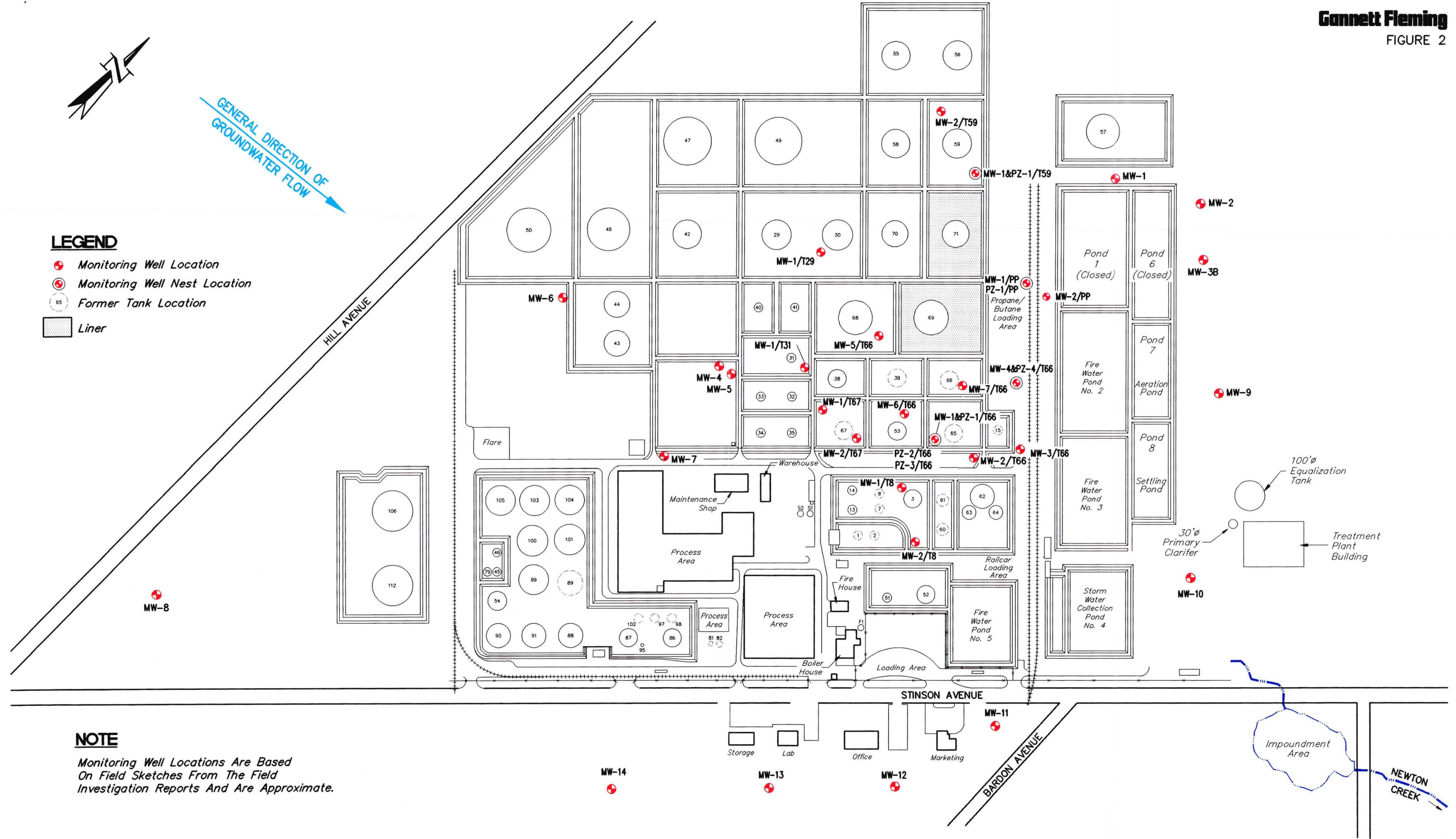
**LOCATION MAP**  
MURPHY OIL USA, INC.  
SUPERIOR, WISCONSIN



GENERAL DIRECTION OF GROUNDWATER FLOW

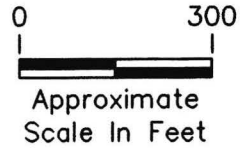
**LEGEND**

- Monitoring Well Location
- Monitoring Well Nest Location
- Former Tank Location
- Liner



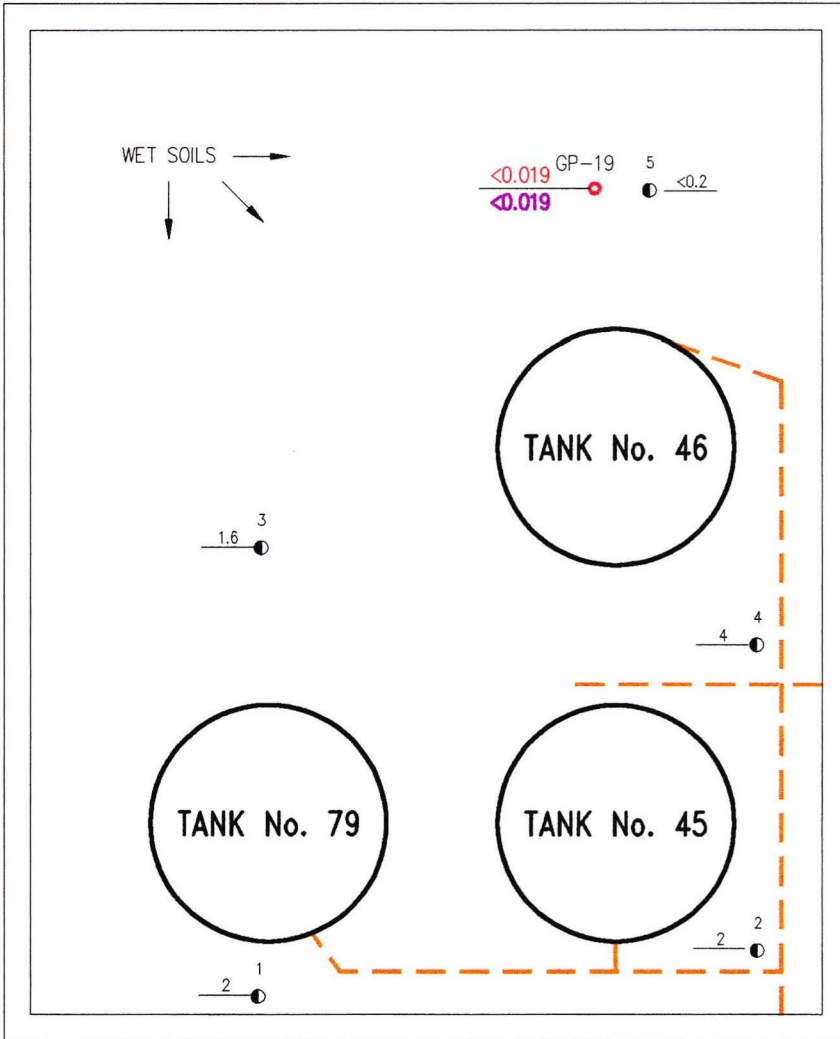
**NOTE**

Monitoring Well Locations Are Based On Field Sketches From The Field Investigation Reports And Are Approximate.



070899  
34265WBB

**SITE PLAN**  
MURPHY OIL USA, INC  
SUPERIOR, WISCONSIN



**LEGEND**

- 3 Gannett Fleming Hand-Auger Field Screening
- Soil Sample Location (July 1998)
- GP-19 Gannett Fleming Geoprobe Soil Sample Location (July 1998)
- - - Aboveground Piping

<0.019	Benzene Concentration At 1-1.5 Foot Depth (mg/kg)
<0.019	Benzene Concentration At 4.5-5 Foot Depth (mg/kg)
2	FID Reading At 1 Foot Depth

**NOTES**

1. Site Layout And Sample Locations Are Based On Field Measurements And Are To Be Considered Approximate; Site Not Surveyed.
2. All Piping At Site Not Shown; Only Piping Which Influenced Sampling Locations Is Depicted.



SAMPLE LOCATIONS  
AND FID READINGS AT  
TANK NOS. 45, 46, AND 79

MURPHY OIL USA, INC.  
 SUPERIOR, WISCONSIN

MURPHY OIL USA, INC.  
SUPERIOR, WISCONSIN

TABLE 1

ANALYTICAL RESULTS FOR SOIL SAMPLES  
FROM TANKS 45, 46, AND 79 BASIN

Parameter	Sample I.D. and Sample Depth		NR 720 RCL
	GP-19		
	1-1.5 ft	4.5-5 ft	
DRO	8.0	29	250
GRO	<1.3	3.9	250
Benzene	<0.019	<0.019	0.0055
Ethylbenzene	<0.011	<0.011	2.9
Toluene	<0.011	<0.011	1.5
Xylenes	<0.034	<0.034	4.1
MTBE	<0.0090	<0.0090	
1,2,4-TMB	<0.014	0.38	
1,3,5-TMB	<0.012	0.15	
Ethylene dibromide (EDB)	<0.0070	<0.0070	
<b>Detected Polycyclic Aromatic Hydrocarbons</b>			
Acenaphthene	<3.0	1.0	
Anthracene	0.087	0.024	
Fluorene	2.8	1.3	
Naphthalene	1.1	0.69	
1-Methyl Naphthalene	8.6	4.8	
2-Methyl Naphthalene	2.1	9.5	
Phenanthrene	2.4	1.2	

**NOTES:**

All results in units of mg/kg calculated on a dry-weight basis.  
Samples collected on July 22, 1998.



**ATTACHMENT A**

**MAY 5, 1993, RELEASE REPORT**  
**AND JUNE 3, 1993, LETTER TO WDNR**

P 430 484 617-36



SUPERIOR REFINERY  
SUPERIOR, WISCONSIN 54880

June 3, 1993

Steve LaValley  
Area Hazardous/Solid Waste Specialist  
Department of Natural Resources  
1705 Tower Avenue  
Superior, WI 54880

RE: Sour Water Storage Tank Overfill

Dear Mr. LaValley:

On May 5, 1993, Murphy Oil experienced an inadvertent overfill of sour water run-down tank 79. Approximately 30 barrels of sour water and a slight amount of hydrocarbon overflowed and pooled next to the tank. A slight oil sheen was observed on the surface of the standing water. A contractor was called in and clean-up began immediately. This material will be temporarily stored in a tank and reintroduced back into tank 79 when room is available. This site will be remediated appropriately.

The useable top operating gauge of tank 79 was not changed when a floating roof was installed during summer of 1992. This gauge has been changed.

If you have any questions or wish to discuss this matter further, please call me at (715)398-3533.

Sincerely,

A handwritten signature in dark ink, appearing to read "William P. Gustafson".

William P. Gustafson  
Environmental Operations Superintendent

cc: Jim Gesick  
Jim Britt  
Jim Kowitz  
Randy Kooiman  
Rick Lewandowski

bg.016





## SPILL REPORT

### SUPERVISOR'S INVESTIGATION OF SPILL

(HOW IT HAPPENED AND WHY)

JPK  
 RL  
 DN  
 BK  
 KL  
 DL  
 TRS  
 MN  
 BRU

PLEASE COMPLETE THIS FORM IMMEDIATELY AFTER SPILL. EACH SPILL SHOULD BE INVESTIGATED IRRESPECTIVE OF WHETHER THE RESULT WAS SERIOUS OR MINOR. THE OBJECT IS TO PREVENT RECURRENCE AND IT IS ONLY BY THOROUGH INVESTIGATION (INTERVIEW PERSON, VISIT SCENE OF SPILL IF NECESSARY, TALK TO WITNESSES) THAT THE REAL CAUSES CAN BE DETERMINED AND CORRECTED. USE BACK OF FORM IF NECESSARY.

FULL NAME OF PERSON REPORTING SPILL <b>LARRY KASMUSSEN</b>		DEPARTMENT <b>FCCU</b>	SUPERVISOR <b>LYLE LAKE</b>	
PRODUCT <b>OIL + WATER</b>	LOCATION <b>TANK 79</b>	QUANTITY - ESTIMATED <b>30 BARRELS</b>	DATE <b>5/5/93</b>	TIME OCCURRED <b>0830</b>
DESCRIBE DAMAGE OR EXTENT <b>NONE</b>				

HOW DID SPILL OCCUR? AND WHEN AND WHOM REPORTED TO:

**TANK RAN OVER - REPORTED TO RANDY KOOLMAN**

DESCRIBE CAUSE FOR SPILL

**WRONG TOP USABLE GAUGE FOR TANK 79 WAS USED**

PLEASE ANSWER THE FOLLOWING BY CHECKING "YES" OR "NO":

1. WAS MAN PROPERLY INSTRUCTED ..... YES  NO
2. DID HE VIOLATE ANY INSTRUCTIONS? ..... YES  NO
3. WAS NECESSARY PROTECTIVE EQUIPMENT USED? ..... YES  NO
4. DID POOR HOUSEKEEPING CONTRIBUTE TO SPILL? ..... YES  NO
5. WERE AUTHORITIES NOTIFIED? ..... WHEN **5-5-93** WHOM **ALL ON LIST**
6. WAS IT CAUSED BY SOMETHING WHICH NEEDED REPAIRS? ..... YES  NO
7. SHOULD A GUARD BE PROVIDED? ..... YES  NO
8. DID ANY BODILY DEFECT CONTRIBUTE TO ACCIDENT? ..... YES  NO
9. WAS IT CAUSED BY AN UNSAFE ACT? ..... YES  NO

PLEASE GIVE US YOUR HONEST COMMENTS ON QUESTIONS BELOW. WE ARE NOT TRYING TO BLAME ANYONE. YOUR OPINION MAY HELP US TO PREVENT REPETITION.

WHAT DO YOU CONSIDER THE REAL CAUSE OF THIS SPILL? (PLEASE DO NOT USE THE WORD "CARELESS")

**USABLE TOP GAUGE WAS NOT CHANGED WHEN FLOATING ROOF WAS PUT IN #79.**

WHAT STEPS ARE BEING TAKEN TO PREVENT SIMILAR SPILLS? (EXAMPLE: MEN ARE BEING INSTRUCTED IN CORRECT PROCEDURE).

**CHANGE TOP USABLE GAUGE TO BELOW OVER FLOW**

WHAT OTHER STEPS SHOULD BE TAKEN TO PREVENT RECURRENCE?


SUPERVISOR <b>BRUCE FRANZ</b>	DATE <b>5/5/93</b>
----------------------------------	-----------------------



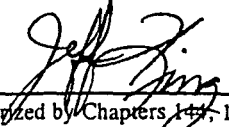
**ATTACHMENT B**

**COPIES OF SOIL BORING LOGS, ABANDONMENT FORMS**

Facility/Project Name <b>Murphy Oil USA, Inc.</b>			License/Permit/Monitoring Number		Boring Number <b>GP-19</b>	
Boring Drilled By (Firm name and name of crew chief) <b>Twin Ports Testing</b>			Date Drilling Started <b>07/22/98</b>		Date Drilling Completed <b>07/22/98</b>	
DNR Facility Well No.			WI Unique Well No.		Common Well Name	
Final Static Water Level Feet MSL			Surface Elevation Feet MSL		Borehole Diameter <b>1.3</b> Inches	
Boring Location State Plane <b>NW 1/4 of NW 1/4 of Section 36 T 49 N,R 14 W</b>			Lat <b>0 11</b> Long <b>0 11</b>		Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
County <b>Douglas</b>			DNR County Code <b>16</b>		Civil Town/City/ or Village <b>Superior</b>	

Sample Number	Length (in) Recovered	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Standard Penetration	Moisture Content	Liquid Limit	Plastic Limit	P 200		
1-3	23		1	Black SILTY LOAM with organic material	OL										
			2	Red CLAY, slightly moist becoming more moist with depth, petroleum-like odor, no fractures	CL						M				
3-5	22		3								M				
			4												
			5	End of boring at 5 feet											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature 	Firm <b>Eder Associates</b> 8025 Excelsior Drive Madison, WI 53717 Tel: (608)836-1500 Fax: (608)831-3337
--	---

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

<b>(1) GENERAL INFORMATION</b>		<b>(2) FACILITY NAME</b>	
Well/Drillhole/Borehole Location <i>NW 1/4 of NW 1/4 of Sec. 36</i>	County <i>Douglas</i>	Original Well Owner (If Known)	
(If applicable)	Gov't Lot	Present Well Owner <i>Murphy Oil USA, Inc.</i>	
Grid Location	Grid Number	Street or Route <i>2407 Stinson Ave.</i>	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code <i>Superior, WI</i>	
Civil Town Name <i>Superior</i>		Facility Well No./and/or Name (If Applicable) <i>GP-19</i>	WI Unique Well No.
Street Address of Well <i>2400 Stinson Ave</i>		Reason For Abandonment <i>Samples collected; no logs longer needed</i>	
City/Village <i>Superior</i>		Date of Abandonment <i>7/22/98</i>	

<b>WELL/DRILLHOLE/BOREHOLE INFORMATION</b>		<b>(4) Depth to Water (Feet)</b> <i>Unknown</i>	
<b>(3) Original Well/Drillhole/Borehole Construction Completed On</b> (Date) <i>7/22/98</i>		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, Explain _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (Specify) <i>Geoprobe</i>	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<b>(5) Required Method of Placing Sealing Material</b> <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Total Well Depth (ft.) <i>5</i> Casing Diameter (ins.) <i>2</i> Casing Depth (ft.) <i>NA</i>	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	<b>(6) Sealing Materials</b> For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite <input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	(Circle One)	Mix Ratio or Mud Weight
<i>Granular Bentonite</i>	<i>Surface</i>	<i>5</i>	<i>8 lbs.</i>		

(8) Comments: \_\_\_\_\_

**(9) Name of Person or Firm Doing Sealing Work**  
*Twin Ports Testing / Gannett Fleming, Inc.*

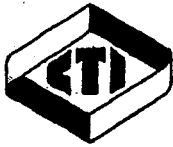
Signature of Person Doing Work <i>Jeff King of GF</i>	Date Signed <i>7/26/99</i>
Street or Route <i>8025 Excelsior Dr.</i>	Telephone Number <i>(608) 836-1500</i>
City, State, Zip Code <i>Madison, WI 53717</i>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

**ATTACHMENT C**

**LABORATORY REPORTS, AND**  
**CHAIN OF CUSTODY RECORDS**





**Commonwealth  
Technology, Inc.**

Laboratory Division

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**REVISED  
ANALYTICAL REPORT**

1230 Lange Court  
Baraboo, WI 53913-3901  
Phone: 800-228-3012  
Fax: 608-356-2766  
email: fyi@ctienv.com  
Page: 22

EDER ASSOCIATES  
JEFF KING  
8025 EXCELSIOR DR  
MADISON, WI 53717-1900

Customer #: LE8000006752  
Work Order: 9807000689  
Date Revised: 08/12/98  
Date Received: 07/24/98  
Arrival Temperature: On Ice

Report Submitted By: HGC  
Record Reviewer

Note: None

Project Name: MURPHY OIL

Project Number: 367-18.3

Sample I.D. #: 206240 Sample Description: GP-18(4.5-5) Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date Extracted	Date Analyzed	Analyst	Method
Benzo(a)pyrene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Benzo(b)fluoranthene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Benzo(g,h,i)perylene	<0.0041	mg/kg		0.004	0.014	07/28/98	07/30/98	CMK	EPA 8310
Benzo(k)fluoranthene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Chrysene	<0.092	mg/kg		0.092	0.31	07/28/98	07/30/98	CMK	EPA 8310
Dibenzo(a,h)anthracene	<0.23	mg/kg		0.23	0.77	07/28/98	07/30/98	CMK	EPA 8310
Fluoranthene	<0.0049	mg/kg		0.004	0.016	07/28/98	07/30/98	CMK	EPA 8310
Fluorene	<0.0086	mg/kg		0.008	0.029	07/28/98	07/30/98	CMK	EPA 8310
Indeno(1,2,3-cd)pyrene	<0.0094	mg/kg		0.009	0.031	07/28/98	07/30/98	CMK	EPA 8310
Naphthalene	<0.031	mg/kg		0.031	0.10	07/28/98	07/30/98	CMK	EPA 8310
Phenanthrene	<0.0035	mg/kg		0.003	0.012	07/28/98	07/30/98	CMK	EPA 8310
Pyrene	<0.0062	mg/kg		0.006	0.021	07/28/98	07/30/98	CMK	EPA 8310

Sample I.D. #: 206241 Sample Description: GP-18(4-4.5) Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date Extracted	Date Analyzed	Analyst	Method
Air-filled Porosity	18.7	%					08/06/98	ETK	MOSA 18-2
Total Porosity	0.494						08/06/98	ETK	MOSA 18-2
% Moisture/ %SMHC	59.3	%					08/06/98	ETK	MOSA 36-2
Moisture Holding Capacity	38.8	%					08/06/98	ETK	MOSA 36-2
Bulk Density	1.34	gTS/cm3					08/06/98	ETK	MOSA 13-2
Total Percent Solids	73.8	%					07/27/98	NMP	EPA 5030
pH (Soil)(Lab)	7.64	S.U.'s					07/27/98	JDC	EPA 9040
TOC as % Organic Matter	1.39	%		0.01	NA		07/29/98	KJF	MOSA 29.4

Sample I.D. #: 206242 Sample Description: GP-19(1-1.5) Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date Extracted	Date Analyzed	Analyst	Method
Total Percent Solids	75.7	%					07/27/98	NMP	EPA 5030
Gasoline Range Organics	<1.3	mg/kg	L	1.3	4.5	07/24/98	07/29/98	EMH	WDNR GRO
1,2,4-Trimethylbenzene	<0.014	mg/Kg		0.014	0.048	07/24/98	07/29/98	RLD	EPA 8021A
1,2-Dibromoethane (EDB)	<0.0070	mg/Kg		0.007	0.023	07/24/98	07/29/98	RLD	EPA 8021A
1,3,5-Trimethylbenzene	<0.012	mg/Kg		0.012	0.039	07/24/98	07/29/98	RLD	EPA 8021A
Benzene	<0.019	mg/Kg		0.019	0.063	07/24/98	07/29/98	RLD	EPA 8021A
Ethylbenzene	<0.011	mg/Kg		0.011	0.036	07/24/98	07/29/98	RLD	EPA 8021A
m&p-Xylene	<0.022	mg/Kg		0.022	0.075	07/24/98	07/29/98	RLD	EPA 8021A
Methyl-tert-butyl ether	<0.0090	mg/Kg		0.009	0.030	07/24/98	07/29/98	RLD	EPA 8021A
o-Xylene	<0.012	mg/Kg		0.012	0.042	07/24/98	07/29/98	RLD	EPA 8021A
Toluene	<0.011	mg/Kg		0.011	0.037	07/24/98	07/29/98	RLD	EPA 8021A
Diesel Range Organics	8.0	mg/kg		1.4	4.7	07/30/98	08/02/98	PML	WDNR DRO

WI DNR Lab Certification Number: 157066030 DATCP Certification Number: 000289



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Laboratory Division

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**REVISED  
ANALYTICAL REPORT**

1230 Lange Court  
Baraboo, WI 53913-3901  
Phone: 800-228-3012  
Fax: 608-356-2766  
email: fyi@ctienv.com  
Page:23

EDER ASSOCIATES  
JEFF KING  
8025 EXCELSIOR DR  
MADISON, WI 53717-1900

Customer #: LE800006752  
Work Order: 9807000689  
Date Revised: 08/12/98  
Date Received: 07/24/98  
Arrival Temperature: On Ice

Report Submitted By: HOC  
Record Reviewer

Note: None

Project Name: MURPHY OIL

Project Number: 367-18.3

Sample I.D. #: 206242 Sample Description: GP-19(1-1.5)

Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date Extracted	Date Analyzed	Analyst	Method
1-Methyl Naphthalene	8.6	mg/kg	S	0.047	0.16	07/28/98	07/30/98	CMK	EPA 8310
2-Methyl Naphthalene	2.1	mg/kg		0.031	0.10	07/28/98	07/30/98	CMK	EPA 8310
Acenaphthene	3.0	mg/kg		0.048	0.16	07/28/98	07/30/98	CMK	EPA 8310
Acenaphthylene	<0.051	mg/kg		0.051	0.17	07/28/98	07/30/98	CMK	EPA 8310
Anthracene	0.087	mg/kg		0.023	0.077	07/28/98	07/30/98	CMK	EPA 8310
Benzo(a)anthracene	<0.0020	mg/kg		0.002	0.006	07/28/98	07/30/98	CMK	EPA 8310
Benzo(a)pyrene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Benzo(b)fluoranthene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Benzo(g,h,i)perylene	<0.0041	mg/kg		0.004	0.014	07/28/98	07/30/98	CMK	EPA 8310
Benzo(k)fluoranthene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Chrysene	<0.092	mg/kg		0.092	0.31	07/28/98	07/30/98	CMK	EPA 8310
Dibenzo(a,h)anthracene	<0.23	mg/kg		0.23	0.77	07/28/98	07/30/98	CMK	EPA 8310
Fluoranthene	<0.0049	mg/kg		0.004	0.016	07/28/98	07/30/98	CMK	EPA 8310
Fluorene	2.8	mg/kg		0.008	0.029	07/28/98	07/30/98	CMK	EPA 8310
Indeno(1,2,3-cd)pyrene	<0.0094	mg/kg		0.009	0.031	07/28/98	07/30/98	CMK	EPA 8310
Naphthalene	1.1	mg/kg		0.031	0.10	07/28/98	07/30/98	CMK	EPA 8310
Phenanthrene	2.4	mg/kg		0.003	0.012	07/28/98	07/30/98	CMK	EPA 8310
Pyrene	<0.0062	mg/kg		0.006	0.021	07/28/98	07/30/98	CMK	EPA 8310

Sample I.D. #: 206243 Sample Description: GP-19(4.5-5)

Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date Extracted	Date Analyzed	Analyst	Method
Total Percent Solids	72.0	%					07/27/98	NMP	EPA 5030
Gasoline Range Organics	3.9	mg/kg	JL	1.3	4.5	07/24/98	07/29/98	EMH	WDNR GRO
1,2,4-Trimethylbenzene	0.38	mg/Kg		0.014	0.048	07/24/98	07/29/98	RLD	EPA 8021A
1,2-Dibromoethane (EDB)	<0.0070	mg/Kg		0.007	0.023	07/24/98	07/29/98	RLD	EPA 8021A
1,3,5-Trimethylbenzene	0.15	mg/Kg		0.012	0.039	07/24/98	07/29/98	RLD	EPA 8021A
Benzene	<0.019	mg/Kg		0.019	0.063	07/24/98	07/29/98	RLD	EPA 8021A
Ethylbenzene	<0.011	mg/Kg		0.011	0.036	07/24/98	07/29/98	RLD	EPA 8021A
m&p-Xylene	<0.022	mg/Kg		0.022	0.075	07/24/98	07/29/98	RLD	EPA 8021A
Methyl-tert-butyl ether	<0.0090	mg/Kg		0.009	0.030	07/24/98	07/29/98	RLD	EPA 8021A
o-Xylene	<0.012	mg/Kg		0.012	0.042	07/24/98	07/29/98	RLD	EPA 8021A
Toluene	<0.011	mg/Kg		0.011	0.037	07/24/98	07/29/98	RLD	EPA 8021A
Diesel Range Organics	29	mg/kg		1.4	4.7	07/30/98	08/02/98	PML	WDNR DRO
1-Methyl Naphthalene	4.8	mg/kg	S	0.047	0.16	07/28/98	07/30/98	CMK	EPA 8310
2-Methyl Naphthalene	9.5	mg/kg		0.031	0.10	07/28/98	07/30/98	CMK	EPA 8310
Acenaphthene	1.0	mg/kg		0.048	0.16	07/28/98	07/30/98	CMK	EPA 8310
Acenaphthylene	<0.051	mg/kg		0.051	0.17	07/28/98	07/30/98	CMK	EPA 8310
Anthracene	0.024	mg/kg	J	0.023	0.077	07/28/98	07/30/98	CMK	EPA 8310
Benzo(a)anthracene	<0.0020	mg/kg		0.002	0.006	07/28/98	07/30/98	CMK	EPA 8310
Benzo(a)pyrene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Benzo(b)fluoranthene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Benzo(g,h,i)perylene	<0.0041	mg/kg		0.004	0.014	07/28/98	07/30/98	CMK	EPA 8310

WI DNR Lab Certification Number: 157066030 DATCP Certification Number: 000289

Lexington, Kentucky • Louisville, Kentucky • Baraboo, Wisconsin



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Laboratory Division

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**REVISED  
ANALYTICAL REPORT**

1230 Lange Court  
Baraboo, WI 53913-3901  
Phone: 800-228-3012  
Fax: 608-356-2766  
email: fyi@ctienv.com  
Page:24

EDER ASSOCIATES  
JEFF KING  
8025 EXCELSIOR DR.  
MADISON, WI 53717-1900

Customer #: LE8000006752  
Work Order: 9807000689  
Date Revised: 08/12/98  
Date Received: 07/24/98  
Arrival Temperature: On Ice

Report Submitted By: HGC  
Record Reviewer

Note: None

Project Name: MURPHY OIL

Project Number: 367-18.3

Sample I.D. #: 206243 Sample Description: GP-19(4.5-5)

Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date	Date	Analyst	Method
						Extracted	Analyzed		
Benzo(k)fluoranthene	<0.0015	mg/kg		0.001	0.005	07/28/98	07/30/98	CMK	EPA 8310
Chrysene	<0.092	mg/kg		0.092	0.31	07/28/98	07/30/98	CMK	EPA 8310
Dibenzo(a,h)anthracene	<0.23	mg/kg		0.23	0.77	07/28/98	07/30/98	CMK	EPA 8310
Fluoranthene	<0.0049	mg/kg		0.004	0.016	07/28/98	07/30/98	CMK	EPA 8310
Fluorene	1.3	mg/kg		0.008	0.029	07/28/98	07/30/98	CMK	EPA 8310
Indeno(1,2,3-cd)pyrene	<0.0094	mg/kg		0.009	0.031	07/28/98	07/30/98	CMK	EPA 8310
Naphthalene	0.69	mg/kg		0.031	0.10	07/28/98	07/30/98	CMK	EPA 8310
Phenanthrene	1.2	mg/kg		0.003	0.012	07/28/98	07/30/98	CMK	EPA 8310
Pyrene	<0.0062	mg/kg		0.006	0.021	07/28/98	07/30/98	CMK	EPA 8310

Sample I.D. #: 206244 Sample Description: GP-19(4-4.5)

Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date	Date	Analyst	Method
						Extracted	Analyzed		
Air-filled Porosity	0	%					08/06/98	ETK	MOSA 18-2
Total Porosity	0.438						08/06/98	ETK	MOSA 18-2
% Moisture/ %SMHC	66.2	%					08/06/98	ETK	MOSA 36-2
Moisture Holding Capacity	39.3	%					08/06/98	ETK	MOSA 36-2
Bulk Density	1.49	gTS/cm3					08/06/98	ETK	MOSA 13-2
Total Percent Solids	73.6	%					07/27/98	NMP	EPA 5030
pH (Soil)(Lab)	7.80	S.U.'s					07/27/98	JDC	EPA 9040
TOC as % Organic Matter	2.48	%		0.01	NA		07/29/98	KJF	MOSA 29.4

Sample I.D. #: 206245 Sample Description: GP-20(6-7)

Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date	Date	Analyst	Method
						Extracted	Analyzed		
Air-filled Porosity	1.50	%					08/06/98	ETK	MOSA 18-2
Total Porosity	0.543						08/06/98	ETK	MOSA 18-2
% Moisture/ %SMHC	82.9	%					08/06/98	ETK	MOSA 36-2
Moisture Holding Capacity	33.3	%					08/06/98	ETK	MOSA 36-2
Total Percent Solids	75.7	%					07/27/98	NMP	EPA 5030

Sample I.D. #: 206246 Sample Description: GP-21(1-1.5)

Date Sampled: 07/22/98

Analyte	Result	Units	Qualifier	LOD	LOQ	Date	Date	Analyst	Method
						Extracted	Analyzed		
Total Percent Solids	75.2	%					07/27/98	NMP	EPA 5030
Gasoline Range Organics	1700	mg/kg	L	1.3	4.5	07/24/98	07/29/98	EMH	WDNR GRO
1,2,4-Trimethylbenzene	40	mg/Kg		0.014	0.048	07/24/98	07/29/98	RLD	EPA 8021A

WI DNR Lab Certification Number: 157066030 DATCP Certification Number: 000289

# Commonwealth Technology, Inc.

## ENVIRONMENTAL AND ANALYTICAL SERVICES

1230 Lange Court  
Baraboo, WI 53913

1-800-228-3012 (608) 356-2760 FAX: (608) 356-2766

FILL IN ANALYSIS NEEDED BELOW

Remarks:

02705

Project #: 367-18.3 Proj. Name: Murphy Oil

Client Name / Number: Eder Associates

Number of Containers

Date	Time	Comp	Grab	Sample Description	Sample #	Number of Containers	moisture	fraction organic Carbon	bulk density	pH	Gravimetric + extractable Hydrocarbons	DRD	PAHs	Pres.	Sample I.D. #'s:
7/21/98	9:00	Soil	X		GP-11(4.55)	3									206224
					GP-11(4.45)	1	✓	✓	✓	✓					206224
					GP-12(1.5)	3					✓	✓	✓		206225
					GP-12(4.55)	3					✓	✓	✓		206226
					GP-13(4.45)	1	✓	✓	✓	✓					206226
					GP-14(1.5)	3					✓	✓	✓		206227
					GP-14(4.55)	3					✓	✓	✓		206228
					GP-14(4.45)	1	✓	✓	✓	✓					206229
7/22/98	9:20				GP-15(1.5)	3					✓	✓	✓		206230
	9:35				GP-15(4.55)	3					✓	✓	✓		206231
	9:35				GP-15(4.45)	1	✓	✓	✓	✓					206232
	9:55				GP-16(1.5)	3					✓	✓	✓		206233
	10:05				GP-16(4.55)	3					✓	✓	✓		206234
	10:05				GP-16(4.45)	1	✓	✓	✓	✓					206235
	10:20				GP-17(1.5)	3					✓	✓	✓		206236
	10:30				GP-17(4.55)	3					✓	✓	✓		206237
	10:30				GP-17(4.45)	1	✓	✓	✓	✓					206238
	10:45				GP-18(1.5)	3					✓	✓	✓		206239
	10:55				GP-18(4.55)	3					✓	✓	✓		206240
	10:55				GP-18(4.45)	1	✓	✓	✓	✓					206241
	11:15				GP-19(1.5)	3					✓	✓	✓		206242

Sampled By: Jeff King (TJK)

Relinquished By: Jeff King

Date: 7/23/98 Time: 7:15

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By Lab: D. O. Oil

Date: 7/23/98 Time: \_\_\_\_\_

Remarks: \_\_\_\_\_  
Sublab: \_\_\_\_\_  
Is this a PECCA project? (Please indicate "Yes" or "No") Yes

Date Sample Disposed of: \_\_\_\_\_  
Sample Shipped Via: \_\_\_\_\_ UPS \_\_\_\_\_ Fed. Exp. \_\_\_\_\_ Hand \_\_\_\_\_ U.S. Mail  
Sample Status: on ice pH: \_\_\_\_\_

013

689

3075

# Commonwealth Technology, Inc.



ENVIRONMENTAL AND ANALYTICAL SERVICES

1230 Lange Court  
Baraboo, WI 53913

1-800-228-3012 (608) 356-2760 FAX: (608) 356-2766

FILL IN ANALYSIS NEEDED BELOW

Remarks: 02706

Project #: 367-18.3 Proj. Name: Murphy Oil

Client Name / Number: Ecor Associates Number of Containers

Date	Time	Comp	Grab	Sample Description	Sample #	Number of Containers
7/22/98	11:20	Soil	X		GP-19(4.5-5)	3
	11:20				GP-19(4.4.5)	1
	13:30			Ziplock bag	GP-20(1-7)	1
	14:00				GP-21(1-1.5)	3
	14:10				GP-21(4.5-5)	3
	14:10				GP-21(4.4.5)	1
	14:20				HA-1(1-1.5)	3
	14:35				HA-1(4.5-5)	3
	14:35				HA-1(4.4.5)	1
	14:45				HA-2(1-1.5)	3
	14:55				HA-2(4.5-5)	3
	14:55				HA-2(4.4.5)	1
	15:55				GP-25(1-1.5)	3
	16:00				GP-25(4.5-5)	3
	16:00	X	X		GP-25(4.4.5)	1
	8:45	X	X	Ziplock bag	GP-7A(4.5)	1
7/21/98	PM	X	X		GP-7(1.5-2)	3
				DD	GP12(3.5-4)	

Porosity / % moisture	fraction organic Carbon	bulk density	pH	URO/PROD/S + other elements	DRD	PAHS															

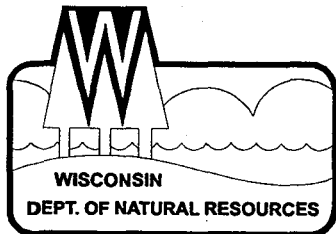
Space Below For Laboratory Use

Pres.	Sample I.D. #'s:
	206243
	206244
	206245
	206246
	206247
	206248
	206249
	206250
	206252
	206253
	206254
	206255
	206257
	206258
	206259
	206261
	206263
	206265

Sampled By: Jeff King (JSK) Relinquished By: [Signature] Date: 7/23/98 Time: 7:15

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By Lab: [Signature] Date: 7/23/98 Time: \_\_\_\_\_

Remarks: \_\_\_\_\_ Date Sample Disposed of: \_\_\_\_\_ Sample Shipped Via: UPS Fed. Exp. X Hand U.S. Mail  
Sublab: yes Is this a PECFA project? (Please indicate "Yes" or "No")  
Sample Status: \_\_\_\_\_ Deg. C: on ice pH: \_\_\_\_\_



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor  
George E. Meyer, Secretary  
William H. Smith, Regional Director

Northern Region Headquarters  
107 Sutliff Ave.  
Rhinelander, Wisconsin 54501-0818  
Telephone 715-365-8900  
FAX 715-365-8932  
TDD 715-365-8957

June 15, 1999

**RECEIVED**

NOR UID # 02-16-221908

R. Lee Vail  
Environmental Affairs Dept.  
Murphy Oil Corp.  
PO Box 61780  
New Orleans, LA 70160-1780

**SEP 20 1999**

**ERS DIVISION**

Subject: Murphy Oil – Tank 79, 2400 Stinson Ave., Superior, WI

Dear Mr. Vail:

The Department of Natural Resources - Remediation and Redevelopment Program recently reviewed a report that indicates that groundwater is not impacted by contamination at the above-referenced site.

Based on this, the Department is transferring authority for the site to the Wisconsin Department of Commerce, in accordance with statutory requirements.

Please notify your consultant of this change.

Sincerely,  
NORTHERN REGION

Danielle Lancour  
Remediation and Redevelopment Program

cc: File  
Shanna Laube, Dept. of Commerce, PO Box 530, Park Falls, WI 54552

Spill ID Number  
**01-16-04838 9pdf**  
Y Y M M D D 0-99

Date of Incident 05-05-93	Day of Week Wednesday	Time of Incident 8:30	<input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.	Reported By (Name) Bruce Krenz	Telephone Number ( 715 ) 398-3533
Date Reported 05-05-93	Day of Week Wednesday	Time Reported 11:25	<input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.	Agency or Firm Reporting Murphy Oil USA	Reported thru Div. Emergen. Gov't. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Substance Involved Oil & water	Quantity 30	Units barrels	Person or Firm Responsible Murphy Oil USA		
Substance Involved	Quantity	Units	Contact Name Bruce Krenz	Telephone Number ( 715 ) 398-3533	

Physical Characteristics

Solid  Liquid  Semisolid  Gas

Color \_\_\_\_\_  
Odor \_\_\_\_\_

Address - Street or Route  
Stinson Avenue PO Box 2066

City, State, Zip Code  
Superior WI 54880

Cause of Incident  
tank ran over inside dyke tank # 79

Exact Location Description (intersection, mileage, etc.)  
Tank # 79

Action Taken By Spiller

No Action Taken  No Notification  Investigate

Containment; Type dyke

Cleanup; Method pumping into tank

Amount Recovered \_\_\_\_\_

Monitor \_\_\_\_\_

Contractor Hired; Name \_\_\_\_\_

Other Action \_\_\_\_\_

County Location  
Douglas

1/4, 1/4, Section, Town, Range  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, T \_\_\_\_\_ N, R \_\_\_\_\_

DNR Dist | DNR Area | Groundwaters Affected

NWD | Brule |  Yes  No  Potential

Surface Waters Affected | Name of Surface Water

Yes  No  Potential

Spill Location

Industrial Facility/Paper Mill/Chem. Co.

Gas/Service Station/Garage, Auto Dealer, Repair Shop

Ag Coop/Facility/Cheese Factory/Creamery

Other Small Business (bank, grocery, insurance co., etc.)

Public Property (city, county, state, church, school, etc.)

Utility Co., Power Generating/Transfer Facility

Private Property (home/farm)

Pipeline, Terminal, Tank Farm, Oil Jobber/Wholesaler

Transportation Accident, Fuel Supply Tank Spill

Transportation Accident, Load Spill

Construction, Excavation, Wrecking, Quarry, Mine

Other refinery

Date District Notified | Day of Week | Time District Notified

05-05-93 | Wednesday | 11:40  A.M.  P.M.

District Person Notified | Telephone Number

Switchboard - Dawn | ( 715 ) 635-2101

Date Investigated | Day of Week | Time Investigated

05-05-93 | Wednesday | 11:45  A.M.  P.M.

Person Investigating | Telephone Number

Joe Davidowski | ( 715 ) 392-7992

Action Taken By DNR

No Action Taken  Spiller Required To Take Action; Type \_\_\_\_\_

Contractor Hired By DNR; Name \_\_\_\_\_

Amount Recovered \_\_\_\_\_

29.29 Enforcement

Other Agencies on Scene

Local \_\_\_\_\_

State \_\_\_\_\_

Federal \_\_\_\_\_

Soil only  
02-16-221908

Spilled Substance Destination

Air

Soil

Groundwater

Surface Water

Storm Sewer

Sanitary Sewer

Contained/Recovered

Other back to tank

Person Filing This Report (print name)  
Joe Davidowski

Signature Joe Davidowski Date Signed 5-11-93

Additional Comments:  
Substance is intermediate hydrocarbons used in processes.