

GIS REGISTRY INFORMATION

SITE NAME: AMOCO STATION

BRRTS #: 02-36-000341

CLOSURE DATE: 07/17/2002

STREET ADDRESS: 732 N. 11TH STREET

CITY: MANITOWOC

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 707125 Y= 405866

OFF-SOURCE CONTAMINATION (>ES): 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
- Location Map which outlines all properties within contaminated site boundaries in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy)
- 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)
- Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)
- Isoconcentration map(s), *if available from site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of contamination defined. **If not available, include the following 2 types of maps:**
 - Latest groundwater flow/monitoring well location map
 - Latest extent of contaminant plume map
- Geologic cross-sections, *if available from SI*. (8.5x14' if paper copy)
- RP certified statement that legal descriptions are complete and accurate
- Copies of off-source notification letters (if applicable)
- Letter informing ROW owner of residual contamination (if applicable)



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
1125 N. Military Ave., P.O. Box 10448
Green Bay, Wisconsin 54307-0448
Telephone 920-492-5916
FAX 920-492-5859
TTY 920-492-5912

July 17, 2002

Ray Stoelting
BP Products North America, Inc.
PO Box 642
Chanhassen, MN 55317-9998

SUBJECT: Final Case Closure by Committee with GIS Registry Conditions met
BP Amoco #10064, 732 North 11th Street, Manitowoc, Wisconsin
WDNR BRRTS # 02-36-000341

Dear Mr. Stoelting:

On November 11, 2000, your site as described above, was reviewed for closure by the Northeast Region 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 March 21, 2001, you were notified that the Closure Committee had granted conditional closure of this case pending the filing of a groundwater use restriction. On March 26, 2001, on Amoco's behalf, Jonathan Zimdars of Delta Environmental informed the Department that the groundwater use restriction would be satisfied using the pending GIS registry. On December 14, 2001, the Department notified you of the conditions and requirements for site closure under the GIS registry of Closed Remediation Sites.

The Department received the following submittals indicating that you have complied with the conditions of closure:

March 26, 2001	Abandonment forms for Monitoring wells MW4, MW5, and MW6
January 30, 2002	GIS registration fee
February 12, 2002	Notification of groundwater contamination to property owner
March 2, 2002	GIS packet requirements
April 4, 2002	Notification of potential residual contamination in ROW to City of Manitowoc
April 9, 2002	TCE Contour Map

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.

Mr. Ray Stoelting, July 17, 2002

Page 2

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>

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.

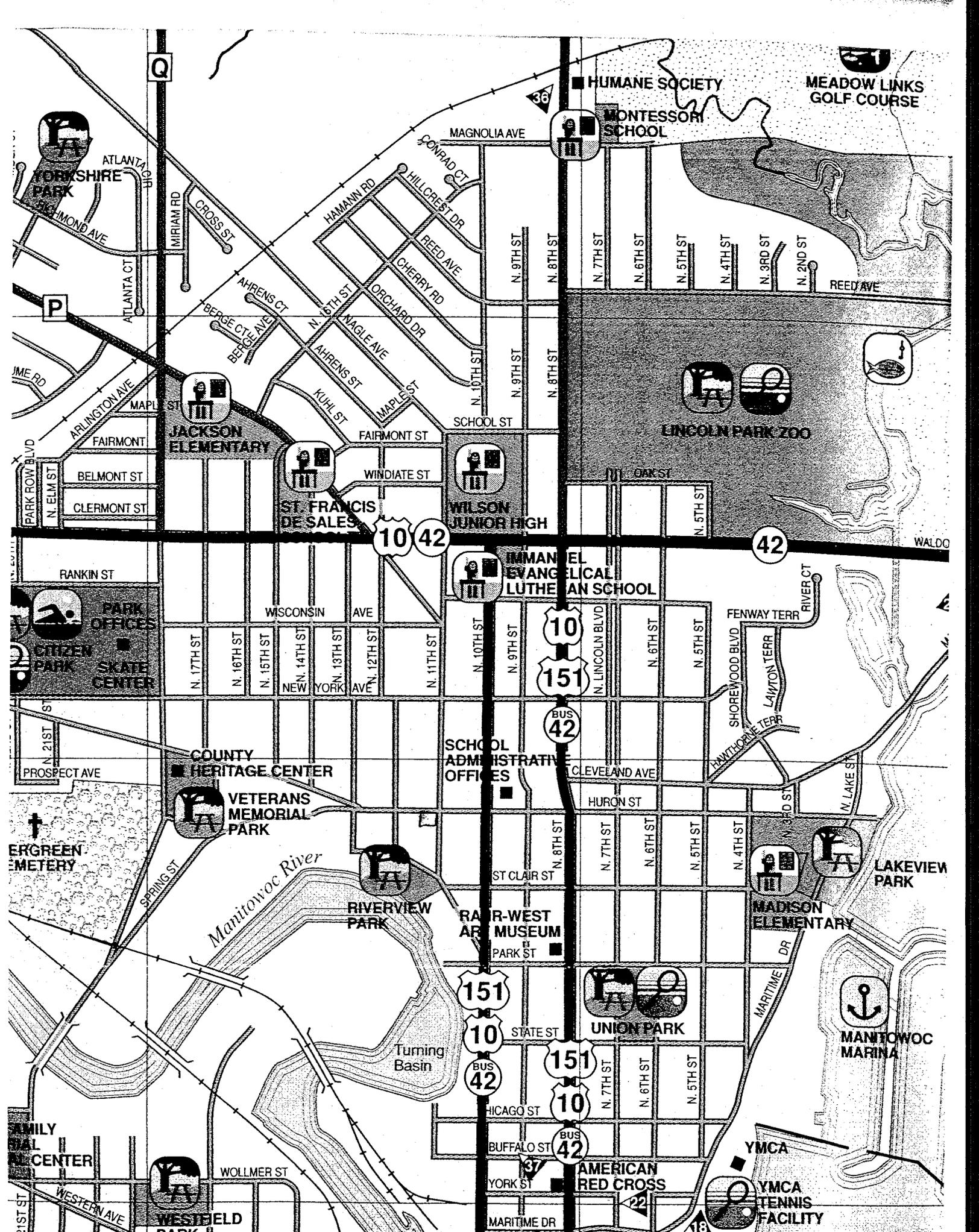
The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 920-492-5865.

Sincerely,



Annette Weissbach
Hydrogeologist
Remediation & Redevelopment Program

cc: Kurt McClung – Delta Environmental, 17500 W. Liberty Lane, Suite A,
New Berlin, 53146-2109
Mike Mellon – M³C LLC, 732 North 11th Street, Manitowoc 54220



MEADOW LINKS GOLF COURSE

HUMANE SOCIETY
MONTESSORI SCHOOL

SHIRE PARK
ATLANTA DR

ATLANTA CT

ARLINGTON AVE

FAIRMONT

PARK OFFICES
CITIZEN PARK
SKATE CENTER

PROSPECT AVE

GREEN METERY

FAMILY CENTER

WESTFIELD PARK

WESTERN AVE

WOLLMER ST

WESTERN AVE

WESTERN AVE

WESTERN AVE

MIRIAM RD
CROSS ST
BERGE CT
BERGE AVE
AHRENS CT
AHRENS ST
KUHJL ST
FAIRMONT ST
WINDIATE ST

JACKSON ELEMENTARY
ST FRANCIS DE SALES

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LEGEND:

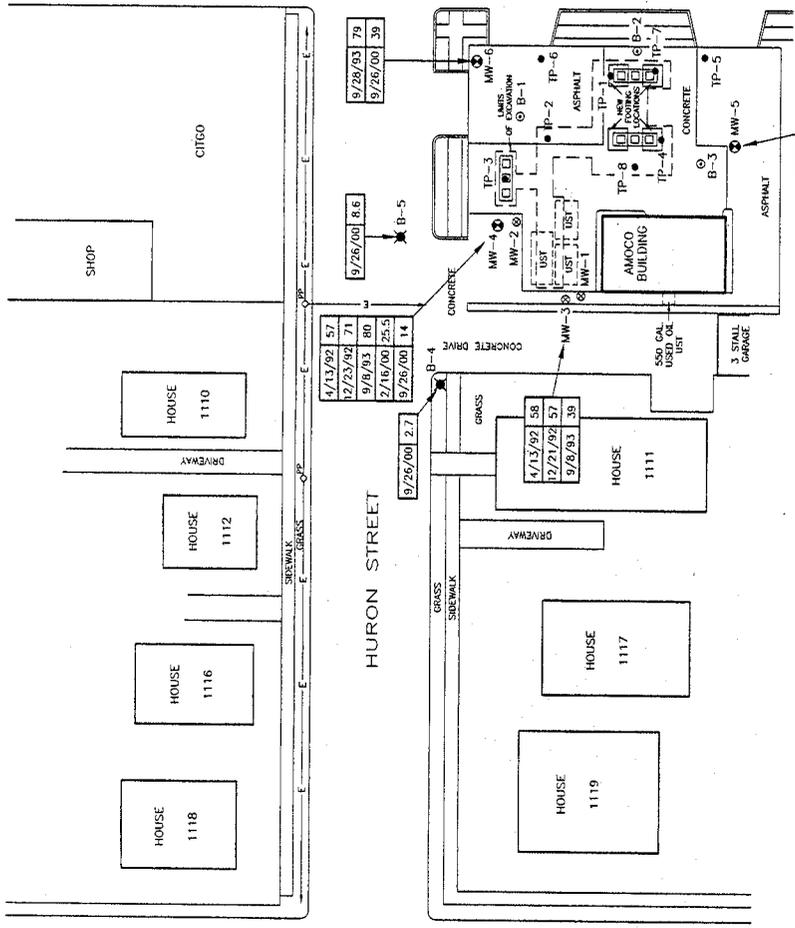
- E— OVERHEAD ELECTRIC LINE
- OP POWER POLE
- ⊙ MONITORING WELL
- ⊗ ABANDONED MONITORING WELL
- ⊗ SOIL BORING
- ⊗ RECOVERY WELL
- TEST BORING
- PUMP ISLANDS
- DATE TCE 1,1,2-TRICHLOROETHENE (ug/L)
- (ug/L) = MICROGRAMS PER LITER

FIGURE 7
TCE DISTRIBUTION MAP
AMOCO STATION NO. 10064
HURON STREET & 11TH STREET
MANITOWOC, WISCONSIN

PROJECT NO.	32137	DATE	10/25/00
PREPARED BY	JZ	REVIEWED BY	
DRAWN BY	DD	FILE NAME	32137.SW



11TH STREET (S.S. 10 & S.T.H. 101)



NOTE: FIGURE BASED ON DRAWING FROM STS CONSULTANTS, LTD. AND DELTA FIELD SKETCH.



Table 2
Groundwater Analytical Results
 Former Amoco Service Station No. 10064
 732 N. 11th St.
 Manitowoc, WI
 Delta Project No. 32137

MW-3													
Analytical Parameters											Bio Parameters		
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Total Xylenes µg/L	1,3,5 TMB µg/L	1,2,4 TMB µg/L	MTBE µg/L	GRO µg/L	TCE µg/L	Naphthalene µg/L	Lead µg/L	DO ppm	REDOX millivolts
WAC Ch. NR 140 ES	5.0	1000	700	10000	480 Combined	60			5.0	40	15		
04/13/92	<2.0	<4.0	<3.0	<6.5	NA	<5.0	NA	58	58	NA	NA	NM	NM
12/21/92	<2.0	<4.0	<3.0	<6.5	NA	<5.0	NA	57	57	NA	NA	NM	NM
09/08/93	<2.0	<4.0	<3.0	<6.5	NA	<5.0	NA	39	39	NA	NA	NM	NM
02/16/00							Abandoned 9/93						

MW-4													
Analytical Parameters											Bio Parameters		
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Total Xylenes µg/L	1,3,5 TMB µg/L	1,2,4 TMB µg/L	MTBE µg/L	GRO µg/L	TCE µg/L	Naphthalene µg/L	Lead µg/L	DO ppm	REDOX millivolts
WAC Ch. NR 140 ES	5.0	1000	700	10000	480 Combined	60			5.0	40	15		
04/13/92	<2.0	<4.0	<3.0	<6.5	NA	NA	<5.0	NA	57	NA	NA	NM	NM
12/23/92	<2.0	<4.0	<3.0	<6.5	NA	NA	<5.0	NA	71	NA	NA	NM	NM
09/28/93	<2.0	<4.0	<3.0	<6.5	NA	NA	<5.0	NA	80	NA	NA	NM	NM
02/16/00	<0.15	<0.4	<3.0	<0.4	<0.15	<0.4	<0.3	NA	25.5	<0.8	NA	4.6	289
09/26/00	<0.10	<0.10	<0.25	<0.25	<0.10	<0.10	<0.25	NA	14	<0.25	NA	NM	NM

MW-5													
Analytical Parameters											Bio Parameters		
Parameter/ Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl- benzene µg/L	Total Xylenes µg/L	1,3,5 TMB µg/L	1,2,4 TMB µg/L	MTBE µg/L	GRO µg/L	TCE µg/L	Naphthalene µg/L	Lead µg/L	DO ppm	REDOX millivolts
WAC Ch. NR 140 ES	5.0	1000	700	10000	480 Combined	60			5.0	40	15		
04/13/92	<2.0	<4.0	<3.0	<6.5	NA	NA	9.1	NA	89	NA	NA	NM	NM
12/23/92	<2.0	<4.0	<3.0	<6.5	NA	NA	19.0	NA	67	NA	NA	NM	NM
09/28/93	<2.0	<4.0	<3.0	<6.5	NA	NA	<5.0	NA	68	NA	NA	NM	NM
02/16/00	<0.15	<0.4	<0.5	<0.4	<0.15	<0.4	1.02	NA	96.5	<0.8	NA	5.2	217
09/26/00	<0.10	<0.10	<0.25	<0.25	<0.10	<0.10	0.56	NA	35	<0.25	NA	NM	NM



LEGEND:

- E — OVERHEAD ELECTRIC LINE
- OP POWER POLE
- ⊙ MONITORING WELL
- ⊗ ABANDONED MONITORING WELL
- ⊗ SOIL BORING
- ⊙ RECOVERY WELL
- TEST BORING
- PUMP ISLANDS

— SAMPLE DATE

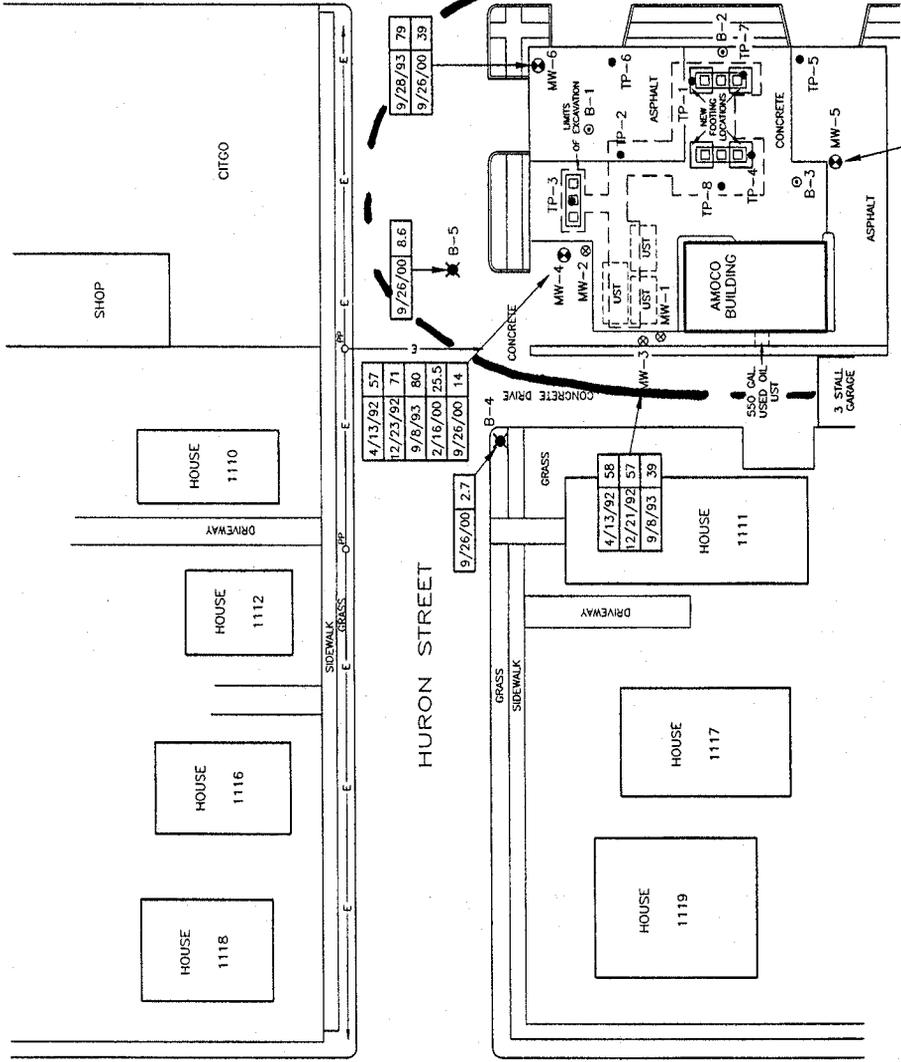
DATE TCE — 1,1,2-TRICHLOROETHENE (ug/L)

(ug/L) = MICROGRAMS PER LITER

5.0 ug/L TCE

TCE DISTRIBUTION MAP
 AMOCO STATION NO. 10064
 HURON STREET & 11TH STREET
 MANITOWOC, WISCONSIN

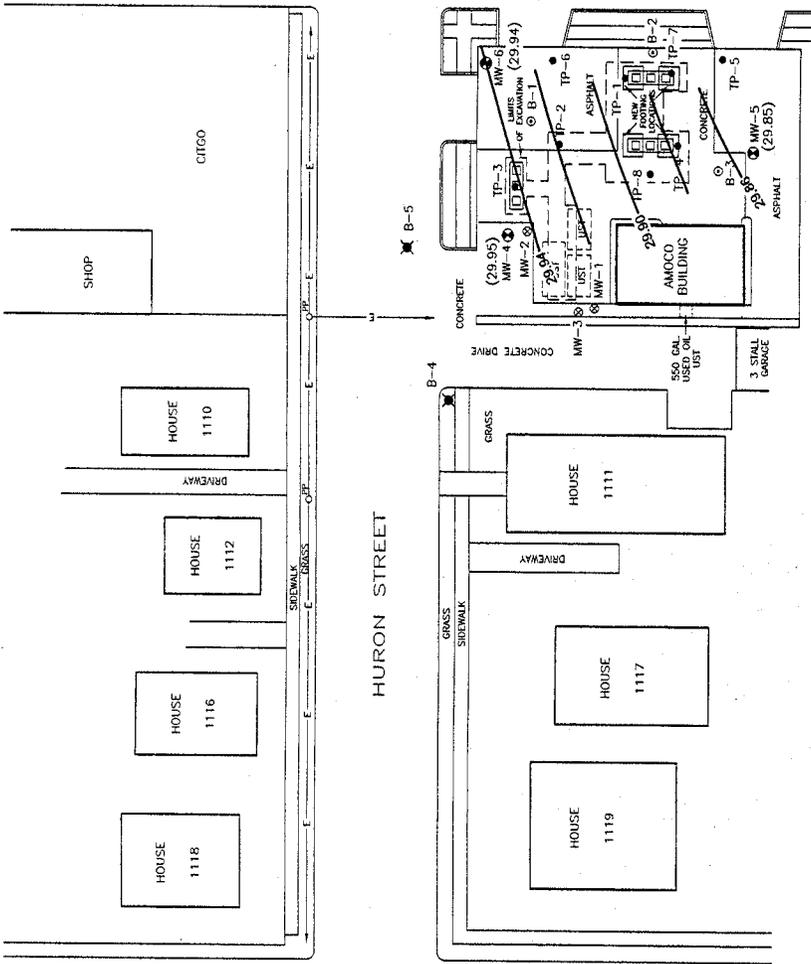
PROJECT NO. 32137	DRAWN BY JZ	FILE NAME DD
DATE 10/25/00	PREPARED BY JZ	REVIEWED BY DD
		32137SM



Since nearly all of the TCE detections are greater than 5.0 ug/L, the contour line that depicts the extent of TCE is inferred.
 NOTE: FIGURE BASED ON DRAWING FROM STS CONSULTANTS, LTD. AND DELTA FIELD SKETCH.



11TH ST. MET (U.S. 10 & 11TH, 191)



11TH ST. MET



LEGEND:

- OVERHEAD ELECTRIC LINE
- ^{OP} POWER POLE
- ⊙ MONITORING WELL
- ⊙ ABANDONED MONITORING WELL
- ⊗ SOIL BORING
- ⊙ RECOVERY WELL
- TEST BORING
- PUMP ISLANDS
- (29.95) GROUNDWATER ELEVATION (FEET)
- 29.90— GROUNDWATER CONTOUR LINE
- 0.04 FT. CONTOUR INTERVAL = 0.04 FT.

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP
 DATA COLLECTED 9-26-00
 AMOCO STATION NO. 10064
 HURON STREET & 11TH STREET
 MANITOWOC, WISCONSIN

PROJECT NO.	32137	DRAWN BY	JZ	DD
DATE	10/25/00	REVIEWED BY	JZ	DD
		FILE NAME		32137SM



NOTE: FIGURE BASED ON DRAWING FROM STS CONSULTANTS, LTD. AND DELTA FIELD SKETCH.



CERTIFICATION OF LEGAL DESCRIPTION ACCURACY

FOR

Amoco Service Station No. 10064
732 North 11th Street
Manitowoc, Wisconsin
BRRTS No. 03-36-000341 and 03-36-002025
PECFA No. 54220-3906-32
Delta No. 32137

The enclosed deed and legal description for the above-mentioned property were provided by the Manitowoc County Register of Deeds Office. According to the information available to Delta Environmental Consultants, Inc., the legal description is accurate and complete.



Delta Environmental Consultants, Inc.



Printed Name



Date



February 12, 2002

17500 W. Liberty Lane
Suite A
New Berlin, WI 53146-2109
U.S.A.
262/789-0254
FAX: 262/789-5483

Mr. Mike Mellon
Mr. Mike Coennen
M³C, LLC.
732 North 11th Street
Manitowoc, WI 54220

Certified Mail No.: 7099 3400 0003 8247 2815

Subject: Groundwater Geographic Information System (GIS) Listing Notification
Former Amoco Service Station No. 10064
732 North 11th Street
Manitowoc, Wisconsin
BRRTS No. 02-36-000341 and 03-36-002025
Commerce No. 54220-3906-32
Delta Project No. 32137

Dear Sirs:

Delta Environmental Consultants, Inc. (Delta) is issuing this letter to you on behalf of BP Products North America, Inc. (BP), formerly known as Amoco Oil Company. The purpose of this letter is to notify you of our intent to list the above mentioned property on the Wisconsin Department of Natural Resource's (WDNR's) GIS Database.

Groundwater contamination is present at your property indicated above. The levels of trichloroethene (TCE) contamination in the groundwater on your property are above the state groundwater enforcement standards found in chapter NR 140, Wisconsin Administrative Code. However, our investigation of this contamination indicates that this groundwater contaminant plume is stable or receding and will naturally degrade over time.

I believe that allowing natural attenuation to complete the cleanup at this site will meet the requirement for case closure that are found in chapter NR 726 and NR 746 Wisconsin Administrative Code, the Department of Natural Resources had accepted natural attenuation as the final remedy for this site and granted case closure. Closure means that the Department will not require any further investigation or cleanup action to be taken, other than the reliance on natural attenuation. A fact sheet is enclosed that explains natural attenuation.

Since the groundwater contamination did not occur while you owned the property, neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of this groundwater contamination, as long as you and any subsequent owners comply with the requirements of section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup if access is required. For further information on the requirements of section 292.13, Wisconsin Statutes, you may call 1-800-367-6076 for calls originating in Wisconsin, or 608-264-6020 if you are calling from out of state or within the Madison area.

The Department of Natural Resources will not fulfill my request for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the Department to provide any technical information that you may have that indicates that your property should not be listed on the GIS registry. If you would like to submit any information to the Department of Natural Resources that is relevant to our request, you should mail that information to:

Annette Weissbach
Wisconsin Department of Natural Resources
Northeast Region Headquarters
1125 N. Military Avenue
P.O. Box 10448
Green Bay, WI 54307-0448

Our intent is to list all properties within the site boundaries where groundwater contamination exceeds chapter NR 140 groundwater enforcement standards on the Department of Natural Resources' GIS Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources' internet web site. Enclosed is the part of the property deed that describes the property. Please review the legal description of your property as it is presented on the deed, and notify me within the next 30 days if the legal description is incorrect.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first call the Diggers Hotline (1-800-242-8511) if your property is located outside of the service area of a municipally owned water system, or contact the Drinking Water program within the Department of Natural Resources if your property is located within the designated service area of a municipally owned water system, to determine if there is a need for special well construction standards.

Once the Department fulfills my request to list your site on the GIS Registry, it will be documented in a letter. You may obtain a copy of this letter by requesting a copy from me, by writing to the agency address given above, or by accessing the DNR GIS Registry of Closed Remediation Sites on the internet at www.dnr.state.wi.us/org/at/et/geo/gwur. A copy of the closure letter is included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at (262) 827-4806 or you may contact Annette Weissbach at (920) 492-5916.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Kurt McClung, P.G., P.E.
Project Engineer

Attachments

c: Ray Stoelting, BP Products North America, Inc.
Annette Weissbach, WDNR



COPY

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April 4, 2002

Mr. Bill Handlos, Director of Public Works & City Engineer
City of Manitowoc
900 Quay Street
Manitowoc, Wisconsin 54220

Subject: Notification of Potential Residual Groundwater Contamination
Amoco Station No. 10064
732 North 11th Street
Manitowoc, Wisconsin
BRRTS No. 02-36-000341 & 03-36-002025
Delta Project No. 32137

Dear Mr. Handlos:

The Wisconsin Department of Natural Resources (WDNR) has granted conditional case closure to the above referenced site. As part of the conditional closure, WDNR has requested that the road owner of Huron Street be notified of potential residual groundwater impacts detected in groundwater in the right-of-way adjacent to the site. A copy of the WDNR conditional case closure letter is attached for your reference. The following information is intended to meet the notification requirement requested by WDNR.

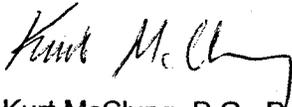
A summary table of groundwater analytical results for the monitoring wells is attached. Also attached is a figure illustrating monitoring well locations.

Groundwater impact above the NR 140 Enforcement Standards was detected in the Huron Street right-of-way at boring B-5, and at MW-4 and MW-6, located near the south side of the Huron Street right-of-way. The groundwater impact extends into the Huron Street right-of-way from 11th Street to approximately 100 feet west of the intersection of Huron Street and 11th Street. The water table is observed at approximately 65 to 70 feet below ground surface.

If you have any questions please call me at 262/827-4806.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Kurt McClung, P.G., P.E.
Project Engineer

Enclosures

c: Ray Stoelting, BP
Annette Weissbach, WDNR