

GIS REGISTRY INFORMATION

SITE NAME: Murphy Oil - Contaminated Soil Under Roadway
 BRRTS # 02-16-226861 FID # (if appropriate): _____
 COMMERCE #: (if appropriate) _____
 CLOSURE DATE: 9/12/05
 STREET ADDRESS: 2400 Stinson Ave
 CITY: Superior

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):
 X= 361608 Y= 692924

CONTAMINATED MEDIA: Groundwater Soil Both
 OFF-SOURCE CONTAMINATION (>ES): Yes No

IF YES, STREET ADDRESS 1: _____
 GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

Off -Source SOIL CONTAMINATION >GENERIC OR SITE-SPECIFIC RCL (SSRCL): Yes No

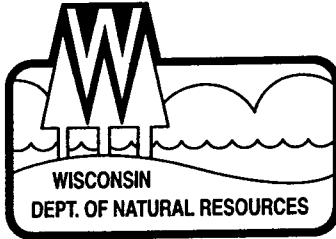
IF YES, STREET ADDRESS 1: _____
 GPS COORDINATES (meters in WTM91 projection): X= _____ Y= _____

CONTAMINATION IN RIGHT OF WAY: Yes No

DOCUMENTS NEEDED:

- Closure Letter, and any conditional closure letter issued
- Copy of most recent deed, including legal description, for all affected properties
- Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties
- County Parcel ID number, if used for county, for all affected properties 01-801-0339.00
- Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.
- Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.
- Tables of Latest Groundwater Analytical Results (no shading or cross-hatching) N/A
- Tables of Latest Soil Analytical Results (no shading or cross-hatching)
- Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map. N/A
- GW: Table of water level elevations, with sampling dates, and free product noted if present! N/A
- GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees) N/A
- SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour.
- Geologic cross-sections, if required for SI. (8.5x14" if paper copy)
- RP certified statement that legal descriptions are complete and accurate
- Copies of off-source notification letters (if applicable) N/A
- Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW) N/A
- Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure. N/A





State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdziński, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhineland, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

September 14, 2005

Ms. Liz Lundmark
Murphy Oil USA, Inc
2407 Stinson Ave
Superior, WI 54880

SUBJECT: Final Case Closure By Closure Committee
Murphy Oil Contaminated Soil Under Roadway, Superior, WI
WDNR BRRTS #:02-16-226861

Dear Ms. Lundmark:

On February 3, 2005, your site as described above was reviewed for closure by the Northern Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On February 23, 2005, you were notified that the Closure Committee had granted conditional closure to this case.

On September 12, 2005, the Department received correspondence indicating that you have complied with the conditions of closure, specifically, information and fees needed for the GIS Registry. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

If your property is listed on the GIS Registry due to groundwater contamination exceeding ch. NR 140 standards at the time of closure, and you intend to construct or reconstruct a well, you will need Department approval. Department approval is required before construction or reconstruction of a well on a property listed on the GIS Registry, in accordance with s. NR 812.09(4)(w). To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at the web address listed above.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

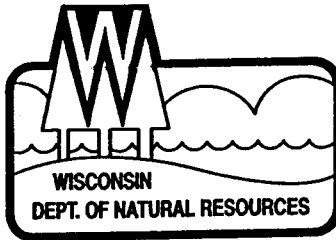
Sincerely,
NORTHERN REGION

A handwritten signature in black ink that reads "Janet Kazda". The signature is written in a cursive, flowing style.

Janet Kazda
Remediation & Redevelopment Program

cc: File
Jim Hosch, Superior
Chris Saari, Ashland

Dennis Kugle
Gannett Fleming
8025 Excelsior Dr
Madison, WI 53717-1900



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhineland, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

February 23, 2005

Ms. Liz Lundmark
Murphy Oil USA, Inc
2407 Stinson Ave
Superior, WI 54880

Subject: Denial of Case Closure By Committee
Murphy Oil Contaminated Soil Under Roadway, Superior, WI
WDNR BRRTS #: 02-16-226861

Dear Ms. Lundmark:

On February 3, 2005, your site was reviewed for closure by the Northern Region Closure Committee. This committee reviews environmental remediation cases for compliance with state statutes and rules to maintain consistency in the closure of these cases. After careful review of your closure request, the closure committee has decided that additional materials and fees are needed in order to meet the requirements of closure.

Because soil contamination remains at the site in excess of NR 720.19, Wis. Adm. Code, standards, the site must be placed on the GIS Registry of Closed Remediation Cases. In order to place the site on the Registry, a fee of \$200 should be submitted to me at the above address. In addition, a Soil GIS Registry packet must be completed and sent to me. The requirements for the packet are outlined in our most current Case Summary and Close Out Request form, (Form # 4400-202), which is available at www.dnr.state.wi.us.

Once the additional materials outlined above have been submitted, your request for closure will be reconsidered.

If there is additional relevant information that was not previously provided to the Department, which you believe might change the Department's closure decision, you may submit that information for our re-evaluation of your closure request.

Please call me if you have any questions at 715-365-8990.

Sincerely,
NORTHERN REGION


Janet Kazda
Remediation and Redevelopment Program

→ C: File

THIS INDENTURE, Made by Lake Superior Refining Co., a Wisconsin corporation, grantor, of Douglas County, Wisconsin, hereby conveys and warrants to Murphy Corporation, a Louisiana corporation, grantee, whose principal office is in Eldorado, Union County, Arkansas, in accordance with the plan of complete liquidation and dissolution adopted by the Board of Directors and Stockholders of the grantor hereinabove mentioned, the following tracts of land and personal property in Douglas County, State of Wisconsin:

All of the following described lands being on West Twenty-third (23) Street, Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Fifteen (15);
 All of Block Sixteen (16);
 North one-half ($\frac{1}{2}$) of Block Seventeen (17);
 Southeast Quarter ($\frac{1}{4}$) of Block Seventeen (17);
 All of Block Eighteen (18);
 All of Block Nineteen (19), except Lots 314, 316, 318 and 320 on West Twenty-second (22) Street in Bayfront Division;
 All of Block Twenty (20);
 All of Block Twenty-two (22), except Lots 343, 344, 345, 346, 347, 348, 349, 350, 351 and 352 in Bayfront Division, a part of said Block Twenty-two (22);
 All of Block Twenty-four (24);
 All of Block Twenty-six (26);
 All of Block Twenty-eight (28);
 All of Block Thirty (30);

The following described Lots being on West Twenty-fifth (25) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Thirteen (13), subject to the Northern Pacific Railway Company easement for a right-of-way on Newton Avenue;
 All of Block Fourteen (14), subject to the Northern Pacific Railway Company easement for a right-of-way on Newton Avenue;
 All of Block Fifteen (15);
 All of Block Sixteen (16);
 All of Block Seventeen (17);
 All of Block Eighteen (18);
 All of Block Nineteen (19);
 All of Block Twenty (20);
 All of Block Twenty-one (21);

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All of Block Twenty-two (22);
All of Block Twenty-three (23);
All of Block Twenty-four (24);
All of Block Twenty-five (25);
All of Block Twenty-six (26);
All of Block Twenty-seven (27);
All of Fractional Block Twenty-eight (28);
All of Block Twenty-nine (29);
All of Block Thirty (30);

The following described Lot being on West Twenty-sixth (26) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Thirty-two (32);

The following described Lots being on West Twenty-seventh (27) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Nine (9);
All of Block Thirteen (13), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fourteen (14), subject to Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fifteen (15);
All of Block Sixteen (16);
All of Block Seventeen (17);
All of Block Eighteen (18);
All of Block Nineteen (19);
All of Block Twenty (20);
All of Block Twenty-one (21);
All of Block Twenty-two (22);
All of Block Twenty-three (23);
All of Block Twenty-four (24);
All of Fractional Block Twenty-five (25);
All of Block Twenty-six (26);
All of Fractional Block Twenty-seven (27);
All of Block Twenty-eight (28);
All of Block Twenty-nine (29);
All of Block Thirty (30);
All of Block Thirty-one (31);
All of Block Thirty-two (32), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;

The following described Lots being on West Twenty-ninth (29) Street in the Townsite of Superior, in the City of Superior, Douglas County, Wisconsin:

All of Block Seven (7);
All of Block Thirteen (13), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fourteen (14), subject to the Northern Pacific Railway Company easement for right-of-way on Newton Avenue;
All of Block Fifteen (15);

All of Block Sixteen (16);
All of Block Seventeen (17);
All of Block Eighteen (18);
All of Block Nineteen (19);
All of Block Twenty (20);
All of Block Twenty-one (21);
All of Block Twenty-two (22);
All of Block Twenty-three (23);
All of Block Twenty-four (24);
All of Block Twenty-five (25);
All of Block Twenty-six (26);
All of Block Twenty-seven (27);
All of Block Twenty-eight (28);
All of Block Twenty-nine (29);
That part of Block Thirty (30) lying East of the
East line of the Wisconsin Central Railway
Company right-of-way;
That part of Block Thirty-one (31) lying East of
the East line of the Wisconsin Central Railway
Company right-of-way;

Also the following easements:

1. A right-of-way easement, five feet (5') in width for the purpose of laying, maintaining, operating, patrolling, altering, repairing, renewing and removing, in whole or in part, a six inch (6") supply pipe line for the transportation of crude petroleum from the storage tanks of the Lakehead Pipe Line Company, Inc. to the refinery owned and operated by Lake Superior Refining Co., together with the necessary fixtures, equipment and appurtenances over, through, upon, under, and across that portion of the Lakehead Pipe Line Company, Inc. property now traversed by said pipe line as it is presently laid and located; and as shown on the sketch or plat attached to that certain deed from Lakehead Pipe Line Company, Inc. to Superior Refinery Owners, Inc. dated July 23, 1952; and recorded in 232 of Deeds, page 231, in the office of the Register of Deeds for Douglas County, Wisconsin, said property being situated in Douglas County, Wisconsin; together with the rights of ingress and egress to and from said right-of-way through and over said above described land for any and all purposes necessary to the exercise by the grantee of the rights therein granted. Said easement to be effective as long as crude oil is taken through the pipe line system of Lakehead Pipe Line Company, Inc., subject to the restrictions contained in said easement deed.
2. That certain easement for a six inch (6") pipe line between Superior Refinery Owners, Inc. and the tank farm of the Lakehead Pipe Line Company, Inc. located in the City of Superior, Douglas County, Wisconsin, and described as follows: Commencing at a point on Twenty-sixth Avenue East and East Twenty-third Street; thence generally in an Easterly direction along the North property line

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of the Lakehead Pipe Line Company, Inc. to East Twentieth Street; thence in a South-easterly direction to Tank No. 5, a total distance of approximately eight hundred fifty (850) feet, in the City of Superior, Douglas County, Wisconsin; thence on East Twenty-third Street from the Lakehead Pipe Line Company, Inc. property line to Twenty-third Avenue East; thence beneath the tracks of the Northern Pacific Railway Company on Newton Avenue on Twenty-fifth Avenue East (formerly Newton Avenue) and the tracks of the Northern Pacific Railway Company's ore dock line between Twenty-fifth Avenue East and Twenty-sixth Avenue East along a line parallel with and distant ten (10) feet Southwesterly, measured at right angles, from the center line of East Twenty-third Street in the City of Superior, Douglas County, Wisconsin; and thence crossing Block Nine (9) on West Twenty-third Street and Block Ten (10) on West Twenty-first Street, in the City of Superior, according to the recorded plat thereof, along a line parallel with and distant two hundred forty (240) feet Southerly, measured at right angles, from the center line of the main track of the Northern Pacific Railway Company's Oregon dock line as now constructed; and crossing the Northern Pacific Railway Company's property in Block Seven (7) on West Twenty-first Street in the City of Superior, Douglas County, Wisconsin, along a line parallel with and distant twenty-seven (27) feet, more or less, Northeasterly, measured at right angles, from the Southwesterly line of said Block Seven (7), from the Northwesterly line of said Block Seven (7), to a point distant two hundred fifty (250) feet Southerly, measured at right angles, from said track center line; together with all easements, rights, contracts, grants, licenses, assignments, and permits of any nature, whether oral or written, and whether recorded or unrecorded, and all rights and interests arising out of adverse possession, or use of any kind or nature respecting the laying of pipe lines used in connection with the operation of said refinery and belonging to Lake Superior Refining Co., or in which it has some right, title or interest, and the maintenance, use, operation, repair, replacement and removal thereof upon, over, under and across the lands of others, and all pipe or pipes, pumps, compressors, motors, valves, controls, meters and all other equipment and apparatus constituting a part of or used in the operation of said pipe lines, including but not limited to said six inch (6") pipe line between the tank farm of said Lakehead Pipe Line Company, Inc. and said refinery of Lake Superior Refining Co.

3. That part of the West one-half (W½) of Section Thirty-six (36), Township Forty-nine (49) North, Range Fourteen (14) West, more fully described as follows: Commencing at the North Quarter (N¼) corner of said Section Thirty-six (36), thence due South along the North-South quarter line, being the center line of Bardon Avenue, a distance of 1456.64 feet to the South property line of Twenty-sixth (26) Avenue extended; thence South 48° 36' West along the South property line of Twenty-sixth Avenue, a distance of 481 feet to the point of beginning; thence continuing in the same straight line a distance of 1323.53 feet to a point; thence South 89° 46' West, a distance of 151.91 feet to a point; thence South 48° 36' West a distance of 162.43 feet to a point; thence South 41° 24' East, a distance of 751 feet to a point; thence North 48° 36' East, a distance of 1463.36 feet to a point on the West line of Bardon Avenue; thence due North along the West line of Bardon Avenue, a distance of 207.10 feet to a point; thence North 41° 24' West a distance of 495.66 feet to the point of beginning, containing 24.18 acres, more or less, all in the City of Superior, Douglas County, Wisconsin.

In the area covered by these descriptions most of the streets and alleys have been vacated. Where these descriptions abut on streets and alleys which have been vacated the title of Lake Superior Refining Co. extends to the center of such street or alley.

Also all buildings, structures, fixtures, machinery, equipment and tools comprising and used in and about the conduct and operation of the oil refinery of Lake Superior Refining Co., located upon the tracts of land above described or otherwise, and including but not limited to the following, to-wit:

1. <u>STORAGE</u>	<u>CAPACITY (BBLS)</u>	<u>CONSTRUCTION</u>
<u>Present Tank Nos.</u>		
1, 2, 3 and 4	1,000 each	Welded
5 and 6	1,200 each	Welded
7, 8, 9, 10, 11 and 12	2,600 each	Welded
13 and 14	3,500 each	Welded
15 (formerly 62)	5,000	Welded
21 and 22	25,000 each	Welded
25, 26 and 27	217,000 each	Welded
30, 31, 32, 33, 34 and 35	5,000 each	Bolted
36 and 37	50,000 each	Welded
38 and 39	15,000 each	Welded

<u>STORAGE</u>	<u>CAPACITY (BBLs)</u>	<u>CONSTRUCTION</u>
<u>Present Tank Nos.</u>		
40 and 41	5,000 each	Welded
42	56,000	Welded
50 (F-2)	500	Welded
51	2,300	Welded
52	9,500	Welded
53	20,000	Welded
54	25,000	Welded
60 and 61	5,000 each	Welded
63 and 64	10,000 each	Welded
65 and 66	16,500 each	Welded
67	20,000	Welded
68 and 69	48,000 each	Welded
80 and 81	1,200 each	Welded, insulated
82 and 83	1,800 each	Welded, insulated
84 and 85	2,500 each	Welded, insulated
86 and 87	16,500 each	Welded
88 and 89	35,000 each	Welded
90 and 91	36,000 each	Welded
92, 93, 94	1,700 each	Welded
96	250	Welded
F-1 (formerly B-1)	250	Welded
S-1	600	Welded
S-2	250	Welded

2. PLATFORMING UNIT - NO. 1

- a. Platforming furnace
- b. Reactors (3)
- c. Exchangers - heat
- d. Separator
- e. Compressors (2)
- f. Stabilizing tower
- g. Pumps and controls
- h. Platform control house
- i. Suction drum
- j. Stripper tower
- k. Absorber tower
- l. Amine regenerator

PLATFORMING UNIT - NO. 2

- a. Platforming furnace
- b. Reactors (3)
- c. Unifiers
- d. Exchangers - heat
- e. Compressors (2)
- f. Stabilizing tower
- g. Pumps and controls
- h. Platform control house
- i. Suction drum
- j. Stripper tower

3. CRUDE UNITS NO. 1 AND NO. 2

- a. Crude furnaces (2)
- b. Exchangers - heat
- c. Pumps and controls
- d. Crude Tower A
- e. Crude Tower B
- f. Condenser box and coils
- g. Receivers and caustic scrubbers

4. THERMAL CRACKING UNIT

- a. Cracking furnace
- b. Fractionating tower
- c. Reaction chamber
- d. Flash tower
- e. Stabilizing tower.
- f. Exchangers - heat
- g. Condenser box and coils
- h. Pumps and controls
- i. Hot oil pump

5. ASPHALT UNIT

- a. Asphalt furnace
- b. Vacuum tower
- c. Oxidizing tower
- d. Exchangers - heat
- e. Pumps and controls

6. POLYMERIZATION UNIT

- a. Poly furnace
- b. Compressor
- c. Poly tower
- d. Exchanger - heat
- e. 2 Reactors

7. BUILDINGS

- a. Boiler house--contains two 35,000 lbs. per hour steam boilers
- b. Boiler house--contains two 10,000 lbs. per hour steam boilers
- c. Pump and control house
- d. Transfer pump house
- e. Linde treating house
- f. Office building and addition
- g. Warehouse building
- h. Ethyl house
- i. Hot oil pump house
- j. Asphalt control and pump house
- k. Truck loading racks (2)
- l. Employees change house and addition
- m. No. 2 Unit control house

8. RAILROAD SIDINGS

- a. Ethyl unloading siding
- b. Double track crude unloading and product loading siding

Together with all of the Lake Superior Refining Co.'s right, title and interest in and to any and all other buildings, structures, plants, facilities, fixtures and improvements and all other machinery, tools, apparatus, equipment, and all other personal property of whatsoever kind or nature now or hereafter located on the lands above described or located elsewhere and used or useful in connection with the conduct and operation of said refinery and pipe lines located on such lands and also any and all real property, rights, grants, liberties, estates, rights of way, servitudes, easements, franchises, privileges, immunities, consents, permits, patents and patent rights, licenses, leasing agreements, switch track agreements and leasing contracts now owned by Lake Superior Refining Co.

Subject to the rights of Lakehead Pipe Line Company, Inc. regarding some of the above captioned real estate to re-purchase lands conveyed by Lakehead Pipe Line Company, Inc. upon discontinuance of the use of said lands for an oil refinery or allied purposes.

IN WITNESS WHEREOF, the said grantor has caused these presents to be signed by Russell Marks, its President, and attested by J. A. O'Connor, Jr., its Secretary, at El Dorado, Arkansas, and its corporate seal to be hereunto affixed this the 10th day of April, A. D. 1961, to be effective for all purposes as of 7:00 o'clock A. M. on January 1, 1961.

Signed and Sealed in
Presence of:

[Signature]

[Signature] B. Mark

03'00'

LAKE SUPERIOR REFINING CO.

By *[Signature]*
Russell Marks
President.

ATTEST:
[Signature]
J. A. O'Connor, Jr.
Secretary.

STATE OF ARKANSAS)
) ss.
COUNTY OF UNION)

Personally came before me, this 10th day of April,
A. D. 1961, Russell Marks, President, and J. A. O'Connor, Jr.,
Secretary of the above named corporation, to me known to be the
persons who executed the foregoing instrument, and to me known
to be such President and Secretary of said corporation, and ac-
knowledged that they executed the foregoing instrument as such
officers as the deed of said corporation, by its authority.



William J. Wynne
Notary Public, Union County, Arkansas.
My Commission expires Sept. 1, 1962.

This instrument was drafted by
Paul L. Witkin, Attorney.

7352

J. F. O'Connell

RECORDED IN BOOK 22647
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APR 11 1961

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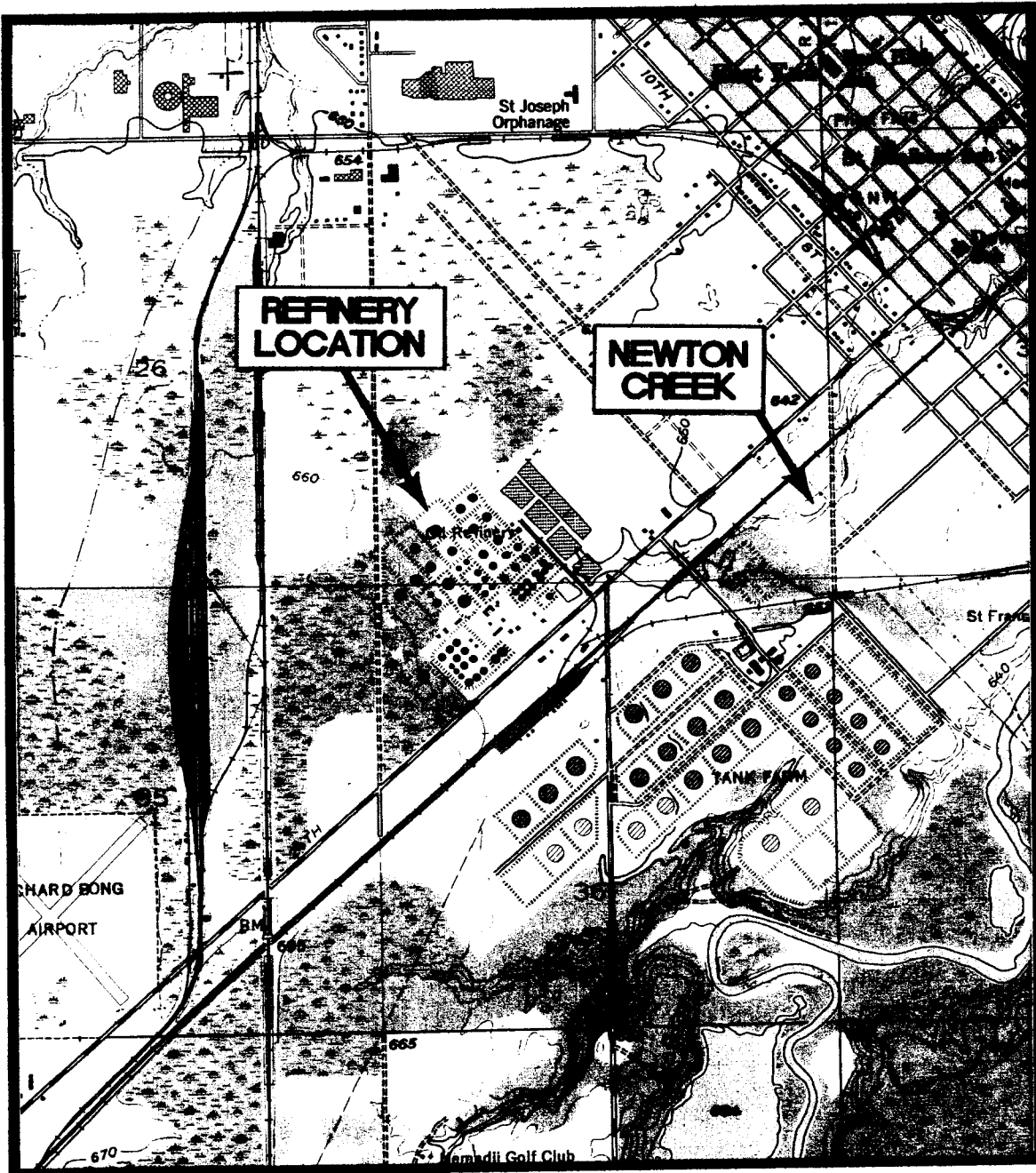
SOUTH 1/2 SEC. 25

SCALE, IN FEET
0 50 100 150 200 250 300

Prepared By:
Douglas County Clerk's Office, R.W. Earl
29 June 1992



2600



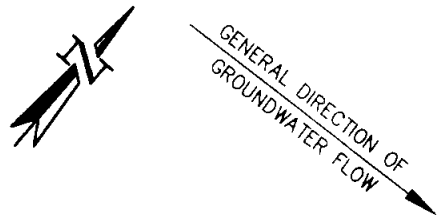
SCALE: 1 INCH = 2000 FEET
CONTOUR INTERVAL = 10 FEET

7.5 MIN TOPOGRAPHIC MAP
SUPERIOR, WISCONSIN
1954
PHOTOREVISED 1983



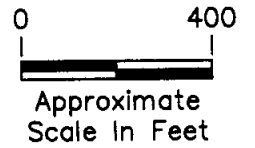
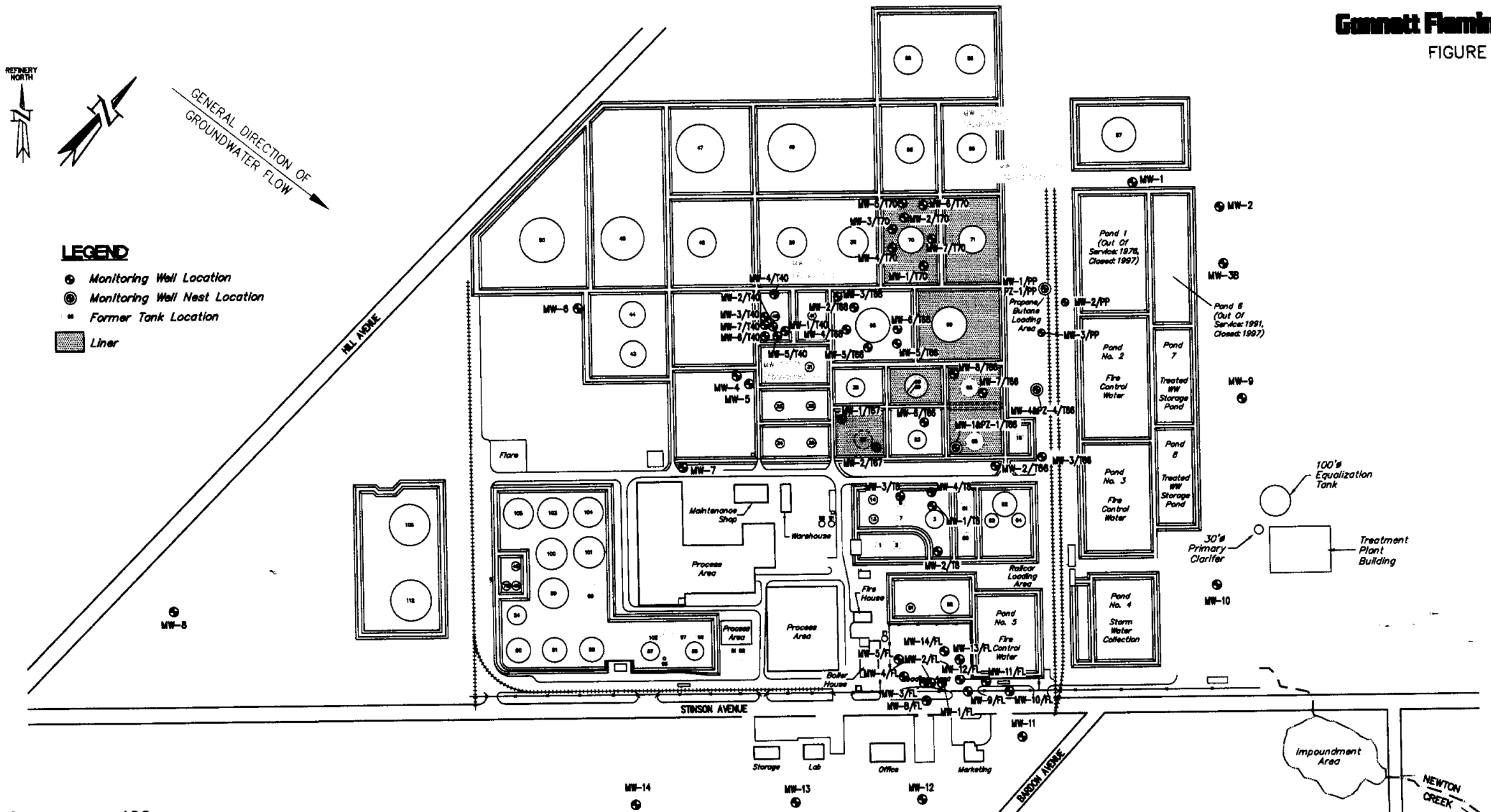
LOCATION MAP

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN



LEGEND

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



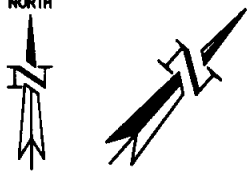
NOTES

1. Shaded Wells Have Been Abandoned.
2. Monitoring Well Locations Are Based On Field Sketches From The Field Investigation Reports And Are Approximate.

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

080705 34265WCS








REFINERY NORTH

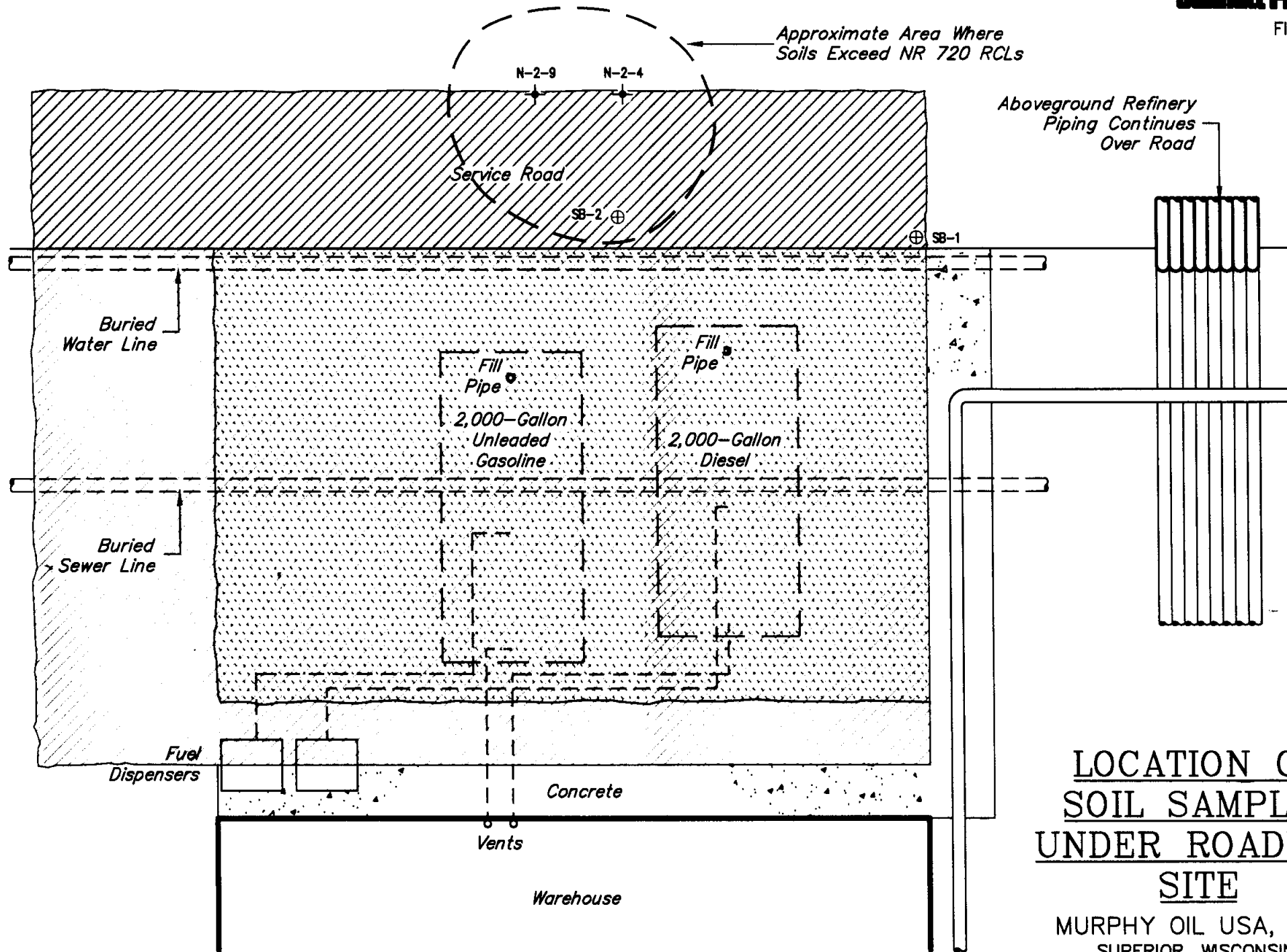


Gannett Fleming

FIGURE 3

LEGEND

-  Area Of Soil Excavation (September 1994)
-  Excavation Sampling Location (September 1994)
-  Soil Boring Location (March 1994)
-  Paved Service Road
-  Area Of Former USTs Excavation (USTs Removed January 1994)
-  Former Underground Piping
-  Aboveground Refinery Piping (Not Related To Underground Storage Tanks)



**LOCATION OF
SOIL SAMPLES
UNDER ROADWAY
SITE**

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN



090805 34265WYY

MURPHY OIL USA, INC.
SUPERIOR, WISCONSIN

TABLE 1

ANALYTICAL RESULTS ($\mu\text{g/g}$) FOR SOIL SAMPLES COLLECTED UNDER ROADWAY ADJACENT TO USTs SITE

Parameter	Sample ID and Depth (ft)								Standards		
	N-2-4 (4')	N-2-9 (9')	SB-1-7 (7.5')	SB-1-15 (15')	SB-1-20 (20')	SB-2-2.5 (3')	SB-2-12.5 (13')	SB-2-20 (20')	NR 720 RCL	NR 746 Table 1	NR 746 Table 2
Diesel Fuel Fingerprint ⁽¹⁾	965	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS
Diesel Range Organics	2,390	482	414	<5.0	<5.0	1,720	23.6	<5.0	250	NS	NS
Gasoline Range Organics	547	384	309	<5.0	<5.0	1,480	<5.0	<5.0	250	NS	NS
Benzene	0.49	0.549	<0.2	<0.0017	<0.0017	<u>8.1</u>	<0.1	<0.0037	0.0055	8.5	1.1
Ethylbenzene	3.1	1.35	1.4	<0.0034	<0.013	<u>31.5</u>	<0.2	<0.0074	2.9	4.6	4.6
Methyl Tert Butyl Ether	<1.60	<1.80	<0.7	<0.0069	<0.027	<0.6	<0.5	<0.015	NS	NS	NS
Toluene	<1.60	1.93	0.7	0.0173	<0.027	7.5	<0.5	<0.015	1.5	38	38
1,2,4-Trimethylbenzene	13.3	11.6	4.4	0.0289	<0.013	40.7	1.1	<0.0074	NS	83	83
1,3,5-Trimethylbenzene	4.91	3.62	0.8	<0.0034	<0.013	<u>12.9</u>	<0.2	<0.0074	NS	11	11
Xylene	14.37	6.52	1.1	<0.0068	<0.026	<u>54.4</u>	0.5	<0.0148	4.1	42	42
Lead	NA	NA	21.8	21.4	20.7	30.4	18.8	20.4	500	NS	NS

NOTES:

"N" samples collected September 1994 and "SB" samples collected March 1994.

NA = Not analyzed.

RCL = Residual contaminant levels

NS = No RCL standard.

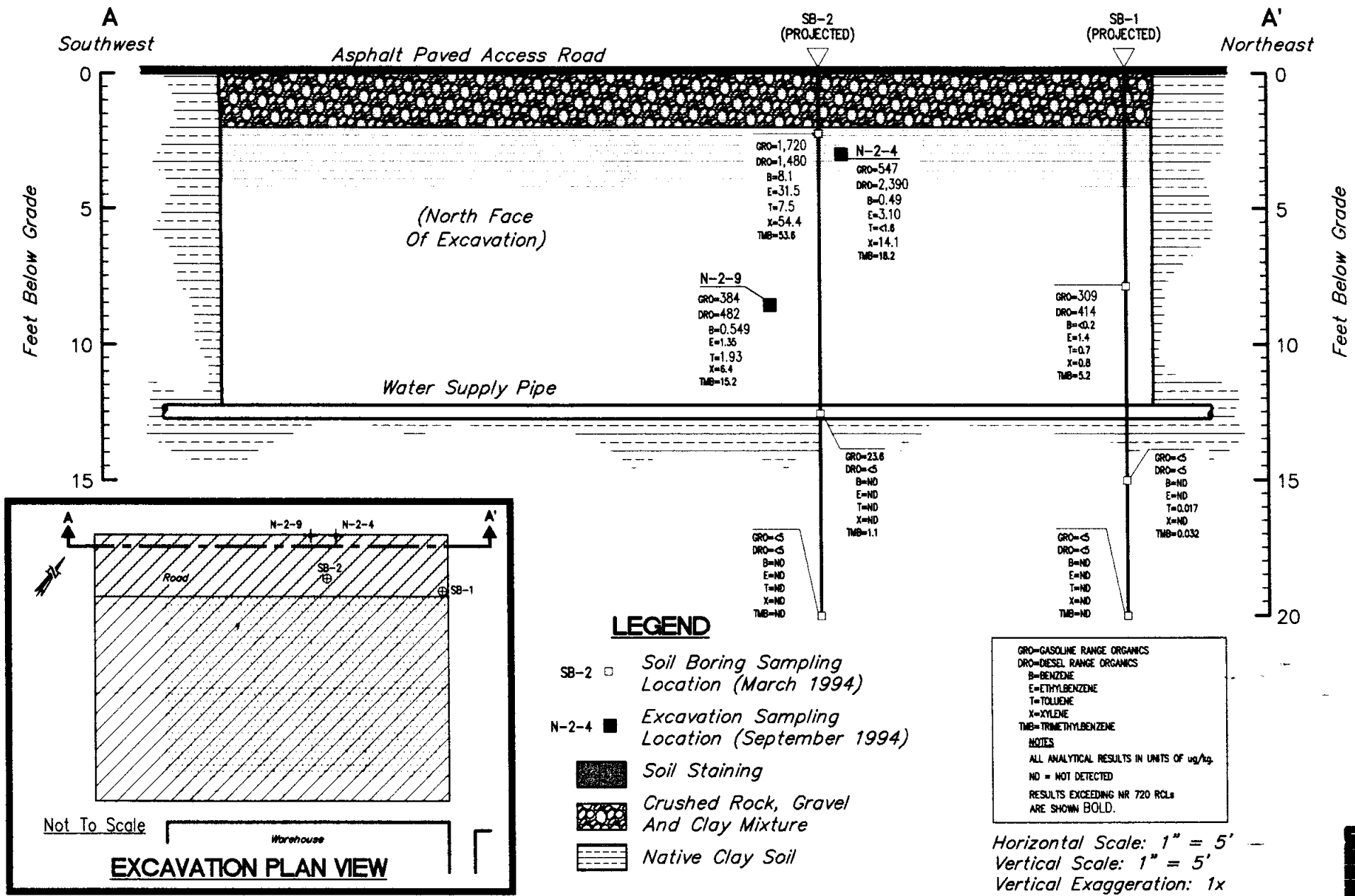
Results in bold exceed applicable NR 720 RCL.

Underlined results exceed NR 746 Table 1 (petroleum indicator levels) or Table 2 (protection of human health-direct contact) values.

All results reported on a dry-weight basis.

FOOTNOTE:

(1) The chromatograph is not distinct for diesel. It showed more characteristics of diesel than the other products to which it was compared, and was therefore calculated as diesel.



EXCAVATION CROSS SECTION/ELEVATION A-A'
- UNDER ROADWAY SITE
 MURPHY OIL USA, INC.
 SUPERIOR, WISCONSIN

MURPHY OIL USA, INC.
2400 STINSON AVENUE
SUPERIOR, WISCONSIN
"CONTAMINATED SOIL UNDER ROADWAY" SITE
BRRTS No.: 02-16-226861

I hereby state that the legal description of the Murphy Oil refinery in Superior as stated in the deed dated January 1, 1961, and included as Attachment A to this GIS Registry submittal is complete and accurate for all the property associated with the "Contaminated Soil Under Roadway" site that has soil that exceeded NR 720 and/or NR 746 standards at the time that site closure was requested.

Elizabeth Lundmark
Printed Name

Env. mgr.
Title

Elizabeth Lundmark
Signature

08/29/05
Date