

GIS REGISTRY INFORMATION

SITE NAME:	Magnus Aviation		
BRRTS # and FID #:	BRRTS #0260396729, FID #460055090		
CLOSURE DATE:	07/17/2003		
STREET ADDRESS:	N6187 Resources Drive		
CITY:	Sheboygan Falls		
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	X=	693088	Y= 369027

OFF-SOURCE CONTAMINATION (>ES): <small>(if there are more than 2 off-source properties, make a note and attach additional sheet(s))</small>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
--	------------------------------	--

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

IF YES, STREET ADDRESS 2:	_____		
GPS COORDINATES (meters in WTM91 projection):	X=	Y=	

CONTAMINATION IN RIGHT OF WAY:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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CONTAMINATED MEDIA: (Groundwater, Soil or Both?)	Soil
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<u>DOCUMENTS NEEDED:</u>	
Closure Letter, and any conditional closure letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map <i>(if referenced in the legal description)</i> for all affected properties	NA
County Parcel ID number, <i>if used for county</i> , for all affected properties	X
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)	X
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)	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), <i>if available from site investigation (SI)</i> (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:	NA
Latest groundwater flow/monitoring well location map	NA
Latest extent of contaminant plume map	NA
Geologic cross-sections, <i>if available from SI</i> . (8.5x14" if paper copy)	NA
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	NA



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Plymouth Service Center
1155 Pilgrim Road
P.O. Box 408
Plymouth, Wisconsin 53073-0408
Telephone 414-892-8756
FAX 414-892-6638

March 6, 2003

Jeff Magnus
Magnus Aviation
N6187 Resources Drive
Sheboygan Falls, WI 53085

Dear Mr. Magnus:

Subject: Conditional case closure, Magnus Aviation, N6187 Resources Drive, Sheboygan Falls, file reference FID #460055090, BRRTS #0260396729, Release of Jet-A from above ground pump

Thank you for submitting documentation for remedial action at this site. The department does not require any further investigation or remedial action at this site. However, to get final closure on this case, please submit an additional \$200 and the necessary documentation so that we can place this site on the soil Geographic Information System database due to the presence of remaining soil contamination.

I have enclosed a checklist of information that we need for the soils registry. Some of the requirements on the list are for groundwater. Ignore the items that apply to groundwater only.

If you have any questions about this letter, please call me at 920-892-8756 extension 3023.

Sincerely,

John Feeney
Wisconsin Department of Natural Resources

Cc: Alpha Terra Science, Inc.
SER File



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Dear Mr. Magnus:

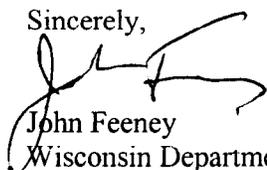
Subject: Conditional case closure, Magnus Aviation, N6187 Resources Drive, Sheboygan Falls, file reference FID #460055090, BRRTS #0260396729, Release of Jet-A from above ground pump

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Sincerely,



John Feeney
Wisconsin Department of Natural Resources

Cc: Alpha Terra Science, Inc.
SER File

724287

No. Vincent Kohlman TO Schroeder Bros., Sand & Gravel Co. Premises

Warranty Deed This Instrument should be immediately placed upon record to avoid future trouble and litigation.

REGISTER'S OFFICE, State of Wisconsin,

SHEBOYGAN County

Received for Record this 7th day of June A. D. 19 60 at 10:01 o'clock P. M., and recorded in Vol. 398 of Deeds, on page 648

Philip G. Anderson Register of Deeds

Deputy

PHILIP G. ANDERSON ATTORNEY-AT-LAW PLYMOUTH, WIS.

DOCUMENT NO. 724287

This Indenture, Made this 7th day of June A. D., 19 60 between Elton W. Strauss and Myra Strauss, his wife, part ies of the first part and County of Sheboygan, a municipal corporation, part Y of the second part,

Witnesseth, That the said part ies of the first part, for and in consideration of the sum of One Dollar and other valuable considerations to them in hand paid by the said part Y of the second part, the receipt whereof is hereby confessed and acknowledged, have given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm unto the said part Y of the second part, its successors heirs and assigns forever, the following described real estate situated in the County of Sheboygan and State of Wisconsin, to-wit:

The Northwest quarter (1/4) of the Southeast quarter (1/4) of Section fifteen (15), Town fifteen (15) North, Range twenty-two (22) east, Sheboygan County, Wisconsin, containing forty (40) acres more or less.

The Southwest quarter (1/4) of the Southeast quarter (1/4) of Section fifteen (15), Town fifteen (15) North, Range twenty-two (22) East, Sheboygan County, Wisconsin, containing forty (40) acres more or less.

The West nineteen (19) rods of the East one-half (1/2) of the Southeast quarter (1/4) of Section fifteen (15), except commencing one thousand twenty-five and seventy-five one-hundredths (1025.75) feet West of the Southeast corner of the Southeast quarter (1/4), thence West one hundred forty-five and fifty-nine one-hundredths (145.59) feet, North one (1) degree twenty-seven (27) minutes West one hundred forty-eight and forty-one one-hundredths (148.41) feet, East one hundred forty-five and fifty-nine one-hundredths (145.59) feet, thence South one (1) degree twenty-seven (27) minutes East one hundred forty-eight and forty-one one-hundredths (148.41) feet to the point of beginning, section fifteen (15), Town fifteen (15) North, Range twenty-two (22) East, Sheboygan County, Wisconsin, containing eighteen and fifty one-hundredths (18.50) acres more or less.

The purpose of this Deed is to correct the description of a deed previously recorded in vol. 391 of Deeds, pages 296/7, Document No. 724287.

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all estate right, title, interest, claim or demand whatsoever, of the said part ies of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To Have and To Hold the said premises as above described with the hereditaments and appurtenances, unto the said part Y of the second part, and to its successors heirs and assigns FOREVER. And the said Elton W. Strauss and Myra Strauss, his wife,

for themselves, their heirs, executors and administrators, do covenant, grant, bargain, and agree to and with the said part Y of the second part, its successors heirs and assigns, that at the time of the sealing and delivery of these presents they are well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever.

and that they have bargained premises in the quiet and peaceable possession of the said part Y of the second part, its heirs and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT AND DEFEND.

In Witness Whereof, the said part ies of the first part have hereunto set their hands and seals this 7th day of June A. D., 19 60

SIGNED AND SEALED IN PRESENCE OF Lester C. Weisse Feo B. Kohlhausen

Elton W. Strauss (SEAL) Myra Strauss (SEAL)

STATE OF WISCONSIN,
 Sheboygan County, } ss.
 Personally came before me, this 7th day of June, A. D., 1960
 the above named Elton W. Strauss and Myra Strauss, his wife,
 to me known to be the person^s who executed the foregoing instrument and acknowledged the same.
 Received for Record this _____ day of _____
 A. D., 19____ at _____ o'clock _____ M.
 (SEAL) _____
 Register of Deeds
 Deputy Register of Deeds
 Notary Public, Sheboygan County, Wis.
 My Commission expires Sept. 17, A. D., 1961

WARRANTY DEED—STATE OF WISCONSIN, FORM NO. 1

This instrument prepared by

ALEXANDER HOPP
Corporation Counsel

Elton W. Strauss and
Myra Strauss, his wife,

TO

County of Sheboygan, a
municipal Corporation.

WARRANTY DEED

REGISTER'S OFFICE,
STATE OF WISCONSIN,
SHEBOYGAN County.

Received for Record this 8th day of June A. D., 1960
at 2:15 o'clock P. M., and recorded
in Vol. 398 of Deeds on Page 649/9

Bay
Register of Deeds,
Deputy.

RETURN TO

DOCUMENT NO.

728782

This Indenture, Made this 27th day of May, A. D., 19 60,
 between Richard Dettmann, a single man; Andrew Dettmann and Violet F.
 Dettmann, his wife; part 1es of the first part and
 August Knoelke and Edna Knoelke, his wife, as joint tenants,
 part 1es of the second part,

Witnesseth, That the said part 1es of the first part, for and in consideration of the sum of
 Three Thousand Six Hundred Dollars----
 to them in hand paid by the said part 1es of the second part, the receipt whereof is hereby confessed and acknowledged,
 have given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant,
 bargain, sell, remise, release, alien, convey and confirm unto the said part 1es of the second part, their heirs and assigns
 forever, the following described real estate situated in the County of Sheboygan and State of Wisconsin, to-wit:

Parcel One: Part of the Southeast 1/4 of Section 8, Township 13 North,
 Range 20 East containing 0.62 acres and being described as beginning at
 a point in the center of a Town Road, said point being on the South
 line of Section 8, 501.45 feet East from the South Quarter corner,
 thence continuing East 181.36 feet, thence North 8 degrees 32 minutes
 West 166.85 feet, thence West 141.88 feet, thence South 5 degrees 06
 minutes East 165.66 feet to the South line of Section 8, and the point
 of beginning.

Also, Parcel Two: Part of the Southeast 1/4 of Section 8, Township 13
 North, Range 20 East containing 0.74 acres and being described as
 beginning at a point in the center of a Town Road, said point being
 on the South line of Section 8, 682.81 feet East of the South Quarter
 corner of Section 8, thence continuing East along the South line of
 Section 8, 191.68 feet, thence North 8 degrees 21 minutes West 166.77
 feet, thence West 192.22 feet, thence South 8 degrees 32 minutes East
 166.85 feet to the South line of Section 8 and the point of beginning.

Together with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all estate
 right, title, interest, claim or demand whatsoever, of the said part 1es of the first part, either in law or equity, either in possession or
 expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To Have and To Hold the said premises as above described with the hereditaments and appurtenances, unto the said part 1es
 of the second part, and to their heirs and assigns FOREVER.

And the said Richard Dettmann; Andrew Dettmann and Violet F. Dettmann;

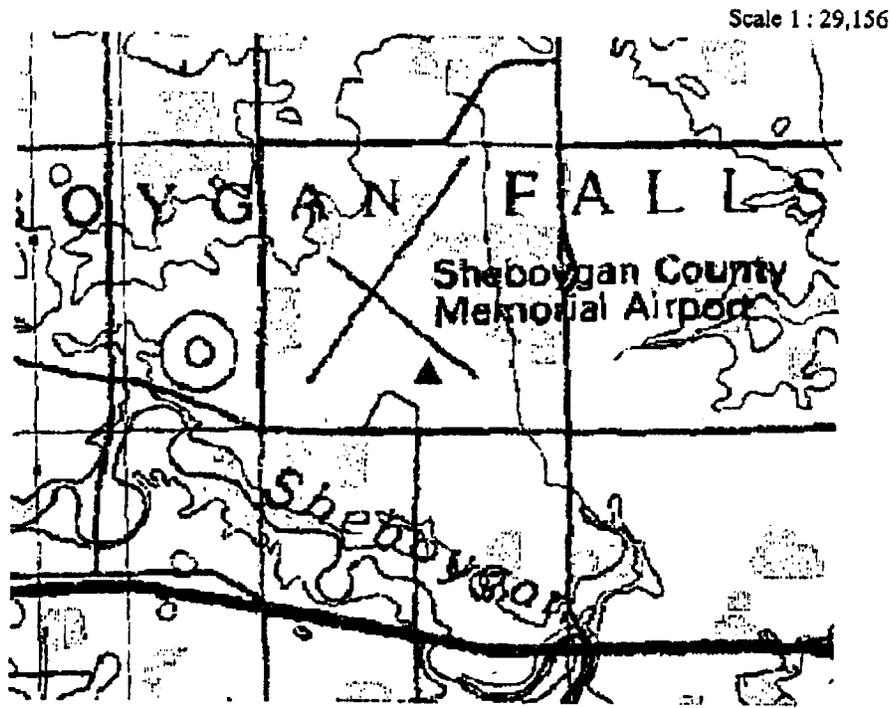
150

PARCEL IDENTIFICATION

(FID # 460055090, BRRTS # 0260396729, Release of Jet A From Above Ground Pump)

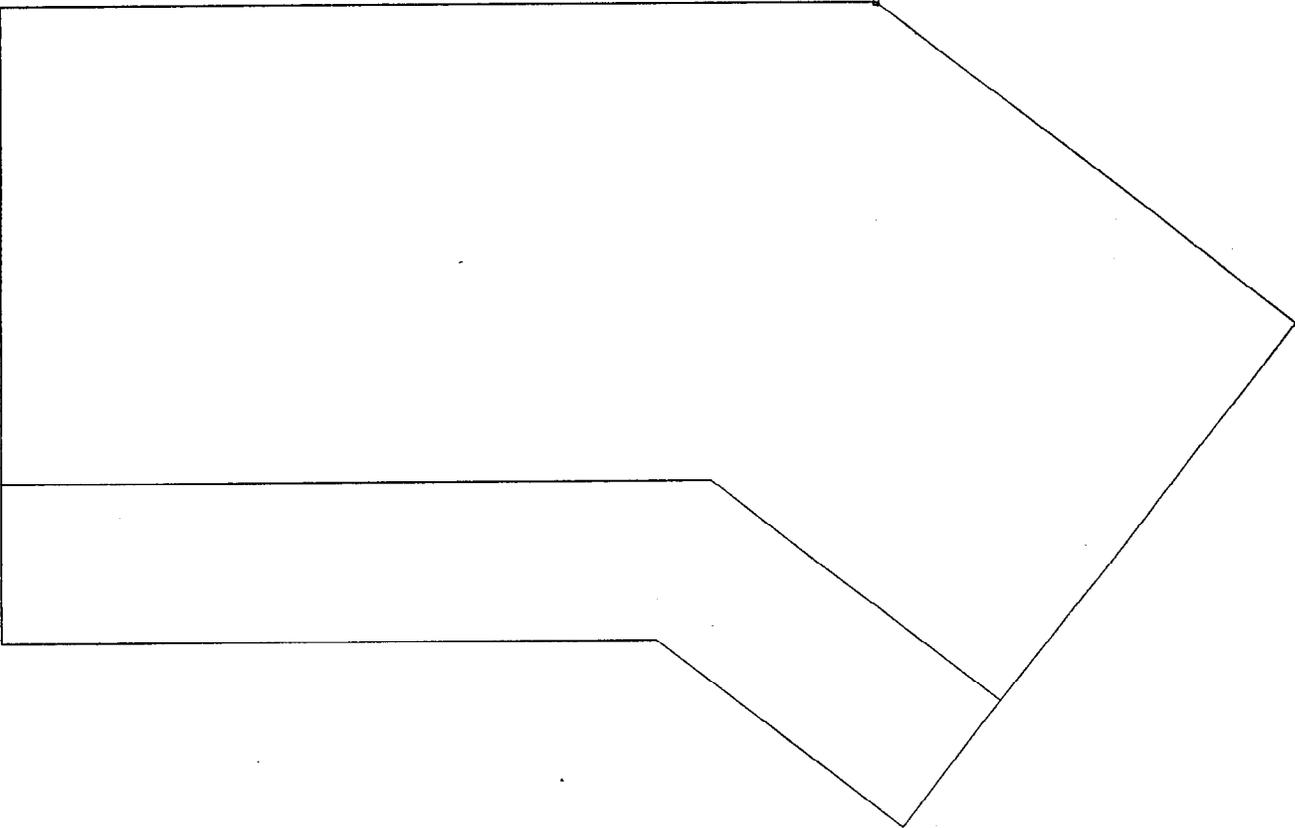
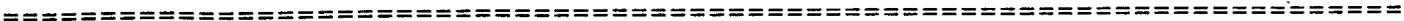
Parcel Number 1, Commercial Area: Commencing at a point which is nine hundred twenty-eight and fifty-seven one-hundredths (928.57) feet North and thirty-four and twenty-three one-hundredths (34.23) feet East of the South one-quarter (1/4) corner of Section 15, Town 15 North, Range 22 East, running thence West two hundred fifteen (215.00) feet, thence South one hundred twenty (120.00) feet, thence East one hundred seventy-three and seventy-eight one-hundredths (173.78) feet, thence South fifty-two (52) degrees four (04) minutes fifty (50) seconds East ninety-one and twenty-eight one-hundredths (91.28), thence North thirty-seven (37) degrees fifty-five (55) minutes ten (10) seconds East one hundred twenty (120.00) feet, thence North fifty-two (52) degrees four (04) minutes fifty (50) seconds West one hundred thirty-two and fifty one-hundredths (132.50) feet to the point of beginning, said tract of land containing thirty-six thousand seven hundred fifty-three and six-tenths (36,753.6) square feet, being part of the Sheboygan County [Memorial] Airport property located in Section 15, Town 15 North, Range 22 East. (Extract from Sheboygan Title Services, Incorporated, letter to the State Bank of Howards Grove dated on or about 17 April 1991.

**WISCONSIN TRANSVERSE MERCATOR (WTM) COORDINATES
(FID # 460055090, BRRTS # 0260396729, Release of Jet A From Above Ground Pump)**



WTM coordinates: 693088, 369027 (provided by Alpha Terra Science, 1237 South Pilgrim Road, Plymouth, WI 53073-4977)

Plat of Deed Calls for:
Magnus Aviation





State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Plymouth Service Center
1155 Pilgrim Rd.
P.O. Box 408
Plymouth, Wisconsin 53073-0408
Telephone 920-892-8756
FAX 920-892-6638

July 17, 2003

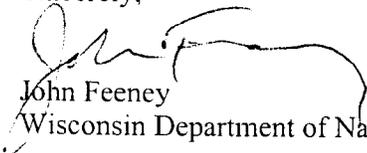
Jeff Magnus
Magnus Aviation
N6187 Resources Drive
Sheboygan Falls, WI 53085

Dear Mr. Magnus:

Subject: Final case closure, Magnus Aviation, N6187 Resources Drive, Sheboygan Falls, file reference FID #460055090, BRRTS #0260396729, Release of Jet-A from above ground pump

I received your soil GIS information package, so the department considers this case to have final closure status. If you have any questions about this letter, please call me at 920-892-8756, extension 3023.

Sincerely,



John Feeney
Wisconsin Department of Natural Resources

Cc: Alpha Terra Science
SER File

MAGNUS AVIATION
FID 460055090

CIS PKT COMPLETE

John Feecey

Checklist of Documents for GIS Registry Packet

02-60-
396 729

WI DNR, Bureau for Remediation and Redevelopment, PUB-RR-688

(Include with closure request – please assemble in this order. *This checklist applies to closure requests for sites with groundwater exceeding ch. NR 140 standards and/or soil contamination exceeding ch. NR 140 site specific residual contaminant levels (RCLs).*)

John Feecey

This is ready

to close

Michelle

- One-time fee of \$250.00 for groundwater, and/or
- \$200 for soil, for each case closed, for maintenance of the registry.
- Copies of the most recent deed including legal descriptions, for all properties within or partially within the site boundaries. (Note: If a property has been purchased with a land contract and the purchase of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the deed.)
- A copy of the certified surveyed map or the relevant section of the recorded plat map of the property (e.g. lot2 of xyz subdivision) where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.
- Parcel identification number for each property, if the county in which the property is located uses parcel identification numbers.
- Geographic position of all properties within or partially within the contaminated site boundaries. The coordinates need to be for a spot located at least 40 feet inside the property boundary. Refer to NR 716.15(2)(d)7, and (k). The coordinates must be in WTM91 projection. See the following WDNR website address for assistance: www.dnr.state.wi.us/org/at/et/geo/gwur/index.htm.
- A location map which outlines all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit the easy location of all parcels. If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200 feet of the site. (If only one parcel, combine with next item.)
- A map of all contaminated properties within site boundaries, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. This map shall also show the location of all contaminated public streets, and 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 enforcement standards, and/or in relation to the boundaries of soil contamination exceeding generic or site-specific residual contaminant levels as determined under s. NR 720.09, 720.11 and 720.19.
- A table of the most recent analytical results, with sample collection dates: from all monitoring wells, and any potable wells for which samples have been collected for groundwater, and/or showing results for all contaminants found in pre-remedial sampling and in the most recent soil sampling event, for soils (without shading/crosshatching).
- An isoconcentration map, if required as part of the site investigation (SI), of the contaminated properties within the site boundaries. The map should include the areal extent of groundwater contamination exceeding PALs and ESs, groundwater flow directions based on the most recent data, and sample collection dates. If an isoconcentration map was not required as part of the SI, substitute a map showing the horizontal extent of contamination, based on the most recent data.
- A table of the previous 4 water level elevation measurements from all monitoring wells, at a minimum, with the date measurements were made, is to be included. If present, free product is to be noted on the table. In addition, a groundwater flow direction map, representative of groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, 2 groundwater flow maps showing the maximum variation in flow direction are to be submitted.
- For sites closing with residual soil contamination, include a map showing the location of all soil samples and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds generic or site specific residual contaminant levels.
- A geologic cross section, if required as part of the SI, showing vertical extent and location of residual soil contamination exceeding generic or site specific RCLs and residual groundwater contamination, source extent and location; isoconcentrations for all groundwater contaminants that exceed PALs that remain when closure is requested; water table and piezometric elevations, and the location and elevation of geologic units, bedrock, and confining units, if any.
- A statement signed by the responsible party, which states that he or she believes that the legal descriptions attached to the statement are complete and accurate. (The point here is that the legal descriptions are describing the correct (i.e. contaminated) properties.)
- A copy of the letters sent by the RP to all owners of properties with groundwater exceeding ESs (including the current source-property owner, if the RP is not the current source-property owner.) (Off source properties are listed separately with a link to the source property.)
- A copy of all written notifications provided (to City/village/municipality/state agency or other responsible for maintenance) of a public street or highway or railroad right-of-way, within or partially within the boundaries of the contaminated site, for contamination exceeding groundwater ESs and/or soil exceeding generic or site specific RCLs.

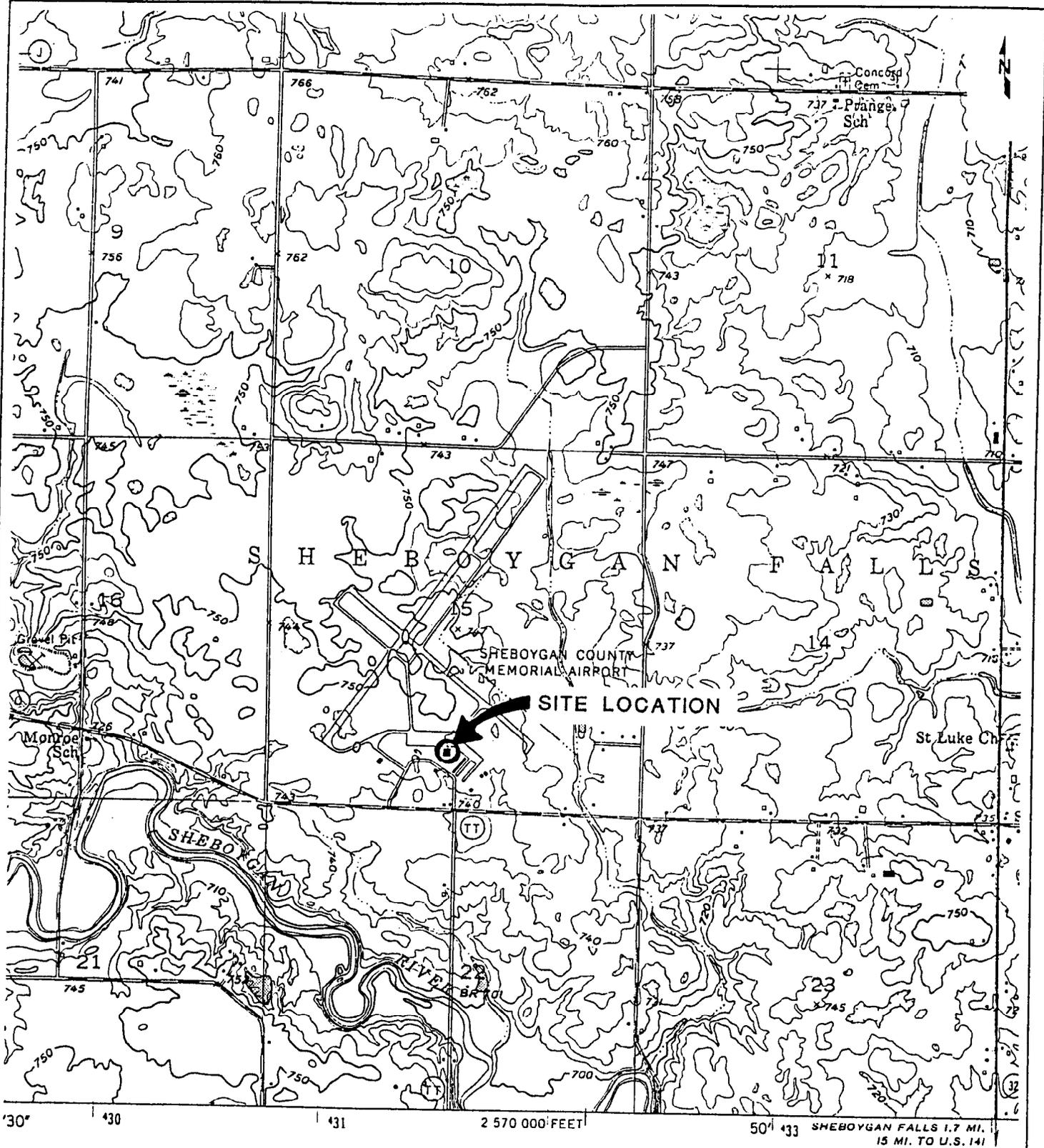
Plat of Deed Calls for:
Magnus Aviation

```
=====
Magnus
Scale :      48 ft/in
North Shift: +0
East Shift  : +0
DMS Rotated: +000.0000
..... AREA .....
Acres       : 0.844
Sq. Feet    : 36754
Sq. Meters  : 3414.5
Perimeter   : 852.56
.. CLOSING ERROR ..
Bearing:    CLOSED
Feet       : 0.00
Meters     : 0.00
Precision:  1/999999
=====
```

1. N90.0W 215
2. S0.0E 120
3. S90.0E 173.78
4. S52.05E 91.28
5. N37.55E 120
6. N52.05W 132.5

```
=====
@3
Scale :      48 ft/in
North Shift: +0
East Shift  : +0
DMS Rotated: +000.0000
..... AREA .....
Acres       : 0.231
Sq. Feet    : 10053
Sq. Meters  : 933.9
Perimeter   : 582.64
.. CLOSING ERROR ..
Bearing:    CLOSED
Feet       : 0.00
Meters     : 0.00
Precision:  1/999999
=====
```

7. @3
8. S90.0E 173.78
9. S52.04E 91.28
10. S37.55W 40
11. N52.04W 77.54
12. N90.0W 160.04
13. N0.0E 40



'30" '30 '31 2 570 000' FEET 50" '33 SHEBOYGAN FALLS 1.7 MI. 15 MI. TO U.S. 141

NOTE:

BASE MAP DEVELOPED FROM THE HOWARDS GROVE, WISCONSIN 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP.



QUADRANGLE LOCATION
SE1/4 SW1/4 SEC.15 T.15N., R.22E.

SCALE (FEET): 0 2000

DRAWN BY: KRK APPROVED BY: DATE: 9/16/98 PROJECT #980180.00 REVISION #	FIGURE #1 DETAIL SHEET SITE LOCATION MAGNUS AVIATION SHEBOYGAN FALLS, WISCONSIN <hr/> A D V E N T ENVIRONMENTAL SERVICES, INC.
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TABLE 1
SOIL ANALYTICAL RESULTS - SELECTED VOC PARAMETERS
MAGNUS AVIATION, SHEBOYGAN FALLS, WI

Sample ID	Depth (feet)	PID Reading (su)	DRO (mg/kg)	Benzene (ug/kg)	Ethylbenzene (ug/kg)	Toluene (ug/kg)	Xylenes (ug/kg)	MTBE (ug/kg)	1,2,4 TMB (ug/kg)	1,3,5 TMB (ug/kg)	Naphthalene (ug/kg)
Removed Soil											
#1 Floor	0-1'	358	44,500	<4,210	21,600	<4,210	101,000	<4,210	192,000	66,100	68,500
2 Floor Center	2.5'	58	NA	NA	NA	NA	NA	NA	NA	NA	NA
3 E Wall	1-2'	111	NA	NA	NA	NA	NA	NA	NA	NA	NA
4 N Wall	1-2'	167	NA	NA	NA	NA	NA	NA	NA	NA	NA
5 E Wall	1'	236	NA	NA	NA	NA	NA	NA	NA	NA	NA
6 Floor Center	3.5'	53	NA	NA	NA	NA	NA	NA	NA	NA	NA
10 W Floor	3'	234	NA	NA	NA	NA	NA	NA	NA	NA	NA
Remaining Soil											
#7 S. Wall	1-2'	290	2,830	<158	<158	<158	<215	<158	2,150	860	882
#9 E. Wall	1-2'	4	<6.1	<46	<46	<46	<63	<46	<46	<46	<46
#11 W. Wall	1-2'	0	<5.7	<34	<34	<34	<48	<34	<34	<34	<34
#12 N. Wall	1-2'	166	4,300	<33	<33	<33	<45	<33	478	406	657
#13 Floor	4'	4	<6.3	<38	<38	<38	<53	<38	<38	<38	<38
8 E Floor	2.5'	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
14 W Floor	4'	5	NA	NA	NA	NA	NA	NA	NA	NA	NA
NR 720 Residual Contaminant Levels			100 / 250*	5.5	2900	1500	4100	NS	NS	NS	NS
WDNR PAH Guidance, Theoretical Leach to Groundwater			NA	NA	NA	NA	NA	NA	NA	NA	400
WDNR PAH Guidance, Inhalation Risk: Non-Industrial			NA	NA	NA	NA	NA	NA	NA	NA	20000
WDNR PAH Guidance, Inhalation Risk: Industrial			NA	NA	NA	NA	NA	NA	NA	NA	110000
NR 746 Soil Screening Levels: Potential Free Product			NS	8500	4600	38000	42000	NS	83000	11000	2700
NR 746 Direct Contact Levels (top 4')			NS	1100	NS	NS	NS	NS	NS	NS	NS

Notes:

Xylenes reported as total of m-, o-, p-xylenes

TMB= trimethylbenzene

NS = No standard established

BOLD indicates exceedance of NR 720 generic residual contaminant level.

*: Generic Standard is 100 for soil with hydraulic conductivity greater than 10^{-6} cm / sec, 250 if conductivity less than 10^{-6} cm / sec

ASPHALT
PARKING LOT

MAGNUS AVIATION GARAGE AREA

ASPHALT

LOCATION OF 400-GALLON
WASTE OIL UST

MAGNUS AVIATION HANGER

FORMER PUMP DISPENSING PAD

SS-1

PIPING

EXCAVATION LIMIT

SS-6

SS-2

MW-4

FORMER 4,000-GALLON DIESEL FUEL UST

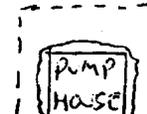
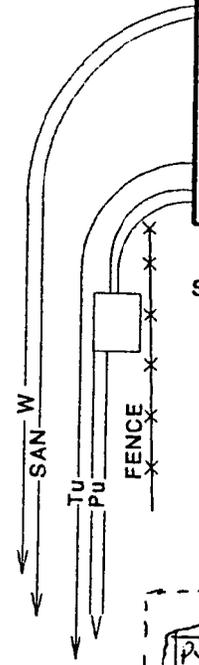
MW-2

SS-5

SS-3

SS-4

MW-3



JETA
RELEASE

UST

EXCAVATION LIMIT
OCT 2002
(APPROX. SCALE)

LEGEND:

- MW-1 MONITORING WELL LOCATION AND NUMBER
- SS-1 SOIL SAMPLE LOCATION AND NUMBER
- SAN SANITARY SEWER UTILITY
- W WATER UTILITY
- Pu UNDERGROUND POWER UTILITY
- Tu UNDERGROUND TELEPHONE UTILITY

SCALE (FEET): 0 20

DRAWN BY: KRK
 APPROVED BY:
 DATE: 5/3/00
 PROJECT #980180.02B
 REVISION #

FIGURE #2 DETAIL SHEET
 EXCAVATION AND SOIL SAMPLE LOCATIONS
 MAGNUS AVIATION
 SHEBOYGAN FALLS, WISCONSIN

A D V E N T
 ENVIRONMENTAL SERVICES, INC.

NOTE: MODIFIED BY ALPHA TERRA SCIENCE 12-9-02

LEGEND

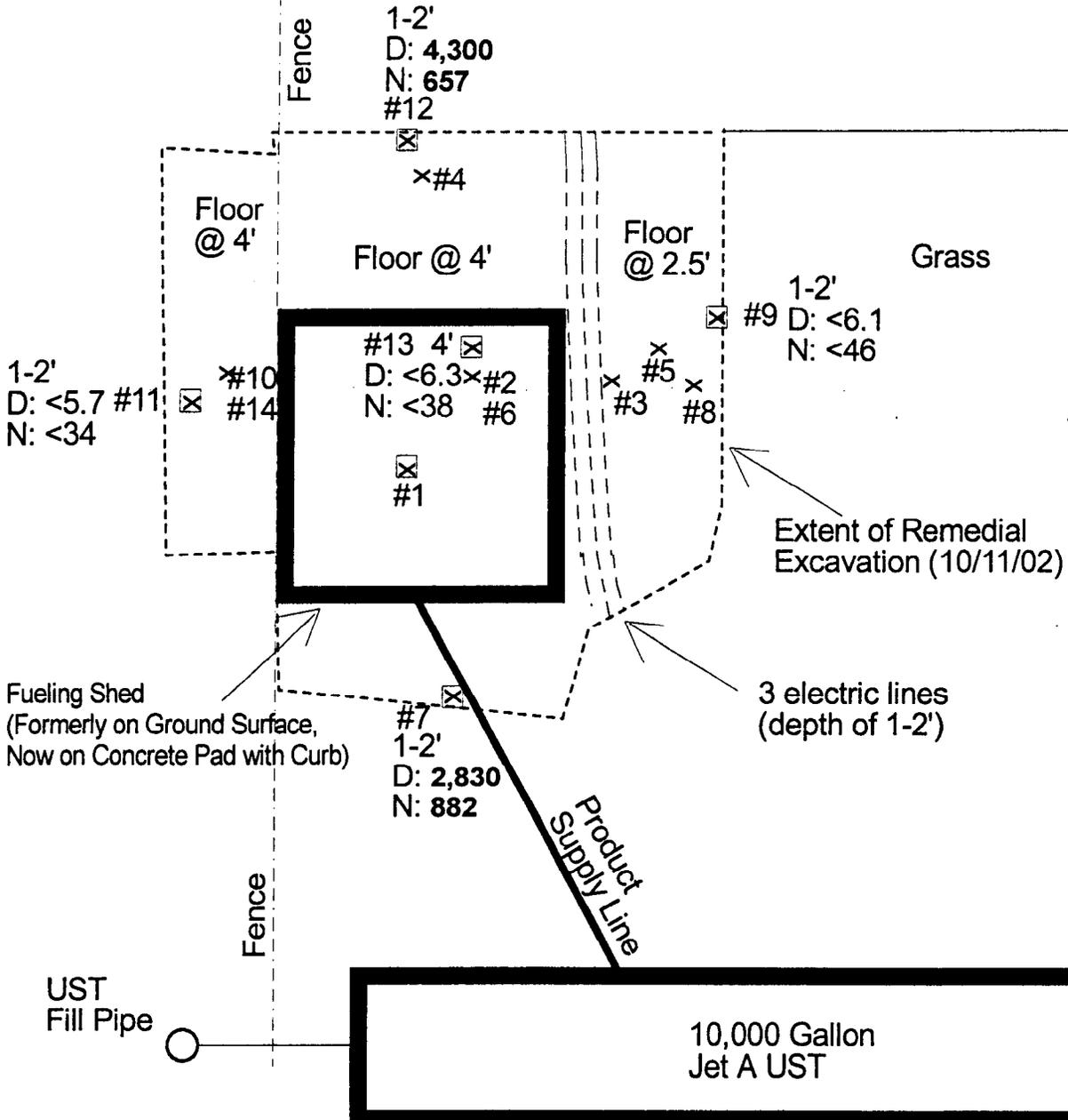
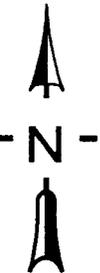
- × Location of Soil Sample for PID Analysis
- ⊠ Location of Soil Sample for Lab Analysis
- #11 Sample Number
- 1-2' Sample Depth
- D: 2,830 DRO result mg/kg (ppm)
- N: 882 Naphthalene result ug/kg (ppb)
- NA Not analyzed for parameter

Approximate
Extent of
Remedial
Excavation in
2000

Gravel

SS-4
6'
D: 277
N: NA

Asphalt



SOIL SAMPLE LOCATIONS AND SOIL
CHEMISTRY RESULTS: POST-EXCAVATION
Magnus Aviation, Sheboygan Falls, WI



DATE	DESCRIPTION	APPVD

SCALE: 1" = 5'

DATE: 12/202
DWG #: soilchem.srf
Drawn By: KAE
FIGURE 3

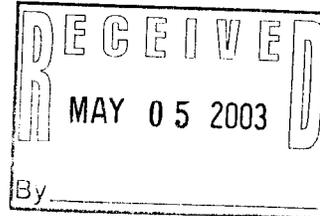
→ Michelle Williams HQ
GIS package



Western Shore Aviation

Western Shore Aviation
N6187 Resource Drive
Sheboygan Falls, Wisconsin 53085-2348
(920) 467-6151
(920) 467-1337 (fax)
www.westernshoreaviation.com

22 April 2003



State of Wisconsin
Department of Natural Resources
Attn: Mr. John Feeney
Plymouth Service Center
P.O. Box 408
Plymouth, Wisconsin 53073-0408

Dear Mr. Feeney,

Subject: Conditional Case Closure, Magnus Aviation, N6187 Resource Drive, Sheboygan Falls,
File Reference FID # 460055090, BRRTS # 0260396729, Release of Jet Fuel From Above
Ground Pump

Reference: Your Letter of 6 March 2003

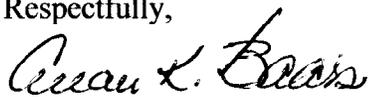
1. Since initial hazardous substance release fax notification to the Department of Natural Resources on 27 September 2002, Magnus Aviation, Incorporated, changed ownership and was renamed Western Shore Aviation.
2. Neither Western Shore Aviation nor its predecessor businesses own the property affected by Jet A fuel contamination. Sheboygan County owns the airport as evidenced by the deed at enclosure 1.
3. There is no certified survey map of the airport. We contacted the Sheboygan County Memorial Airport manager, Mr. Charles Mayer, N6180 Resource Drive, Sheboygan Falls, Wisconsin 53085-2348 and the Sheboygan County Register of Deeds, including the Real Estate Office, at 508 New York Avenue, Sheboygan, Wisconsin 53081-4126.
4. Western Shore Aviation leases the property upon which it is located from the Sheboygan County Memorial Airport. A description of the leasehold parcel is provided at enclosure 2.
5. The geographic position of the contamination site is provided in Wisconsin Transverse Mercator 91 (WTM91) coordinates at enclosure 3.

6. The location plat for Magnus Aviation, predecessor to Western Shore Aviation, is provided at enclosure 4.

7. Enclosure 5 includes all correspondence to and from the Department of Natural Resources relative to the subject spill. Contained therein, particularly in the 5 December 2002 Alpha Terra Science letter to the Department of Natural Resources, are detailed maps of contamination within the Western Shore Aviation leasehold parcel as well as requisite tables of analytical results.

8. I hereby certify by my signature below that the legal descriptions enclosed hereto are complete and accurate.

Respectfully,



ALLAN K. BAARS
Projects Manager

Enclosures:

1. Sheboygan County Memorial Airport Deed
2. Western Shore Aviation Parcel Description
3. WTM91 Contamination Site Coordinates
4. Leasehold Parcel Plat
5. Correspondence



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region
2300 N. Dr. Martin Luther King, Jr. Drive
P O Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TTY 414-263-8713

February 7, 2003

Magnus Aviation
Jeffrey Mohr
N6187 Resource Dr.
Sheboygan Falls, WI 53085

Subject: Fee Notice/Invoice for Magnus Aviation, Inc., N6187 Resource Rd., Sheboygan Falls, WI

FID: 460055090

BRRTS: 02-60-396729

Dear Mr. Mohr:

On December 11, 2002 the Wisconsin Department of Natural Resources received the following submittal, for which you requested review, or which by code requires a review and fee:

- Site Investigation Work Plan
Site Investigation Report
Remedial Action Options Report
Remedial Design Report
Construction Documentation Report
Injection/Infiltration Request
Landspreading Request
Operation & Maintenance Report
Long-Term Monitoring Plan
Closure Request
NR 720.19/ Soil Standards Report
X NR 708 (c) No Further Action Request
Other:

This submittal requires a \$250.00 fee in order to receive review and response from the DNR. Please make the check payable to: State of Wisconsin, Department of Natural Resources, and send it to the Program Assistant's attention at the address shown in the above header.

We will hold your submittal until your check arrives or you notify us that the review is no longer requested. Once we receive the check, we will enter the case on our first-in-first-out (FIFO) review list; effective on the date we receive your request. If we don't hear from you after a month we will place your submittal, un-reviewed, in our case file.

Please return this letter with your submittal.

WESTERN SHORE AVIATION INC.
N6187 RESOURCE DR.
SHEBOYGAN FALLS, WI 53085

1043

79-57-816
759

DATE 2-13-03

PAY TO THE ORDER OF The Dept of Natural Resources \$250.00
Two hundred fifty DOLLARS



Carol Seines

001043 075900575 2203 011 909



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TTY 711

January 28, 2003

FID: 460055090
BRRTS: 02-60-396729

Magnus Aviation, Inc.
Jeffrey T. Mohr
N6187 Resource Dr.
Sheboygan Falls, WI 53085

Subject: Reported Contamination at Magnus Aviation, Inc., N6187 Resource Dr., Town of Sheboygan Falls, WI

Dear Mr. Mohr:

On September 27, 2003, Magnus Aviation, Inc., Tim Wasmer, on behalf of Magus Aviation, Inc., notified the Department of Natural Resources (WDNR) that soil contamination, concrete/asphalt contamination and possible contained/recovered contamination had been detected at the site listed above.

Based on the information submitted to the WDNR, we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law.

This letter describes your legal responsibilities, explains what you need to do to investigate, and clean up the contamination; provides you with information about cleanups, environmental consultants, and possible financial assistance; and explains how you can work cooperatively with the Department of Natural Resources and Department of Commerce ("Commerce").

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

- **RESPONSIBILITY.** A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code chapters NR 700 through NR 749 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:

The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first three steps to take:

1. Within the next **30 days**, you must submit written verification (such as a letter from the consultant) that you have hired an environmental consultant.
2. Within the next **60 days**, your consultant must submit a work plan and schedule for the investigation. The consultant must follow the Department's administrative codes and technical guidance documents. To facilitate prompt agency review of your reports, your consultant should use the site investigation and closure formats which are available on-line at www.dnr.state.wi.us.

Once an investigation has established the degree and extent of contamination involved at your site, your consultant will be able to determine whether Commerce or the Department of Natural Resources has authority over the case.

3. Within 30 days of completion of the site investigation, you or your consultant must provide a site investigation report per s. NR 716.15. As the remedial activities proceed, you or your consultant should also provide a brief progress report at least every 90 days per s. NR 724.13(3). Should conditions at your site warrant, we might require more frequent contacts.
4. Sites where discharges to the environment have been reported are entered into the Bureau for Remediation and Redevelopment Tracking System (BRRTS), a version of which appears on the Department's Internet site. You may view the information related to your site at any time (<http://www.dnr.state.wi.us/org/aw/rr/brrts>) and use the feedback system to alert us to any errors in the data.

If you want a formal response from the Department on a specific submittal, please be aware that a review fee is required in accordance with ch. NR 749, Wis. Adm. Code. If a fee is not submitted with your reports, you should proceed under the advice of your consultant to complete the site investigation to maintain your compliance with the spills law and chs. NR 700 through NR 749. **Do not delay the investigation of your site by waiting for a Department response.** We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

All correspondence regarding this site should be sent to:

Victoria Stovall, Program Assistant
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee, WI 53212

Unless otherwise requested, please send only one copy of plans and reports. To speed processing, correspondence should reference the BRRTS and FID numbers (if assigned) shown at the top of this letter.

Additional Information for Site Owners:

Information to help you select a consultant, and materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method are enclosed. In addition, *Fact Sheet 2, Voluntary Party Remediation and Exemption from Liability* provides information on obtaining the protection of limited liability under s. 292.15, Stats.

Financial Assistance:

Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for some of the costs of cleaning up contamination from eligible petroleum storage tanks. Please refer to the enclosed information sheet entitled "*Information about PECFA*" for more information on eligibility and regulations for this program. For more information on the PECFA program, please call the Department of Commerce at 608-266-2424 or visit their web site at:

<http://www.commerce.state.wi.us/COM/Com-Petroleum.html>.

Funding is also available for cleanup at some drycleaning sites. Call the DNR Victoria Stovall, Program Assistant at (414) 263-8688 for more information on eligibility or visit the RR web site. <http://www.dnr.state.wi.us/org/aw/rr>. You may also contact this person for all other questions regarding this letter.

Thank you for your cooperation.

Sincerely,

Victoria Stovall ^{MT}

Victoria Stovall
Program Assistant
Remediation & Redevelopment Program
Southeast Region

- Enclosures:
1. Fact Sheet
 2. Selecting a consultant
 3. Fact Sheet 2, VPLE
 4. Env. Services Contractors List
 5. Ordering inf. On Underground Storage Tank

→ cc: Magnus Aviation, Inc. – Tim Wasmer
Alpha Terra Science – Ken Ebbott
WDNR SER Files



Magnus
Aviation

To: WDNR
Attn: R&R Program Assistant
FAX: (414) 263-8483
Date: September 27, 2002
From: Magnus Aviation, Inc.
Re: Release Notification

To Whom It May Concern:

Attached please find a Hazardous Substance Release Notification reporting a spill of jet fuel in accordance with (ch. 292 Wis. Stats.).



December 5, 2002

Alpha Terra Science, Inc.
1237 S. Pilgrim Road, Plymouth, WI 53073
TEL 920/892-2444 FAX 920/892-2620
E-mail-alphaterra@alphaterra.net

COPY

Ms. Victoria Stovall
Program Assistant
Wisconsin Department of Natural Resources
PO Box 12436
Milwaukee, WI 53212

RE: Closure Request, Post-Excavation Soil Chemistry Results, Magnus Aviation Release of Jet A Fuel from Aboveground Pump, N6187 Resources Drive, Sheboygan Falls, WI

Dear Ms. Stovall:

Attached please find three figures and one table that show the site location and soil chemistry at the above-referenced facility. With the exception of two small, shallow areas of residual contamination containing diesel range organics (DRO) and naphthalene, all contaminated soil from the release was excavated and removed.

Site Conditions

The spill occurred at the Sheboygan County airport (Figure 1) within a fenced area south of the main terminal / garage building (Figure 2). The airport is owned by Sheboygan County, but the fueling system is owned and operated by Magnus Aviation. The area is flat-lying, with surface cover of asphalt to the north, cement beneath the new pumping building, and grass to the south, east, and west.

Site Location and Previous Environmental Activities

The site address is N6187 Resources Drive, Sheboygan Falls, Wisconsin. The leak occurred from an above-ground pump attached to an underground tank located approximately 50 feet south of the Magnus Aviation garage area building (Figure 2).

Previous environmental investigation and remediation occurred on the property approximately 15 to 20 feet north of the spill. The previous activities were related to a release from a former 4,000 gallon diesel fuel UST located adjacent to the south side of the Magnus Aviation garage area building. Advent Environmental Services, Mequon, completed the previous remediation project. Weaned the relevant identification numbers include the BRRTS # 03-60-200288 and the WDNR FID # 460055090.

A remedial excavation was completed in this area in April 2000, when 509 tons of diesel fuel contaminated soil was removed for landfill disposal. Post-excavation soil sampling and groundwater sampling was then completed which demonstrated minimal residual contamination. The case was closed by the Wisconsin Department of Commerce (WDCOM) in July 2001 with a preventive action limit exceedence exemption for benzene (Attachment D). The monitoring wells were abandoned, and no further action has been required. The environmental activities completed for the former 4,000 gallon diesel UST provides valuable information on the site conditions.

Release and Remedial Action

In early October 2002, a release of an unknown quantity of Jet A fuel occurred at the above-referenced facility. The release was from an aboveground pump that lies approximately 15 feet north of a 10,000 gallon underground storage tank. Leakage from the gasket of the pump inlet spilled on the earthen floor of the pumping building. The petroleum migrated from the building in all directions, with surface staining and odors present within approximately 1 to 2 feet of the edge of the building. Soil excavation with a shovel was attempted by Magnus staff to contain and remove the contamination, but after minimal excavation, it was apparent further effort would be required to properly address the situation.

The release quantity was not monitored, but was expected to exceed the de minimus exemption reporting requirement of 5 gallons on an impervious surface. A release was reported to the WDNR on October 2, 2002, and areas of obvious surface contamination were covered with plastic until remedial activities could be arranged.

On October 11, 2002, the building was removed and the contaminated soil was excavated and discarded at Waste Management's Ridgeview landfill in Whitelaw. Clearwater Technologies, Plymouth, WI completed the remedial dig. Approximately 39.87 tons of soil was removed for use in the biopile at the landfill. Evidence of disposal is included in Attachment A.

Alpha Terra Science personnel evaluated the excavation limits during the dig. The excavation extended to a depth of 4 feet in the center of the dig, and to 2.5 feet in the east. Soil samples were obtained during the excavation for field screening with a photoionization detector, and five soil samples from the excavation perimeter and floor were obtained for final limit laboratory analysis. The samples were analyzed for DRO, PVOCs plus naphthalene, and PAHs.

A complete copy of the analytical results can be found in Appendix A. The waste disposal documentation can be found in Appendix B. The site has been backfilled with clean fill and restored. A concrete floor with a 4 inch high curb was installed to contain any potential future releases from the pumping system. The building was replaced on the new concrete pad, the pump was repaired, the gasket restored, and the system is back in service.

Soil Chemistry

The remedial excavation limits and final perimeter chemistry results are mapped on Figure 3. The excavation extended roughly 16 feet square and was roughly centered on the 8 foot square pump building. Table 1 summarizes the field and analytical results obtained during the remedial dig.

The results indicate highly contaminated soil was removed from the area. Sample # 1, representing the removed soil, contained 44,500 ppm DRO. The removed soil also contained concentrations of ethylbenzene, xylenes, and naphthalene above the NR 720 generic residual contaminant levels. Analysis of PAHs also indicates the presence of elevated concentrations of several compounds. Assuming all 39.87 tons of removed soil contained only half the concentration of contamination present in Sample # 1, the removed soil contained 1,775 pounds of DRO (petroleum). Assuming a density of approximately 8 pounds per gallon for the material, approximately 220 gallons of product was recovered.

Screening of samples with the PID was used as a tool to evaluate how deep the excavation should proceed. The PID results are shown on Table 1 and indicate that soil at a depth of 2 to 3.5 feet still contained detectable field readings of VOCs, so the excavation was deepened to 4 feet beneath the building. To the east, the base of the excavation extended to 2.5 feet, as the field PID readings indicated clean conditions at that depth.

The laboratory analytical results from the floor of the excavation demonstrate no residual contamination persists at a depth of 4 feet below grade. Sample #13 indicates the clean conditions on the excavation base, with no detectable concentrations of DRO PVOCs, or PAHs. This sample was obtained near the location of the former pump, where the contamination was expected to have penetrated to the greatest depth.

The excavation perimeter walls were sampled as the excavation progressed, typically at a depth of 1 to 2 feet. To the east and west, the excavation was widened until field PID results and odors demonstrated limited residual contamination. Final limit soil samples for laboratory analysis were retained from the four walls at a depth of 1 to 2 feet. The results indicate clean conditions on the east and west walls, and residual contamination persists on the north and south walls.

To the north and south, the excavation was limited by site constraints. To the north, asphalt covered the ground surface, and it was not considered warranted to remove the asphalt to access a small amount of remaining spilled Jet A fuel on the periphery of the affected excavation area. Although not directly evaluated, the limit of the spread of contamination further north is anticipated to be minimal, as the excavation walls to the east and west extend approximately as far from the release area as the excavation to the north, and the east and west walls tested clean.

To the south, the product supply lines and the 10,000 gallon UST are present. Further excavation in this direction was not warranted due to the risk of damage to the piping or the

fiberglass UST. Again, although not directly evaluated, the limit of the spread of contamination further south is anticipated to be minimal, as the excavation walls to the east and west extend approximately as far from the release area as the excavation to the south, and the east and west walls tested clean.

Residual contamination at these areas includes detections of elevated levels of DRO (2,830 to 4,300 ppm) and a slightly elevated concentration of naphthalene above the generic WDNR guidance limit for the potential leaching to groundwater. As shown on Table 1, no individual PVOC compounds are present in the soil above NR 720 levels of concern.

Geology and Hydrogeology

The subsurface soil consists of approximately one foot of fill underlain by silty clay topsoil and subsoil to the base of the excavation at 4 feet. Geologic materials described by Advent for the environmental testing and clean-up adjacent to the spill are described as consisting primarily of silty clay with trace amounts of sand and gravel to a depth of 8 feet, where a saturated sand and gravel layer was present. Below 10 feet, stiff silty clay was present to the base of most boreholes at a depth of 15 feet. Based on the site water supply well log, the depth to bedrock is estimated at 115 below grade, and it consists of Silurian-age dolomite.

According to Advent, the depth to groundwater is approximately 5 to 7 feet below grade, and the groundwater flow direction is to the south or southeast.

Potential Contaminant Receptors

Potential contaminant receptors in the vicinity of the site are few. The soils encountered during the excavation consisted of high plasticity silty clay, which extends to a depth of approximately 8 feet below grade. Groundwater was not encountered during the remedial dig, which terminated at a depth of 4 feet. Clean soil chemistry results are present at the excavation base. The depth to groundwater is approximately 5 to 7 feet below grade. The petroleum contamination ended before the water table surface was encountered.

Most of the petroleum contamination has been excavated and removed, so there is no longer a significant source of contamination present at the site. What little contamination remains present is found in soil at a depth of 1 to 2 feet below grade on the fringes of the spill area.

There are no residences in the vicinity of the spill. The airport has a site supply well that is located approximately 100 feet west of the release area. The well construction details are included as Attachment C, and indicate the well has casing to a depth of 115 feet and water enters the well from a depth of 115 to 250 feet below grade. Testing of groundwater from the well for volatile organic compounds is completed every few years, with no historic detections observed from testing completed in 1997 and 2001.

Electric lines and the underground tank supply line run through the contaminated soil area, as shown on Figure 3. The electric lines and the product supply line run to the 10,000 gallon UST located immediately south of the spill area. There is also an underground sanitary sewer line, water line, electric line, and telephone line that run north / south west of the fence (Figure 2). Based on the observed soil sample results, these utilities were not affected by the release.

The results of soil sampling indicate contamination may have been present surrounding the product supply pipe and the electric lines. The pipe and the electric lines were bedded with native silty clay soil, not permeably gravel fill. No strong odors or product was observed adjacent to these utility lines. Preferential migration of contamination along the supply line or the electric lines was not observed, and is not expected.

Conclusions

Based on the site conditions and remedial actions taken, no further action is necessary for this facility. The site should be closed with no restrictions. The following items support the closure request:

1. The vast majority of the spilled petroleum contamination was excavated and removed from the site. A total of approximately 40 tons of petroleum contaminated soil was removed and discarded at the landfill. Removal of an estimated 220 gallons of petroleum product was completed via removal of the soil.
2. On the base of the excavation, the remaining-in-place soil does not contain concentrations of DRO, PVOCs, or PAHs at or above the generic soil clean-up levels of the WDNR.
3. Some remaining soil contamination persists on the fringe of the spill area at a shallow depth on the north and south walls of the excavation. Soil from these areas could not be removed without disruption of existing structures. The remaining contamination consists of naphthalene above theoretical levels that may leach to groundwater, and DRO above an arbitrary-established threshold value. No individual PVOC compounds are present above concentrations considered a risk to human health or the environment in the remaining contaminated soil.
4. Asphalt covers the remaining contamination to the north. The remaining contamination to the south could not be removed due to the presence of the product supply piping and the 10,000 gallons fiberglass UST.
5. There is minimal risk posed by the remaining soil contamination at the site. The site supply well is located approximately 100 feet west, and is constructed to a depth of 250 feet, with cemented-in-place casing to a depth of 115 feet. The soil contamination from this release ceased at a depth of 4 feet below grade at the source area. Testing of groundwater from the airport supply well is performed every year, and testing for VOCs

is completed every few years. Although the groundwater flowing to the well is not felt to be at risk of contamination from this release, a testing program is in place that would detect problems should they occur.

6. The closure letter from WDCOM for the adjacent diesel fuel spill site indicates that if future excavation activities encounter contaminated soil, the soil must be properly handled per State regulations. The residual contaminated soil present in this area should also be properly handled if excavated in the future.

Recommendations

Based on the site conditions, no further action is recommended for the site. The case should be closed by the WDNR, with no additional requirements.

I hope this information meets your needs. If you have any question or comments or need any additional information regarding the site conditions, please don't hesitate to call. Thank you.

Sincerely,



Kendrick Ebbott
Project Manager
Director of Remediation Services

- Attachments: Figure 1: Site Location Map
Figure 2: Site Layout
Figure 3: Soil Sample Locations and Soil Chemistry Results: Post-Excavation
Table 1: Soil Analytical Results: Post-Excavation
Attachment A: Soil Laboratory Analytical Results
Attachment B: Soil Disposal Documentation
Attachment C: Sheboygan County Airport Supply Well Construction Details
Attachment D: WDCOM Closure Letter for Adjacent Diesel Release

cc: Mr. Troy Stuecke, PLENCO, P.O. Box 758 Sheboygan, WI 53082-0758
Mr. Tim Wasmer, Magnus Aviation, N6187 Resources Drive, Sheboygan Falls, WI 53085

ANALYTICAL REPORT

Mr. Ken Ebbott
ALPHA TERRA SCIENCE
1237 South Pilgrim Road
Plymouth, WI 53073

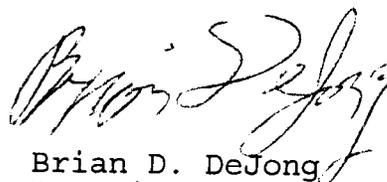
10/28/2002

Job No: 02.10140

Page 1 of 11

The following samples were received by TestAmerica for analysis:

Sample Number	Sample Description	Date Taken	Date Received
501771	1 0-1' Floor MAG-2002-01	10/11/2002	10/16/2002
501772	7 1-2' S.Wall MAG-2002-01	10/11/2002	10/16/2002
501773	9 1-2' E.Wall MAG-2002-01	10/11/2002	10/16/2002
501774	11 1-2' W.Wall MAG-2002-01	10/11/2002	10/16/2002
501775	12 1-2' N.Wall MAG-2002-01	10/11/2002	10/16/2002
501776	13 4' Floor MAG-2002-01	10/11/2002	10/16/2002
501777	MeOH blank MAG-2002-01	10/11/2002	10/16/2002



Brian D. DeJong
Organic Operations Manager

ALPHA TERRA SCIENCE
Job No: 02.10140

10/28/2002
Page 2 of 11

KEY TO DATA FLAGS

The attached sample(s) may have a result flag shown on the report. The following are the result flag definitions:

- A = Analyzed/extracted past hold time
- B = Blank is contaminated
- C = Standard outside of control limits
- D = Diluted for analysis
- E = TCLP extraction outside of method required temperature range
- F = Sample filtered in lab
- G = Received past hold time
- H = Late eluting hydrocarbons present
- I = Improperly handled sample
- J = Estimated concentration
- L = Common lab solvent and contaminant
- M = Matrix interference
- P = Improperly preserved sample
- Q = Result confirmed via re-analysis
- S = Sediment present
- T = Does not match typical pattern
- W = BOD re-set due to missed dilution
- X = Unidentified compound(s) present
- Z = Internal standard outside limits
- * = See Case Narrative

KEY TO ANALYST INITIALS

The attached sample(s) may have been analyzed by another certified laboratory. If a number appears in the Analyst Initials field, the following are the appropriate certifications (if the lab code does not appear below, that means that WDNR certification is not required for the work performed):

Lab Code	Certification Number
008	WDNR - 999766900
009	WDNR - 241293690
020	WDNR - 999447680
030	ILNELAC - 100230; WDNR - 998294430
060	ILNELAC - 100221; WDNR - 999447130
070	IA - 007; MDH - 019-999-319; WDNR - 999917270
130	WDNR - 632021390
147	WDNR - 721026460
300	FLNELAC - 87358; IA - 131; MDH - 047-999-345; WDNR - 998020430
400	WDNR - 113133790
510	WDNR - 241249360
700	WDNR - 113289110

TestAmerica Watertown WDNR - 128053530; IDNR - 294; MDH - 055-999-366; ND - R-046

For questions regarding this report, please contact Dan Milewsky or Warren Topel.

ANALYTICAL REPORT

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002
 Job No: 02.10140
 Sample No: 501771
 Account No: 595
 Page 3 of 11

JOB DESCRIPTION: MAG-2002-01 soil sample
 PROJECT DESCRIPTION: Soil analysis
 SAMPLE DESCRIPTION: 1 0-1' Floor MAG-2002-01
 Rec'd on ice

Date/Time Taken: 10/11/2002 12:18

Date Received: 10/16/2002

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Analyst	Prep/Run Batch
Solids, Total	83.2	%		n/a	SW 5035	10/24/2002	tag	4664
DRO Extraction	10/23/2002				WDNR	10/23/2002	btb	1827
DRO - NONAQUEOUS	44,500	mg/kg	5.0	5.0	WDNR	10/25/2002	jts	1827 3173
VOC - METHANOL - 8260B	I							
Benzene	<4,210	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Ethylbenzene	21,600	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Methyl-t-butyl ether	<4,210	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Naphthalene	68,500	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Toluene	<4,210	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
1,2,4-Trimethylbenzene	192,000	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
1,3,5-Trimethylbenzene	66,100	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Xylenes, Total	101,000	ug/kg	35	35	SW 8260B	10/18/2002	pju	2090
Surr: Dibromofluoromethane	99	%		81-120	SW 8260B	10/18/2002	pju	2090
Surr: Toluene-d8	98	%		89-108	SW 8260B	10/18/2002	pju	2090
Surr: Bromofluorobenzene	99	%		88-108	SW 8260B	10/18/2002	pju	2090
PNA Extraction	10/22/2002				SW 3550B	10/22/2002	btb	656
PNA - 8310 NONAQUEOUS	M							
Acenaphthene	998	ug/kg		50	SW 8310	10/25/2002	cla	656 1472
Acenaphthylene	<1,000	ug/kg		85	SW 8310	10/25/2002	cla	656 1472
Anthracene	2,280	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Benzo(a)anthracene	493	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Benzo(b)fluoranthene	<60	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Benzo(k)fluoranthene	<60	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Benzo(a)pyrene	<60	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Benzo(ghi)perylene	<60	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Chrysene	156	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Dibenzo(a,h)anthracene	<90	ug/kg		7.5	SW 8310	10/25/2002	cla	656 1472
Fluoranthene	1,320	ug/kg		10	SW 8310	10/25/2002	cla	656 1472
Fluorene	10,600	ug/kg		10	SW 8310	10/25/2002	cla	656 1472
Indeno(1,2,3-cd)pyrene	<60	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
1-Methylnaphthalene	120,000	ug/kg		30	SW 8310	10/25/2002	cla	656 1472
2-Methylnaphthalene	186,000	ug/kg		25	SW 8310	10/25/2002	cla	656 1472
Naphthalene	78,100	ug/kg		30	SW 8310	10/25/2002	cla	656 1472
Phenanthrene	4,330	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Pyrene	2,280	ug/kg		5.0	SW 8310	10/25/2002	cla	656 1472
Surr: 2-Fluorobiphenyl	D/O	ug/L		31-135	SW 8310	10/25/2002	cla	656 1472

ANALYTICAL REPORT

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002
 Job No: 02.10140
 Sample No: 501772
 Account No: 595
 Page 4 of 11

JOB DESCRIPTION: MAG-2002-01 soil sample
 PROJECT DESCRIPTION: Soil analysis
 SAMPLE DESCRIPTION: 7 1-2' S.Wall MAG-2002-01
 Rec'd on ice

Date/Time Taken: 10/11/2002 15:05

Date Received: 10/16/2002

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Solids, Total	88.4	%		n/a	SW 5035	10/24/2002	tag	4664
DRO Extraction	10/23/2002				WDNR	10/23/2002	btb	1827
DRO - NONAQUEOUS	2,830	mg/kg	5.0	5.0	WDNR	10/25/2002	jts	1827 3173
VOC - METHANOL - 8260B								
Benzene	<158	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Ethylbenzene	<158	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Methyl-t-butyl ether	<158	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Naphthalene	882	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Toluene	<158	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
1,2,4-Trimethylbenzene	2,150	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
1,3,5-Trimethylbenzene	860	ug/kg	25	25	SW 8260B	10/18/2002	pju	2090
Xylenes, Total	<215	ug/kg	35	35	SW 8260B	10/18/2002	pju	2090
Surr: Dibromofluoromethane	99	%		81-120	SW 8260B	10/18/2002	pju	2090
Surr: Toluene-d8	97	%		89-108	SW 8260B	10/18/2002	pju	2090
Surr: Bromofluorobenzene	104	%		88-108	SW 8260B	10/18/2002	pju	2090

ANALYTICAL REPORT

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002
 Job No: 02.10140
 Sample No: 501773
 Account No: 595
 Page 5 of 11

JOB DESCRIPTION: MAG-2002-01 soil sample
 PROJECT DESCRIPTION: Soil analysis
 SAMPLE DESCRIPTION: 9 1-2' E.Wall MAG-2002-01
 Rec'd on ice

Date/Time Taken: 10/11/2002 15:15

Date Received: 10/16/2002

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run
						Analyzed	Analyst	Batch
Solids, Total	82.5	%		n/a	SW 5035	10/24/2002	tag	4664
DRO Extraction	10/23/2002				WDNR	10/23/2002	btb	1827
DRO - NONAQUEOUS	<6.1	mg/kg	5.0	5.0	WDNR	10/24/2002	jts	1827 3170
VOC - METHANOL - 8260B	I							
Benzene	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
Ethylbenzene	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
Methyl-t-butyl ether	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
Naphthalene	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
Toluene	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
1,2,4-Trimethylbenzene	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
1,3,5-Trimethylbenzene	<46	ug/kg	25	25	SW 8260B	10/22/2002	mae	2093
Xylenes, Total	<63	ug/kg	35	35	SW 8260B	10/22/2002	mae	2093
Surr: Dibromofluoromethane	100	%		81-120	SW 8260B	10/22/2002	mae	2093
Surr: Toluene-d8	97	%		89-108	SW 8260B	10/22/2002	mae	2093
Surr: Bromofluorobenzene	102	%		88-108	SW 8260B	10/22/2002	mae	2093

ANALYTICAL REPORT

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002
 Job No: 02.10140
 Sample No: 501774
 Account No: 595
 Page 6 of 11

JOB DESCRIPTION: MAG-2002-01 soil sample
 PROJECT DESCRIPTION: Soil analysis
 SAMPLE DESCRIPTION: 11 1-2' W.Wall MAG-2002-01
 Rec'd on ice

Date/Time Taken: 10/11/2002 15:40

Date Received: 10/16/2002

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Solids, Total	87.3	%		n/a	SW 5035	10/24/2002	tag		4664
DRO Extraction	10/23/2002				WDNR	10/23/2002	btb		1827
DRO - NONAQUEOUS	<5.7	mg/kg	5.0	5.0	WDNR	10/24/2002	jts		1827 3170
VOC - METHANOL - 8260B									
Benzene	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Ethylbenzene	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Methyl-t-butyl ether	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Naphthalene	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Toluene	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
1,2,4-Trimethylbenzene	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
1,3,5-Trimethylbenzene	<34	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Xylenes, Total	<48	ug/kg	35	35	SW 8260B	10/22/2002	mae		2093
Surr: Dibromofluoromethane	97	%		81-120	SW 8260B	10/22/2002	mae		2093
Surr: Toluene-d8	95	%		89-108	SW 8260B	10/22/2002	mae		2093
Surr: Bromofluorobenzene	100	%		88-108	SW 8260B	10/22/2002	mae		2093

ANALYTICAL REPORT

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002
 Job No: 02.10140
 Sample No: 501775
 Account No: 595
 Page 7 of 11

JOB DESCRIPTION: MAG-2002-01 soil sample
 PROJECT DESCRIPTION: Soil analysis
 SAMPLE DESCRIPTION: 12 1-2' N.Wall MAG-2002-01
 Rec'd on ice

Date/Time Taken: 10/11/2002 16:15

Date Received: 10/16/2002

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Solids, Total	83.7	%		n/a	SW 5035	10/24/2002	tag		4664
DRO Extraction	10/23/2002				WDNR	10/23/2002	btb		1827
DRO - NONAQUEOUS	4,300	mg/kg	5.0	5.0	WDNR	10/25/2002	jts		1827 3173
VOC - METHANOL - 8260B									
Benzene	<33	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Ethylbenzene	<33	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Methyl-t-butyl ether	<33	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Naphthalene	657	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Toluene	<33	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
1,2,4-Trimethylbenzene	478	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
1,3,5-Trimethylbenzene	406	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Xylenes, Total	<45	ug/kg	35	35	SW 8260B	10/22/2002	mae		2093
Surr: Dibromofluoromethane	103	%		81-120	SW 8260B	10/22/2002	mae		2093
Surr: Toluene-d8	95	%		89-108	SW 8260B	10/22/2002	mae		2093
Surr: Bromofluorobenzene	100	%		88-108	SW 8260B	10/22/2002	mae		2093

ANALYTICAL REPORT

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002
 Job No: 02.10140
 Sample No: 501776
 Account No: 595
 Page 8 of 11

JOB DESCRIPTION: MAG-2002-01 soil sample
 PROJECT DESCRIPTION: Soil analysis
 SAMPLE DESCRIPTION: 13 4' Floor MAG-2002-01
 Rec'd on ice

Date/Time Taken: 10/11/2002 16:05

Date Received: 10/16/2002

Parameter	Results	Units	MDL	LOQ	Method	Date		Prep/Run	
						Analyzed	Analyst	Batch	
Solids, Total	79.6	%		n/a	SW 5035	10/24/2002	tag		4664
DRO Extraction	10/23/2002				WDNR	10/23/2002	btb	1827	
DRO - NONAQUEOUS	<6.3	mg/kg	5.0	5.0	WDNR	10/24/2002	jts	1827	3170
VOC - METHANOL - 8260B									
Benzene	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Ethylbenzene	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Methyl-t-butyl ether	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Naphthalene	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Toluene	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
1,2,4-Trimethylbenzene	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
1,3,5-Trimethylbenzene	<38	ug/kg	25	25	SW 8260B	10/22/2002	mae		2093
Xylenes, Total	<53	ug/kg	35	35	SW 8260B	10/22/2002	mae		2093
Surr: Dibromofluoromethane	98	%		81-120	SW 8260B	10/22/2002	mae		2093
Surr: Toluene-d8	100	%		89-108	SW 8260B	10/22/2002	mae		2093
Surr: Bromofluorobenzene	103	%		88-108	SW 8260B	10/22/2002	mae		2093
PNA Extraction	10/22/2002				SW 3550B	10/22/2002	btb	656	
PNA - 8310 NONAQUEOUS									
Acenaphthene	<63	ug/kg		50	SW 8310	10/25/2002	cla	656	1472
Acenaphthylene	<110	ug/kg		85	SW 8310	10/25/2002	cla	656	1472
Anthracene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Benzo(a)anthracene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Benzo(b)fluoranthene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Benzo(k)fluoranthene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Benzo(a)pyrene	<50	ug/kg		40	SW 8310	10/25/2002	cla	656	1472
Benzo(ghi)perylene	<50	ug/kg		40	SW 8310	10/25/2002	cla	656	1472
Chrysene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Dibenzo(a,h)anthracene	<9.4	ug/kg		7.5	SW 8310	10/25/2002	cla	656	1472
Fluoranthene	<13	ug/kg		10	SW 8310	10/25/2002	cla	656	1472
Fluorene	<13	ug/kg		10	SW 8310	10/25/2002	cla	656	1472
Indeno(1,2,3-cd)pyrene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
1-Methylnaphthalene	<38	ug/kg		30	SW 8310	10/25/2002	cla	656	1472
2-Methylnaphthalene	<31	ug/kg		25	SW 8310	10/25/2002	cla	656	1472
Naphthalene	<38	ug/kg		30	SW 8310	10/25/2002	cla	656	1472
Phenanthrene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Pyrene	<6.3	ug/kg		5.0	SW 8310	10/25/2002	cla	656	1472
Surr: 2-Fluorobiphenyl	93.2	%		31-135	SW 8310	10/25/2002	cla	656	1472

QUALITY CONTROL REPORT

BLANKS

Mr. Ken Ebbott
 ALPHA TERRA SCIENCE
 1237 South Pilgrim Road
 Plymouth, WI 53073

10/28/2002

Job No: 02.10140
 Account No: 595

Page 10 of 11

Job Description: MAG-2002-01 soil sample

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
DRO - NONAQUEOUS	1827	3170	<2.5	5.0	5.0	mg/kg
VOC - METHANOL - 8260B						
Benzene		2090	<25	25	25	ug/kg
Ethylbenzene		2090	<25	25	25	ug/kg
Methyl-t-butyl ether		2090	<25	25	25	ug/kg
Naphthalene		2090	<25	25	25	ug/kg
Toluene		2090	<25	25	25	ug/kg
1,2,4-Trimethylbenzene		2090	<25	25	25	ug/kg
1,3,5-Trimethylbenzene		2090	<25	25	25	ug/kg
Xylenes, Total		2090	<35	35	35	ug/kg
Surr: Dibromofluoromethane		2090	96.8		81-120	%
Surr: Toluene-d8		2090	97.2		89-108	%
Surr: Bromofluorobenzene		2090	96.2		88-108	%
VOC - METHANOL - 8260B						
Benzene		2093	<25	25	25	ug/kg
Ethylbenzene		2093	<25	25	25	ug/kg
Methyl-t-butyl ether		2093	<25	25	25	ug/kg
Naphthalene		2093	<25	25	25	ug/kg
Toluene		2093	<25	25	25	ug/kg
1,2,4-Trimethylbenzene		2093	<25	25	25	ug/kg
1,3,5-Trimethylbenzene		2093	<25	25	25	ug/kg
Xylenes, Total		2093	<35	35	35	ug/kg
Surr: Dibromofluoromethane		2093	96.4		81-120	%
Surr: Toluene-d8		2093	98.8		89-108	%
Surr: Bromofluorobenzene		2093	100.2		88-108	%
PNA - 8310 NONAQUEOUS						
Acenaphthene	656	1471	<50		50	ug/kg
Acenaphthylene	656	1471	<85		85	ug/kg
Anthracene	656	1471	<5.0		5.0	ug/kg
Benzo(a)anthracene	656	1471	<5.0		5.0	ug/kg
Benzo(b)fluoranthene	656	1471	<5.0		5.0	ug/kg
Benzo(k)fluoranthene	656	1471	<5.0		5.0	ug/kg
Benzo(a)pyrene	656	1471	<40		5.0	ug/kg
Benzo(ghi)perylene	656	1471	<40		5.0	ug/kg
Chrysene	656	1471	<5.0		5.0	ug/kg
Dibenzo(a,h)anthracene	656	1471	<7.5		7.5	ug/kg
Fluoranthene	656	1471	<10		10	ug/kg

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

QUALITY CONTROL REPORT BLANKS

Mr. Ken Ebbott
ALPHA TERRA SCIENCE
1237 South Pilgrim Road
Plymouth, WI 53073

10/28/2002

Job No: 02.10140
Account No: 595

Page 11 of 11

Job Description: MAG-2002-01 soil sample

Parameter	Prep Batch	Run Batch	Blank Result	MDL	LOQ	Units
Fluorene	656	1471	<10		10	ug/kg
Indeno(1,2,3-cd)pyrene	656	1471	<5.0		5.0	ug/kg
1-Methylnaphthalene	656	1471	<30		30	ug/kg
2-Methylnaphthalene	656	1471	<25		25	ug/kg
Naphthalene	656	1471	<30		30	ug/kg
Phenanthrene	656	1471	<5.0		5.0	ug/kg
Pyrene	656	1471	<5.0		5.0	ug/kg
Surr: 2-Fluorobiphenyl	656	1471	96.8		31-135	%

Method blank results exceed control limits when results are higher than the highest of any of the following: 1 - The limit of detection; 2 - Five percent of the regulatory limit for that analyte; 3 - Five percent of the measured concentration in the sample. NR149.14 (3)d

Ridgeview Recycling and Disposal Facility
A Division of Waste Management of Wisconsin, Inc.
A WMI BioSite™
6207 Hampton Lake Road Whitelaw, WI 54247-0227
920/732-4473 800/444-7919 F: 920/732-3758



ATTACHMENT B

Fax

To: *Ken-Alpha-Tune* From: *Mauri*
Fax: *892-2620* Pages: *2*
Phone: Date: *12/9/02*
Re: *Magnus Avition* CC:

• Message:

FACSIMILE NOTICE OF CONFIDENTIALITY: The information contained in this facsimile message is intended only for the personal confidential use of the designated recipient(s) named above. This message may be a consultant-client communication, and is privileged and confidential. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error, and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately at 800/444-7919 and return the original message to us by mail at our expense. Thank-you

Detail Ticket Listing

Date Range: 10/14/2002 - 10/17/2002

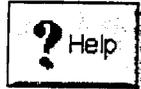
All Trucks, Customer:0000555

Cust #: 0000555

Cust Name: MAGNUS AVIATION

Date	Ticket	Truck # Generator	Profile	Manifest	Code	Commodity Tkt Yds	Fee	Site Yards	Tons	Fees	
10/14/2	436698	402857	BR484001					0.00	14.250	\$320.94	
		MAGNUS AVIATION									
					0	125.00	\$125.00	Y			
					890	0.00	\$195.94	T			
10/15/2	436835	402857	BR484001					0.00	13.360	\$308.70	
		MAGNUS AVIATION									
					0	125.00	\$125.00	Y			
					890	0.00	\$183.70	T			
10/17/2	437060	402857	BR484001					0.00	12.260	\$293.58	
		MAGNUS AVIATION									
					0	125.00	\$125.00	Y			
					890	0.00	\$168.58	T			
								Totals:	0.00	39.870	\$923.22
		3									

ATTACHMENT C



Well Inventory

WI Unique Well #: BM458

Data Owner: PU

Well Use: Unspecified Non-community

Municipality: SHEBOYGAN FALLS

PLSS: NE 1/4 of SW 1/4 of Section 15 Town
15 Range 22E

Longitude: 87 deg. 50' 52.0019"

Construction Date: 01/16/1961

Constructor ID: 82

Static Water Level 36
(ft.):

Casing Diameter 12
(in.):

Well Status:

Wtm Northing: 367886.38

Wtm Datum: 91

Last Changed Date: 10/24/2002

County: Sheboygan

Well Address: Not Available

Inventory Date: 01/23/1961

Fire #:

Latitude: 43 deg. 46' 28.4538"

Construction DRILLED
Type:

Constructor MILAEGER WELL & PUMP
Name: CO INC

Well Bottom (ft.): 250

Casing Bottom 115.5
(ft.):

Data Source: SWAP PROJECT KEYING

Watershed: SH06-060

Wtm Easting: 692967.69

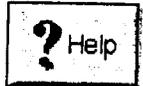
Wtm Method 52
Code:

Contacts

Contact Type	Last Name	First Name	Facility Name	Address	City	State	Zip	Program Area
OWNER			SHEBOYGAN COUNTY AIRPORT	Not Available	Not Available	Not Available	Not Available	Public Water
OCCUPANT	CHAPLIN AVIATION		SHEBOYGAN COUNTY AIR	Not Available	Not Available	Not Available	Not Available	Drinking Water/Groundwater
OWNER			SHEBOYGAN COUNTY COURT HOUSE	Not Available	Not Available	Not Available	Not Available	Drinking Water/Groundwater

Records 1 to 3 of 3

- [Sample Analytical Data \(19 Rows\)](#)
- [Comments \(0 Rows\)](#)



Well Inventory

WI Unique Well #: BP311

Data Owner: PU

Well Use: Non-transient Non-community

Municipality:

PLSS: SW 1/4 of SW 1/4 of Section 15 Town 15
Range 22E

Longitude: 87 deg. 46' 37.4933"

Construction Date:

Constructor ID:

Static Water Level
(ft.):

Casing Diameter (in.):

Well Status:

WTM Northing: 367944.19

Wtm Datum: 91

Last Changed Date: 01/27/2002

County: Sheboygan

Well Address: Not Available

Inventory Date: 06/13/1988

Fire #:

Latitude: 43 deg. 45'
46.5663"

Construction
Type:

Constructor
Name:

Well Bottom (ft.):

Casing Bottom
(ft.):

Data Source:

Watershed: SH06-060

WTM Easting: 698923.68

Wtm Method 40

Code:

Contacts

Contact Type	Last Name	First Name	Facility Name	Address	City	State	Zip	Program Area
OWNER			SHEBOYGAN COUNTY AIRPORT	Not Available	Not Available	Not Available	Not Available	Public Water
OWNER	CHAPLIN AVIATION INC		CHAPLIN AVIATION	Not Available	Not Available	Not Available	Not Available	Drinking Water/Groundwater

Records 1 to 2 of 2

- [Sample Analytical Data \(0 Rows\)](#)
- [Comments \(1 Rows\)](#)

For help or questions regarding this page, please contact [Randell Clark](#).



ENVIRONMENTAL & REGULATORY SERVICES
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212
Fax: (414) 220-5374
TDD #: (608) 264-8777
www.commerce.state.wi.us
Scott McCallum, Governor
Brenda J. Blanchard, Secretary

April 4, 2001

ATTACHMENT D

Mr. Jeff Magnus
Magnus Aviation
N6187 Resource Drive
Sheboygan Falls, WI 53085

RE: COMMERCE # 53085-2345-87-A / WDNR BRRTS # 03-60-200288
Magnus Aviation, N6187 Resource Drive, Sheboygan Falls
One 4,000-gallon Diesel Fuel Underground Storage Tank (UST) Removed in 1998
(One 10,000-gallon Fuel Oil UST Removed in 1998 - Clean Closure)

Conditional Case Closure

Dear Mr. Magnus:

On June 30, 2000, the Wisconsin Department of Natural Resources (WDNR) transferred the referenced case to the Wisconsin Department of Commerce for regulatory oversight. On February 26, 2001, the Department received the *Request for Site Closure*, dated February 2001, prepared by Advent Environmental Services, Inc. (Advent) for the diesel tank. The Department has reviewed the case file to determine if closure is appropriate. PECFA reimbursement issues associated with the cleanup are also addressed in this letter.

Case Closure Issues

Using the standards established in NR 700 and the risk criteria of Comm 46, the Department has determined that this site was investigated and remediated to a level protective of the environment and human health. Therefore, the Department considers this site to meet environmental standards and that no further action is necessary. The following reports, all prepared by Advent, and miscellaneous file correspondence, were reviewed for closure:

- *Site Assessment for Underground Storage Tank Closure*, September 1998
- *Site Investigation Workplan*, December 17, 1998
- *Environmental Site Investigation Report*, March 30, 1999
- *Environmental Site Investigation and Groundwater Monitoring Reports*, April 30, 1999 through January 15, 2000
- *Environmental Remediation Report*, May 24, 2000
- *Environmental Remediation - Groundwater Monitoring*, August 28 and November 28, 2000
- *Request for Site Closure*, February 15, 2001

A release to the environment was detected at the time of tank removal in September 1998. Elevated diesel range organics (DRO) concentrations ranging from 1,500 to 3,600 parts per million (ppm) were detected beneath the tank after removal, at a depth of 10 feet below ground surface. A sheen was also reported on the water within the excavation.

Groundwater was identified in a sand and gravel seam at approximately 8 to 10 feet below ground surface (bgs), underlain by moist stiff clay to 15 feet bgs, the maximum depth explored. Advent conducted five rounds of groundwater monitoring during which time remediation by natural attenuation of impacts was evaluated. The maximum groundwater contamination recorded was 11 ppb benzene in the source area well MW-1, and 5.1 ppb in downgradient well MW-2. Naphthalene concentrations above the enforcement standard (ES) were only detected at MW-1, at 55 to 120 ppb.

Mr. Jeff Magnus

-RE: Commerce # 53085-2345-87-A
WDNR BRRTS # 03-60-200288
Magnus Aviation
N6187 Resource Drive, Sheboygan Falls

April 4, 2001

Page 2

Upon completion of this monitoring period, no petroleum constituents were detected in any of the other three down- or sidegradient wells.

In April 2000, Advent oversaw the excavation of approximately 510 tons of impacted soil from the former tank area. An additional four quarters of monitoring documented a reduction in benzene concentrations from just above the enforcement standard of 5 parts per billion (ppb) to just above the preventive action limit (PAL) of 0.5 ppb.

On February 1, 2001, benzene exceeded the PAL in water samples collected from monitoring wells MW-1-R and MW-2, at 0.889 and 0.594 ppb, respectively. The Department is issuing a PAL exemption, per NR 140.28(2), Wisconsin Administrative Code, for benzene at the referenced site.

The following items are necessary to satisfy the conditions of closure:

- The five monitoring wells must be abandoned per chapter NR 141 requirements, unless the wells are to be used for the monitoring of other releases on this property. Please submit copies of the well abandonment forms to this office, or describe the future use of the wells and approximate date for abandonment.
- Please provide disposal documentation for the drum of waste sludge material that was pending pick-up after the two tanks were removed in September 1998.

In the future, if site conditions indicate that any contamination that remains poses a threat, the need for further remediation would be determined and required if necessary. If subsequent information indicates a need to reopen this case, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility.

If the land use conditions change in the future and the contaminated soil is disturbed, appropriate measures must be implemented to assure any residual contamination is managed following all applicable State of Wisconsin regulations and standards.

Upon receipt of all the requested documents, the case will be entered as "closed" on the database.

PECFA Eligibility Issues

The Site Review Section recommends to the Claim Review Section that costs associated with soil removal activities and subsequent four rounds of groundwater monitoring be considered not eligible for PECFA reimbursement. The Department bases this recommendation on an inadequate justification for the removal of over 500 tons of soil from this site in April 2000. Per Comm 47.30(2)(b)4, PECFA funding cannot be used to fund "actions that exceed the necessary activities to bring a site to the required level or remediation." It is apparent from the data provided that this site could have been closed upon the completion of the five rounds of groundwater monitoring conducted from January 1999 to January 2000. However, upon the completion of this monitoring, Advent concluded that "the groundwater contaminant plume is not significantly expanding" and then excavated the soil. Advent did not provide any evidence of an expanding plume. Groundwater data indicated that benzene concentrations over time varied by less than four ppb (7.8 to 11 ppb) at the source well, MW-1, and benzene concentrations over time varied by less than two ppb (3.3 to 5.1 ppb) in the nearest downgradient well, MW-2. The variability in these concentrations at such low levels could be the result of differences in collection and laboratory analytical techniques as much as groundwater fluctuations. Naphthalene was present in well MW-1 at concentrations that ranged from 55 to 120 ppb; however, this compound was not present in any other well at concentrations above the PAL since January 20, 1999 (12 ppb at MW-3).

On January 30, 2000, Advent provided written notification to the Department that this site would be investigated and remediated for less than \$60,000. Advent stated that "We also observed free

Mr. Jeff Magnus

RE: Commerce # 53085-2345-87-A
WDNR BRRTS # 03-60-200288
Magnus Aviation
N6187 Resource Drive, Sheboygan Falls

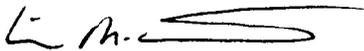
April 4, 2001

Page 3

product in the interstitial spaces around soil collected in the geoprobe sampling tube" as a justification for soil removal. However, for the referenced boring log (B-13), the word product is in quotation marks, which makes the description vague and the identification unclear. No petroleum odors were identified. The soil vapor readings collected with a photoionization detector (PID) were not indicative of product, ranging from 40 to 50 instrument units at 5 to 10 feet bgs. If this was product, it may have been old and weathered, reflected by the lack of "volatiles" detected with the PID. The only compounds detected above regulatory or interim levels in the soil sample collected from the "product" interval were 570 ppm DRO, 40 ppb benzene, and 670 ppb naphthalene. These are not concentrations indicative of product, nor is there any indication that contamination at these levels presented a threat to the environment through direct contact or leaching to groundwater. Well MW-2, 15 feet west of B-13, had only benzene just above the enforcement standard and MW-3, 15 feet south of B-13, had only benzene and naphthalene above a PAL on one occasion. In addition, soil and groundwater in the former tank area, at B-1/MW-1, were not greatly impacted.

If you have any questions, feel free to contact me at (414) 220-5376.

Sincerely,



Linda M. Michalets
Hydrogeologist
PECFA Site Review Section

cc: Mr. Pete Pavalko, Advent Environmental Services, Inc.
Mr. Dennis Legler, Section Chief, Claim Review Section
Ms. Lori Huntoon, Section Chief, Site Review Section
Commerce electronic file



ENVIRONMENTAL & REGULATORY SERVICES
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ADVENT
<http://www.commerce.state.wi.us>
<http://www.wisconsin.gov>
Scott McCallum, Governor
Brenda J. Blanchard, Secretary

July 5, 2001

Mr. Jeff Magnus
Magnus Aviation
N6187 Resource Drive
Sheboygan Falls, WI 53085

RE: **Final Closure**

COMMERCE #53085-2345-87-A WDNR BRRTS #03-60-200288
Magnus Aviation, N6187 Resource Drive, Sheboygan Falls
One 4,000-gallon Diesel Fuel Underground Storage Tank (UST) Removed in 1998
(One 10,000-gallon Fuel Oil UST Removed in 1998 - Clean Closure)

Dear Mr. Magnus:

The Department has received all the items required as conditions for closure of the referenced site. Therefore, this site is now listed as "closed" on the Commerce database.

Remember that it is in your best interest to keep all documentation related to the investigation and remediation of your site in case you ever decide to sell this property. You are responsible for maintaining this file and passing the information on to future owners.

Thank you for your efforts in the protection of Wisconsin's environment. If you have any questions, please contact me at (414) 220-5376 or in writing at the letterhead address.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. M. Michalets', with a long horizontal flourish extending to the right.

Linda M. Michalets
Hydrogeologist
Site Review Section

cc: Mr. Pete Pavalko, Advent Environmental Services, Inc.
Case file

ENDORSEMENT NO. (Continued)

- whose insurance coverage is subject to regulation in the United States), regardless of where the loss occurs, or at the premises of any United States mission];
- (II) the premises of a United States mission; and
- (iv) to have been committed by an individual or individuals acting on behalf of any foreign person or foreign interest, as part of an effort to coerce the civilian population of the United States or to influence the policy or affect the conduct of the United States Government by coercion.
- (B) Limitation. -- No act shall be certified by the Secretary as an act of terrorism if --
- (i) the act is committed as part of the course of a war declared by the Congress, except that this clause shall not apply with respect to any coverage for workers' compensation; or
- (ii) property and casualty insurance losses resulting from the act, in the aggregate, do not exceed \$5,000,000.
- (C) Determinations Final. -- Any certification of, or determination not to certify, an act as an act of terrorism under this paragraph shall be final, and shall not be subject to judicial review.
- (D) Nondelegation. -- The Secretary may not delegate or designate to any other officer, employee, or person, any determination under this paragraph of whether, during the effective period of the Program, an act of terrorism has occurred.

Specimen

All other terms, conditions, and exclusions shall remain the same.

AUTHORIZED REPRESENTATIVE
or countersignature (in states where applicable)

**Hazardous Substance Release Fax Notification
(Non-Emergency Only)**

Form 4400-225 (6/02) Page 1 of 2

Emergency Releases / Spills must be reported via the 24-hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to the "Spills Law", s. 292.11 Wis. Stats. Section NR 706.05(1)(b), Wis. Adm. Code requires that hazardous substance discharges are to be reported by one of three methods: telephoning the Department (toll free Spill Hotline number above), telefaxing a report to the Department or visiting a Department office in person. If you choose to notify the Department by telefax, you should use this form to be sure that all necessary information is included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 - 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** FAX it to the appropriate WDNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (check one):

- Underground Petroleum Storage Tank System
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility (DERP eligibility based on: Facility owner/operator Property owner of licensed facility
- Other - Describe: **Aboveground Piping (for Dispensing) assoc. with underground Tank System**

TO WDNR, ATTN: R & R Program Assistant (Area Code) FAX Number: (414) 263-8483

1. Discharge reported by:

Name: Tim Wasmer Firm: Magnus Aviation, Inc. Date FAXed to WDNR: 09/27/02

Address: N6187 Resource Drive, Sheboygan Falls, WI 53085 (Area Code) Phone Number: (920) 467-6151

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence / vacant property
Magnus Aviation, Inc.

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60

N6187 Resource Drive

Municipality (City, Village, Township) Specify municipality in which the site is located, not mailing address/city

Town of Sheboygan Falls

County: Sheboygan Legal Description: SW 1/4, SE 1/4, Section 15, Tn 15, Range 22 (check) or W

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary

Magnus Aviation, Inc.

Contact Person Name (if different): Jeffrey T. Mohr Telephone Number: (920) 467-6151

Mailing Address: N6187 Resource Drive City: Sheboygan Falls State: WI ZIP Code: 53085

4. Hazardous Substance Impact Information

Identify hazardous substance discharged (check all that apply):

- Ammonia
- Gasoline-Unleaded
- PERC
- Arsenic
- Herbicide
- Pesticides

(Continued)