



October 01, 2002

Ms. Violetta Semanko 407 E. MD St. Cadott, WI 54727

RE:

**Final Closure** 

**Commerce # 54727-9359-07** WDNR BRRTS # 03-09-099703 Semanko Residence, 407 E. MD St., Cadott

Dear Ms. Semanko:

The Wisconsin Department of Commerce (Commerce) has received all items required for closure of the site referenced above. This site is now listed as "closed" on the Commerce database.

It is in your best interest to keep all documentation related to the environmental activities at your site. If residual contamination is encountered in the future, appropriate measures must be implemented to assure that it is managed following all applicable regulations. If future site conditions indicate that any remaining contamination poses a threat, and 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.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (608) 266-0593.

Sincerely,

Brian F. Taylor Hydrogeologist Site Review Section

CC:

Ms. Victoria Loveland, Envirogen, Inc.

Case File

**Document Number** 

## NOTICE OF CONTAMINATION TO PROPERTY

Legal Description of the Property: In re:

Arkwright's Edition, Lots 1 and 2, Block 4

RECEIVED

AUG 1 2 2002

**ERS DIVISION** 

DOCUMENT# 643878

Recorded
JULY 01,2002 AT 11:00AM

Thank & Aleman

MARGE L. GEISSLER REGISTER OF DEEDS CHIPPEWA COUNTY, WI Fee Amount: \$13.00



Recording Area

Name and Return Address

Mrs. Violetta Semanko 407 East MD Street Cadott, WI 54727

22806-0522-603000401

Parcel Identification Number (PIN)

STATE OF WISCONSIN ) ss COUNTY OF Chippewa )

- Section 1. Mrs. Violetta Semanko is the owner of the above-described property.
- Section 2. One or more petroleum discharges have occurred at this property contaminating groundwater above NR 140 enforcement standards and soils above NR 720 residual contaminant levels of the Wisconsin Administrative Code exist(s) on this property.
- Section 3. The owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitations and/or restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific prohibitions or requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

Also,

Residual petroleum contaminated soil and groundwater remains on this site. According to the report filed by Envirogen, the residual contaminated soil and groundwater is located in the southern quarter of the property near the existing two stall garage with groundwater moving in a westerly direction. Natural attenuation is the approved remedial alternative for this site. If contaminated soil is excavated in the future, it may be considered a solid waste and will need to be disposed in accordance with all applicable laws. File references: PECFA Claim number 54727-9359-07 and BRRTS 03-09-099703, Envirogen, report dated May 24, 2001.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Commerce, or its successor, issue a determination that the restrictions set forth in this covenant are no longer required. That property owner shall provide any and all necessary information to the Department in order for the Department to be able to make a determination. Upon receipt of such a request, the Department shall determine whether or not the restrictions contained herein can be extinguished. Conditions under which a restriction may be extinguished will be determined in accordance with the site specific standards, rules and laws for this property. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this restriction, or portions of this restriction are no longer binding. Any restriction placed upon this property shall not be extinguished without the Department's written determination.

IN WITNESS WHEREOF, the owner of the property has executed this document, this  $\frac{29}{9}$  day of  $\frac{1}{9}$  day of  $\frac{1}{9}$  day of  $\frac{1}{9}$ 

#### [When appropriate use the following clause]:

By signing this document, [he/she] acknowledges that [he/she] is duly authorized to sign this document on behalf of

Signature:	2)1	oletta	ر لکیک ر	em 11	nh
oignature.	2/1	orcure		<del>e m</del> ca	mole

Printed Name: VIOLETTA SEMANKO

Title: Owner

Subscribed and sworn to before me this ITh day of June, 2002

Notary Public, State of Wisconsin My commission January 16, 2005

Arlene L. Verdegan

This document was drafted by the Wisconsin Department of Commerce.





850 Hwy 153, Suite F Mosinee, WI 54455

Tel: 715/693-1750 Fax: 715/693-1766 www.envirogen.com

September 21, 2001

RECEIVED

OCT 0 2 2001

ERS DIVISION

Mr. Brian Taylor Wisconsin Department of Commerce PECFA Site Review Section P.O. Box 8044 Madison, Wisconsin 53708-8044

Re: The Semanko Property site, 407 East MD Street, Cadott, WI 54727

Envirogen Project Number: 980273 PECFA Claim Number: 54727-9359-07

Dear Mr. Taylor:

Enclosed please find monitoring well abandonment forms for the Semanko Property site. Please feel free to contact me at (715) 693-1750 if you have any questions or concerns regarding this information.

Sincerely,

cc:

ENVIROGEN, INC.

Krista F. Tennessen

Staff I Environmental Specialist

Krista Jennessen

Mrs. Violetta Semanko, 407 East MD Street, Cadott, Wisconsin 54727

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 12-91

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

1) GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole County	Original Well Owner (If Known)
Location MW-1 Chupewa	Violetta Semanko
	Present Well Owner
NW 1/4 of NW 1/4 of Sec. 5; T. 28 N; R. 6 W	
(If applicable) ; T. UB N; R. D W	Violitta Simanko
·	Street or Route
Gov't Lot Grid Number	407 East MN Street
Grid Location	City, State, Zip Code
ft.	( Cadott W1 54727
Cixil Town Name	Facility Well No. and/or Name (If Applicable)   WI Unique Well No.
Cadott	
Street Address of Well	JX 894
	Reason, For Abandonment
407 East MD Street	Site Closure
City, Village	Date of Abandonment
Cadott	09/17/01
WELL/DRILLHOLE/BOREHOLE INFORMATION	
3) Original Well/Drillhole/Borehole Construction Completed On	Las Dente West (Pen) (2.54
	(4) Depth to Water (Feet) 8.74
(Date)08   22   2000	Pump & Piping Removed? Yes No X Not Applicable
	Liner(s) Removed? Yes No Not Applicable
Monitoring Well   Construction Report Available?	
	Casing Left in Place?  Yes No Not Applicable
Drillhole /	If No, Explain
☐ Borehole	
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
	Did Material Settle After 24 Hours? Yes No
Other (Specify)	If Yes, Was Hole Retopped? Yes No. NA
	(5) Required Method of Placing Sealing Material
Formation Type:	
☐ Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped.
, <u> </u>	☐ Dump Bailer ☐ Other (Explain) Gravity
Total Well Depth (ft.) 13.88 Casing Diameter (ins.) 2.07	(6) Sealing Materials For monitoring wells and
(From groundsurface)	Neat Cement Grout monitoring well boreholes only
, ,	Sand-Cement (Concrete) Grout
Casing Depth (ft.) 13.88	
Cashig Depart (IL)	<u> </u>
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes No Unknown	
	☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout
If Yes, To What Depth? Feet	☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout ☐ Chipped Bentonite
If Yes, To What Depth? Feet	Chipped Bentonite
If Yes, To What Depth? Feet	Chipped Bentonite  No. Yards, (Circle Mix Ratio
If Yes, To What Depth? Feet	Chipped Bentonite
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet	From (Ft.) To (Ft.) Sacks Sealant One)  No. Yards, (Circle Mix Ratio or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bortonik	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bortonik	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight
If Yes, To What Depth? Feet    Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight  Surface 3.98 13
If Yes, To What Depth? Feet    Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight  Surface 13.98 13
If Yes, To What Depth? Feet    Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight  Surface 3.98 13
Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant (Circle One) or Mud Weight  Surface   3.86   3   3   3   3   3   3   3   3   3
Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One) Or Mud Weight  Surface 13.98 13
Sealing Material Used	From (Ft.) To (Ft.) Sack Sealant One) or Mud Weight  Surface   3.88
Sealing Material Used	From (Ft.) To (Ft.) Sack Sealant One) or Mud Weight  Surface   3.98
Sealing Material Used	From (Ft.) To (Ft.) Sack Sealant One) or Mud Weight  Surface   3.88
Sealing Material Used	From (Ft.) To (Ft.) Sack Sealant One) or Mud Weight  Surface   3.98

DMD/COLINITY

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 12-91

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

Weil/DelibloRoProcedure	GENERAL INFORMATION	(2) FACILITY NAME
Manual Price   Manu		Original Well Owner (If Known)
Monitoring Well   Construction Completed On   Date Specify   Driven (Sandpoint)   Date Specify   Driven (Sandpoint)	Location MW-3 Chupewa	Violetta Semanko
Construction Type:   Constru	T E	( ) ( )
Gov't Lot		
Grid Leastin ft. N. S., ft. B. W. City, State, Zip Code  (Aught W. S4727    Street Address of Well		
Construction Type:   Construction Report Available?   Date of Abandoment   Construction Type:   Did Sealing Material to Surface?   Did Sealing Material to Surface?   No. MA		40 + East MN Street
Facility Well No. and/or Name (II Applicable)   VI Unique Well No. I X B 9 b		l 6
Resign For Abandonment		
Resear, For Abandonment   Coll   AD   Coll   Coll   AD   Coll		, in a single mention
Date of Abundourient		
Date of Abandomment   Cad 541	407 PANT MN STARRE	
Contraction Type:   Construction Type:   Monitoring Monitori	City, Village	Date of Abandonment
Construction Type:   Dilled   Driven (Sandpoint)   Dug   D	Cadott	1 1
Pump & Piping Removed?   Yes   No   Not Applicable   Line(s) Removed?   Yes   No   Not Applicable   Line(s) Removed?   Yes   No   Not Applicable   Line(s) Removed?   Yes   No   Not Applicable   Construction Report Available?   Line(s) Removed?   Yes   No   Not Applicable   Construction Type:   No   Dillbod   Drilbod   Driven (Sandpoint)   Dug   Dillbod   Driven (Sandpoint)   Dug   Dillbod   Driven (Sandpoint)   Dug   Dillbod   Tespendo   Driven (Sandpoint)   Dug   Driven (Sandpoint)   Dug   Dillbod   Tespendo   Driven (Sandpoint)   Dug   Driven (Sandpoint)   Dug   Driven (Sandpoint)   Tespendo   Driven (Sandpoint)   Dug   Dillbod   Driven (Sandpoint)   Dug   Driven (Sandpoint)   Tespendo   Driven (Sandpoint)   Dug   Driven (Sandpoint)   Tespendo   Driven (Sandpoint)   Driven (Sandpoint)   Tespendo   Driven (Sandpoint)   Driven (Sand	ELL/DRILLHOLE/BOREHOLE INFORMATION	
Pump & Piping Removed?   Yes   No   Not Applicable Liner(s) Removed?   Yes   No   Not Applicable Screen Removed?   Yes   No   Not Applicable Liner(s) Removed?   Yes   No   Not Applicable Screen Removed?   Yes   No   Not Applicable Removed?   Yes	Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 10.07
Monitoring Well   Water Well	(Date) $02/2/1000$	
Mater Well   Material Set of the Casing Left in Place?   Yes   No   Not Applicable   Casing Left in Place?   Yes   No   Not Applicable   Material Set of Surface?   Yes   No   Not Applicable   Material Rise to Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   Not Applicable   Responsible   Not Replicable   Not Replicable   Not Responsible   Not Replicable   Not		
Water Well   Drillhole   Borehole   Was Casing Cut Off Below Surface?   Yes   No	Monitoring Well   Construction Report Available?	Screen Removed? Yes No Not Applicable
Drillhole   Sendole   Was Casing Cut Off Below Surface?   Yes   No Did Sealing Material Settle After 2 More   No Did Material Settle After 2 Mor	☐ Water Well ☐ Yes ☐ No	
Was Casing Cut Off Below Surface?   Yes   No Did Sealing Material Rise to Surface?   Yes   No Did Sealing Material Settle After 24 Hours?   Yes   No No No Did Sealing Material Settle After 24 Hours?   Yes   No No No Did Sealing Material Settle After 24 Hours?   Yes   No No No Did Sealing Material Sealing Material Settle After 24 Hours?   Yes   No No No Did Sealing Material Sealing Ma		If No, Explain
Did Sealing Material Rise to Surface?   Yes   No Did Material Relief After 24 Hours?   Yes   No Did Material Seated After 24 Hours?   Yes   No Did Material Relief After 24 Hours?   Yes   No Hours   No Hours   Yes	Borehole	
Drilled   Driven (Sandpoint)   Dug   Did Material Settle After 24 Hours?   Yes   No. A		
Other (Specify)		Did Sealing Material Rise to Surface? X Yes No
Other (Specify)   If Yes, Was Hole Retopped?   Yes   No. N/A	Drilled Driven (Sandpoint) Dug	
Conductor Pipe-Gravity   Conductor Pipe-Pumped		If Yes, Was Hole Retopped? Yes \(\bigcap \) No. NA
Conductor Pipe-Gravity   Conductor Pipe-Pumped		(5) Required Method of Placing Sealing Material
Total Well Depth (ft.) 4.16 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 4.16 Casing Diameter (ins.) 2.07 (Sealing Materials Por monitoring wells and monitoring well sond monitoring well boreholes only Sand-Cement (Concrete) Grout Concrete	· · · · · · · · · · · · · · · · · · ·	
Total Well Depth (it.) 4.16 Casing Diameter (ins.) 2.07 (6) Sealing Materials	Unconsolidated Formation Bedrock	
Neat Cement Grout   Sand-Cement (Concrete) Grout   Sand-Cement (Concrete) Grout   Granular Bentonite Pellets   Granular Bentonite   G	Total Well Depth (ft.) 14.7% Casing Diameter (ins.) 2 07	
Casing Depth (ft.)   4.16  Was Well Annular Space Grouted?   Yes   No   Unknown If Yes, To What Depth?   Feet   Clay-Sand Slurry   Bentonite - Sealing Material Used   From (Ft.)   To (Ft.)   Sack 2 Sealant or Noulments   Surface   14.26   13   Surface   14.26   13   Surface   Mix Ratio or Mud Weight    Comments:   Name of Person or Firm Doing Sealing Work   Surface   Surfac		
Casing Depth (ft.) 4,16  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Peet Clay-Sand Slurry Bentonite - Cement Grout  Sealing Material Used From (Ft.) To (Ft.) Sack Sealant or Volume One or Mud Weight  Surface 14,26  Surface 14,26  Surface 14,26  Comments:  Name of Person or Firm Doing Sealing Work  Was Well Annular Bentonite - Cement Grout  From (Ft.) To (Ft.) Sack Sealant or Volume One or Mud Weight  Surface 14,26  District/County  Date Received/Inspected District/County  Signature of Person Doing Work  Street or Route Telephone Number  By Hours 15,3 Switch (715) 693-17-50  City, State, ZiplCode  District/County Work  Follow-up Necessary  Follow-up Necessary  Follow-up Necessary		
Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Bentonite - Cement Grout  Sealing Material Used  From (Ft.) To (Ft.) Sacks Sealant or Volume  Surface 14.26  Name of Person or Firm Doing Sealing Work  Manne of Person or Firm Doing Sealing Work  Manne of Person Doing Work  Signature of Person Doing Work  Manne of Person Doing Work  Mix Ratio  One Mix Ratio  Date Secalant  One DND Yes  Manne of Person Doing Work  Mix Ratio  One Mix	Casing Depth (ft.) 4, 26	
Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth?		Clay-Sand Slurry Granular Bentonite
Sealing Material Used   From (Ft.)   To (Ft.)   Sacks Sealant or Volume   One   Or Mud Weight	Was Well Annular Space Grouted? Yes No Unknown	
Surface   4.26   3	— — — — — — — — — — — — — — — — — — —	
Surface   4.26   3   Surface   4.26   Surfac		
Surface   4.26     3    Surface   4.26     4.26     3    Surface   4.26     4.26     3    Surface   4.26     4.26     4.26     3    Surface   4.26     4.26     4.26     3    Surface   4.26   4	Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant One or Mud Weight
Name of Person or Firm Doing Sealing Work  WWW. Date Signed Signature of Person Doing Work  Street or Route  Street or Route  Street of Route  City, State, ZiplCode    Comments:	~ 1	
Name of Person or Firm Doing Sealing Work  WWW. Date Signed Signature of Person Doing Work  Street or Route  Street or Route  Street of Route  City, State, ZiplCode    Comments:	3/8" Granulas Brintonik	Surface   14 26   13
Name of Person or Firm Doing Sealing Work  YNVIOACO UNC  Signature of Person Doing Work  Street or Route  Street or Route  City, State, ZipCode  Name of Person or Firm Doing Sealing Work  (10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected  District/County  Reviewer/Inspector  Complying Work  Follow-up Necessary	15 9/100 MOREL BOX GOTTON	
Name of Person or Firm Doing Sealing Work  YNVIOACO UNC  Signature of Person Doing Work  Street or Route  Street or Route  City, State, ZipCode  Name of Person or Firm Doing Sealing Work  (10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected  District/County  Reviewer/Inspector  Complying Work  Follow-up Necessary		
Name of Person or Firm Doing Sealing Work  YNVIOACO UNC  Signature of Person Doing Work  Street or Route  Street or Route  City, State, ZipCode  Name of Person or Firm Doing Sealing Work  (10) FOR DNR OR COUNTY USE ONLY  Date Received/Inspected  District/County  Reviewer/Inspector  Complying Work  Follow-up Necessary		
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Name of Person or Firm Doing Sealing Work  YNVIOACH UCC  Signature of Person Doing Work  Street or Route  City, State, ZiplCode    Complying Work   Complying W		
Name of Person or Firm Doing Sealing Work  YNVIOACH UCC  Signature of Person Doing Work  Street or Route  City, State, ZiplCode    Complying Work   Complying W		
Signature of Person Doing Work  Street or Route  Street or Route  City, State, ZiplCode  Date Received/Inspected  District/County  Reviewer/Inspector  Complying Work  Reviewer/Inspector  Follow-up Necessary  Date Received/Inspected  District/County  Reviewer/Inspector  Follow-up Necessary	Comments:	
Signature of Person Doing Work  Street or Route  Street or Route  City, State, ZiplCode  Date Received/Inspected  District/County  Reviewer/Inspector  Complying Work  Reviewer/Inspector  Follow-up Necessary  Date Received/Inspected  District/County  Reviewer/Inspector  Follow-up Necessary		
Signature of Person Doing Work    Math Munusco		
Street or Route  Street or Route  Street or Route  City, State, ZiplCode  Reviewer/Inspector  Reviewer/Inspector  Complying Work  Follow-up Necessary		Date Received/Inspected District/County
Street or Route  Street or Route  Telephone Number  Street or Route  Telephone Number  Follow-up Necessary  Follow-up Necessary		
850 Hay 153 Switch (715) 693-1750 Follow-up Necessary	Myth Jennessen 109/21/01	
City, State, ZiglCode		
	050 HWW 150 SWACH (415) 673-1750	Follow-up Necessary
	City, State, Lippede .	

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

GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole County	Original Well Owner (If Known)
Location MW-4 Chipewa	Violetta Semanko
	Present Well Owner
NW 1/4 of NW 1/4 of Sec. 5; T. 2B N; R. 6 NW	
(If applicable)	
	Street or Route
Grid Number	407 East MN Street
Grid Location	City, State, Zip Code
ft. N. S.,ft. E. W.	Cadott W1 54727
Cixil Town Name	Facility Well No. and/or Name (If Applicable)   WI Unique Well No.
(a 1 <del>x 1 t</del>	
Street Address of Well	Reason, For Abandonment
	7 1 2 7 2
407 East MD Street	Site Cloruse
City, Village	Date of Abandonment
Cadott	09/17/01
ELL/DRILLHOLE/BOREHOLE INFORMATION	
Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 7,73
701221	Pump & Piping Removed? Yes No X Not Applicable
(Date) 08 22 2000	7. (A)
17	Liner(s) Removed? Yes No Not Applicable
Monitoring Well   Construction Report Available?	Screen Removed? Yes No Not Applicable
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? Yes 🗍 No
Drillhole /	If No, Explain
Borehole	
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
77 77 77 77	
E Diver (battepoint)	Did Material Settle After 24 Hours? Yes No
Other (Specify)	If Yes, Was Hole Retopped? Yes No. NA
	(5) Required Method of Placing Sealing Material
Formation Type:	
Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped .
4 22	☐ Dump Bailer ☐ Other (Explain) Gravity
	(6) Sealing Materials For monitoring wells and
Total Well Depth (ft.) 14.23 Casing Diameter (ins.) 2.07	(-) Demind
(From groundsurface) Casing Diameter (ins.) 2.0 †	Neat Cement Grout monitoring well boreholes only
(From groundsurface)	☐ Neat Cement Grout monitoring well boreholes only ☐ Sand-Cement (Concrete) Grout
	☐ Neat Cement Grout monitoring well boreholes only ☐ Sand-Cement (Concrete) Grout ☐ Concrete ☐ Bentonite Pellets
(From groundsurface)  Casing Depth (ft.) 14.23	□ Neat Cement Grout       monitoring well boreholes only         □ Sand-Cement (Concrete) Grout       □ Bentonite Pellets         □ Clay-Sand Slurry       □ Granular Bentonite
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown	☐ Neat Cement Grout       monitoring well boreholes only         ☐ Sand-Cement (Concrete) Grout       ☐ Bentonite Pellets         ☐ Concrete       ☐ Granular Bentonite         ☐ Clay-Sand Slurry       ☐ Bentonite - Cement Grout
(From groundsurface)  Casing Depth (ft.) 14.23	□ Neat Cement Grout       monitoring well boreholes only         □ Sand-Cement (Concrete) Grout       □ Bentonite Pellets         □ Clay-Sand Slurry       □ Granular Bentonite         □ Bentonite - Cement Grout         □ Chipped Bentonite
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets     Clay-Sand Slurry   Bentonite-Sand Slurry   Bentonite - Cement Grout     Chipped Bentonite   Wards   Circle   Mix Ratio
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown	Neat Cement Grout monitoring well boreholes only  Sand-Cement (Concrete) Grout Concrete Bentonite-Sand Slurry Bentonite-Sand Slurry Bentonite - Cement Grout Chipped Bentonite  No. Yards, Sacks Sealant Circle Mix Ratio Organ Myd Weight
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite-Sand Slurry   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Wolume   One or Mud Weight
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite-Sand Slurry   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Wolume   One or Mud Weight
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Sealing Material Used  3 8" Granular Bentonik	Neat Cement Grout   monitoring well boreholes only     Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite   Mix Ratio or Volume   Cricle One   One   One   One   One     Surface   Alt 2   Alt 3   Alt 5   One   One   One   One   One   One     Concrete   Mix Ratio   Mix Ratio   One   O
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:	Neat Cement Grout Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Bentonite-Sand Slurry Chipped Bentonite  From (Ft.) To (Ft.) Sacks Sealant or Volume Surface  14,23  Mix Ratio or Mud Weight  Circle One One  Mix Ratio or Mud Weight
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work	Neat Cement Grout   Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite   Bentonite - Cement Grout   Bentonite - Cement Grout   Chipped Bentonite   Mix Ratio or Volume   Surface   14,23   3   3
(From groundsurface)  Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bertonik  Comments:  Name of Person or Firm Doing Sealing Work	Neat Cement Grout Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Bentonite-Sand Slurry Chipped Bentonite  From (Ft.) To (Ft.) Sacks Sealant or Volume Surface  14,23  Mix Ratio or Mud Weight  Circle One One  Mix Ratio or Mud Weight
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work  YMVINGEN WC.  Signature of Person Doing Work Date Signed	Neat Cement Grout   Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite   Bentonite - Cement Grout   Bentonite - Cement Grout   Bentonite - Cement Grout   Chipped Bentonite   Mix Ratio or Volume   Surface   14,23   3   3
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work  YNVIOACH WC.  Signature of Person Doing Work  O9 12101	Neat Cement Grout   Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite   Bentonite - Cement Grout   Bentonite - Cement Grout   Bentonite - Cement Grout   Chipped Bentonite   Mix Ratio or Volume   One   Or Mud Weight      Surface   14,23   3   3     Secretary   Sacks Sealant or Volume   One   One   One   Or Mud Weight      Surface   14,23   3   Secretary   Surface   One   O
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work  Wilder Merson Doing Work  Signature of Person Doing Work  Signature of Person Doing Work  Telephone Number	Neat Cement Grout
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Sealing Material Used  Sealing Material Used  3 8" Granular Bontonik  Comments:  Name of Person or Firm Doing Sealing Work  YN YNOG INC.  Signature of Person Doing Work  Signature of Person Doing Work  Name of Person Doing Work  Signature of Person Doing Work  Name of Person Doing Work  Signature of Person Doing Work  Name of Person Doing Work  Signature of Person Doing Work  Name of Person Doing Work  Signature of Person Doing Work  Name of Person Doing Work	Neat Cement Grout
Casing Depth (ft.) 14.23  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work  YNVIOACH WC.  Signature of Person Doing Work  O9 12101	Neat Cement Grout

### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 12-91

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

Well Phillock/Borekole   County   Chippen   Well County   Chippen   Well County   Well No.   State   Second County   Well No.   Second No.   Seco	GENERAL INFORMATION	(2) FACILITY NAME
Location   MW   Standard   MW   Feern Wall   MW   MW   MW   MW   MW   MW   MW	Well/Drillhole/Borehole County	
		Violetta Comanto
Martin   M		Present Well Owner
Grist Location   Grist Number   Gr	NIA) 1/4 of NIA) 1/4 of Sec 5 . T. 2/5 NED TO HE	· · · · · ·
Gov't Lot Grid Location R: N S. R. E. W. Clay Town Name Cad Stat! Steer Address of Well AD 7 State Address of Well AD 8 State Address of Well AD 8 State Address of Well AD 9 State Add	(If amplicable)	
Construction Type:   Driven (Sandpoint)   Dug   Defined Specific (Inc.)   L/20   Defined Specific (Inc.)   Defined	· · · · · · · · · · · · · · · · · · ·	
Spul Town Name  Calbtt  Street Address of Well  4D - Yash MD STALET  City, Village  Cal btt  City, Village  Cal btt  City, Village  Cal btt  City, Village  Cal btt  City, Village  Construction Report Available?  Monitoring Well  Construction Type:  C		407 East MN Street
Facility Well No. and/or Name (II Applicable)   Wil Unique Well No.	Grid Location	City, State, Zip Code
Facility Well No. and/or Name (II Applicable)   Wil Unique Well No.		(adott U) 154727
Resign For Abandonment   Struck   Str	Cixil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Region For Abundonment   Struct   Address of Well   Struct   Struct   Address of Well   Struct   Struct   Address of Well   Struct   Address of Well   Struct   Address of Well   Address of Abundonment   Abundonmen	(a 1 <del>x 1 t</del>	
Construction Type:   Dilled   Driven (Sandpoint)   Dug   Driven (Specify)   Dug   Driven (Specify)   Drive	Street Address of Well	Reason For Abandonment
Date of Abandomment   Date of Not Applicable   Date of Not Applicabl	<u> </u>	Cost of Abandonment
Captility   Construction Completed On   Chair   Chair   Construction Report Available?   Casing Cut Off Below Surface?   Casing Left in Place?   I'No. Explain   Construction Type:   Construction Type	Ciry Village	one conuce.
Construction Type:   Driven (Sandpoint)   Dug   Did Material Sealing Mat		
Original Well/Drillhole/Borchole Construction Completed On (Date) OB 72 2 2000    Monitoring Well   Construction Report Available?   Pump & Piping Removed?   Yes   No   Not Applicable Construction Report Available?   Screen Removed?   Yes   No   Not Applicable Construction Type:   Water Well Provided   Drillhole   Dr		09/17/01
Daile   Dail		
Date	Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 8.0.3
Monitoring Well   Construction Report Available?   Water Well   Water Well   Water Well   Dillhole   Water Well   Water Well   Water Well   Water Well   Water Well   Water Well   Was Political   Was Casing Left in Place?   Yes   No   Not Applicable   Not Appl	(Date) (12/22/2000)	
Monitoring Well   Construction Report Available?   Screen Removed?   Yes   No   Not Applicable   Not Applicable   Screen Removed?   Yes   No   Not Applicable	<u> </u>	
Water Well   Drillhole   Borehole   Was Casing Left in Place?   Yes   No   Was Construction Type:   Did Sealing Cut Off Below Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   Did Material Settle After 24 Hours?   Yes   No   No   Did Material Settle After 24 Hours?   Yes   No   Dump Bailer   Doung Bailer   Doung Wells and Other (Explain) Gall All All All All All All All All All	Monitoring Well   Construction Depart Associable?	
Drillhole   Borchole   Was Casing Cut Off Below Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   No   If Yes, Was Hole Retorpoed?   Yes   No   No   If Yes   No   If Yes, Yes   No   No   If Yes   No   If Yes   No   If Yes, Yes   No   If Yes   If Yes   No   If Yes   No   If Yes   If Yes   No   If Yes   No   If Yes   If Y		[ ] [ ] X Not implicable
Borehole   Was Casing Cut Off Below Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   No   No   No   No   No   No   N		
Was Casing Cut Off Below Surface?   Yes   No   Did Sealing Material Rise to Surface?   Yes   No   No   No   No   No   No   No   N		If No. Explain
Construction Type:    Did Sealing Material Rise to Surface?   Yes   No   Did Material Sealing Material Rise to Surface?   Yes   No   No   No   No   No   No   No   N	☐ Borehole	
Dilled   Driven (Sandpoint)   Dug   Did Material Settle After 24 Hours?   Yes   No. NA		Was Casing Cut Off Below Surface? Yes No
Dilled   Driven (Sandpoint)   Dug   Did Material Settle After 24 Hours?   Yes   No. NA	Construction Type:	Did Sealing Material Rise to Surface? X Yes No
Semination Type:	TO STORY OF THE PARTY OF THE PA	
Sealing Material   Sealing Material   Conductor Pipe-Gravity   Conductor Pipe-Pumped	Briven (bandpoint)	
Conductor Pipe-Gravity   Conductor Pipe-Pumped		
Unconsolidated Formation	Formation Tymes	(5) Required Method of Placing Sealing Material
Dump Bailer   Other (Explain) Gravity		Conductor Pipe-Gravity Conductor Pipe-Pumped.
Total Well Depth (ft.)   12.30   Casing Diameter (ins.)   2.07   (6) Sealing Materials   Neat Cement Grout   Sand-Cement (Concrete) Grout   Sand-Cement (Concrete) Grout   Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite   Bentonite Pellets   Granular Bentonite   Bentonite - Cement Grout   Granular Bentonite   Granular Bentonite - Cement Grout   Granular Bentonite - G	Unconsolidated Formation Bedrock	
Neat Cement Grout	Total Well Death (ft.) 1/1.30 Casing Diameter (inc.) 2.07	
Casing Depth (ft.)   A.30   Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite   Glay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout   Granular Bentonite   Gran		
Casing Depth (ft.)   4.50   Concrete   Clay-Sand Slurry   Bentonite Pellets   Granular Bentonite   Bentonite - Cement Grout   Granular Bentonite   Chipped Bentonite   Bentonite - Cement Grout   Bentonite - Cement Grout   Granular Bentonite   G	(From groundsurface)	
Was Well Annular Space Grouted?	a	
Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth?   Bentonite - Cement Grout   Bentonite - Cement Grout   Ghipped Bentonite   Grouped Bentonite   Bentonite - Cement Grout   Ghipped Bentonite   Grouped Bento	Casing Depth (it.) 17.50	
If Yes, To What Depth? Feet Chipped Bentonite  Sealing Material Used From (Ft.) To (Ft.) Sacks Sealant One or Mud Weight  3 8" Granular Bentonik Surface 14.30 13  Comments:  Name of Person or Firm Doing Sealing Work University Of Late Signed Street or Route Follow-up Necessary Follow-up Necessary  Feet Chipped Bentonite Circle Only Yards, Sacks Sealant One One Mix Ratio One One Mix Ratio One Mix Ratio One One One Mix Ratio One One Mix Ratio One One Mix Ratio One		Clay-Sand Slurry Granular Bentonite
Sealing Material Used   From (Ft.)   To (Ft.)   Sack Sealant (Circle Sack Sealant One)   One or Mud Weight	Was Well Annular Space Grouted? Yes No Unknown	Bentonite-Sand Slurry Bentonite - Cement Grout
Sealing Material Used  From (Ft.) To (Ft.) Sacks Sealant or Volume or Mud Weight  Surface   14.30   1/3   3   3   3   3   3   3   3   3   3		Chipped Bentonite
Surface   4.30   13   Surface   4.30   Surfac		
Surface   4.30   13   Surface   4.30   Surfac	Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant Corol or Mud Weight
Comments:   Name of Person or Firm Doing Sealing Work   (10) FOR DNR OR COUNTY USE ONLY		or Volume One) of Wild Weight
Comments:   Name of Person or Firm Doing Sealing Work   (10) FOR DNR OR COUNTY USE ONLY	31.4.6	Surface   1   2
Comments:   Name of Person or Firm Doing Sealing Work   (10) FOR DNR OR COUNTY USE ONLY	18" Granulas Bentonik	4,30   13
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph		
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph		
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph		
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph		
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph		
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph		
Name of Person or Firm Doing Sealing Work  TNVNOA(I) WC.  Signature of Person Doing Work  Date Signed  Noncomplying Work  Street or Route  Street or Route  Only  Telephone Number  City, State, ZiplCode  Telephone  Teleph	Comments	
Signature of Person Doing Work  Mith Junuary 09 2101  Street or Route  850 Hwy 153 Swift F (715) 693-1750  City, State, ZiglCode  Date Received/Inspected  Date Received/Inspected  Reviewer/Inspector  Complying Work  Follow-up Necessary	Conditions.	
Signature of Person Doing Work  Mith Junuary 09 2101  Street or Route  850 Hwy 153 Swift F (715) 693-1750  City, State, ZiglCode  Date Received/Inspected  Date Received/Inspected  Reviewer/Inspector  Complying Work  Follow-up Necessary		// 0\
Signature of Person Dorng Work  Mith Junius Date Signed  Reviewer/Inspector  Reviewer/Inspector  Complying:Work  Reviewer/Inspector  Complying:Work  Reviewer/Inspector  Follow-up Necessary  Follow-up Necessary		(10) FOR DNR OR COUNTY USE ONLY
Signature of Person Doing Work    Mark Jennessen   Date Signed   Reviewer/Inspector   Complying Work	YANAAAA WAA	
Street or Route  Street or Route  Street or Route  Telephone Number  Street or Route  Telephone Number  Follow-up Necessary  City, State, ZiplCode		Date Received/Inspected District/County
Street or Route  Street or Route  Street or Route  Noncomplying Work  Follow-up Necessary  City, State, ZiplCode	Signature of Person Doing Work Date Signed	
8So Hwy 153 Switch (715) 693-1750 Follow-up Necessary City, State, ZiplCode	Signature of Person Doing Work Date Signed	
City, State, ZipCode	Signature of Person Doing Work  Date Signed  OP 2101  Street or Route  Telephone Number	Reviewer/Inspector Complying Work
Yxcian IIISIACC	Signature of Person Doing Work  Date Signed  OP 2101  Street or Route  Telephone Number	Reviewer/Inspector Complying Work  Noncomplying Work
T CONTINUE AND I SECTION	Signature of Person Doing Work  Date Signed  OP 2101  Street or Route  Telephone Number	Reviewer/Inspector Complying Work  Noncomplying Work

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 12-91

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

GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole County	Original Well Owner (If Known)
Location MW-2 Chupewa	Violetta Semanko
, DE	Present Well Owner
VW 1/4 of VW 1/4 of Sec. 5; T. 2B N; R. 6	Violetta Scinanko
(If applicable)	Street or Route
Gov't Lot Grid Number	407 East MN Street
Grid Location	City, State, Zip Code
ft. N. S.,ft. E. W.	Cadott W1 54727
Cixil Town Name	Facility Well No. and/or Name (If Applicable)   WI Unique Well No.
(ad Mt	JX 895
Street Address of Well	Reason, For Abandonment
407 East MD Street	Site Clonine
City, Village	Date of Abandonment
Cadott	09/17/01
ELL/DRILLHOLE/BOREHOLE INFORMATION	04/14/01
Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 7,19
	· · · · · · · · · · · · · · · · · · ·
(Date) 08/22/2000	Pump & Piping Removed?
17f	Liner(s) Removed? Yes No Not Applicable
Monitoring Well Construction Report Available?	Screen Removed? Yes No Not Applicable
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? Yes No
Drillhole	If No, Explain
☐ Borehole	
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes X No
Other (Specify)	If Yes, Was Hole Retopped? Yes No. NA
	(5) Required Method of Placing Sealing Material
Formation Type:	· ·
☐ Unconsolidated Formation ☐ Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped.
_	Dump Bailer
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07	(6) Sealing Materials For monitoring wells and
_	(6) Sealing Materials For monitoring wells and monitoring well boreholes only
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)	(6) Sealing Materials For monitoring wells and monitoring well boreholes only  Sand-Cement (Concrete) Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only  Sand-Cement (Concrete) Grout Concrete Bentonite Pellets
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only  Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry For monitoring wells and monitoring well boreholes only Bentonite Pellets Granular Bentonite
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes XINO Unknown	(6) Sealing Materials For monitoring wells and monitoring well boreholes only    Neat Cement Grout monitoring well boreholes only   Sand-Cement (Concrete) Grout   Concrete   Bentonite Pellets   Granular Bentonite   Bentonite - Cement Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only  Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry For monitoring wells and monitoring well boreholes only Bentonite Pellets Granular Bentonite
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth?	(6) Sealing Materials For monitoring wells and monitoring well boreholes only    Neat Cement Grout   monitoring well boreholes only   Sand-Cement (Concrete) Grout   Bentonite Pellets   Clay-Sand Slurry   Granular Bentonite   Bentonite - Cement Grout   Wo Yards, (Circle   Mix Ratio
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes XINO Unknown	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout   Chipped Bentonite   Mix Ratio or Mud Weight
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Neat Cement Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Neat Cement Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout
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Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bertonik	(6) Sealing Materials For monitoring wells and monitoring well boreholes only    Neat Cement Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Chipped Bentonite     To (Ft.)   To (Ft.)   Sacks Sealant or Volume   One     Surface   14.76   13
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bertonik	(6) Sealing Materials For monitoring wells and monitoring wells and monitoring well boreholes only    Sand-Cement (Concrete) Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes V.No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work	(6) Sealing Materials For monitoring wells and monitoring well boreholes only    Neat Cement Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Chipped Bentonite     To (Ft.)   To (Ft.)   Sacks Sealant or Volume   One     Surface   14.76   13
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work	(6) Sealing Materials For monitoring wells and monitoring well boreholes only    Neat Cement Grout   Bentonite Pellets   Granular Bentonite     Clay-Sand Slurry   Bentonite - Cement Grout   Bentonite - Cement Grout     Chipped Bentonite     To (Ft.)   Sacks Sealant or Volume   One     Surface   14.76   13     Granular Bentonite - Cement Grout     Mix Ratio or Mud Weight     Surface   14.76   13     District/County   District/County     Date Received/Inspected   District/County
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work  Signature of Person Doing Work Date Signed	(6) Sealing Materials For monitoring wells and monitoring well boreholes only    Neat Cement Grout
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bentonik  Comments:  Name of Person or Firm Doing Sealing Work	(6) Sealing Materials   For monitoring wells and   monitoring well boreholes only   monitoring well
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bontonik  Comments:  Name of Person or Firm Doing Sealing Work  YMYMAGIN MC.  Signature of Person Doing Work  Street or Route  Telephone Number	(6) Sealing Materials   For monitoring wells and   monitoring well boreholes only
Total Well Depth (ft.) 14.76 Casing Diameter (ins.) 2.07 (From groundsurface)  Casing Depth (ft.) 14.76  Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth? Feet  Sealing Material Used  3 8" Granular Bontonik  Comments:  Name of Person or Firm Doing Sealing Work  MYDAGO MC.  Signature of Person Doing Work Date Signed  MATA LINGUIST OF 121101	(6) Sealing Materials   For monitoring wells and   monitoring well boreholes only   monitoring well sand)   monitoring well boreholes only   monitoring well   monitoring well boreholes only   monito

## State of Wisconsin Department of Natural Resources

#### WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 12-91

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

GENERAL INFORMATION	(2) FACILITY NAME
Well/Drillhole/Borehole County	Original Well Owner (If Known)
Location MW-10 Chippewa.	Violetta Semanko
	Present Well Owner
NW 1/4 of NW 1/4 of Sec. 5 ; T. 2/2 N; R. 6 WW	Violetta Scinanko
(If applicable)	Street or Route
Gov't Lot Grid Number	407 East MN Street
Grid Location Grid Location	City, State, Zip Code
	(adott 11)1 54727
ft.   N.   S.,ft.   E.   W.   Civil Town Name	Facility Well No. and/or Name (If Applicable)   WI Unique Well No.
Co 1 st	racinty wen not analog rame (if rippineable)   WI Onique wen 140.
Street Address of Well	
	Reason For Abandonment
407 East MD Street	Site Clonice
City, Village	Date of Abandonment
Cadott	09/17/01
ELL/DRILLHOLE/BOREHOLE INFORMATION	
Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 7,96
(Date) 11 0 7 2000	Pump & Piping Removed? Yes No X Not Applicable
11 0 7 7000	Time (A) Danier 19
Monitoring Well Construction Report Available?	C. D. 10
· · · · · · · · · · · · · · · · · · ·	Screen Removed?  Casing Left in Place?  Yes No No Not Applicable
☐ Water Well ☐ Drillhole ☐ Ves ☐ No	If No, Explain
·	-it ivo, explain
Borehole	W. G. L. G. COND. L. G. C. D. T. W. T. W.
	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes No
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes X No
Other (Specify)	If Yes, Was Hole Retopped? Yes No. NA
	(5) Required Method of Placing Sealing Material
Formation Type:	Conductor Pipe-Gravity Conductor Pipe-Pumped.
☐ Unconsolidated Formation ☐ Bedrock	
m., w. p. 16.11 6.1 p	Dump Bailer Other (Explain) Gravity
	(6) Sealing Materials For monitoring wells and
(From groundsurface)	Neat Cement Grout monitoring well boreholes only
	Sand-Cement (Concrete) Grout
Casing Depth (ft.) 14,66	Concrete Bentonite Pellets
	Clay-Sand Slurry Granular Bentonite
Was Well Annular Space Grouted? Yes No Unknown	☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout
If Yes, To What Depth? Feet	Chipped Bentonite
Sealing Material Used	From (Ft.) I To (Ft.) Roacks-beatant 'O> I of Mud Woight
	or Volume One) of Mud Weight
3/8" Granulas Bentonik	Surface 14,66 13
16 Granulas Echtonik	Surace 14.66 13
Comments:	
Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
Enviroach Unc	Date Received/Inspected District/County
	District District County
Signature of Person Doing Work Date Signed	
Rrista Jennessen 109/21/01	Reviewer/Inspector Complying Work
Street or Route Telephone Number	
Street or Route Telephone Number	Reviewer/Inspector Complying Work
Rrista Jennessen 109/21/01	Reviewer/Inspector Complying Work  Noncomplying Work



ENVIRONMENTAL & REGULATORY SERVICES
PECFA
P. O. Box 8044
Madison, Wisconsin 53708-8044
Fax#: (608) 267-1381
TDD #: (608) 264-8777
www.commerce.state.wi.us
Scott McCallum, Governor
Brenda J. Blanchard, Secretary

August 15, 2001

Ms. Violetta Semanko 407 East MD Street Cadott, WI 54727

Subject:

**Conditional Case Closure** – Semanko Property

407 East MD Street, Cadott

COMMERCE #54727-9359-07

DNR #03-09-099703

Dear Ms. Semanko:

The above referenced site was reviewed for closure by Wisconsin Department of Commerce PECFA Site Review (Commerce) staff in response to the closure request prepared by your consultant, Envirogen. It is understood that there is residual soil and groundwater contamination left on-site. Using the standards established in NR 700, and the risk criteria of Comm 46, Commerce has determined that this site does not pose a significant threat to the environment and human health and no further investigation or remedial action is necessary.

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

- 1. A notification must be placed on the property deed addressing residual petroleum impacts to soil and groundwater on the above-mentioned property. For case closure Commerce will need the deed notification containing the County Register of Deeds' recording information. Commerce suggests including a site map indicating where the remaining contamination exists. Enclosed are examples of "Notice of Contamination to Property" for your use. If you wish to modify the language, submit copies to this office for approval prior to filing. If an electronic copy of the "Notice of Contamination to Property" is desired, you may contact Commerce and a copy will be forwarded to you.
- 2. All monitoring wells must be abandoned and the appropriate forms forwarded to the letterhead address.

**IMPORTANT:** Before this case can be officially listed as "closed" on the Wisconsin Department of Commerce/Natural Resources computer database, you or your consultant must submit the requested information.

If, in the future, 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.

It is important to realize that 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

Ms. Violetta Semanko
Conditional Case Closure – Semanko Property, 407 East MD Street, Cadot
COMMERCE #54727-9359-07
DNR #03-09-099703

Page 2

If you have any questions, feel free to contact me at (608) 266-0593 or by e-mail at btaylor@commerce.state.wi.us.

Sincerely,

Brian F. Taylor Hydrogeologist Department of Commerce PECFA Site Review Section

Enclosure

Cc:

electronic storage

Ms. Victoria Flowers, Envirogen

#### CORRESPONDENCE/MEMORANDUM -

RECEIVED

JUL 1 6 2001

**ERS DIVISION** 

DATE:

July 10, 2001

TO:

Shawn Wenzel - COMM

FROM:

Patrick Collins - Baldwin

SUBJECT: Site Transfers

Shawn, Here are two sites being transferred to Commerce. Call if you have any questions.

Violetta Semanko Residence

03-09-099703

**Chieftan Oil Bulk Facility** 

02-09-213903

Shawn, the SI for this site is not complete in my opinion. Two things that jump out immediately are; only one round of sampling for some of the wells, and lack of investigation of the loading rack where the first soil sample was taken.





July 10, 2001

#### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor Darrell Bazzell, Secretary Scott A. Humrickhouse, Regional Director Baldwin Service Center 990 Hillcrest Street Suite 104 Baldwin, Wisconsin 54002 Telephone 715-684-2914 FAX 715-684-5940

JUL 1 6 2001

**ERS DIVISION** 

Ms. Violetta Semanko 407 East MD Street

Cadott, WI 54727

Site ID #: 03-09-099703 Chippewa County

Subject: Case Transfer – Violetta Semanko Residence, 407 East MD Street, Cadott, WI

Dear Ms. Semanko:

The State of Wisconsin divides the jurisdiction for sites contaminated by petroleum storage tank systems between the WDNR and the Department of Commerce (COMM). This is based on statutory definitions of high, medium and low risk sites. Under this statute, oversight of sites falling under the definition of "low or medium risk" is the responsibility of Commerce rather than our agency. Your consultant has advised us that your site falls under the definition of "low or medium risk". As such, staff at Commerce will provide further review of submittals and all technical assistance.

All future questions and correspondence regarding this site should be directed to the Department of Commerce. Correspondence should be addressed to:

Mr. Shawn Wenzel (608) 261-5401 WI Dept. of Commerce 201 W. Washington Avenue P.O. Box 8044 Madison, WI 53708-8044

Please include both your PECFA claim number, if you have one, and your DNR site identification number in your correspondence.

Sincerely,

Patrick J. Collins
Patrick J. Collins
Hydrogeologist

c: Victoria Loveland - Envirogen Shawn Wenzel - COMM





850 Hwy 153, Suite F Mosinee, WI 54455

Tel: 715/693-1750 Fax: 715/693-1766

www.envirogen.com

JUL 1 6 2001

**ERS DIVISION** 

May 24, 2001

Mr. Patrick Collins Wisconsin Department of Natural Resources 990 Hillcrest, Suite 104 Baldwin, Wisconsin 54002

Re: Closure request for the Semanko Property Site, Cadott, Wisconsin

Envirogen Project No. 980273 WDNR ID No. 03-09-099703 PECFA Claim No. 54727-9359-07

Dear Mr. Collins:

Enclosed please find the closure request for the Semanko Property site located in Cadott, Wisconsin. No "high risk" criteria as defined in the 1999 Wisconsin Act 9, 101.144(1)(aq) exist at the site. Therefore, Envirogen is requesting file transfer of the site to:

Shawn Wenzel
Wisconsin Department of Commerce.
201 W. Washington Avenue
P.O. Box 8044
Madison, Wisconsin 53708

Please feel free to contact me at (715) 693-1750 if you have any questions regarding the site.

Sincerely,

ENVIROGEN, INC.

Victima L. Lovelan

Victoria L. Loveland

Senior Geological Engineer/Hydrogeologist

VLL/jcp

cc(w/enc):

Mrs. Violetta Semanko



850 Hwy 153, Suite F Mosinee, WI 54455

Tel: 715/693-1750 Fax: 715/693-1766 www.envirogen.com

May 24, 2001

Mr. Shawn Wenzel Wisconsin Department of Commerce 201 W. Washington Avenue P.O Box 8044 Madison, Wisconsin 53708

Re: Closure Request for the Semanko Property Site located at

407 East MD Street, Cadott, Wisconsin 54727

Envirogen Project No. P980273 WDNR ID No. 03-09-099703 PECEA Claim No. 54727 0250 0

PECFA Claim No. 54727-9359-07

Dear Mr. Wenzel:

Envirogen, Inc. (Envirogen) has completed site investigation activities at the referenced site and is requesting site closure under Wisconsin Department of Commerce (COMM) Emergency Rule COMM 46.06. No environmental factors or risk criteria exist at the site, and the site is under the sole management of COMM.

The COMM Case Summary and Close Out Form is provided as Attachment A. Figures, tables, and graphs referenced in this closure document are included as Attachments B, C, and D, respectively. Wisconsin Department of Natural Resources forms are provided in Attachment E. Soil and groundwater laboratory analytical reports are provided in Attachments F and G, respectively. The following paragraphs present a summary of site investigation and remedial activities along with justification for site closure.

#### **Summary of Investigation Activities**

The Semanko Property site is located in Cadott, Wisconsin. The site is part of the NW1/4, NW1/4, Section 5, T28N, R6W, Chippewa County, as illustrated in Figure 1. The site has historically been, and currently is, a private residence. The site is primarily grass- and gravel-covered. A single-story residence is located on the west-central portion of the site. A two-car garage is located on the southern part of the site and an alley is located just south of the garage. State Highway 27 borders the site to the west and East MD Street borders the site to the north with a gasoline station beyond. An alley and vacant lot exist to the south, and a residence is located to the east. Figure 2 illustrates the site configuration.

One 300-gallon underground storage tank (UST) was utilized on-site for the storage and distribution/resale of unleaded gasoline, and was located near the southwestern corner of the garage. The installation date

Mr. Wenzel May 24, 2001, Page 2



of the tank is unknown; however, it was removed from the site on April 10, 1996. Soil contamination was observed during tank removal activities, but no samples were taken to confirm contamination existed.

Envirogen was contracted to perform site investigation and remedial activities. On July 6, 2000, six Geoprobe borings, GP-1 through GP-6, were advanced at the site. All Geoprobe borings were advanced to depths ranging between 12 and 20 feet bls. On August 22, 2000, five monitoring wells were installed at the site. All wells were advanced to 15 feet below land surface (bls) and constructed with 10 feet of screen, from 5 feet bls to 15 feet bls. A sixth well, MW-10, was installed at the site on November 7, 2001, and was also constructed with 10 feet of screen from 5 to 15 feet bls.

Soil samples were collected from each Geoprobe boring location and submitted to a state-certified laboratory for analysis of petroleum volatile organic compounds (PVOCs) and gasoline range organics (GRO). PVOCs and GRO were detected in three of the 11 samples analyzed. Concentrations exceeded Wisconsin Administrative Code (WAC) NR 720 generic soil standards in only two of the samples, one of which may be more indicative of groundwater contamination. Table 1 summarizes laboratory analytical results. Figure 3 illustrates the soil benzene distribution. Analytical results indicate that petroleum contaminants above WAC NR 720 generic soil standards were present in and around the former UST basin, and the soil contaminant plume has been defined.

Site geology, as compiled from boring logs, consists mainly of medium-grained sand intermingled with some silt and clay. Bedrock was not encountered during drilling activities, although a hardpan layer was encountered at several boring locations. Based on data obtained from boring logs, two cross-sections of the site geology were prepared. Figures 4 and 5 illustrate the geology and soil benzene distribution cross-sections in north-south and east-west orientations, respectively.

Groundwater samples were collected from Geopbrobe borings on July 6, 2000, and from all wells on August 29, 2000, December 8, 2000, and March 13, 2001. Samples were submitted to a state-certified laboratory for analysis of volatile organic compounds (VOCs) or PVOCs and GRO. Groundwater samples collected at monitoring well MW-5, in the former UST basin, exhibited the highest concentrations of petroleum at the site. Concentrations were present above NR 140 enforcement standards (ESs) for benzene, ethylbenzene, toluene, and xylene (BETX) compounds, naphthalene, and/or methyl tertiary butyl ether (MTBE) in MW-2, MW-4, and MW-5. Several other VOCs were identified in the initial groundwater sample collected at GP-1/MW-5; however, those compounds have no NR 140 standards. Table 2 summarizes groundwater analytical results for all sampling events, and Figure 6 illustrates the benzene distribution as observed on March 13, 2001.

Contaminant concentrations have illustrated a steady decrease in MW-5 over the four sampling events as illustrated in Graph 1. Concentrations in MW-2 also have illustrated a decrease for all compounds since the initial sampling event. Samples from MW-4 appear to be relatively stable, and seem to illustrate seasonal fluctuations. Benzene levels are barely over its ES and naphthalene concentrations have

Mr. Wenzel May 24, 2001, Page 3



decreased to below method detection limits. The December 8, 2000, sample from MW-10 illustrated a benzene concentration above ES, but the most recent sampling event indicated that the benzene concentration decreased to below the ES. Naphthalene also illustrated a decrease, originally detected above its preventive action limit, but decreased to below detection limit on the March 13, 2001 sampling round.

Groundwater level measurements were obtained from the wells during sampling activities. Depth to groundwater at the site is approximately 10 feet bls. Groundwater flow direction is to the southwest under a hydraulic gradient of  $9.2 \times 10^{-2}$  ft/ft. Figure 7 illustrates the potentiometric surface as measured on March 9, 2001.

#### **Natural Attenuation**

Decreasing contaminant concentrations with time, in conjunction with a stable or receding contaminant plume, are primary evidence that natural attenuation processes are effective. Natural attenuation depends upon both the petroleum contaminant's reactivity and the site's geologic and chemical characteristics. To assess any changes occurring in the site's geochemical environment, geochemical parameters, such as dissolve oxygen, nitrate, dissolved manganese, ferrous iron, sulfate, and alkalinity, were collected by Envirogen personnel and submitted to a state-certified laboratory for analysis.

During biodegradation of petroleum contaminants, microbes directly utilize dissolved oxygen, nitrate, and sulfate as terminal electron acceptors. If biodegradation is occurring at the site, it is expected that these compounds will be depleted within the dissolved contaminant plume. Dissolved manganese (Mn<sup>2+</sup>) and dissolved iron (Fe<sup>2+</sup>) are byproducts of microbial metabolism of petroleum contaminants. These compounds may increase within the dissolved plume.

A good indication that natural attenuation is occurring at the Semanko Property site is the measurement of dissolved oxygen in each monitoring well. Of the natural attenuation parameters, oxygen is the most favored electron acceptor. Microbial biodegradation of petroleum compounds results in the release of a number of different atoms and electrons. Free electrons are easily attached to dissolved oxygen molecules in the water. This allows for the absorption of electrons but grants the transformation of oxygen molecules into different byproducts. The end results are lower concentrations of dissolved oxygen in the presence of natural attenuation. This low dissolved oxygen concentration trend is evident in MW-5, where groundwater contamination is the highest. Concentrations increase in wells where contamination is not present.

Other natural attenuation parameters include nitrate, iron, and manganese. After dissolved oxygen has been depleted in the microbiological treatment zone, nitrate may be used as an electron acceptor. Nitrogen transformation results in lower concentrations of nitrates in the presence of natural attenuation. This trend is also clear at the Semanko Property site. Lower nitrate concentrations exist in the area of contamination but increase in clean areas.



Iron and manganese will also be used as electron acceptors during the process of natural attenuation. As the acceptance of electrons causes the reduction of iron and manganese, a water-soluble form of each element is produced. The results are higher concentrations of dissolved iron and manganese in the groundwater with the occurrence of natural attenuation. This trend is evident with respect to manganese in the area of MW-5. As expected, iron and manganese concentrations dissipate in wells that have not been impacted by the petroleum contamination.

Finally, alkalinity is used as a measure of the buffering capacity of groundwater and is affected by carbon dioxide produced from microbial biodegradation of petroleum contaminants. Alkalinity is expected to increase within the contaminant plume. Concentrations of alkalinity are moderately high in MW-5, but do not appear to be as conclusive as the remaining natural attenuation parameters. Table 3 summarizes the natural attenuation parameter results.

#### **Conclusions**

Site investigation activities have been completed at the Semanko Property site. Soil contamination exists on-site, however, no health risk is associated with the soil contamination. Four quarters of natural attenuation and groundwater contaminant sampling indicate that groundwater contaminant levels on-site are above WAC NR 140 ESs but illustrate steadily decreasing trends. Additionally, natural attenuation parameters indicative of active bioremediation are present at the site and are expected to assist in restoring groundwater quality and reducing contaminant concentrations over time.

No environmental factors or risk criteria exist at the site. Land use will not constitute a situation in which the minor residual contamination poses an unacceptable risk to human health or the environment or sensitive receptors. There are no potable or municipal wells located within 100 feet and 1,000 feet, respectively, of a monitoring well with contaminant concentrations exceeding ESs at the site. There do not appear to be other potential receptors for a long distance in the downgradient direction.

All the data presented supports Envirogen's conclusion that case closure is warranted for the Semanko Property site. Envirogen recommends that no further action be required at the site and the site be granted conditional closure. If you have any questions or require additional information, please contact me at (715) 693-1750.

Sincerely,

ENVIROGEN, INC.

Victoria L. Loveland

Senior Geological Engineer/Hydrogeologist

cc(w/enc): Mrs. Violetta Semanko



#### **ACRONYM DEFINITIONS**

**BETX** - benzene, ethylbenzene, toluene, and xylenes

**COMM** - Department of Commerce

**DO -** dissolved oxygen **Envirogen -** Envirogen, Inc.

ES - enforcement standardGRO - gasoline range organicsMTBE - methyl tertiary butyl ether

NA - not analyzed

NS - not sampled/no standard PALs - preventive action limits

**PVOCs** - petroleum volatile organic compounds

TMB - trimethylbenzene

UST - underground storage tankVOCs - volatile organic compoundsWAC - Wisconsin Administrative Code

**WDNR** - Wisconsin Department of Natural Resources



#### Attachment A

**COMM Case Summary and Closeout Form** 

# COMMERCE CASE SUMMARY AND CLOSE OUT

Personal information you provide may be used for secondary purposes [Privac	y Act, s. 15.04(1)(M)]. Date Received (office use only)
SEE INSTRUCTIONS ON THE BACK OF THIS PAGE	
A. COMMERCE NUMBER: 5 4 7 1 7 - 9 3	59-07
DNR BRRTS NUMBER (optional): 0 3 - 0 9 - 0	99703
B. Responsible Party or Owner Name	C. Responsible Party or Owner Phone Number
ViolettaSemanko	(715) 289-4612
D. Responsible Party or Owner Address, City, State and Zip Code	E. Remedial Action Site Name, Address, City and Zip Code
407 E. MS Street	Semanko Property Site
Cadoff, Wisconsin 54727	407 E. MD Street
	CadoH, Wisconsin 54727
Enforcement Actions or Permits Closed Out? Y X No potable wells, Municiple wells > 1202	eptors: None
SOIL	
Soil Type: Silly sand	Depth to Bedrock: >36 feet
1	inal Confirmation Sampling Method:
,	/ere Soils Excavated? Y _xN Quantity: <u>ルA</u> Tons
Treatment/Disposal Method: NA T	reatment/Disposal Location: NA
GROUNDWATER (if applicable)	
Groundwater Encountered? X Y N	Monitoring Well(s) Installed? X Y N
Depth to Groundwater & Flow Direction: ~いなり	Perched Water?Y _X N Depth:NAfeet
Preventive Action Limit exceeded at this time? X Y	
Environmental Consultant Name and Phone Number	Environmental Consultant Address, City, State and Zip Code
Envirogen, Inc.	850 Hw 153 Suite F
(715) 693-1750	850 Hwy 153, Suite F Mosince, Wisconsin 54455
I, the environmental consultant, certify with my signature that the that no further action be required at this site.	ne information presented is true and accurate and recommend
Consultant Signature: Videna L. Loveland  ERS-10XXX (2/97)  9  \text{ \te	Date: 4/27/01



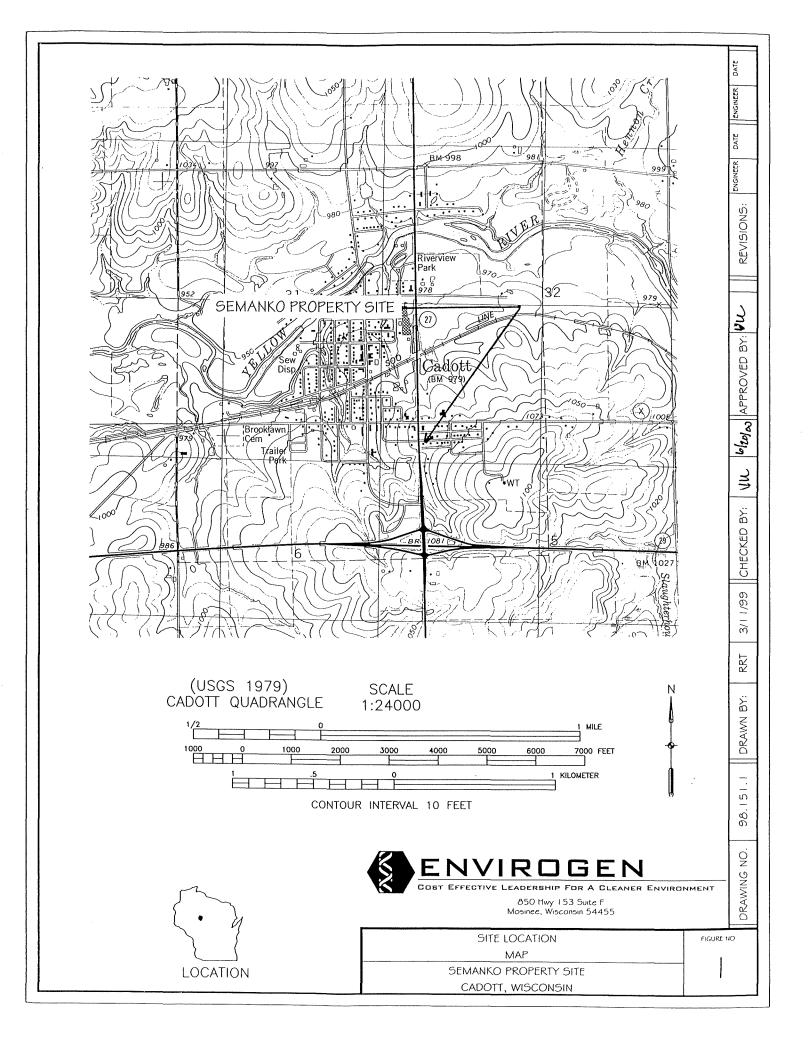
Attachment B

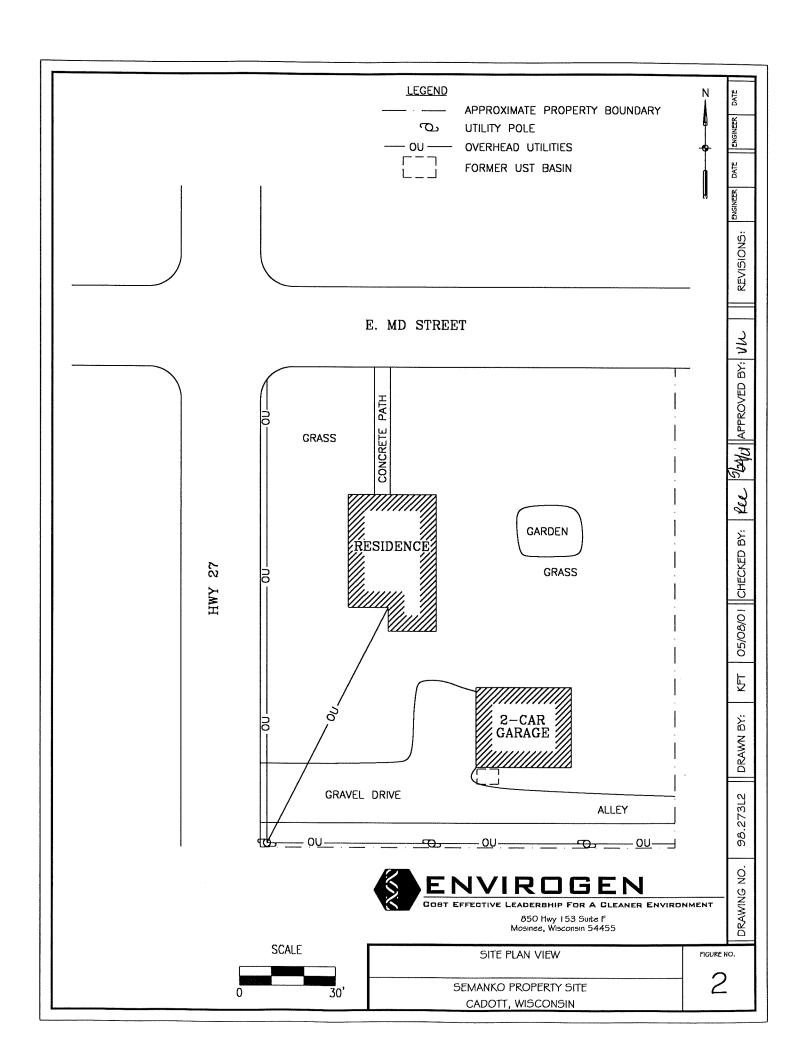
Figures

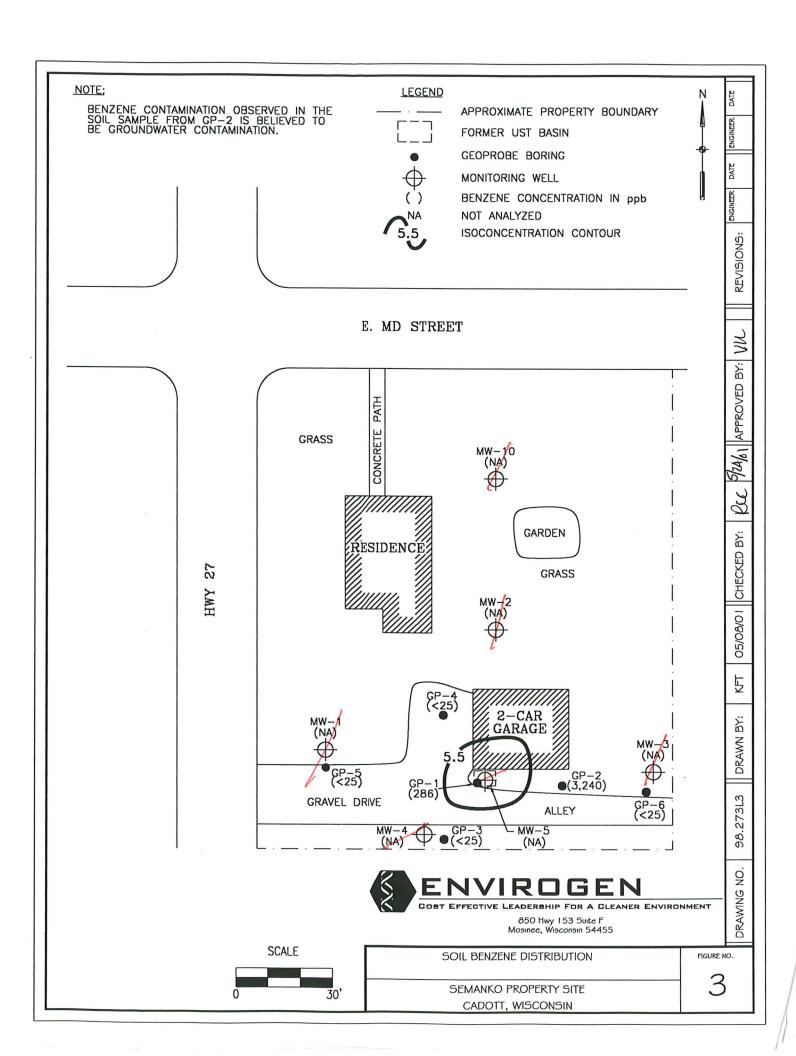


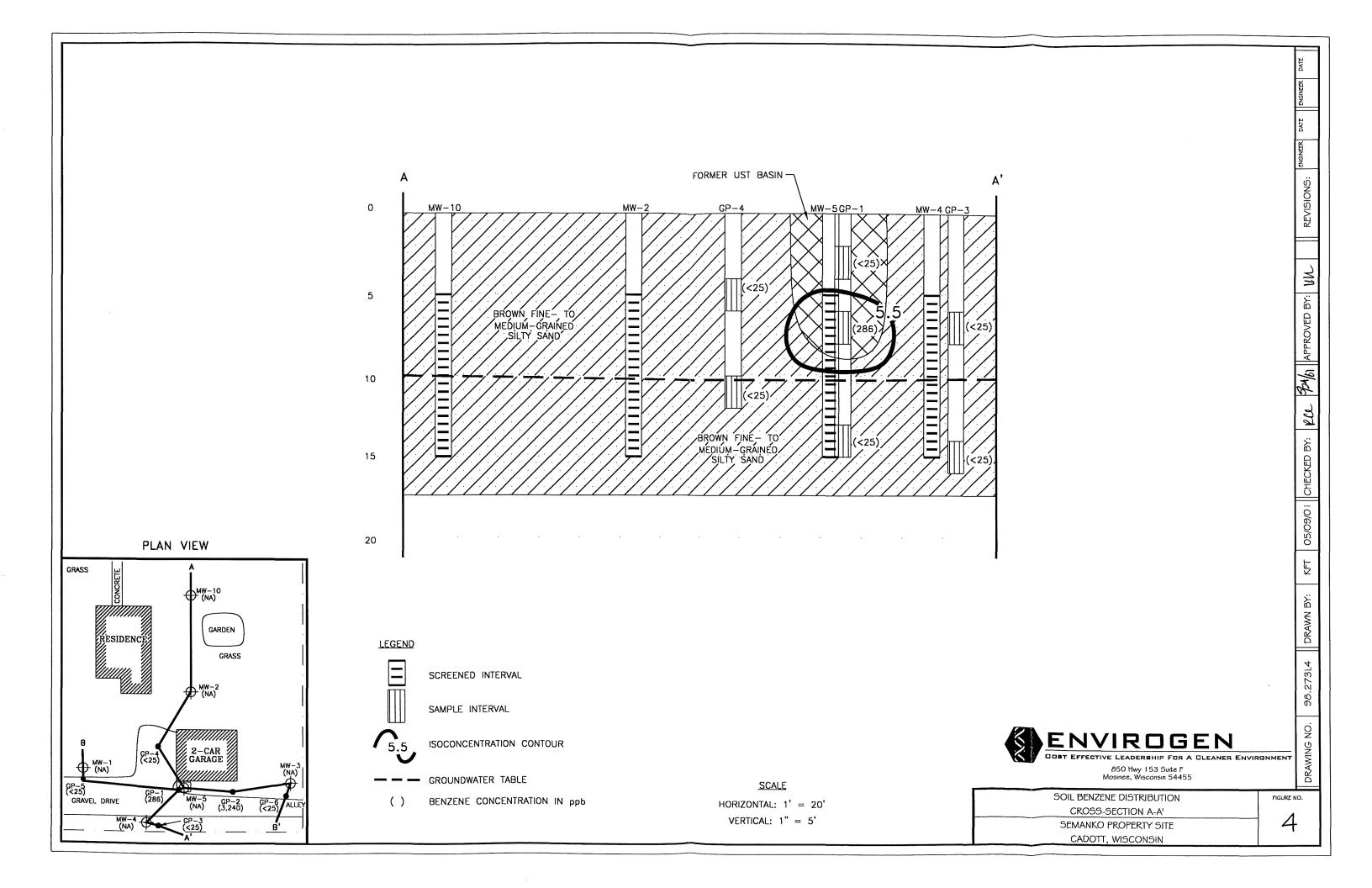
#### **LIST OF FIGURES**

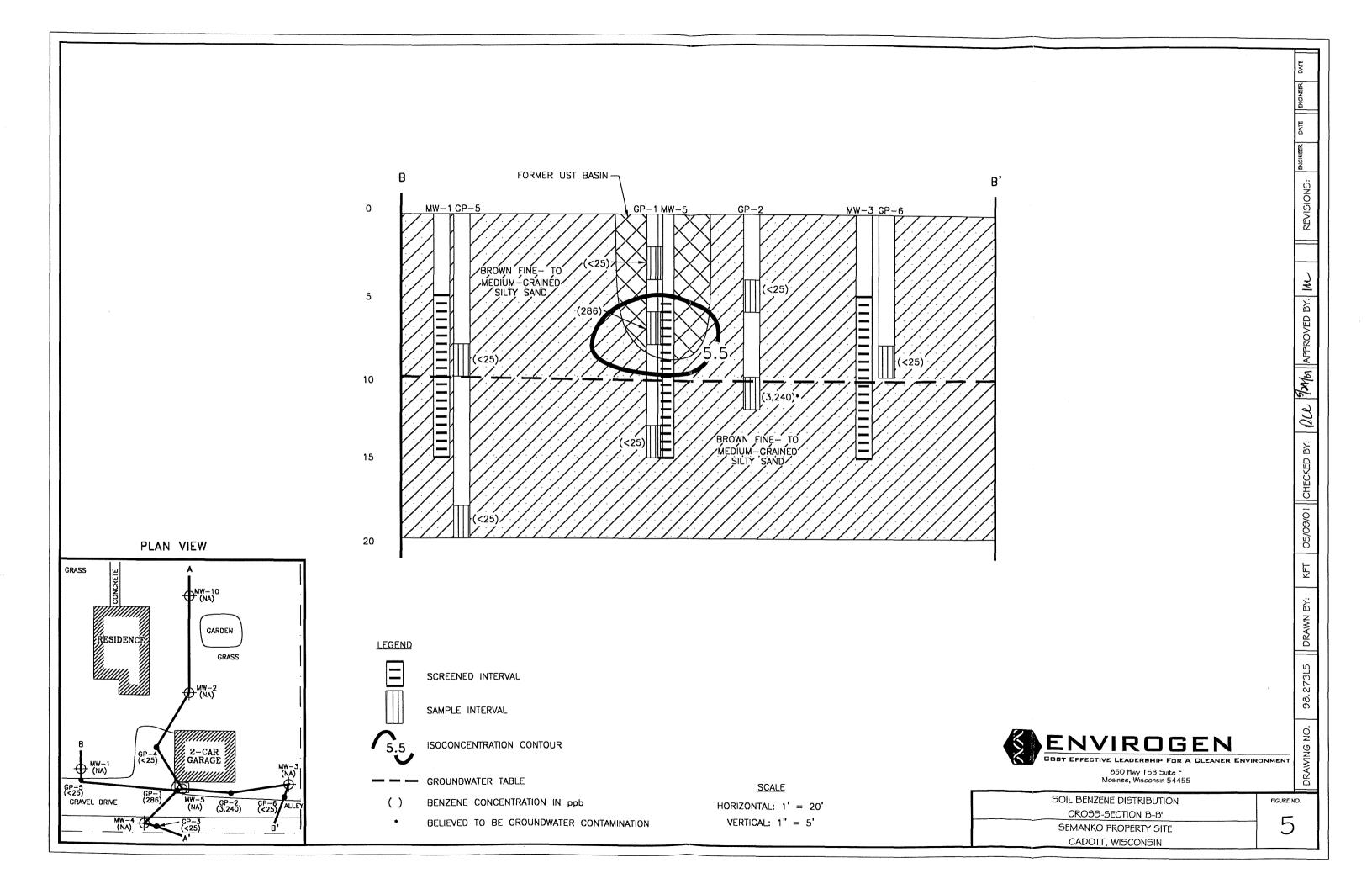
1	Site Location Map
2	Site Plan View
3	Soil Benzene Distribution
4	Soil Benzene Distribution Cross Section A-A
5	Soil Benzene Distribution Cross Section B-B'
6	Groundwater Benzene Distribution (3/9/01)
7	Potentiometric Surface (3/9/01)

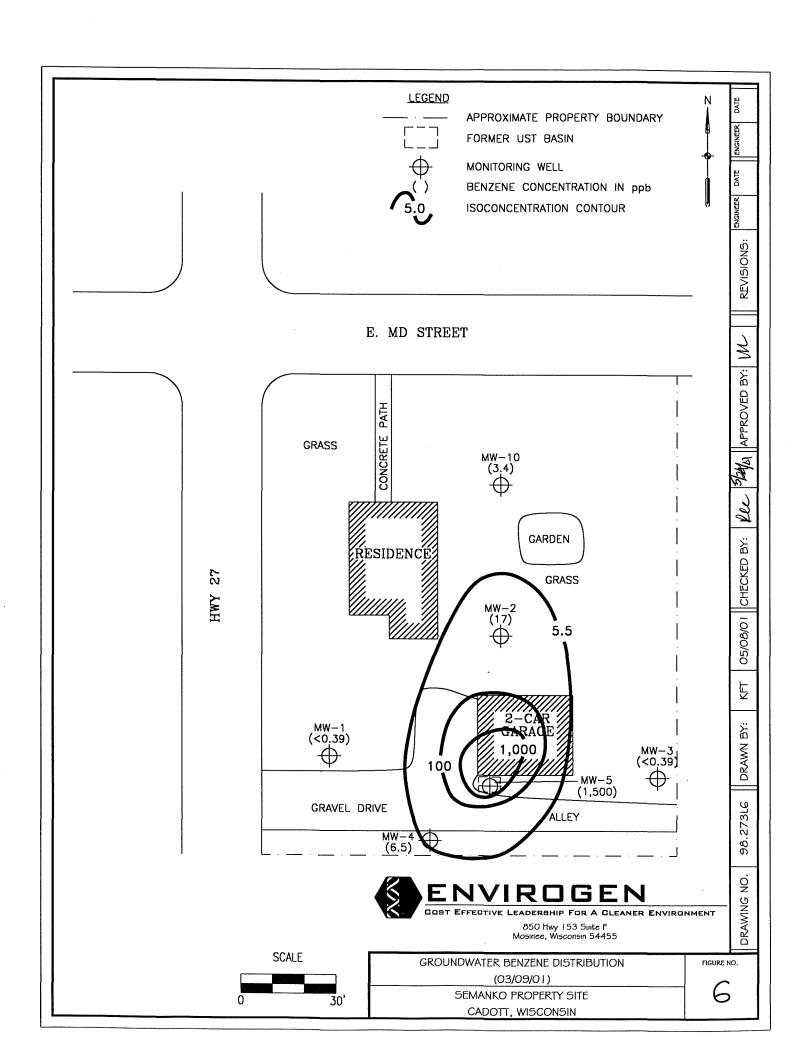


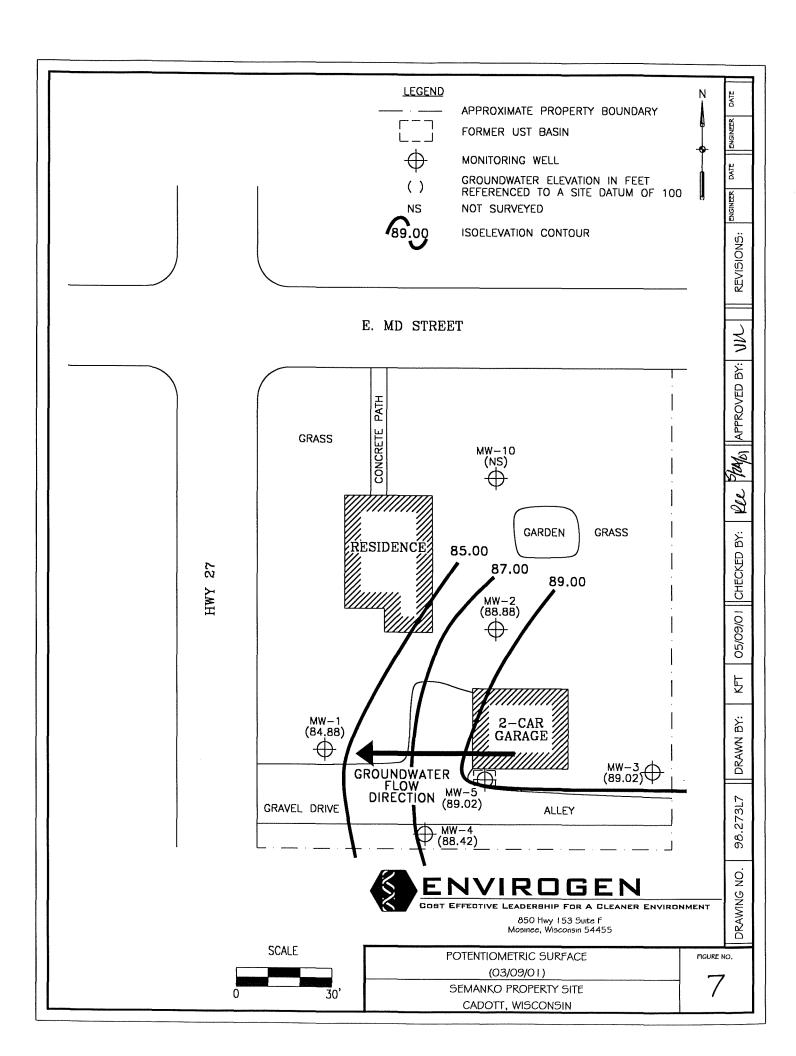














Attachment C

**Tables** 



#### **LIST OF TABLES**

1	Soil Sample Laboratory Analytical Results
2	Groundwater Sample Laboratory Analytical Results
3	Natural Attenuation Groundwater Geochemical Results

Table 1

# Soil Sample Laboratory Analytical Results Semanko Property Site Cadott, Wisconsin July 6, 2000

Boring Location	Sample Interval (feet bls)	Benzene	Ethylbenzene	Toluene	Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	GRO (ppm)
	2-4	<25	<25	<25	<25	<25	<25	<25	<5.63
GP-1	6-8	286	5,630	15,200	67,800	30,300	11,100	<100	770
	13-15	<25	<25	<25	<25	<25	<25	<25	<5.62
	4-6	<25	<25	<25	<25	<25	<25	<25	<5.23
GP-2	10-12	3,240	6,530	3,940	38,900	42,800	32,300	<2,500	1,680
	6-8	<25	<25	<25	<25	<25	<25	<25	<5.56
GP-3	14-16	<25	<25	<25	<25	<25	<25	<25	<5.49
- Panings -	4-6	<25	<25	<25	<25	<25	338	<25	<5.66
GP-4	10-12	<25	<25	<25	<25	<25	<25	<25	<5.67
GP-5	18-20	<25	<25	<25	<25	<25	<25	<25	<5.98
GP-6	8.5-10.5	<25	<25	<25	<25	<25	<25	<25	<5.64
NR 720 Ger	neric Soil Standard	5.5	2,900	5,100	4,100	NS	NS	NS	100

Notes:

All results are reported in ppb unless noted otherwise

Shading indicates value equals or exceeds the NR 720 generic soil standard

bls: Below land surface
TMB: Trimethylbenzene
MTBE: Methyl t-butyl ether
GRO: Gasoline range organics

NS: No standard

Checked by: 2CC Approved by: VU

Table 2

# Groundwater Sample Laboratory Analytical Results Semanko Property Site Cadott, Wisconsin

Sample		Parameter							
Location	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	МТВЕ	Naphthalene	GRO
	7/6/00*	<0.50	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
	8/29/00	<0.50	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
MW-1	12/8/00	<0.50	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
	3/9/01	<0.39	1.5	2.4	12	11.1	<0.47	1.5	<100
	7/6/00*	661	79	1,020	400	63.7	<0.50	19.8	660
	8/29/00	161	9.83	77.8	73.6	14.0	3.55	<8.0	530
MW-2	12/8/00	162	28.7	228	173	33.9	<0.50	11.2	882
	3/9/01	17	2.0	30	24	3.8	<0.47	<0.53	<100
	7/6/00*	<0.50	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
	8/29/00	<0.50	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
MW-3	12/8/00	<0.50	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
	3/9/01	<0.39	<0.40	<0.37	<1.4	<1.03	<0.47	<0.53	<100
NR 1	40 ES	5.0	700	1,000	10,000	480	60	40	NS
NR 14	10 PAL	0.5	140	200	1,000	96	12	8.0	NS

(Continued)

#### Notes:

All results are reported in ppb.

Shading indicates value equals or exceeds the NR 140 enforcement standard

Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

\*: The first round of groundwater samples was taken from the Geoprobe point adjacent to each monitoring well

TMBs: Trimethylbenzenes GRO: Gasoline range organics NS: No standard

MTBE: Methyl t-butyl ether PAL: Preventive action limit ES: Enforcement standard

Checked by: PCL Approved by: Va

#### Table 2 (Continued)

#### **Groundwater Sample Laboratory Analytical Results** Semanko Property Site Cadott, Wisconsin

Sample Location	Sample Date	Parameter							
		Benzene	Ethylbenzene	Toluene	Xylenes	TMBs	МТВЕ	Naphthalene	GRO
MW-4	7/6/00*	7.02	<5.0	<5.0	<5.0	<10.0	<0.50	<8.0	<50
	8/29/00	8.64	9.57	<5.0	32.2	26.9	2.6	140	342
	12/8/00	13.8	<5.0	<5.0	<5.0	<10.0	2.01	27:4	994
	3/9/01	6.5	4.4	2.3	<1.4	<1.03	<0.47	<0.53	420
MW-5	7/6/00*	5,820	4,960	47,900	31,200	61,000	<5.0	24,800	86,800
	8/29/00	2,840	3,060	28,100	17,800	6,740	231	1,120	82,200
	12/8/00	2,790	3,100	26,300	17,900	2,960	213	<2000	61,400
	3/9/01	1,500	1,700	16,000	10,000	2,500	<b>47</b>	340	43,000
MW-10	7/6/00	NA	NA	NA	NA	NA	NA	NA	NA
	8/29/00	NA	NA	NA	NA	NA	NA	NA	NA
	12/8/00	59.2	<5.0	<5.0	22.1	<10.0	<0.50	16.8	398
	3/9/01	3;4	<0.40	<0.37	<1.4	<1.03	<0.47	<0.53	<100
NR 1	NR 140 ES		700	1,000	10,000	480	60	40	NS
NR 1	NR 140 PAL		140	200	1,000	96	12	8.0	NS

#### Notes:

All results are reported in ppb.

Shading indicates value equals or exceeds the NR 140 enforcement standard

Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

\*: The first round of groundwater samples was taken from the Geoprobe point adjacent to each monitoring well TMBs: Trimethylbenzenes GRO: Gasoline range organics NS: No standard MTBE: Methyl t-butyl ether PAL: Preventive action limit ES: Enforcement standar NA: Not analyzed Enforcement standard

Checked by: KL Approved by: VL

Table 3

Natural Attenuation Groundwater Geochemical Results
Semanko Property Site
Cadott, Wisconsin

Sample					Parameter		
Location	Sample Date	DO	Alkalinity	Nitrite/Nitrate	Sulfate	Dissolved Iron	Dissolved Manganese
	8/29/00	5.21	168	2.28	NA	<0.10	0.47
MW-1	12/8/00	4.96	192	2.28	35.4	<0.10	0.38
	3/9/01	5.79	170	2.70	20	<0.14	0.30
	8/29/00	3.77	72	1.85	NA	1.14	0.32
MW-3	12/8/00	5.50	44	2.67	35.4	<0.10	<0.05
	3/9/01	8.92	<1.5	2.80	180	0.36	0.03
	8/29/00	2.20	148	0.05	NA	2.48	2.91
MW-5	12/8/00	0.23	98	<0.05	165	5.42	3.15
· · · · · · · · · · · · · · · · · · ·	3/9/01	1.57	64	0.22	7.1	10	3.66

Notes:

All results are reported in ppm

DO: Dissolved oxygen

NA:

: Not analyzed

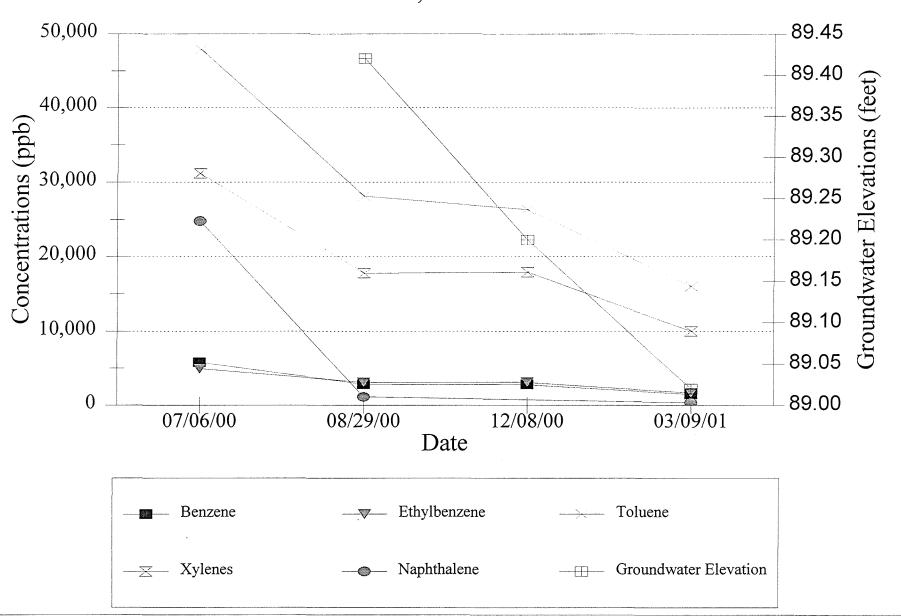
Checked by: VIL



Attachment D

Graphs

Graph 1
Groundwater Analytical Data - MW-5
Semanko Property Site
Cadott, Wisconsin





### Attachment E

WDNR Soil Boring Logs
WDNR Borehole Abandonment Forms
WDNR Monitoring Well Construction Forms
WDNR Monitoring Well Development Forms

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State of Wisconsin Department of Natural Resources SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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State of Wisconsin
Department of Natural Resources

### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Watershed/Wastewater Waste Management Route To: Remediation/Revelopment Other Facility/Project Name License/Permit/Monitoring Number Boring Number Semanko Property Boring Drilled By: Name of crew chief (first, last) and Firm
First Name: ROW E Last Name: Date Drilling Started Date Drilling Completed | Drilling Method Geoprobe <u>rii: SGS</u> DNR Well ID No. WI Unique Well No. Well Name Final Static Water Level Surface Elevation Borehole Diameter NIA 6P-6 Feet MSL Feet MSL 2.0 inches Local Grid Origin (estimated: 1) E S/C/N NW 1/4 of NW 1/4 of Section Feet  $\square$  S Feet□ W Civil Town/City/ or Village Facility ID County Code County Cadott Sample Soil Properties Depth in Feet (Below ground surface) Length Att. & Recovered (in) Soil/Rock Description Blow Counts And Geologic Origin For PID/FID Moisture Content Plasticity Index uscs Well Diagram Graphic Each Major Unit Liquid Limit P 200 3 GP Gravel Fill, little maisture 410 48] 136 F-M Sand, mostly med Brn, SW moist 110 Very gravelly Sand Wlsome (10 48] SP rock, moist /48 (10 F-m Sand, golden brn, Saturated 12.7 SW 481 F-M sand, gray, saturated, strange 402 organic/mucky odor I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Envirogen, Inc. This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file

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Watershed/Wastewater 
Waste Management Route To: Remediation/Revelopment Other Facility/Project Name License/Permit/Monitoring Number Boring Number Semanko Property

Boring Drilled By: Name of crew chief (first, last) and Firm

First Name: ROW E Last Name: Date Drilling Started Drilling Method Date Drilling Completed Geoprobe <u>rii: SGS</u> DNR Well ID No. Final Static Water Level WI Unique Well No. Well Name Surface Elevation Borehole Diameter 9,52 Feet MSL 6P-3 Feet MSL 2.0 Local Grid Origin (estimated: 1) Local Grid Location E S/C/N N 1 1 4 of N W 1/4 of Section Feet□ W Feet  $\square$  S County Code Civil Town/City/ or Village Cadott Sample Soil Properties ન્ય Recovered (in) Depth in Feet (Below ground surfi Blow Counts Soil/Rock Description And Geologic Origin For Compressi Strength PID/FID Moisture Content Plasticity Index Graphic Log Well Diagram USCS Each Major Unit Liquid Limit P 200 Topsoi') OH < 10 Drk Brn Clayey Sand, Moist 48/ (10 F-M Tanken Clayer Sand, Moist F-M Tan Sandy clay W/some rocks
moist 410 481 F-m Clayer sand V/some C/gravel and small rocks, Muist <10 <10 48/ Brn Sandy Clay Whome M-Cgravel triom 410 I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Envirogen, Inc.

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Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other Facility/Project Name License/Permit/Monitoring Number Boring Number Semanko Propertu Boring Drilled By: Name of crew chief (first, last) and Firm First Name: ROW E Last Name: Date Drilling Started Date Drilling Completed Drilling Method Geoprabe Finn: SGS WI Unique Well No. DNR Well ID No. Final Static Water Level Surface Elevation Borchole Diameter Well Name In 183 Feet MSL 6P-6 Feet MSL inches Boring Location 
E S/C/N Local Grid Location Local Grid Origin [ (estimated: [ State Plane  $\Box$  E EW MW1/4 of NW1/4 of Section Feet□ W 任 Feet ロ S County Code Facility ID County Civil Town/City/ or Village Cadott Sample Soil Properties Depth in Feet (Below ground surface) Recovered (in) Blow Counts Soil/Rock Description Compressive Strength Length Att. And Geologic Origin For Moisture Content Well Diagram Plasticity Index SCS PID/FID Graphic Each Major Unit Liquid Limit P 200 OH Topso: 1 410 Brn Clayey Sand, Saturated 410 SC C10 18/ <u>ر</u>ا0 F-M Tansand imoist F-C Sand, Saturated C10 SW Sandstone Chips in tip of Spoon. 0.'. EOB = 10.6' Redusal Hardpan hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Envirogen, Inc.

State of Wisconsin
Department of Natural Resources

#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Watershed/Wastewater Waste Management Route To: Remediation/Revelopment 📈 Other 🔲 License/Permit/Monitoring Number Boring Number Facility/Project Name mank 1 vones Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Completed | Drilling Method Date Drilling Started First Name: V6,22,2000 HSA mm ddyyyy Final Static Water Level WI Unique Well No. Surface Elevation Well Name Borchole Diameter エムニカタリ 9.52 Feet MSL //A\_Feet MSL 4 inches Boring Location Local Grid Location Local Grid Origin (estimated: ) Of 0 State Plane E S/C/N Feet I S N/A 0 Feet□ W N 1 14 of N 1 1/4 of Section Long Civil Town/City/ or Village Facility ID County Code County Sample Soil Properties Depth in Feet (Below ground surface) Length Att. & Recovered (in) Soil/Rock Description Compressive Strength Blow Counts And Geologic Origin For USCS Moisture Content Plasticity Index PID/FID Diagram Graphic Each Major Unit Liquid Limit P 200 Well Blind drilled . See CAP-5 boring log For soil desciption End of boring 15 I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Fryirmen This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file

State of '	Wisconsin	
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#### SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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## SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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(1)	GENERAL INFORMATION	](2)	FACILI	TY NAME			
	Well/Drillhole/Borehole County		Original	Well Owner (	(If Known)		
	Location GP-1 Chippewa	1			1rs. Violet		ما م م م
	- Trippewa	-	Dracant \	Well Owner	INA, VIOLETI	906	Manro
		1	I IOSOIIL 1	Well Owler			
	NW 1/4 of NW 1/4 of Sec. 5; T. 28 N; R. 6				SAME		
	(If applicable)		Street or	Route			
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	LL/DRILLHOLE/BOREHOLE INFORMATION						
(3)_	Original Well/Drillhole/Borehole Construction Completed On	(4)	Depth to	Water (Feet)	~/0'		
	(Date) $7/6/00$	1	D 6.	Dining Dome		ПМ	h Mot Applicable
	(Date) 70/00			Piping Remo			lo Not Applicable
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	Monitoring Well Construction Report Available?	1	Screen R	lemoved?	☐ Yes	$\square_N$	lo Not Applicable
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	Other (Specify) Geographe	1	If Yes.	, Was Hole Re	etopped?	$\exists$	∕es ∏ No
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		(5)	Required	Method of P	lacing Sealing Mat	rial	
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		1		-Sand Slurry		_	nular Bentonite
	Was Well Annular Space Grouted? Yes No Unknown	1	☐ Bent	onite-Sand Sl	urry [	Bent	tonite - Cement Grout
	If Yes, To What Depth?	ì	Chir	ped Bentonite	,		
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(7)	0 1 1/		,		No. Yards, 8acks Sealant	Circle	Mix Ratio
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(9)	Name of Person or Firm Doing Sealing Work	1	(10)		DNR OR CO		
	Emiragen, Inc Signature of Person Doing Work Date Signed		Date	:Received/Insp	ected	Dist	rict/County
	Signature of Person Doing Work Date Signed	7				/ <b> </b>	
	11 1 1 7 10 m		p <sub>a</sub> ,,	iewer/Inspecto	<b>T</b>	H-	Complying Work
	Street or Route Telephone Number	4		/	•		CC 2000/0906740306766645666164617436666
	Street or Koute Telephone Number						Noncomplying Work
	850 Hwy 153, Suite F (715) 693-1750	1	Foll	ow₊up Necess	ary		
	850 Hwg 153 Suite F (715) 693-1750 City, State, Zip Code	$\dashv$					
		1		- NEA 1 7 4998			· · · · · · · · · · · · · · · · · · ·
	Mosinge INT SYY5.5						

(1)	GENERAL INFORMATION		(2) $FP$	CILI	I Y NAME			
	Well/Drillhole/Borehole	County	Or	iginal	Well Owner (	(If Known)		
	Location GP-2	Chippewa				1rs. Viole	Ha S	emanko
			Pre	esent V	Vell Owner			
	NW 1/4 of NW 1/4 of Sec.	T. 28 N; R. 6 W				SAME		
	(If applicable)		Str	eet or	Route	GHILD		
	Gov't Lot	Grid Number				107 E		C
	Grid Location	Granumoer	C:	tu Cr	ite, Zip Code	107 Eas	7 19 D	Street
				-	-		~ ~	
	ft. N. S.,	ft. 🔲 E. 🔲 W.			<u> </u>	dott, WI or Name (II App	- 54	727
	Civil Town Name	•	rac	cinty i	well ino. and/	or Name (II App	olicable)	WI Unique Well No.
	Goetz							
	Street Address of Well		Re	ason I	or Abandonn	nent		
	407 East 1	11) Street		وحه	Acobe Pai	to!		
	City, Village		Da	te of A	probe Poil	<del></del>		
	Cadott			-	7-6-01	)		
WE	LL/DRILLHOLE/BOREHOLE	INFORMATION			7 0 0	<u> </u>		
(3)	Original Well/Drillhole/Borehole C		(4) De	onth to	Water (Feet)	~/0'		
(~)		onstruction Completed On	` '	-			,	r <b></b> 37
	(Date) $\frac{7/6/00}{}$				Piping Remo	ved?	es 1	Not Applicable
					Removed?		les 🔲 N	lo Not Applicable
	☐ Monitoring Well	Construction Report Available?	Sc	reen R	emoved?	☐ <i>Y</i>	es $\overline{\sqcap}$ N	Not Applicable
	☐ Water Well	☐ Yes ■ No	Ca	sing L	eft in Place?	☐ Y	′es □ N	<b>√</b> 0
	Drillhole		If l	No, Ex	plain 7	Emporary h		
	Borehole				·	************	-11 47119	
	Bolcibic		$\overline{\mathbf{w}}$	as Cas	ing Cut Off F	Below Surface?		Yes No
	Construction Type:				_	Rise to Surface?	ᆫ	(es   No
	<b>— —</b> —	(Sandpoint) Dug			-			_ —
	H	(outoponie)	Ti .			ter 24 Hours?	니	les No
	Other (Specify) Geogrape		,	I Yes,	Was Hole Re	etopped?		Yes 🔲 No
	•	ا	(5) Re	quired	Method of P	lacing Sealing M	laterial	
	Formation Type:	,	` '	_				Dina Dumnad
	Unconsolidated Formation	☐ Bedrock			uctor Pipe-Gr			Pipe-Pumped
					p Bailer		Other (Exp	
		Casing Diameter (ins.)		_	Materials			nitoring wells and
	(From groundsurface)			Neat	Cement Grou	ıt	monito	ring well boreholes only
				Sand	-Cement (Cor	ncrete) Grout		
	Casing Depth (ft.)			Conc	rete		! ☐ Ben	tonite Pellets
				Clav	Sand Slurry		Gra	nular Bentonite
	Was Well Annular Space Grouted?	Yes No Unknown			onite-Sand Sl	עדדע	, —	tonite - Cement Grout
	If Yes, To What Depth?	Feet			ped Bentonite			
		Tæt		Сшр	ped Bentonne			
(7)	Sealing Mater	rial Usad	From	/E+ \	To (Ft.)	No. Yards, Sacks Sealant	(Circle	Mix Ratio
	Searing Mater	nai Used	From	(Pt.)	10 (Ft.)	or Volume	One)	or Mud Weight
			C					
	Granular bentonit	•	Surf	ace	12	1/2		,
	- INNUAL DESIGNATION						******	
			İ		<u> </u>	r'	1	
			<del>                                     </del>			<del> </del>		
			ļ		l		ļ	
					<del> </del>	ļ		
			1				1	
			<u> </u>				l	
(8)	Comments:							
(9)	Name of Person or Firm Doing Sea	aling Work		(10)	FOR	DNR OR C	OUNTY	USE ONLY
•	The state of the s	-	1	Date	Received/Ins			trict/County
	Emirogen, Inc Signature of Person Doing Work	Date Signed	1		<del></del> -			Ī
				Revi	ewer/Inspecto	ıτ		Complying Work
	Street or Route	7~ <i>10</i> ~ <i>0</i> 0  Telephone Number	┨					Noncomplying Work
				<b></b>	N			14ottcombrynig or v.
	850 Hwy 153 Suite F City, State, Zip Code	(715) 693-1750	4	rollo	ow-up Necess	ary		
	•	_	]					A CONTRACT OF THE STATE OF THE
	Mosince WIE 54	45.5	1	_			_	

(1)	GENERAL INFORMATION				TY NAME			
	Well/Drillhole/Borehole	County	Or	ginal	Well Owner	(If Known)		
	Location GP-3	Chippewa				1rs. Viole	Ha S	emanko
	11.1		Pre	sent \	Well Owner			
	NW 1/4 of NW 1/4 of Sec.	); T. <u>28</u> N; R. <u>6</u> w				SAME		
	(If applicable)		Str	eet or	Route			
	Gov't Lot	Grid Number			(	107 Eas	4 MD	Street
	Grid Location		Ci	ty, Šta	ate, Zip Code		<u> </u>	
	ft. N. S.,	ft. \( \begin{aligned} \text{E.} \\ \text{W.} \end{aligned}			Ca	dott, Wi	F 54	727
	Civil Town Name		Fac	ility \	Well No. and/	or Name (If Ap	olicable)	WI Unique Well No.
	Goetz							
	Street Address of Well		Re	ason I	or Abandonr	nent		
	407 East 1	MI) Street		60	oorobe a	nn:		
	City, vinage	10 311 651	Da	te of A	Abandonment	ZOLD I		
	Cadott				7-6-01	)		
WE	LL/DRILLHOLE/BOREHOLE	INFORMATION			<u> </u>			
(3)	Original Well/Drillhole/Borehole C	Construction Completed On	(4) De	pth to	Water (Feet)	~/0'		
	(Date) $7/6/00$				Piping Remo		Yes 🗆 1	No Not Applicable
	(Date) . 70/00				Removed?			. <del></del>
	☐ Monitoring Well	Construction Down Assoliching	i		emoved?			Not Applicable  Not Applicable
	Water Well	Construction Report Available?			eft in Place?			1 tot i apparouoic
	Drillhole	☐ Yes ■ No		_		لسا		<b>%</b>
			11.1	10, 15/	——————————————————————————————————————	emporary u	reilenly	<u> </u>
	Borehole		777	o Coo	in a Cut Off I	selow Surface?	——— <del>—</del>	Voc CTAL
	Construction Trans				_			Yes No
	Construction Type:	(Sandroint) Dug			_	Rise to Surface?		Yes No
						ter 24 Hours?		Yes No
	Other (Specify) Geographe		I	1 165,	Was Hole Re	supped?	Ш	Yes 🔲 No
	Formation Tymas	·	(5) Re	quired	Method of P	lacing Sealing N	1aterial	
	Formation Type:			Cond	luctor Pipe-Gr	avity $\square$	Conductor	Pipe-Pumped
	Unconsolidated Formation	☐ Bedrock			p Bailer	- ==	Other (Exp	
	Total Well Depth (ft.)	Casing Diameter (ins.)			Materials			nitoring wells and
	(From groundsurface)			_	Cement Grou	ıt		ring well boreholes only
					-Cement (Cor			· ·
	Casing Depth (ft.)			Conc		,	! ☐ Ben	tonite Pellets
			H		-Sand Slurry		Gra	nular Bentonite
	Was Well Annular Space Grouted?	Yes No Unknown		-	onite-Sand Sl	urry	. —	tonite - Cement Grout
	If Yes, To What Depth?	Feet			ped Bentonite	•	; <b>—</b>	
(7)	Sealing Mate	rial Used	From	(Ft.)	To (Ft.)	No Yards, Sacks Sealant	(Circle One)	Mix Ratio or Mud Weight
				`		or Volume	OIK)	of Mud Weight
			Surf	ace	16	1/2		
	Granular bentonit				14	12		
							7.	
	•							
			<u> </u>		<u> </u>	]		
			l			ĺ	1	
(8)	Comments:		<u> </u>					
(0)	Confinents:							
<u>~</u>	Name of Bosses - Et . D	1 W I.	r1	(10)	nan	DE LOS CONTRACTOR OF THE PARTY	O YAS IME	HODONIEV
9)	Name of Person or Firm Doing Se	aling Work						USE ONLY
	Emirogen, Inc	ID 6'		Date	Received/Insp	Delica	Dis	trict/County
	Signature of Person Doing Work	Date Signed		D	ewer/Inspecto	_	_	Complying Work
	Stréet or Route	7~ <i>10</i> - <i>0</i> 0  Telephone Number		Revi	емет/пігреско	l.	<u> </u>	
				F ::	<b>.</b>			Noncomplying Work
	850 Hwy 153, Suite F	(715) 693-1750		Pollo	ow-up Necess	ary		
	City, State, Zip Code							
	Mariage LAT SU	4.15 C	ı					

(1)		(2)	FACILI'	TY NAME		
	Well/Drillhole/Borehole County		Original	Well Owner		
	Location GP-4 Chippewa			· • • • •	1ns. Violetta	Semanko
			Present \	Well Owner		
	NW 1/4 of NW 1/4 of Sec. 5; T. 28 N; R. 6	ĺ			SAME	
	(If applicable)	_	Street or	Route	077772	
	Gov't Lot Grid Number			4	407 East M	1D Street
	Grid Location	-	City. St	ate, Zip Code	101 Cast 1	10 spreet
		}	City, bu	-		7422
	ft N S.,ft E W. Civil Town Name		Facility V	Ca Callette	dott, WF 5 or Name (If Applicabl	9727
		ĺ	1 acinty	WEII INO. allu/	or Name (ii Applicaoi	le) WI Unique Well No.
	Street Address of Well	_				
	· · · · · · · · · · · · · · · · · · ·	ĺ	Reason I	or Abandonr	nent	
	407 East MD Street		6	coprobe	point	
	City, Village	_	Date of A	Abandonment		
	Cadott	l		7-6-01	)	
WE	LL/DRILLHOLE/BOREHOLE INFORMATION					
(3)	Original Well/Drillhole/Borehole Construction Completed On	(4)	Depth to	Water (Feet)	~/0'	
	(Date) 7/6/00	ľ ,	-	Piping Remo		No Not Applicable
	(200)	1		Removed?		<b></b>
	The Market William Comment of the Co			emoved?		No Not Applicable
	Monitoring Well Construction Report Available?	İ			Yes [	No Not Applicable
	☐ Water Well ☐ Yes ■ No		_	eft in Place?	Yes [	☐ No
	Drillhole .		If No, Ex	cplain7	Emporary well o	enly
	Borehole	Ì			·	
			Was Cas	ing Cut Off I	selow Surface?	Yes No
	Construction Type:	l	Did Seal	ing Material l	Rise to Surface?	Yes No
	☐ Drilled ☐ Driven (Sandpoint) ☐ Dug	1	Did Mat	erial Settle Af	ter 24 Hours?	Yes No
	Other (Specify) Geograph		If Yes.	Was Hole Re	etopped?	Yes No
		_			<b>L</b>	
	Formation Type:	(5)	Required	Method of P	lacing Sealing Materia	łl.
	Unconsolidated Formation Bedrock	l	Cond	luctor Pipe-Gr	avity	ctor Pipe-Pumped
	Oncomboundated Lottilation Periock		Dumj	p Bailer	Other (	(Explain)
	Total Well Depth (ft.) Casing Diameter (ins.)	(6)	Sealing l	Materials	For	r monitoring wells and
	(From groundsurface)		_	Cement Grou		onitoring well boreholes only
				-Cement (Cor		g,
	Casing Depth (ft.)	<b>,</b>	Conc			Bentonite Pellets
			-	-Sand Slurry		Granular Bentonite
	Was Well Annular Space Grouted? Yes No Unknown	Ì		-		
	TCV T VI AD 40			onite-Sand SI		Bentonite - Cement Grout
	If ies, io what Depth? Feet		L Chip	ped Bentonite	**	
(7)	Caslina Marada IVI	_	/m. •	m (F )	No. Yards, (Circ	cle Mix Ratio
	Sealing Material Used	F	rom (Ft.)	To (Ft.)	Sacks Sealant One	e) or Mud Weight
		$\vdash$				
	Granular bentonite		Surface	12	/2	<u> </u>
	Cranwar Denton it	├				
					·	··
		├-				
		l				
		├-	<del></del>			
		1				
701		<u> </u>		I		
(8)	Comments:			····		
		,				<u>, , , , , , , , , , , , , , , , , , , </u>
(9)	Name of Person or Firm Doing Sealing Work		(10)	FOR	DNR OR COUN	TY USE ONLY
	Emirogen Inc Signature of Person Doing Work Date Signed	1	Date	Received/Insp	ected	District/County
		1				
			Revi	ewer/Inspecto	ī	Complying Work
•	Street or Route Telephone Number	1				Noncomplying Work
	850 Hwy 153, Suite F (715) 693-1750		Follo	w-up Necess	arv	
	850 Hwy 153 Suite F (715) 693-1750 City, State, Zip Code	1			· 1	
	•			u i i nemeditare (i u allega)	and a supplemental and a supplem	
	Mosince, WI 54455	J				

(4)	GENERAL INFORMATION		<u> </u>		IY NAME			
		County	Or	iginal	Well Owner (			
	Location GP-5	Chippewa				1rs. Viole	Ha Se	manko
	41) 1	E	Pre	sent V	Vell Owner			
	NW 1/4 of NW 1/4 of Sec. 5	_ ; T. <u>28</u> N; R. <u>6</u> w				SAME		
	(If applicable)		Str	eet or	Route			
	Gov't Lot	Grid Number			د	107 Eq.	+ MD	Street
	Grid Location		Ci	ty, Sta	te, Zip Code			1,00
	ft. N. S.,	ft. 🗆 E. 🗀 W.					E 54-	227
	Civil Town Name		Fac	ility V	Well No. and/	or Name (If Ap	plicable)	727  WI Unique Well No.
	60e+z					-		1 101110
	Street Address of Well		Re	ason F	or Abandonr	nent		
	407 East M	N C41		_				
	City, Village	D other	Da	te of A	Oprobe Abandonment	DOLVI		
	Cadott				7-6-01			
WE	LL/DRILLHOLE/BOREHOLE	INFORMATION			7-60			
	Original Well/Drillhole/Borehole Co		(4) De	nth to	Water (Feet)			
(~)		distriction Completed On	` '	-				
	(Date) 7/6/00				Piping Remo		Yes $\square$ N	o Not Applicable
	pang .				Removed?		Yes 🔲 N	Not Applicable
	☐ Monitoring Well	Construction Report Available?			emoved?	Π,	Yes $\square$ N	Not Applicable
	☐ Water Well	☐ Yes <b>■</b> No	Ca	sing L	eft in Place?	Fi.	Yes 🗖 N	
	☐ Drillhole		If l	Vo, Ex	plain 7	Emporary 4	vezi nalu	
	Borehole					CO POTAL		
			W	ıs Cas	ing Cut Off F	Below Surface?	ПХ	es No
	Construction Type:				-	Rise to Surface?	اا	Tes   No
		(Sandpoint) Dug			•	iter 24 Hours?		_ —
		(Sandpoint) L Dug					l	
	Other (Specify) Geographe		1	i ies,	Was Hole Re	etoppea?	Пх	(es 🔲 No
			(5) Re	quired	Method of P	lacing Sealing N	/aterial	
	Formation Type:			Cond	uctor Pipe-Gr	ravity $\Box$	Conductor F	Pipe-Pumped
	Unconsolidated Formation	Bedrock			p Bailer	• ==	Other (Expl	•
	Tatal Wall Dooth (6.)	Social Diometer (Inc.)			Materials			
		Casing Diameter (ins.)		_				nitoring wells and
	(From groundsurface)				Cement Grou		monitor	ing well boreholes only
					-Cement (Cor	icrete) Grout		
	Casing Depth (ft.)		Ļ	Conc				tonite Pellets
				Clay-	Sand Slurry		Grar	nular Bentonite
	Was Well Annular Space Grouted?	Yes No Unknown		Bento	onite-Sand SI	urry	Bent	tonite - Cement Grout
	If Yes, To What Depth?	_ Feet		Chip	ped Bentonite	•	1	
(7)							Т	Min. D -4! -
(7)	Sealing Materi	al Used	From	(Ft.)	To (Ft.)	No. Yards, Sacks Sealant	(Circle One)	Mix Ratio or Mud Weight
						or Volume		01 11144 11 01511
	C		Surf	ace	20	3/4		· _
	Granular bentonite				90	/4		
						<i>:</i>	**	
			]			[	l	
			<u></u>					
			<u> </u>		l			
(8)	Comments:							
(9)	Name of Person or Firm Doing Sea	line Work	1	(10)	FOR	DNR OR (	OUNTY	USE ONLY
` '					Received/Ins			rict/County
	Emiragen, Inc Signature of Person Doing Work	Date Signed					1,1,1	
		7-10-00		Revi	ewer/Inspecto	1		Complying Work
	Street or Route	Telephone Number	{			•		Noncomplying Work
								140thcouthhamis aroux
	850 Hwy 153, Suite F City, State, Zip Code	(715)693-1750	'	ьопс	w₁up Necess	ary		
	•		}	\$2000				
	Mosince WI 54	15.5	1					

<u>``</u>	GENERAL INFORMATION		J(2) FACIL	I I IVAIVIE		
	Well/Drillhole/Borehole	County	Origina	Well Owner (If	Known)	
	Location GP-6	Chi		•	4 '	
	GF-6	Chippewa		110	s. Violetta Se	manko
	44. 1		Present	Well Owner		
	NW 1/4 of NW 1/4 of Sec.	5 : T. 28 N; R. 6 W	i		SAME	
	(If applicable)		Street o	r Dauta	0111-11	
	·		Succio			
	Gov't Lot	Grid Number		40	07 East MD	Street
	Grid Location		City, St	ate, Zip Code		7,:07
	ft. N. S.,	ft.	<b>\</b>	Cade	ott, WF 54: Name (If Applicable)	727
	Civil Town Name		Facility	Well No. and/or l	Name (If Applicable)	WI Unique Well No.
	Charle		Ì			
	(obetz					
	Street Address of Well		Reason	For Abandonmen	nt	
	407 East 1	L L2 / M	l	Casa	0-100	
	City, Village	ID other	D-16	<u>Geoprob</u> Abandonment	e paus	
			Date of			
	Cadott			7-6-00		
WE	LL/DRILLHOLE/BOREHOLE	INFORMATION				
721	Original Wall/Drillials/Driving	2 INFORMATION	la D. d.	W . 45 4		
(3)	Original Well/Drillhole/Borehole C	Construction Completed On	(4) Depth to	o Water (Feet)	<u>~/0'</u>	
	(Date) $7/6/00$		Pump &	Piping Remove	d? ☐ Yes ☐ N	lo Mot Applicable
	70/00					. <del></del>
			1	Removed?	☐ Yes ☐ N	o Not Applicable
	☐ Monitoring Well	Construction Report Available?	Screen I	Removed?	☐ Yes ☐ N	lo Not Applicable
	☐ Water Well	1	Cacina	Left in Place?	<u> </u>	rotripphonoic
		Yes No	1 -			
	☐ Drillhole		If No, E	xplain	moorary wellonly	
	Borehole	I .	1			
	20101010		Wes Co	sing Cut Off Belo	vy Surface?	′es ∏ No
			li e	•		
	Construction Type:		Did Sea	ling Material Rise	e to Surface?	res □ No
	☐ Drilled ☐ Driven	(Sandpoint) Dug	Did Ma	terial Settle After	24 Hours?	es No
		(Surial Surial	ı	, Was Hole Retor		_
	Other (Specify) Geographe		n res	, was note kewl	ppear.	les 🔲 No
	•		(5) Require	d Method of Placi	ing Sealing Material	7
	Formation Type:		1			
			Con	duntar Dina Gravi	ity Conductor I	Pine-Pumped
	Unconsolidated Formation	The decide	Con	ductor Pipe-Gravi	Ly Conductor i	ipo-i umpou
	Unconsolidated Formation	☐ Bedrock	) ==	-		•
	_		Dun	np Bailer	Other (Exp	lain)
	Total Well Depth (ft.)	Bedrock  Casing Diameter (ins.)	Dun (6) Sealing	np Bailer Materials	Other (Exp	lain) nitoring wells and
	_		Dun (6) Sealing	np Bailer	Other (Exp	lain)
	Total Well Depth (ft.)		Dun  (6) Sealing  Nea	np Bailer Materials t Cement Grout	Other (Exp. For monitor	lain) nitoring wells and
	Total Well Depth (ft.)(From groundsurface)		(6) Sealing Nea	np Bailer Materials t Cement Grout d-Cement (Concre	Other (Exp. For monitor monitor ete) Grout	lain) nitoring wells and ring well boreholes only
	Total Well Depth (ft.)		Dun	np Bailer Materials t Cement Grout d-Cement (Concre crete	Other (Exp. For monitor monitor ete) Grout	lain) nitoring wells and ring well boreholes only tonite Pellets
	Total Well Depth (ft.)(From groundsurface)		Dun	np Bailer Materials t Cement Grout d-Cement (Concre	Other (Exp. For monitor monitor ete) Grout	lain) nitoring wells and ring well boreholes only
	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)	Casing Diameter (ins.)	Dun   Dun   One   Nea   Sand   Con   Clay	np Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry	Other (Exp. For mon monitor ete) Grout  Bent Grar	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite
	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted?	Casing Diameter (ins.)	Dun	np Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry	Other (Exp. For mon monitor ete) Grout  Bent Grar	lain) nitoring wells and ring well boreholes only tonite Pellets
	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)	Casing Diameter (ins.)	Dun	np Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry	Other (Exp. For mon monitor ete) Grout  Bent Grar	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite
<del></del>	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted?	Casing Diameter (ins.)	Dun	np Bailer Materials t Cement Grout d-Cement (Concrecte y-Sand Slurry tonite-Sand Slurry	Other (Exp. For mon monitor ete) Grout  Bent Grar  Bent	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
<u></u>	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted's If Yes, To What Depth?	Casing Diameter (ins.)  7	Dun   Con   Clay   Ben   Chi	Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite	Other (Exp. For mon monitor ete) Grout  Bent Grar y  No Yards, acks Sealant Gricle	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
<u></u>	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted?	Casing Diameter (ins.)  7	Dun	Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite	Other (Exp. For mon monitor ete) Grout  Grar  Grar   Bent	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
<u></u>	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted's If Yes, To What Depth?	Casing Diameter (ins.)  7	Dun   Con   Clay   Ben   Chi	Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Grar  We yards, acks Sealant or Volume  Other (Exp.  For monitor  Grar  Grar  Grar  Grar  Grar  Grar  Grar  One)	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
(n)	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted If Yes, To What Depth?  Sealing Mate	Casing Diameter (ins.)  Yes No Unknown Feet  rial Used	Dun   Con   Clay   Ben   Chi	mp Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Grar  We yards, acks Sealant or Volume  Other (Exp.  For monitor  Grar  Grar  Grar  Grar  Grar  Grar  Grar  One)	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
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(7) ————————————————————————————————————	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted If Yes, To What Depth?  Sealing Mate	Casing Diameter (ins.)  Yes No Unknown Feet  rial Used	Dun   Con   Clay   Ben   Chi	mp Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Bent Grar  We Wards, acks Sealant or Volume  Other (Exp.	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
	Total Well Depth (ft.)  (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted If Yes, To What Depth?  Sealing Mate	Casing Diameter (ins.)  Yes No Unknown Feet  rial Used	Dun   Con   Clay   Ben   Chi	mp Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Bent Grar  We Wards, acks Sealant or Volume  Other (Exp.	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout
(8)	Total Well Depth (ft.)  (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted If Yes, To What Depth?  Sealing Mate  Granular bendon's  Comments:	Casing Diameter (ins.)  Yes No Unknown Feet  rial Used	Dun   Con   Clay   Ben   Chi	np Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite  To (Ft.)	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Wo Yards, acks Sealant or Volume  Circle One)	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout  Mix Ratio or Mud Weight
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted If Yes, To What Depth?  Sealing Mate  Granular bendon's  Comments:  Name of Person or Firm Doing Se	Casing Diameter (ins.)  Yes No Unknown Feet  rial Used	Dun  (6) Sealing  Nea  Sand Con  Clay Ben  Chi From (Ft.)  Surface	np Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite  To (Ft.)  /0.5	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Wo Yards, acks Sealant or Volume    ONE  ONE  ONE  ONE  ONE  ONE  ONE	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout  Mix Ratio or Mud Weight
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(8)	Total Well Depth (ft.) (From groundsurface)  Casing Depth (ft.)  Was Well Annular Space Grouted's If Yes, To What Depth?  Sealing Mate  Granular Dendon's  Comments:  Name of Person or Firm Doing Se  Envirogen, Inc.  Signature of Person Doing Work	Casing Diameter (ins.)  Yes No Unknown Feet  rial Used  aling Work  Date Signed	Dun	np Bailer Materials t Cement Grout d-Cement (Concre crete y-Sand Slurry tonite-Sand Slurry pped Bentonite  To (Ft.)  //O, 5  FOR E e Received/Inspect	Other (Exp. For monitor monitor gete) Grout  Bent Grar  Wo Yards, acks Sealant or Volume    ONE  ONE  ONE  ONE  ONE  ONE  ONE	lain) nitoring wells and ring well boreholes only tonite Pellets nular Bentonite tonite - Cement Grout  Mix Ratio or Mud Weight  USE ONLY rict/County
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	Watershed/Wastewater Remediation/Redevelopment		· O · · · · · · · · · · · · · · · · · ·	MONITORING WEL Form 4400-113A	L CONSTRUC Rev. 7-98	CTION
Facility/Project Name	11 C-11 C311-11			Well Name MALL		
Semanko Property	NA r	日g: <u>ルA</u>		markane MW	•	
Facility License, Permit or Monitoring No.		nated: 🗌 ) or	or			No.
Facility ID	St. Planeft.		ft. E. S/C/N	Date Well Installed 9	122120	<u>-</u>
	Section Location of Waste/So		F-1	m m	1 1 V V	V Y
Type of Well	Nh) 14 of NW 14 of Sec	5 T. 28	N.R	Well Installed By: Na	ime (first, last) ar	nd Firm
Well Code/	Location of Well Relative to		Gov. Lot Number	308 B1	901 -16	
Sourceft   Apply [		Sidegradient		Envirog	en	
	d Downgradient n [	Not Known	Cap and lock?		Yes 🗆	No.
			. Protective cover p	ripe:	<b>E</b> 100 U	140
B. Well casing, top elevation 4	2.66 ft. MSL	H	a. Inside diameter	-	_8.	1/4 in.
C. Land surface elevation	ft_MSL	[	b. Length:	-	$\sim 1.2$	QfL
D. Surface seal, bottom ft. MS		1	c. Material:		Steel 🗵	04
	12-37 (COM 14 )	[188] [2]			Other 🗆	منشكشه
12. USCS classification of soil near screen		I K	d. Additional prof		☐ Yes ☐	No
	T CH CH CH CH CH CH CH CH CH CH CH CH CH		If yes, describe			70
Bedrock 🗆		3 🗎	. Surface scal:		Bentonite  Concrete	
13. Sieve analysis performed?	Yes ■ No		•		Other	
14. Drilling method used: Rot	ary □ 50	₩ 4	Material between	well casing and protect		
Hollow Stem Au					Bentonite 🗆	30
	ther 🗆 🧱	ඎ	open		Other	
		5	Annular space sea	l: a. Granular/Chipp	xed Bentonite 🛘	33
15. Drilling fluid used: Water 10 2	Air 0 01	\	Lbs/gal m	ud weight Bentonit	c-sand slurry 🗆	35
Drilling Mud 🗆 0 3 1	Tone 299			ud weight Ben		
16. Drilling additives used?	Yes Mar No			te Bentonite-		50
			Ft	volume added for any		
Describe		f g	How installed:		Tremie [	
17. Source of water (attach analysis, if requ	ired):			116	mic pumped   Consider	
			. Bentonite seal:	a. Benten	Gravity 🛘 nite granules 🗇	• •
				3/8 in. □1/2 in. Be	_	
E. Bentonite seal, top ft. MS	LorL.Oft.		C	70 111 - 172 111 17	Other []	*****
-			****			t aine
F. Fine sand, top ft. MS	Lor2.Oft 🗸 💢	7	_	I: Manufacturer, produ	ict name & mes	
	· 40		2 Badger			
G. Filter pack, top ft. MS.	Lor_4.Oft		b. Volume added		<sub>t</sub> 3	•
H. Screen joint, top ft. MS	Lor5.0a.	- N	a Red F		uct name & me	sn size
L Well bottom ft. MS	15 No.		b. Volume added	2.9/5	ft <sup>3</sup>	23
L Well bottomft. MS	ror_rs.Orr	>	. Well casing:	Flush threaded PVC s Flush threaded PVC s		
J. Filterpack, bottom ft MS	Lor_L5.Oft				Other	1 🌉
K. Borchole, bottom ft MS	Tan 15 Na.	`10	), Screen material:	PVC	T	
K. Borchole, bottom ft MS	rot-75.0m		a. Screen type:	_ C~	Factory cut	
L. Borehole, diameter _ 2.1/4 in.				C01	ntinuous slot 🗷 Other 🗆	
Z DOLORO, GIAMONI _ Z ' III.			b. Manufacturer	Lahnson	Outer L	- <u>aaa</u>
M. O.D. well easing _2.37 in.			c. Slot size: d. Slotted length	0		).Oft.
N. LD. well casing _ 2.07 in.		1		(below filter pack):	None I	
Ti and wom casing m.		1	I. DWEIM MOWER	(colon lines pack)	Other C	
I hereby certify that the information on this	form is true and correct to th	e best of my kno	wledge.			
Signature	Firm					
Toold Flat	E	nviroger	7			

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by clis. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be tent.

	Watershed/Wastewater Remediation/Redevelopment		~	MONITORING WEL Form 4400-113A	L CONSTRU Rev. 7-98	CTION
Facility/Project Name	7			Well Name		·····
Semanko Property	N/A n	. 吕 &:	tr =₩.	Markane MW	- 1	
Facility License, Permit or Monitoring No.	Local Grid Origin (est	imated: 🗆 ) or	Well Location [	Wis. Unique Well No.	DNR Well II	No.
Facility ID	7	Ł.N	ft. E. S/C/N	Date Well Installed 9	122120	00
E. C. VI. II	Section Location of Waste/	Source	. 05	m m	d d v v	~~~
Type of Well Code /	NW 14 OF NW 14 OFS		n,r. 💪 🖫 🕏	Well Installed By: Na Joe Bl	mc (first, last) a	and Firm
Distance from Waste/ Enf. Stds.	Location of Well Relative t	o Waste/Source	Gov. Lot Number			_
Sourceft Apply	u Upgradient s d Downgradient n	☐ Sidegradient		Envirog	en	
	ft. MSL		. Cap and lock?	(/	Yes [	No
<del>-</del>	7.Linush	7	2. Protective cover p	•	_ 8	4in.
C. Land surface elevation	ft_MSL	<b>]</b> -  †[	b. Length:	•	- 1	.Qn.
D. Surface seal, bottom ft. M	Stor 1 Off		c. Material:		Steel 2	
12. USCS classification of soil near scree					Other C	45,000
The state of the s	SW 🗆 SP 🔳		d. Additional pro- If yes, describe		☐ Yes ☐	l No
	CT   CH	TI TR / /	II yes, accerto	•	Bentonite 🗆	1 30
Bedrock 🗆		₩ ₩ \ 3	S. Surface scal:		Concrete E	-
13. Sieve analysis performed?	Yes ■ No				Other 🗆	
14. Drilling method used: Ro	terry □ 50	፟ ፟	. Material between	well casing and protect		344,417
Hollow Stem A					Bentonite 🗆	_
	Other 🗆 🎆		<u>open</u>		Other	*****
15. Drilling fluid used: Water □ 02	Air 🗆 01		o. Amular space see			
	None E 99			ud weight Bentonit		
				ud weight Bentonite-		
16. Drilling additives used?	Yes 🏿 No			volume added for any		1 20
			f. How installed:	•	Tremie	0 1
Describe			I. IION MOMENT		mic pumped [	02
17. Source of water (attach analysis, if req	uired):				Gravity [	
			6. Bentonite seal:		nite gramules [	
7 m	1 00		b. 1/4 in. 22:	3/8 in. □1/2 in. Be		- 4444
E. Bentonite seal, top ft. MS			C		Other L	******
F. Fine sand, top ft. MS	SL or 2.Oft		7. Fine sand materia Baloer	1: Manufacturer, produ BB # 7	ict name & me	sh size
G. Filter pack, top ft. MS	SLor4.QfL		b. Volume added	0.466	t <sup>3</sup>	\$424
H. Screen joint, top ft. Mi	SL or5. Oft		a Red F		uct name & me	esh size
L. Weil bottom	SLor_LE.Oft		b. Volume added 9. Well casing:	Flush threaded PVC s	ft <sup>o</sup> schedule 40 📱	23
I. Filter pack, bottom ft M	St.or 15 Of			Flush threaded PVC:	schedule 80 [ Other [	
-		1	0. Screen material:	PVC	. Outci L	
	SL or_15. Oft.		a. Screen type:	Co	Factory cut [ ntinuous slot ]	<b>11</b>
L. Borehole, diameter _ 2 . 4 in.		\		hi near-	Other (	
M. O.D. well casing _2.37 in.			b. Manufacturer c. Slot size: d. Slotted length	<u>fahnsm</u>		010in 0.0ft
N. LD. well casing _ 2.07 in.		1	<del>-</del>	(below filter pack):	None Other	<b>1</b> 4
I hereby certify that the information on the	is form is true and correct to	the best of my kno	owledge.			
Signature 711 YOL	Firm	Envis				
Toold Flat		Envirage	7		_	

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chr. 160, 281, 283, 289, 291, 292, 293, 295, and 299. Wis. Stats., and ch. NR 141. Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

	Watershed/Wastewater  Remediation/Redevelopment		MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Remediation/Redevelopment Local Grid Location of Well 1 1.	- Jane	Well Name
Semanko Property	NA rd	S. NATE.	11W-3
Facility License, Pennit or Monitoring No.	Local Grid Origin (estimat	ted: (1) or Well Location (1)	Wis. Unique Well No. DNR Well ID No.
<u> </u>	Lat,"L	.ongor	121.896
Facility ID	St. Plancft. N,	ft. E. S/C/N	Date Well Installed 8 12212000
-	Section Location of Waste/Sour		m m d d
Type of Well	AN14 OF NW 14 OF SCO.	5 .T. 25 N.R. 6 128	Well Installed By: Name (first, last) and Firm
Well Code/	Location of Well Relative to Wa		Joe Black
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s 🗆	Sidegradient	Envirogen
Sourceft.   Apply [	d Downgradient n 🗆		
A. Protective pipe, top elevation	ft_MSL	1. Cap and lock?	■ Yes □ No
B. Well casing, top elevation _ LQC	2.27 n. MSL	2. Protective cover	a 1.
ar was a same of the same of t	11	b. Length:	- <u>8</u> .4in.
C. Land surface elevation	fLMSL	c. Material:	
D. Surface seal, bottom ft. MS	Lor _ 1 Qft.	The state of the s	Steel <b>E</b> 0.4  ———————————————————————————————————
12. USCS classification of soil near screen		d. Additional pro	
OP GMG GCG GWG S	W D SP	If yes, describ	
SM SC ML MH C	T CH CH CH	Ltd / /	Bentonite □ 30
Bedrock 🗆	) <b>1</b>	3. Surface scal:	Concrete 🖾 01
13. Sieve analysis performed?	Yes 🔳 No		Other 🗆
14. Drilling method used: Rot	ary □ 50	4. Material between	well casing and protective pipe:
Hollow Stem Au	ıger ■ 41		Bentonite □ 30
Ot	ther 🗆 🧱	<u>open</u>	Other 🔳
1 The Table 1 The Table 1		5. Annular space se	al: a. Granular/Chipped Bentonite [] 33
	Air 01	bLbs/gel n	and weight Bentonite-sand slurry □ 35
Dimms Bing [] 03 V	Tane 29 99		and weight Bentonite slurry   31
16. Drilling additives used?	Yes fin No		ite Bentonite-cement grout 🗆 50
		1000	volume added for any of the above
Describe		f. How installed	
17. Source of water (attach analysis, if requ	ired):		Tremie pumped   02
		6. Bentonite seal:	Gravity 🔲 08 a. Benumite granules 🖂 33
	<del></del>	K600	3/8 in. 11/2 in. Bentonite chips 1 32
E. Bentonite seal, top ft. MS	Lor I Oft.	<i>b.</i> C174 III. <b>2</b> 2	Other 🗆 💥
•	<b>\</b> \		
F. Fine sand, top ft. MS	Lor3.0ft \ 👹	mx .	al: Manufacturer, product name & mesh size
		Badger Badger	<u>BB #7</u>
G. Filter pack, top ft. MS	LorY.Oft	b. Volume added	i 0.466 ft <sup>3</sup>
•	Lor Oft.		ial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	Lor5.0a		Flint #30
		b. Volume adde	d 3, 19 ft <sup>3</sup>
L. Well bottom ft. MS	Lor_15.0A =	9. Well casing:	Flush threaded PVC schedule 40  23
			Flush threaded PVC schedule 80 \( \square\) 24
J. Filter pack, bottom ft MS	rot_15.Ott		Other 🗆 🎇
K. Borchole, bottom	T == 15 Aq.	10. Screen material:	
K. Borehole, bottom ft MS	Lor_12. Oil	a. Screen type:	Factory cut [] 11 Continuous slot <b>E</b> 01
L. Borchole, diameter _ 2. 1/4 in.			Other 🗆 🥸
Exporerior uninteres = 2 · = 10.		b. Manufacturer	
M. O.D. well casing _2.3 \frac{7}{1} in.		c. Slot size:	0.010in
and the more than the second		d. Slotted length	ί Δ
N. LD. well casing _2.07 in.		•	I (below filter pack): None 📫 14
		40.00	Other 🗆 🎬
I hereby certify that the information on this	form is true and correct to the	best of my knowledge.	
Signature Y11 YOL	Firm		
Todd Flak	En	Virogen	

7 Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR affice and bareau. Completion of these reports is required by chr. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

	Vatershed/Wastewater			MONITORING WELI Form 4400-113A	CONSTRU Rev. 7-98	ICTION
Facility/Project Name	Local Grid Location of Well	Other	rr e	Well Name 1110-		
Servanko Youerty Facility License, Permit or Monitoring No.	Local Grid Origin (estin	nated: 🗆 ) or	Well Location  or	Wis. Unique Well No.	DNR Wai II	D No.
Facility ID	Lat,ft. 1	Long		Date Well Installed	22120	<u></u>
The second secon	Section Location of Waste/So	ntroe	. Пъ	l m m	4 4 2 2	VY
Type of Well Code	NW 1/4 of NW 1/4 of Sec	5 T. 24	N.R. LO AW	Well Installed By: Nar Joe Blo	nc (first, lest) i	and Firm
Distance from Waste/ Enf. Stds.	Location of Well Relative to		Gov. Lot Number			
Sourceft Apply [		Sidegradient  Not Known		Envirage	<sup>2</sup> /1	
	ft MSL		Cap and lock?	<i>V</i>	M Yes [	7 No
0	_ ([-		Protective cover p	ripe:		
B. Well casing, top elevation 4.	7.69 n. MSL ————		a. Inside diameter	:	- 3	4in.
C. Land surface elevation	fLMSL		b. Length:	·	1	.Qn.
D. Surface seal, bottom ft. MS	Lor Oft	1	c. Material:		Steel 2	
12. USCS classification of soil near screen		<b>「校外交</b>	d Additional most	la abia-2	Other D	
	W SP B	18/	d. Additional prob If yes, describe		☐ Yes ☐	ON L
			II yes, account	<del>^</del>	Bentonite D	30
Bedrock 🗆		3.	Surface scal:		Concrete 5	
13. Sieve analysis performed?	Ces No				Other E	44.44
14. Drilling method used: Rot	ary □ 50	4.	Material between	well casing and protective		4 (1)
· Hollow Stem At					Bentonite C	30
	ther 🗆 🔛		Open		Other	
		5.	Annular space sea	l: a. Granular/Chippe		
15. Drilling fluid used: Water [] 02	Air □ 01			ud weight Bentonite		
Drilling Mud □ 03 1	Tone 29 99			and weight Bento	_	
16 Pullian additions need?	Ces 🛍 No	₩ d		te Bentonite-c		
16. Drilling additives used?	C2	- B €	Ft <sup>3</sup>	volume added for any o	of the above	
Describe		£.	How installed:		Tremie [	<b>J</b> 01
17. Source of water (attach analysis, if requ	ined):			Tren	uic pumped [	
11. 00000 01 11 0000 (200001 0000) 11 1000				•••	Gravity E	• •
		KOX.	Bentonite seal:		ite gramukes [	
T. D. and the seal Annual Co. MC			b. L1/4 in. 1203	3/8 in. 11/2 in. Ben		
E. Bentonite seal, top ft. MS	r or 1 · Orr /		c	***************************************	Other L	
F. Fine sand, top ft. MS	Lor 3 Oak	7.	Fine sand materia	l: Manufacturer, produc	ct name & me	sh size
	E . E . L		. Badoer	BB #7		
G. Filter pack, top ft. MS	Lor4.Qft.		b. Volume added			
H. Screen joint, top ft. MS	Lor5.On.		. Filter pack materi Red F	al: Manufacturer, produ Tint #30	ict name & mi	esh size
			b. Volume added		3	
L Well bottom ft. MS	Lor_15 Oft	9	. Well casing:	Flush threaded PVC so		
	. 15 6			Flush threaded PVC so		
J. Filter pack, bottom ft MS	ror 75.Ogr			Λa	: Other [	
W W	Lor_15.0A.	10	). Screen material:	PVC		
K. Borchole, bottom ft MS	ror_12.Om		a. Screen type:		Factory cut (	
L. Borchole, diameter _ 2 . 4 in.				Con	tinuous slot	
L. Borchole, diameter _ \( \frac{1}{2} \cdot \frac{74}{4} \) in.			1 2/2005	Johnson	Other	
M. O.D. well easing _2.37 in.			b. Manufacturer c. Slot size:	TUNITAL	<sub>0.</sub>	<u>010</u> in.
an our non summy _ in e = III.			d. Slotted length	ដ		O.Oft
N. LD. well casing _ 2. 9.7 in.		11	=	(below filter pack):	None	
		•			Other	
I hereby certify that the information on this	form is true and correct to th	e best of my kno	wledge.			
Signature Took Flook	Firm	nviroger			-	
~1000 + 1011	1	rivicoali	7			

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chr. 160, 281, 283, 289, 291, 292, 293, 295, and 299. Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

State of Wisconsia Department of Natural Recourses Route to: V	Watershed/Wastewater  Remediation/Redevelopment	Waste Mans Other	gement [	MONITORING WELL Form 4400-113A	CONSTRUC	CTION
Facility/Project Name	Local Grid Location of Well    NA   1t	Outer		Well Name		
Semanko Property	NA r	is: <u>N/A</u>	r_ 🗠 🖫.	Markane 171W-	5	
Facility License, Permit or Monitoring No.	Local Grid Origin 🔲 (estima	atcd: 🔲 ) or	Well Location	Wis. Unique Well No.	DNR Well ID	No.
	[Lat	Long		<u> 5x - 898</u>		
Facility ID	St. Plancft. N	,	ft. E. S/C/N	Date Well Installed 8	22120	00
Type of Well	Section Location of Waste/Sou	rce	, OF	Well Installed By: Nam	4 4 5 5.	<del>V</del> Y
Well Code/_	NW 14 OF NW 14 OF Sec.	5_T. <u>14</u>	N. RXW	Joe Bla	$\mathcal{L}(\mathbf{H}_{SL},\mathbf{H}_{SL})$	na rimi
Distance from Waste/ Enf. Stds.	Location of Well Relative to W	/aste/Source Sidegradient	Gov. Lot Number		<del></del>	-
Sourceft Apply [	d Downgradient n 🗆	-		Envirage	<u>'n</u>	
A. Protective pipe, top elevation	ft_MSL		. Cap and lock?		E Yes □	No
B. Well casing, top elevation 9	1.23 n. MSL —	2	. Protective cover p a. Inside diameter	•	_8.	Min.
C. Land surface elevation	ft_MSL		b. Length:	•	1.	Qn.
D. Surface seal, bottom ft. MS	Lor Oft		c. Material:		Steel 3	
12. USCS classification of soil near screen	7:35:75-3(+,9)	<b>化数整</b>	d. Additional pro-	leation?	Other 🗆	وبتناهيه
	W D SP	18/	If yes, describe		☐ Yes ☐	1 100
SM SC ML MHO	T CH CH CH	関ノノ	• .		Bentonite []	30
Bedrock 🗆		₩ \ 3	. Surface scal:		Concrete 🖾	
13. Sieve analysis performed?	Ces No				Other 🗆	4514444
	ary □ 50	4	. Material between	well casing and protective	• •	
Hollow Stem Au			Maan		Bentonite 🗆	
	ther 🗆 🧱		open	· Garanta-Krista	Other 🗖	******
15. Drilling fluid used: Water [] 0 2	Air □ 01		. Annular space see	il: a. Granular/Chippe and weight Bentonite		
	Tone 18 99			and weight Bento		
16 P 771				te Bentonite-ce		
16. Drilling additives used?	res 🏿 No			volume added for any o	-	
Describe		₩ f	How installed:		Tremie 🗆	
17. Source of water (attach analysis, if requ	ired):			Trem	ic pumped 🗆	_
			. Bentonite seal:	a Rentemi	Gravity □ ite gramules □	- • •
		₩ ĭ		3/8 in. 11/2 in. Ben		
E. Bentonite seal, top ft. MS	Lorl.QfL,		C		Other 🗆	45/45
F. Fine sand, top ft. MS	1 or 3 Day	7	. Fine sand materia	d: Manufacturer, produc	et name & mes	sh size
	30.77.21.		2. Badger	BB #7		
G. Filter pack, top ft. MS	Lor 4 . Qft.		b. Volume added	ial: Manufacturer, produ		eh size
H. Screen joint, top ft. MS	Lor5.On.	<u> </u>	a Red F	1int #30		
L. Well bottom ft. MS	Lor_15.0A		b. Volume added Well casing:	Flush threaded PVC so	hedule 40 🔣	
J. Filterpack, bottom ft MS	Lor_15. On.			Flush threaded PVC so	thedule 80 L Other C	ו 🎇
_		10	). Screen material:	PVC.		
K. Borehole, bottom ft MS	Lor_12. CA.		a. Screen type:		Factory cut Cinuous slot	
L. Borchole, diameter _ 2. 4 in.				MA14/ma	Other [	
M. O.D. well casing _ 2.3 \frac{7}{1} in.			<ul><li>b. Manufacturer</li><li>c. Slot size:</li><li>d. Slotted length</li></ul>	V		010in. 0.0ft
N. I.D. well casing _ 2.07 in.		1		ii (below filter pack):	None	14
Thereby carrify that the information on the	form is true and assured to the	hest of my les-	wiledos		Other [	
I hereby certify that the information on this Signature	Firm					
Toold Flak	Er,	Niroge1	7			

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chr. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chr. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be

	Watershed/Wastewat Remediation/Redeve	er	Waste Mans	gement[		MONITORING WELL Form 4400-113A	CONSTRUC Rev. 7-98	CTION
Facility/Project Name	Local Grid Location	n of Well				Well Name		
Semanko Property	<u>NA</u>	r Bs.		<u>/ft.</u>	□E.	MW-	-	
Facility License, Permit or Monitoring No.	Local Grid Origin	cstimated	: 🗆 ) or	Well Loca	tion 🗆 	Wis. Unique Well No.	DNR Weil ID	No.
Facility ID	St. Plane	fl.N,		ft. E.		Date Well Installed	831300	
Type of Well	Section Location of				_显影	Well Installed By: Nan	ne (first, last) ar	nd Firm
Well Code/	NH4 OF NW			N, R		$\Omega = \Gamma L$	anno	
Distance from Waste/ Enf. Stds.	Location of Well R. u  Upgradient		e/Source idegradient	Gov. Lot N	lumber		7	
Sourceft Apply [	d Downgradie		ot Known			<u>Maxin</u>	<u> </u>	
	ft MSL -			Cap and	lock?	·	☑ Yes □	No
			2	. Protectiv	e cover p	ipe:	/\	
D. William Carried to the carried to	ft. MSL —				diameter:	:	-9.	_
C. Land surface elevation	ft.MSL	ا البهب	-	b. Length				Qft.
D. Surface seal, bottom ft. MS	iLor _ L . D ft. 👰			c. Materi	IRII:		Steel 🗵 Other 🗆	
12. USCS classification of soil near screen	12 3	<b>1</b>	Agg Aggs	d. Additi	onal prot	ection?	☐ Yes ☐	No
	W G SP G	/ Al II	N / N		describe			
	T CH CH C	## H	\ \ \ <sub>\</sub>	9.5			Bentonite K	30
Bedrock 🗆	, 1	188 €	§ \ 3	. Surface s	Cat:		Concrete D	01
13. Sieve analysis performed?	Yes X No		* \				Other 🗆	
14. Drilling method used: Rot	zery □ 50		8 4	. Material	between	well casing and protective	re pipe:	700.000
Hollow Stem Au	ıger ☑ 41		\$				Bentonite 🗆	30
Ot	ther 🗆 🎆		\$				Other 🗵	
	_		5	. Amular	space sea	l: a. Granular/Chippe		33
15. Drilling fluid used: Water   0 2	Air 01			,I	.bs/gal m	ud weight Bentonite	-sand slurry 🗆	35
Drilling Mud □ 0 3 N	forc (2 99		3 0	I	.bs/gal m	nd weight Bento	mite slurry 🗆	3 1
16. Drilling additives used?	Van Har			i %	Bentoni	te Bentonite-co	ament grout []	50
10. Litting social es used?	Yes IX No			». ——	Ft <sup>3</sup>	volume added for any o	f the above	
Describe	į		f	. How i	installed:	_	Tremie 🗆	0 1
17. Source of water (attach analysis, if requ	rimd):		1			Trem	ie pumped 🗆	02
17. Source of water (autor amiyar, if legi	nou).		3				Gravity 🛛	
			§ 6	. Bentonit	./		te granules [	/
	1 70		\$ .	b. □1/4	tin. μ\3	3/8 in. □ 1/2 in. Ben		32
E. Bentonite seal, top ft. MS	LorL.Qtt.		_ / _	c			Other 🗆	
F. Fine sand, top ft. MS	Lorft.			. Fine sand	i material	l: Manufacturer, produc	it name & mes	n size
G. Filter pack, top ft. MS	Lor3.0ft				ne added			***
H. Screen joint, top ft. MS	Lor 5.0a-		8			al: Manufacturer, produ #30 Red Flint		sh size
re					ne added		3	*******
L Well bottomft. MS	Lor_15.0ft.		<b>1</b> 9	. Well cas		Flush threaded PVC so		
J. Filter pack, bottom ft MS	Lor_15.0 ft.					Flush threaded PVC so	Other $\Box$	www
_			j 10	). Screen n	naterial:	PVC		
K. Borehole, bottom ft MS	Lor_15.0 ft.			a. Scree			Factory cut [	
L. Borehole, diameter _ 1.3 in.			¥			Cont	Other	
2.4				b. Mamu c. Slot		Johnson		 D_ in.
M. O.D. well easing $-2.2$ in.					nze: ed length:	:	10	ે ું દ
N. I.D. well casing _ 2. 2 1 in.					material	(below filter pack):	None 🖾 Other 🗀	
I hereby certify that the information on this	form is true and co	rrect to the bes	t of my kno	wledge.				
Signature	Fin		rnel? M	Tino	)	-		

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 283, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent

tate of Wisconsin Repartment of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waster	water 🔲 🗼	Waste Management			
Remediation/Rede	evelopment 📉	Other			
scility/Project Name	County Name		Well Name		
Semanko	1 Chin	newa	_ m	1-W	I ID Number
cility License, Permit or Monitoring Number	County Code	Wis. Unique Well Ni		DNR Wel	I ID Number
	09	<u></u>	894		Control Control
Can this well be purged dry?  Ye  Well development method	з 🗆 №	11. Depth to Water (from top of			After Development
	1	well casing)	* +- •		
surged with bailer and pumped  surged with block and bailed  surged with block and pumped  surged with block, bailed and pumped  compressed air  bailed only  pumped only	51 52 50 50 50		a_5:4:	_inches	O O 1 / 29 / 200 O y m m d d d y y y y y y  (2.0 O m p.m.  — inches  Clear (x 20
	<del>(***</del>		Turbid 1		Turbid □ 25
Time spent developing well	5 min.		(Describe)		(Describe)
. Depth of well (from top of well casising) $-13$	9 fc				
.Inside dismeter of well	<u>in.</u>				
. Volume of water in filter pack and well casing	1.7 gal.	Fill in if drilling flui	ds were used a	nd well is a	nt solid waste facility:
. Volume of water removed from well	2. () gal.				
. Volume of water added (if any)	) gal.	14. Total suspended solids	·	mg/l	mg/l
Source of water added		15, COD		mg/l	mg/l
). Analysis performed on water added? Y (If yes, attach results)	es 🗆 No	16. Well developed by First Name: $\sqrt{0}$	imie		
1. Additional comments on development:			0		
ame and Address of Facility Contact/Owner/Responsitions:		I hereby certify the of my knowledge	hat the above in	nformation	is true and correct to the best
cility/Firm:		Signature:	Tucca 1	bosh	
rece: 407 East MD Str	ect	Print Name:	ebecca	(wo)	2
ty/State/Zip: Cadott, WI 54	1727	Firm: E	Envirog	en_	

tate of Wisconsin Department of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater	Waste Management
Remediation/Redevelopment	Other
scility/Project Name County Name	Well Name
Semanto	Wis, Unique Well Number   DNR Well ID Number
cility License, Permit or Monitoring Number County Code	
<u></u>	<u> </u>
Can this well be purged dry?	Before Development After Development  11. Depth to Water
Well development method  surged with bailer and bailed	(from top of well casing)  1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
surged with block and bailed 42 surged with block and pumped 52 surged with block, bailed and pumped 70	Date $b \cdot \frac{0}{m} \frac{1}{m} \frac{1}{d} \frac{29}{d} \frac{129}{y} \frac{0}{y} \frac{0}{y} \frac{9}{y} \frac{129}{m} \frac{129}{d} \frac{12000}{y} \frac{0}{y} \frac{1}{y} \frac{129}{y} $
compressed air 20 bailed only 10	Time c. 5:30 kp.m. 5:40 kp.m.  12. Sediment in well inches inches
pumped only 5 1	12. Sediment in well inches inches bottom
pumped slowly Other	13. Water clarity Clear 10 Clear 20 Turbid 215 Turbid 225
Time spent developing well min.	(Describe) (Describe)
. Depth of well (from top of well casisng)	
. Inside dismeter of well	
. Volume of water in filter pack and well casing	Fill in if drilling fluids were used and well is at solid waste facility:
. Volume of water removed from well 2 5 . 0 gal.	14. Total suspended mg/l mg/l
. Volume of water added (if any) gal.	solids
. Source of water added	15. COD mg/l mg/l
	16. Well developed by: Name (first, last) and Firm
0. Analysis performed on water added?   Yes No  (If yes, attach results)	First Name: James Last Name: Nuthals
	Firm: ENVICOSYM
7. Additional comments on development:	
ame and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is true and correct to the best
ame: Violetta Name: Sewanko	of my knowledge.
ıcility/Firm:	Signature: Kuluccu (A)
root: 407 East MD Street	Print Name: Renecca (100)
ity/State/Zip: Cadott, INT 54727	Firm: Enviosen

State of Wisconsin Department of Natural Resources

## MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Paradisi Pata ta	Waste Mailagement [
Remediation/Redevelopment 🔯	Other
acility/Project Name County Name	Well Name
Semanko Chip	New 2 MW-3
scility License, Permit of Monitoring Number (County Code)	Wis. Unique Well Number DNR Well ID Number
29	IX-496
A 11 11 11 11 11 11 11 11 11 11 11 11 11	D. C. Davidson A firm Davidson
. Can this well be purged dry?	Before Development After Development
NYTH daniel and an arterial and	11. Depth to Water (from top of a 10.53 ft. 10.98 ft.
Well development method	well casing)
surged with bailer and bailed   4 1	Work ordered
surged with bailer and pumped   6 1	06/ 06/ 2500 09/06/ 24/0
surged with block and bailed 42	Date $b.0\frac{9}{m}$ $\frac{29}{d}$ $\frac{29}{y}$ $\frac{29}{y}$ $\frac{9}{y}$ $\frac{9}{m}$ $\frac{129}{d}$ $\frac{2000}{y}$ $\frac{9}{y}$
surged with block and pumped $\Box$ 62 surged with block, bailed and pumped $\Box$ 70	
	Time c. 5:30 p.m. 5:30 p.m.
	11116 C PAPA PAIN PAPA PAIN.
•	12. Sediment in well inches inches
	bottom
pumped slowly 5 0 Other	13. Water clarity Clear   10 Clear   20
	Turbid 2 15 Turbid 2 25
. Time spent developing well 5 min	(Describe) (Describe)
- Hilli-	(Describe)
6. Depth of well (from top of well casisng)	
so parties work (more or work or many)	
5. Inside diameter of well $\underline{\mathcal{L}}$ $\underline{\mathcal{L}}$ in.	
. Volume of water in filter pack and well	
casing (gal.	
	Fill in if drilling fluids were used and well is at solid waste facility:
'. Volume of water removed from well 2 5 gal.	
$\bigcirc$	14. Total suspended mg/l mg/l
. Volume of water added (if any)	solids
0 0 0 11-1	is cop
Source of water added	15. COD mg/l mg/l
	16. Well developed by: Name (first, last) and Firm
0. Analysis performed on water added?	
0. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)	First Name: James Last Name: Nuthals
(2) (4)	Firm: Enviroson
7. Additional comments on development:	
•	
	·
	·
ame and Address of Facility Contact/Owner/Responsible Party	I hereby certify that the above information is true and correct to the best
ame: Violetta Name: Semanko	of my knowledge.
ame: VIOILHA Name: SLMANKO	
adit./Pi	Signature: ( ) Succes Croll
acility/Firm:	(AMULA STORE
more 407 East MD Street	Print Name: 12-becca ('00K
ity/State/Zip: CadOtt, WI 54727	Firm: ENVIVOSEN
,	l O

tate of Wisconsin Openment of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-1138 Rev. 7-98

Route to: Watershed/Waste	water	Waste Management	<b>:</b>		
Remediation/Rede	evelopment X	Other			
scility/Project Name	County Name		Well Name		
2 man 20	1 (1/1)	melia		MW	) - 니
cility License, Permit or Monitoring Number		Ms. Unique Well N	lumber	DNR We	ell ID Number
	<u> </u>	<u> </u>	-897		
V.					
Can this well be purged dry?	z □ No	11 Double to Water		erobmen	t After Development
. Well development method		11. Depth to Water (from top of	$\triangleleft$	52 A	_11.32 ft.
		well casing)	a		
	1   1	Ŭ,			
	2	Date	. 01,29	1200	70 0517917000
	52		$\frac{b - \sqrt{E}}{m m} \frac{d}{d} c$		000000000000000000000000000000000000
surged with block, bailed and pumped   7				гт <i>в</i> .тт.	. Flam.
	20	Time	c_5:00	2 × p.m.	_5:25 <b>[]</b> am.
bailed only				,	
pumped only	51	12. Sediment in well		inches	inches
pumped slowly	5.0	bottom			
Other		13. Water clarity	Clear 📙 1	. 0	Clear 🔲 20
			Turbid 🔯 1	. 5	Turbid 1 2 5
Time spent developing well	<u>5</u> min.		(Describe)		(Describe)
Depth of well (from top of well casising)	5 6				
Depth of well (from top of well casising) $-1$	<u>~</u>			<del></del>	
Inside diameter of well	) in				
The state of the s					
. Volume of water in filter pack and well					
casing	2. Fgal.				
		Fill in if drilling flui	ids were used a	nd well is	at solid waste facility:
. Volume of water removed from well $25$	2. <u>()</u> gal.				
			i	mg/l	mg/l
. Volume of water added (if any)	gal.	solids			
Common of common of the d		16 000		•	
. Source of water added		15. COD		mg/i	mg/l
		16. Well developed	by: Name (first	last) and Fir	TII
). Analysis performed on water added?	es 🗆 No	1	-7		mo: Nuthals
(If yes, attach results)	∞ ⊔ No	Lust Marine. 7	me	Last Nat	me: Muthars
		Firm: Enviv	osen		
1. Additional comments on development:			0		
		<del></del>			
ame and Address of Facility Contact/Owner/Responsib	1)	I hereby certify t	hat the above is	nformation	n is true and correct to the best
rst Last Name: Luman	X0	of my knowledge	С.		
			/ /	1 //	
cility/Firm:		Signature:	Charles (	U96C	
rect: 407 East MD St.	· a at	In (D		1	al.
TOCK TUP EASA WILD Y	1eel	Print Name: K	evieca	-	JK
ity/State/Zip: (adott, L) I 5476	17	Firm: F	NVIVOSI	en	
The state of the s	<u>-                                    </u>		CXXXXX A		**************************************

are of Wisconsin epartment of Natural Resources

#### MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater Waste Management Remediation/Redevelopment Other \_\_\_\_\_\_ acility/Project Name Well Name County Name MW-5 Chamber 20 semanko scility License, Permit or Monitoring Number DNR Well ID Number Wis. Unique Well Number County Code 20 ₩ Yes Can this well be purged dry? □ No Before Development After Development 11. Depth to Water 981t 888 tt. (from top of Well development method well casing) surged with bailer and bailed 41 surged with bailer and pumped □ 61 surged with block and bailed  $b.\frac{04}{m}/\frac{29}{d}/\frac{2000}{yyyy} = \frac{08}{m}/\frac{29}{d}/\frac{2000}{yyyy}$ □ 42 Date surged with block and pumped □ 62 surged with block, bailed and pumped □ 70 c. 5:40 gpm. 5:55 pm. compressed air Time 20 bailed only 10 pumped only 12. Sediment in well \_\_ inches 51 inches pumped slowly bottom Other \_\_\_\_\_ 13. Water clarity Clear 🛛 10 Clear 20 Turbid 15 Turbid□ 25 Time spent developing well (Describe) (Describe) 143ft Depth of well (from top of well casisng) 207in Inside diameter of well Volume of water in filter pack and well 9 6 gal casing Fill in if drilling fluids were used and well is at solid waste facility: \_150 gal. Volume of water removed from well 14. Total suspended \_\_\_\_ mg/l \_\_\_ mg/l Volume of water added (if any) \_\_ \_ gal. solids Source of water added \_\_\_\_ mg/l \_\_\_\_ mg/l 15. COD 16. Well developed by: Name (first, last) and Firm Last Name: Nuthals . Analysis performed on water added? ☐ Yes First Name: Tamil □ No (If yes, attach results) ENVIVORM Additional comments on development:

ne and Address of Facility Contact/Owner/Responsible Party  t  ne: Violetta Name: Servana K12	I hereby certify that the above information is true and correct to the best of my knowledge.
ility/Firm:	Signature: Dilecca (Tike
* 407 Fast MD Street	Print Name: Repeace Cook
Y/State/Zip: Cariott, WI 54727	Firm: Envilogen, Inc

are of Wisconsin epartment of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater	Waste Management
Remediation/Redevelopment	Other
cility/Project Name County Name	Well Name
Semanko Progerty Chippe	2Wa MW-10
cility License, Permit or Monitoring Number   County Code	Wis. Unique Well Number DNR Well ID Number
09	
a di sali sali sali sali sali sali sali sal	Refere Devisionment After Davidonment
Can this well be purged dry? Yes □ No	Before Development After Development  11. Depth to Water
Well development method	(from top of a 3 4 1 ft 4 9 1 ft.
	well casing)
surged with bailer and pumped	Date 17/05/2000 17/08/2000
	Date b. 12/08/2000 17/08/2000 m m d d y y y y
surged with block and pumped $\Box$ 62 surged with block, bailed and pumped $\Box$ 70	
compressed air	Time c, <u>4:DQ p.m.</u> 9:30 p.m.
bailed only	Vi and white a state and I
pumped only	12. Sediment in well inches inches
• • • · · · · · · · · · · · · · · · · ·	bottom
pumped slowly 75 0 Other	13. Water clarity Clear 10 Clear 20
— \ <del>\display</del>	Turbid □ 15 Turbid □ 25
Time spent developing well	(Describe) (Describe)
Depth of well (from top of well casisng)	
Inside diameter of well	
Volume of water in filter pack and well	
casing $-10.3$ gal.	THE COLUMN COLUM
Volume of water removed from well	Fill in if drilling fluids were used and well is at solid waste facility:
Volume of water removed from wen	14. Total suspended mg/l mg/l
Volume of water added (if any) gal.	solids
841.	601103
Source of water added	15. COD mg/l mg/l
	16. Well developed by: Name (first, last) and Firm
Analysis performed on water added?	First Name: Krish Last Name: Tennessen
(If yes, attach results)	
Advantage	Fim: EUVIVOSEN
. Additional comments on development:	·
me and Address of Facility Contact/Owner/Responsible Party	la contract de la bact
	I hereby certify that the above information is true and correct to the best
me: Violeta Name: Semanto	of my knowledge.
The second secon	Signature: Report Coch
cility/Firm:	KIMMON (DU)
wet 407 Easy Wil Street	Print Name: Kenecco Cook
A 111	
ty/State/Zip: (adott, W)	Firm: Envirosen, Inc.
* •	$\sigma$



# Attachment F

Soil Sample Laboratory Analytical Results



**yyl.** 2 **5 2000** Road

140 East Ryan Road Oak Creek, Wisconsin 53154 Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

July 24, 2000

John Zajakowski Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

RE: Semanko Property

Dear John Zajakowski

Enclosed are the results of analyses for sample(s) received by the laboratory on July 12, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Stathas Project Manager

andrea Stathan

WDNR Cert # 341000330



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:Semanko PropertySampled:7/6/00850 Hwy 153, Suite FProject Number:980273/050Received:7/12/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:7/24/00 17:18

#### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
GP-1 2-4	W007052-01	Soil (WI)	7/6/00
GP-1 6-8	W007052-02	Soil (WI)	7/6/00
GP-1 13-15	W007052-03	Soil (WI)	7/6/00
GP-2 4-6	W007052-04	Soil (WI)	7/6/00
GP-2 10-12	W007052-05	Soil (WI)	7/6/00
GP-3 6-8	W007052-06	Soil (WI)	7/6/00
GP-3 14-16	W007052-07	Soil (WI)	7/6/00
GP-4 4-6	W007052-08	Soil (WI)	7/6/00
GP-4 10-12	W007052-09	Soil (WI)	7/6/00
GP-5 18-20	W007052-10	Soil (WI)	7/6/00
GP-6 8.5-10.5	W007052-11	Soil (WI)	7/6/00
MeOH Blank	W007052-12	MeOH Blank	7/6/00

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

This analytical report must be reproduced in its entirety.

Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455 Project: Semanko Property

Project Number: 980273/050 Project Manager: John Zajakowski Sampled: 7/6/00

Received: 7/12/00

Reported: 7/24/00 17:18

#### Gasoline Range Organics (GRO) by WDNR GRO Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
GP-1 2-4			W00705	52.01			Soil (WI)	100.00
Gasoline Range Organics (GRO)	0070052	7/18/00	7/19/00	WDNR GRO	5.63	ND	mg/kg dry	
GP-1 6-8			W0070	52-02			Soil (WI)	G12
Gasoline Range Organics (GRO)	0070052	7/18/00	7/20/00	WDNR GRO	512	770	mg/kg dry	T1,T2,T4
GP-1 13-15			W0070	<u>52-03</u>			Soil (WI)	
Gasoline Range Organics (GRO)	0070052	7/18/00	7/19/00	WDNR GRO	5.62	ND	mg/kg dry	
<u>GP-2 4-6</u>			<u>W0070</u>				Soil (WI)	
Gasoline Range Organics (GRO)	0070052	7/18/00	7/18/00	WDNR GRO	5.23	ND	mg/kg dry	
GP-2 10-12			<u>W0070</u>	······	<i>-</i> 1 <i>-</i> 1	1.00	Soil (WI)	<u>G12</u>
Gasoline Range Organics (GRO)	0070052	7/18/00	7/20/00	WDNR GRO	547	1680	mg/kg dry	T2,T4
GP-3 6-8	0070050	7/10/00	W0070		5.56	ND	Soil (WI)	
Gasoline Range Organics (GRO)	0070052	7/18/00	7/18/00	WDNR GRO	3.30	ND	mg/kg dry	
GP-3 14-16 Gasoline Range Organics (GRO)	0070052	7/18/00	<b>W0070</b> 7/19/00	<u>52-07</u> WDNR GRO	5.49	ND	Soil (WI) mg/kg dry	
	0070032	77 18700			3.17	N.D		
GP-4 4-6 Gasoline Range Organics (GRO)	0070052	7/18/00	<u><b>W0070</b></u> 7/18/00	<u>52-08</u> WDNR GRO	5.66	ND	Soil (WI) mg/kg dry	
			******	<b>50.00</b>			Coll (WII)	
GP-4 10-12 Gasoline Range Organics (GRO)	0070052	7/18/00	<b>W0070</b> 7/19/00	WDNR GRO	5.67	ND	Soil (WI) mg/kg dry	
GP-5 18-20			W0070	52-10			Soil (WI)	
Gasoline Range Organics (GRO)	0070052	7/18/00	7/18/00	WDNR GRO	5.98	ND	mg/kg dry	
GP-6 8.5-10.5			W0070	52-11			Soil (WI)	
Gasoline Range Organics (GRO)	0070052	7/18/00	7/18/00	WDNR GRO	5.64	ND	mg/kg dry	
MeOH Blank			W0070	<u> 152-12</u>			MeOH Bl	ank
Gasoline Range Organics (GRO)	0070071	7/18/00	7/19/00	WDNR GRO	5.00	ND	mg/l	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:Semanko PropertySampled:7/6/00850 Hwy 153, Suite FProject Number:980273/050Received:7/12/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:7/24/00 17:18

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			······································
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes
<u>GP-1 2-4</u>			W0070	<u>52-01</u>			Soil (WI)	
Benzene	0070052	7/18/00	7/19/00		25.0	ND	ug/kg dry "	
Ethylbenzene	"				25.0	ND		
Methyl tert-butyl ether		11	(t		25.0	ND		
Toluene	ti .	11	11		25.0	ND	11	
1,2,4-Trimethylbenzene	(1	11	II		25.0	ND	"	
1,3,5-Trimethylbenzene	II .	11	11		25.0	ND	u	
Total Xylenes	lt .	11	"		25.0	ND		
Surrogate: 4-BFB	"	"	"	80.0-120		78.0	%	04
GP-1 6-8			W0070	52-02			Soil (WI)	G12
Benzene	0070052	7/18/00	7/19/00		100	286	ug/kg dry	
Ethylbenzene	11	11 10/00	"		100	5630	"	
Methyl tert-butyl ether	н	11	u		100	ND	**	
Toluene	н	"	II .		100	15200	н	
1,2,4-Trimethylbenzene	11	"	11		100	30300	п	
1,3,5-Trimethylbenzene	11	11	tt.		100	11100	11	
Total Xylenes	#	и	51		100	67800	11	
Surrogate: 4-BFB	n n	"	и	80.0-120	100	NR	%	05
CD 1 12 15			11/0070	F2 02			Call (Wit)	
GP-1 13-15	0070050	7/10/00	<u>W0070</u>	52-03	25.0	NID	Soil (WI)	
Benzene	0070052	7/18/00	7/19/00		25.0	ND	ug/kg dry "	
Ethylbenzene		"	"		25.0	ND	11	
Methyl tert-butyl ether	"	"	"		25.0	ND	u	
Toluene	н	"	и		25.0	ND		
1,2,4-Trimethylbenzene	"	0	"		25.0	ND		
1,3,5-Trimethylbenzene			"		25.0	ND		
Total Xylenes	u .				25.0	ND		
Surrogate: 4-BFB	"	"	11	80.0-120		90.6	%	
GP-2 4-6			W0070	<u> 152-04</u>			Soil (WI)	
Benzene	0070052	7/18/00	7/18/00		25.0	ND	ug/kg dry	
Ethylbenzene	н	п	п		25.0	ND	11	
Methyl tert-butyl ether	II	u	11		25.0	ND	11	
Toluene	**	II	n		25.0	ND	n .	
1,2,4-Trimethylbenzene	11	u .	ti		25.0	ND	tt.	
1,3,5-Trimethylbenzene	11	0	n		25.0	ND	11	
Total Xylenes	tt	11	н		25.0	ND	17	
Surrogate: 4-BFB	n n	"		80.0-120		90.8	%	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	Semanko Property	Sampled: 7/6/00
850 Hwy 153, Suite F	Project Number:	980273/050	Received: 7/12/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported: 7/24/00 17:18

### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
CD 4 10 14			****				G D GYTY	
GP-2 10-12	0050050	w. 1. 0.100	W0070	<u>52-05</u>		22.40	Soil (WI)	<u>G12</u>
Benzene	0070052	7/18/00	7/19/00		125	3240	ug/kg dry "	
Ethylbenzene			7/20/00		2500	6530		
Methyl tert-butyl ether	и	11	и		2500	ND	11	
Toluene	"	11	"		2500	3940	H	
1,2,4-Trimethylbenzene	11	11	11		2500	42800	II	
1,3,5-Trimethylbenzene	II.	U	II .		2500	32300	11	
Total Xylenes	11	*1	11		2500	38900		
Surrogate: 4-BFB	n	u	11	80.0-120		NR	%	G18
GP-3 6-8			W0070	52-06			Soil (WI)	
Benzene	0070052	7/18/00	7/18/00		25.0	ND	ug/kg dry	
Ethylbenzene	н	11	u		25.0	ND	"	
Methyl tert-butyl ether	u	H	и		25.0	ND	11	
Toluene	и	1t	41		25.0	ND	ti.	
1,2,4-Trimethylbenzene	и	11	11		25.0	ND	n	
1,3,5-Trimethylbenzene	H	н	11		25.0	ND	ti	
Total Xylenes	n	п	ш		25.0	ND	11	
Surrogate: 4-BFB	,,	n	"	80.0-120		78.5	%	04
GP-3 14-16			W0070	52-07			Soil (WI)	
Benzene	0070052	7/18/00	7/19/00	<u> </u>	25.0	ND	ug/kg dry	
Ethylbenzene	"	"	11 13700		25.0	ND	11	
Methyl tert-butyl ether	11	n			25.0	ND	ti	
Toluene	tt.	п	н		25.0	ND	11	
1,2,4-Trimethylbenzene	u	ti .	11		25.0	ND	н	
1,3,5-Trimethylbenzene	11	н	11		25.0	ND	11	
Total Xylenes	II.	n	n		25.0	ND	11	
Surrogate: 4-BFB	"	"		80.0-120	25.0	82.2	%	***************************************
GP-4_4-6			W0070	52-08			Soil (WI)	
Benzene	0070052	7/18/00	7/18/00	<u> </u>	25.0	ND	ug/kg dry	
Ethylbenzene	"	// 1 8/UU "	"		25.0	ND	ug/kg ury	
Methyl tert-butyl ether	II .	п	н		25.0 25.0	ND	11	
Toluene	tt .	II	11		25.0 25.0	ND	**	
1,2,4-Trimethylbenzene	ti .	11	11		25.0 25.0	ND ND	н	
	11	11			25.0 25.0	338	и	
1,3,5-Trimethylbenzene	11		···				n	
Total Xylenes Surrogate: 4-BFB		"	•		25.0	ND	%	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: Semanko Property Sampled: 7/6/00
850 Hwy 153, Suite F Project Number: 980273/050 Received: 7/12/00
Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 7/24/00 17:18

### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

Analyte         Number         Prepared         Analyzed         Limits         Lemit         Result         Units         No           GP-4 10-12         Benzene         0070052         7/18/00         7/19/00         25.0         ND         "         Ethylbenzene         "         25.0         ND         "         Ethylbenzene         "         25.0         ND         "         Totuene         ND         "         Totuene         10.0         "         25.0         ND         "         11.2,4-Trimethylbenzene         "         "         25.0         ND         "         11.2,4-Trimethylbenzene         "         "         25.0         ND         "         13.4         %         05         ND         "         13.4         %         05         ND         "         11.2,4-Trimethylbenzene         "         "         80.0-120         ND         "         05         ND         "         05         ND         "         05         ND         "         05         ND         "         05         ND         "         05         ND         "         05         ND         "         05         ND         "         05         ND         ND         "         13		Batch	Date	Date	Surrogate	Reporting	·		
Benzene         0070052         7/18/00         7/19/00         25.0         ND         welke dry           Ethylbenzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         "         25.0         ND         "           Toluene         "         "         "         25.0         ND         "           1,2,4-Trimethylbenzene         "         "         "         25.0         ND         "           1,3,5-Trimethylbenzene         "         "         "         25.0         ND         "           Total Xylenes         "         "         "         25.0         ND         "           Surrogate: 4-BFB         "         "         80.0-120         334         %         05           GP-5 18-20         "         "         W007052-10         Soli (WI)         Wg dry         Ethylbenzene         ND         "         Wg dry           Ethylbenzene         "         "         "         25.0         ND         "         Wg dry         Wg dry         Ethylbenzene         "         "         Soli (WI)         Wg dry         Wg dry         Wg dry         Wg dry <th>Analyte</th> <th>Number</th> <th>Prepared</th> <th>Analyzed</th> <th>Limits</th> <th>Limit</th> <th>Result</th> <th>Units</th> <th>Notes*</th>	Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Benzence         0070052         7/18/00         7/19/00         25.0         ND         welke dry           Elshylbenzene         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         "         25.0         ND         "           Toluene         "         "         "         25.0         ND         "           1,2,4-Trimethylbenzene         "         "         "         25.0         ND         "           1,3,5-Trimethylbenzene         "         "         "         25.0         ND         "           10tal Xylenes         "         "         "         25.0         ND         "           Sturrogate: 4-BFB         "         "         80.0-120         ND         "         *           GP-5 18-20         "         "         80.0-120         S5.0         ND         "         *           Benzene         070052         7/18/00         7/18/00         25.0         ND         "         *           GP-5 18-20         "         "         "         25.0         ND         "         *         *         *         *         ND         "         <	CD_4 10_12			W/0070	52.00			Soil (WI)	
Ethylbenzene         " " " " " " 25.0 ND " "           Methyl tert-butyl ether         " " " " 25.0 ND "           Toluene         " " " " 25.0 ND "           1,2,4-Trimethylbenzene         " " " 25.0 ND "           1,3,5-Trimethylbenzene         " " " 80.0-120 D5.0 ND "           Total Xylenes         " " " 80.0-120 D D D D D D D D D D D D D D D D D D D		0070053	7/19/00		32-09	25.0	MD		
Methyl tert-butyl ether         """"""""""""""""""""""""""""""""""""									
Toluene " " " " 25.0 ND " 1.2,4-Trimethylbenzene " " " " 80.0-120			п					II.	
Total Xylenes									
1,5,4-Trimethylbenzene									
1,3,3-Himlerlylenes	· ·		"						
Surrogate: 4-BFB									
Soil (WI)   Soil (WI)   Soil (WI)						25.0			
Benzene         0070052         7/18/00         7/18/00         25.0         ND         ug/kg dry           Ethylbenzene         """"""""""""""""""""""""""""""""""""	Surrogate: 4-BFB	"	"	"	80.0-120		134	%	05
Ethylbenzene         " " " " " 25.0 ND " " 25.0 ND " " 25.0 ND " " 25.0 ND " " 25.0 ND " " 25.0 ND " " 25.0 ND " " 25.0 ND "	GP-5 18-20			W0070	<u>52-10</u>			Soil (WI)	
Methyl tert-butyl ether	Benzene	0070052	7/18/00	7/18/00		25.0	ND	ug/kg dry	
Toluene " " " " " " " " " " " " " " " " " "	Ethylbenzene	н	II	11		25.0	ND	tt .	
Toluene	Methyl tert-butyl ether	II	н	11		25.0	ND	и	
1,2,4-Trimethylbenzene	•	11	11	н		25.0	ND	II	
1,3,5-Trimethylbenzene         " " " 80.0-120         ND " "           Surrogate: 4-BFB         " " 80.0-120         85.2         %           GP-6 8.5-10.5         W007052-11         Soil (WI)           Benzene         0070052         7/18/00         7/18/00         25.0         ND " ug/kg dry           Ethylbenzene         " " " " " 25.0         ND " "           Methyl tert-butyl ether         " " " 25.0         ND " "           Toluene         " " " " " 25.0         ND " "           1,2,4-Trimethylbenzene         " " " 25.0         ND " "           1,3,5-Trimethylbenzene         " " " 80.0-120         90.2         %           Surrogate: 4-BFB         " " " 80.0-120         90.2         %           MeOH Blank         " " 80.0-120         90.2         %           MeOH Blank         " " " 80007052-12         ND " ug/l           Ethylbenzene         " " " 80007052-12         ND " ug/l           Ethylbenzene         " " " " 80007052-12         ND " "           Methyl tert-butyl ether         " " " " 25.0         ND " "           Toluene         " " " " " " 25.0         ND " "           1,2,4-Trimethylbenzene         " " " " " 25.0         ND " "           Toluene         " " " " " " " "	1,2,4-Trimethylbenzene	ti .	11	u .		25.0	ND	11	
		11	tt	II .				ti.	
GP-6 8.5-10.5         W007052-11         Soil (WI)           Benzene         0070052         7/18/00         7/18/00         25.0         ND         ug/kg dry           Ethylbenzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         "         25.0         ND         "           Toluene         "         "         "         25.0         ND         "           1,2,4-Trimethylbenzene         "         "         "         25.0         ND         "           1,3,5-Trimethylbenzene         "         "         "         25.0         ND         "           Total Xylenes         "         "         "         80.0-120         90.2         %           MeOH Blank         "         "         80.0-120         90.2         %           MeOH Blank         "         "         80.0-120         25.0         ND         "           Benzene         0070071         7/18/00         7/19/00         25.0         ND         "           Benzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether		п	п	II .				#1	
Benzene         0070052         7/18/00         7/18/00         25.0         ND         ug/kg dry           Ethylbenzene         " " " " " " 25.0         ND " "           Methyl tert-butyl ether         " " " " 25.0         ND " "           Toluene         " " " " 25.0         ND " "           1,2,4-Trimethylbenzene         " " " 25.0         ND " "           1,3,5-Trimethylbenzene         " " " 80.0-120         25.0         ND " "           Total Xylenes         " " " 80.0-120         90.2         %           MeOH Blank         " " 80.0-120         90.2         %           MeOH Blank         " " 80.0-120         25.0         ND ug/theres           Ethylbenzene         " " " 19/00         25.0         ND ug/theres           Methyl tert-butyl ether         " " " " 25.0         ND " "           Toluene         " " " " " " " 25.0         ND " "           1,2,4-Trimethylbenzene         " " " " " " " 25.0         ND " "           1,3,5-Trimethylbenzene         " " " " " " " " 25.0         ND " "           1,3,5-Trimethylbenzene         " " " " " " " " " 25.0         ND " " "           Total Xylenes         " " " " " " " " " " " " " " " " " " "		ıı .	и	"	80.0-120			%	
Benzene         0070052         7/18/00         7/18/00         25.0         ND         ug/kg dry           Ethylbenzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         "         25.0         ND         "           Toluene         "         "         "         25.0         ND         "           1,2,4-Trimethylbenzene         "         "         "         25.0         ND         "           1,3,5-Trimethylbenzene         "         "         "         25.0         ND         "           Total Xylenes         "         "         "         80.0-120         90.2         %           Surrogate: 4-BFB         "         "         80.0-120         90.2         %           MeOH Blank         Benzene         0070071         7/18/00         7/19/00         25.0         ND         "           Ethylbenzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         25.0         ND         "           Toluene         "         "         25.0         ND	GP-6 8.5-10.5			W0070	52-11			Soil (WI)	
Ethylbenzene       " " " " " " 25.0 ND "         Methyl tert-butyl ether       " " " " 25.0 ND "         Toluene       " " " 25.0 ND "         1,2,4-Trimethylbenzene       " " " 25.0 ND "         1,3,5-Trimethylbenzene       " " " 25.0 ND "         Total Xylenes       " " " 80.0-120       90.2 %         MeOH Blank       " " 80.0-120       90.2 %         MeOH Blank       " " 80.0-120       25.0 ND "         Benzene       0070071       7/18/00       7/19/00       25.0 ND "         Ethylbenzene       " " " " 25.0 ND "       25.0 ND "         Methyl tert-butyl ether       " " " " 25.0 ND "         Toluene       " " " " " 25.0 ND "         1,2,4-Trimethylbenzene       " " " " 25.0 ND "         1,3,5-Trimethylbenzene       " " " " 25.0 ND "         1,3,5-Trimethylbenzene       " " " " " 25.0 ND "		0070052	7/18/00		<u> </u>	25.0	ND		
Methyl tert-butyl ether         """"""""""""""""""""""""""""""""""""								11 11 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	
Toluene " " " " " " 25.0 ND " 1,2,4-Trimethylbenzene " " " " 25.0 ND " 1,3,5-Trimethylbenzene " " " " 25.0 ND " Total Xylenes " " " 80.0-120 90.2 %  MeOH Blank Benzene 0070071 7/18/00 7/19/00 25.0 ND " MeOH Blank Ethylbenzene " " " " 25.0 ND " 10.00 Methyl tert-butyl ether " " " 25.0 ND " 10.00 Methyl tert-butyl ether " " " 25.0 ND " 1.2,4-Trimethylbenzene " " " " 25.0 ND " 1.3,5-Trimethylbenzene " " " " " 25.0 ND " 1.3,5-Trimethylbenzene " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " " " " " 25.0 ND " " 1.3,5-Trimethylbenzene " " " " " " " " " " " " " " " " " "	•	ıı	11	11				и	
1,2,4-Trimethylbenzene       " " " " " 25.0 ND " "         1,3,5-Trimethylbenzene       " " " 25.0 ND "         Total Xylenes       " " " 80.0-120       90.2 %         Surrogate: 4-BFB       " " 80.0-120       90.2 %         MeOH Blank       " " 8007052-12       MeOH Blank         Benzene       0070071       7/18/00       7/19/00       25.0 ND ug/l         Ethylbenzene       " " " " 25.0 ND "       " " " 25.0 ND "         Methyl tert-butyl ether       " " " " 25.0 ND "       " " 25.0 ND "         Toluene       " " " " 25.0 ND "       " " 25.0 ND "         1,2,4-Trimethylbenzene       " " " 25.0 ND "       " " 25.0 ND "         1,3,5-Trimethylbenzene       " " " " " 25.0 ND "       " " 25.0 ND "         Total Xylenes       " " " " " " 25.0 ND "       ND "		11	11	п				**	
1,3,5-Trimethylbenzene       " " " " 80.0-120       ND " "		**	ш	ш	•			tt	
Total Xylenes         " " " 80.0-120         ND " "           Surrogate: 4-BFB         " " 80.0-120         90.2 %           MeOH Blank         W007052-12         MeOH Blank           Benzene         0070071         7/18/00         7/19/00         25.0 ND ug/l           Ethylbenzene         " " " " " 25.0 ND "         " " " " 15.0 ND "           Methyl tert-butyl ether         " " " " " 25.0 ND "         " " 12.24-Trimethylbenzene         " " " " 25.0 ND "           1,2,4-Trimethylbenzene         " " " " " 25.0 ND "         ND " "           1,3,5-Trimethylbenzene         " " " " " " 25.0 ND "           Total Xylenes         " " " " " " 25.0 ND "	•	n		11				11	
MeOH Blank         " " 80.0-120         90.2 %           MeOH Blank         W007052-12         MeOH Blank           Benzene         0070071         7/18/00         7/19/00         25.0 ND ug/l           Ethylbenzene         " " " " 25.0 ND "         " " " " 25.0 ND "           Methyl tert-butyl ether         " " " " 25.0 ND "         " " 25.0 ND "           Toluene         " " " " " 25.0 ND "         " " 25.0 ND "           1,2,4-Trimethylbenzene         " " " " " 25.0 ND "         " " 25.0 ND "           1,3,5-Trimethylbenzene         " " " " " 25.0 ND "         " " 25.0 ND "           Total Xylenes         " " " " " " " " 25.0 ND "         " " 25.0 ND "	•	n	"	11				11	
MeOH Blank         W007052-12         MeOH Blank           Benzene         0070071         7/18/00         7/19/00         25.0         ND         ug/l           Ethylbenzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         "         25.0         ND         "           Toluene         "         "         "         25.0         ND         "           1,2,4-Trimethylbenzene         "         "         "         25.0         ND         "           1,3,5-Trimethylbenzene         "         "         "         25.0         ND         "           Total Xylenes         "         "         "         25.0         ND         "		и		· · · · · · · · · · · · · · · · · · ·	80.0-120	25.0		%	
Benzene         0070071         7/18/00         7/19/00         25.0         ND         ug/l           Ethylbenzene         "         "         "         25.0         ND         "           Methyl tert-butyl ether         "         "         "         25.0         ND         "           Toluene         "         "         "         25.0         ND         "           1,2,4-Trimethylbenzene         "         "         "         25.0         ND         "           1,3,5-Trimethylbenzene         "         "         "         25.0         ND         "           Total Xylenes         "         "         "         25.0         ND         "								M OTT DI	
Ethylbenzene       " " " " " 25.0 ND "         Methyl tert-butyl ether       " " " 25.0 ND "         Toluene       " " " 25.0 ND "         1,2,4-Trimethylbenzene       " " " 25.0 ND "         1,3,5-Trimethylbenzene       " " " 25.0 ND "         Total Xylenes       " " " 25.0 ND "					<u>152-12</u>	0.7.0			<u> </u>
Methyl tert-butyl ether " " " 25.0 ND "  Toluene " " " 25.0 ND "  1,2,4-Trimethylbenzene " " " 25.0 ND "  1,3,5-Trimethylbenzene " " " 25.0 ND "  Total Xylenes " " " 25.0 ND "									
Toluene " " " 25.0 ND " 1,2,4-Trimethylbenzene " " " 25.0 ND " 1,3,5-Trimethylbenzene " " " 25.0 ND " Total Xylenes " " " 25.0 ND "									
1,2,4-Trimethylbenzene       " " " 25.0 ND "         1,3,5-Trimethylbenzene       " " " 25.0 ND "         Total Xylenes       " " " 25.0 ND "	•								
1,3,5-Trimethylbenzene " " " 25.0 ND "  Total Xylenes " " " 25.0 ND "									
Total Xylenes " " " 25.0 ND "									
Total Aylenes 25.0 IND	1,3,5-Trimethylbenzene								
Surrogate: 4-BFB " " 80.0-120 82.3 %	Total Xylenes	11	"	"		25.0		11	
	Surrogate: 4-BFB	"	"	14	80.0-120		82.3	%	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	Semanko Property	Sampled:	7/6/00
850 Hwy 153, Suite F	Project Number:	980273/050	Received:	7/12/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported:	7/24/00 17:18

## Dry Weight Determination Great Lakes Analytical--Oak Creek

Sample Name	Lab ID	Matrix	Result	Units
GP-1 2-4	W007052-01	Soil (WI)	88.8	%
GP-1 6-8	W007052-02	Soil (WI)	97.7	%
GP-1 13-15	W007052-03	Soil (WI)	89.0	%
GP-2 4-6	W007052-04	Soil (WI)	95.5	%
GP-2 10-12	W007052-05	Soil (WI)	91.3	%
GP-3 6-8	W007052-06	Soil (WI)	89.9	%
GP-3 14-16	W007052-07	Soil (WI)	91.0	%
GP-4 4-6	W007052-08	Soil (WI)	88.3	%
GP-4 10-12	W007052-09	Soil (WI)	88.1	%
GP-5 18-20	W007052-10	Soil (WI)	83.7	%
GP-6 8.5-10.5	W007052-11	Soil (WI)	88.6	%

Great Lakes Analytical--Oak Creek



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Envirogen - Mosinee	Project: S	Semanko Property	Sampled:	7/6/00
850 Hwy 153, Suite F	Project Number: 9	980273/050	Received:	7/12/00
Mosinee, WI 54455	Project Manager: J	ohn Zajakowski	Reported:	7/24/00 17:18

# Gasoline Range Organics (GRO) by WDNR GRO/Quality Control Great Lakes Analytical--Oak Creek

	Date	Spike	Sample	QC	F	Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%_	Limit	%	Notes*
Batch: 0070052 Blank	Date Prepare		<u>0</u>		Extracti	on Method: EP	A 5030B	[MeOH]		
Gasoline Range Organics (GRO)	7/18/00			ND	mg/kg dr	y 5.00				
LCS Gasoline Range Organics (GRO)	0070052-BS1 7/18/00	10.0		10.9	mg/kg dr	y 80.0-120	109			
LCS Dup Gasoline Range Organics (GRO)	0070052-BSI 7/18/00	D1 10.0		9.35	mg/kg dr	y 80.0-120	93.5	20.0	15.3	

Great Lakes Analytical--Oak Creek

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Envirogen - Mosinee Project: Semanko Property Sampled: 7/6/00 850 Hwy 153, Suite F Project Number: 980273/050 Received: 7/12/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 7/24/00 17:18

### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B/Quality Control Great Lakes Analytical--Oak Creek

	Date	Spike	Sample	QC		eporting Limit		RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
D.4.1. 0050052	D / D	3 #/40 <i>/</i> /			T) ( ()	N. d. I. DD	4 5020D	D.C. OTT		
Batch: 0070052	Date Prepa		<u> </u>		Extraction	n Method: EP	A 5030B	MeOH		
Blank	0070052-B	<u>LKI</u>								
Benzene	7/18/00			ND	ug/kg dry					
Ethylbenzene	и			ND	н	25.0				
Methyl tert-butyl ether	u .			ND	11	25.0				
Toluene	u			ND	11	25.0				
1,2,4-Trimethylbenzene	II			ND	"	25.0				
1,3,5-Trimethylbenzene	II			ND	"	25.0				
Total Xylenes	II .			ND	tr	25.0				
Surrogate: 4-BFB	11	1000		826	n .	80.0-120	82.6			
LCS	0070052 D	01								
Benzene	0070052-B			950	برمرادم طسر	80.0-120	85.9			
	7/18/00	1000		859	ug/kg dry "					
Ethylbenzene		1000		873	n	80.0-120	87.3			
Methyl tert-butyl ether		1000		1010		80.0-120	101			
Toluene	"	1000		870	" (1	80.0-120	87.0			
1,2,4-Trimethylbenzene		1000		846		80.0-120	84.6			
1,3,5-Trimethylbenzene	ш	1000		846	II .	80.0-120	84.6			
Total Xylenes	11	3000	·	2610	<del>1</del> 1	80.0-120	87.0			
Surrogate: 4-BFB	"	1000		942	"	80.0-120	94.2			
LCS Dup	0070052-B	SD1								
Benzene	7/18/00	1000		861	ug/kg dry	80.0-120	86.1	20.0	0.233	
Ethylbenzene	11	1000		871	"	80.0-120	87.1	20.0	0.229	
Methyl tert-butyl ether	11	1000		1010	tt	80.0-120	101	20.0	0	
Toluene	**	1000		870	11	80.0-120	87.0	20.0	0	
1,2,4-Trimethylbenzene	H	1000		850	**	80.0-120	85.0	20.0	0.472	
1,3,5-Trimethylbenzene	n	1000		842	н	80.0-120	84.2	20.0	0.474	
Total Xylenes	tt.	3000		2610	п	80.0-120	87.0	20.0	0.474	
Surrogate: 4-BFB	"	1000		978	"	80.0-120	97.8	20.0		
Surroguie. 4-DFD		1000		9/0		00.0-120	37.0			

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



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Envirogen - Mosinee Project: Semanko Property Sampled: 7/6/00
850 Hwy 153, Suite F Project Number: 980273/050 Received: 7/12/00
Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 7/24/00 17:18

#### **Notes and Definitions**

#	Note
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G18	The surrogate is diluted out of detection range for this sample.
O4	One or more surrogate recoveries were below the laboratory's established acceptance criteria.
O5	One or more surrogate recoveries were above the laboratory's established acceptance criteria.
Tl	Gas Pattern
T2	Late Peaks
T4	Gas Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Great Lakes Analytical--Oak Creek

Andrea Stathas, Project Manager

Page 9 of 9



# CHAIN OF CUSTODY HERORS

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

								<del></del>			
Client: Enviragen Inc.		Bill To:						TAT: 5 DAY 4 L	DAY 3 DA	Y 2 DAY	1 DAY < 24 HRS.
Address: 850 Huy 153, Suite	Ê	Addres	s: $\langle$	SAMI	E>			DATE RESULTS N		10071	
								TEMPERATURE UP		,	
MESINER LUI 5448/ Report to: Zajakunsti, Fax #: (715 Project: Se, nanks, Spenty 980273/050	() 693-1750 () 693-1760	State 8	n Dece	15/h	Phone Fax #:	#: ( )		AIR BILL NO.			
Project Seriantis 980273 /15-13	/ / /	/	120	/	<del></del>	//~/	////	/ / / /		,	7
Sampler Chara Conzel	_/ /		The state of the s		No. No.			/ / / /		SAMPLE ONTROL /	/
PO/Quote #:	T & / &					\\ <del>```</del>	/ / /			\$ 7 8	
FIELD ID, LOCATION	215 NO 10 10 10 10 10 10 10 10 10 10 10 10 10	Samos Walnus E	1	Salling St.	SEMENTO ON THE SECONDARY OF THE SECONDAR			/ / / /		\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	LABORATORY ID NUMBER
11 (1)	-6 CO 0920		MECH	2 Peccay		X				V wa	7052-01
Strong Odge	0930	1			1		:			ارما	-02
Strong Oder  3 CP-1 13-15  Strong Oder  4 CP-2 4-6	0940									V	-03
1 CP-2 4-6	1020									V	-04
5 6P-2 10-121	101°C									V	-05
6 CP-3 6.51	1/10			100						V	-06
7 6P.3 141-16'	1140	:								V	-07
8 CP.4 4'-6'	1215		:								-08
9- CP-4 10'-12'	1230					, ,				V	-09
0 6P5 18'-20'	V 1350	\/	V		V	V				i	V -10
	Ditr	TTT MA	07/	L2/05 RELIN	NQUISHED		<u> </u>	RECEIVED		L	
RECE	IVED			RELIN	IQUISHED		· · · · · · · · · · · · · · · · · · ·	RECEIVED	40.772.480.276		
COMMENTS:		A PARTIE A									
									PAGE	/	OF 2



# CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

			····				· · · · · · · · · · · · · · · · · · ·		
Client: Envirogen Inc		Bill To	:			· · · · · · · · · · · · · · · · · · ·	TAT: 5 DAY 4 D	AY 3 DAY 2 DA	AY 1 DAY < 24 HRS.
Address: S50 Huy 153 Suite F		Addre	ss: <	SAME.	>		DATE RESULTS NE	EDED: 07/24	1/00
Mosinee WI 54481					•		TEMPERATURE UP		
Mosince LOI 54481  Tenn Report to: Zajickumiki Phone #: (71: Fax #: (71:	5 ) 643 T <u>5 ) 693-17</u>	フシ <sup>い</sup> State o フょし Progra	& Wysians m: PECF	er Eb	Phone #: ( Fax #: (	) )	AIR BILL NO.	Donhan	M5
Project: Suman to Property 180273/03	50		/	8/		/_ <del></del>		SAMPLE	-
Sampler: Shawn Wenzel	/	/ & / .	THE STATE OF THE S				' / / / ,	CONTRO	
PO/Quote #:  FIELD ID, LOCATION /		OLECTE SAMPLE MANAGERIA MA	PROGRAMMING AND AND AND AND AND AND AND AND AND AND	S. J. J. J. J. J. J. J. J. J. J. J. J. J.		\$ / / / <sub>/</sub>	////	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LABORATORY ID NUMBER
1 / 1 / 1 / 1 / 1 / 1		145 Sc: 1	Mec H None	2 Pechip					N007052-1
2 Me CH Blank 7	7-6-00 10	100 M=OH	MeDIT	1 200 500				i	V -12
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RELINDUISHED 7-7-00 REC X Nown Wingel C915 A RELINDUISHED REC	DEIVED	ama	07	112/BONG	DUISHED		RECEIVED		
RECINOUISHED REC	CEIVED 7		7.	RELING	DUISHED		RECEIVED		
COMMENTS:									
								1 -	



# Attachment G

**Groundwater Sample Laboratory Analytical Reports** 

JOHN ZAJAKOWSKI ENVIROGEN INC 850 HWY 153 STE F MOSINEE WI 54455

Project #

980273/050

Project Name

SEMANKO PROPERTY

Invoice # E32522

A	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Cod
Lab Code Sample ID	5032522A MW-10						Sample Type Sample Date	Water 3/9/01		
Organic										
General										
Gasoline	Range Organics	< 100	ug/l	24	76	1	3/13/01	GRO95	CAH	1
PVOC + Nap	hthalene									
Benzene		3.4	ug/l	0.39	1.3	1	3/13/01	GRO95	CAH	1
Ethylben	zene	< 0.4	ug/l	0.4	1.3	1	3/13/01	GRO95	CAH	1
MTBE		< 0.47	ug/l	0.47	1.6	1	3/13/01	GRO95	CAH	1
Naphthale	ene	< 0.53	ug/l	0.53	1.8	1	3/13/01	GRO95	CAH	1
Toluene		< 0.37	ug/l	0.37	1.2	1	3/13/01	GRO95	CAH	1
1,2,4-Trii	methylbenzene	< 0.4	ug/l	0.4	1.3	1	3/13/01	GRO95	CAH	1
1,3,5-Tri1	methylbenzene	< 0.63	ug/l	0.63	2.1	1	3/13/01	GRO95	CAH	1
Xylene's		< 1.4	ug/l	1.4	4.8	11	3/13/01	GRO95	САН	1
Lab Code	5032522B	****					Sample Type	Water		
Sample ID	MW-4						Sample Date	3/9/01		
Organic					/**************************************					
General										
	Range Organics	420	ug/l	24	76	1	3/14/01	GRO95	CAH	1 46
PVOC + Nap		120	46,1	2.		•	2111101			
Benzene	oninatorie .	6.5	ug/l	0.39	1.3	1	3/14/01	GRO95	CAH	1
Ethylben	zene	4.4	ug/l	0.4	1.3	1	3/14/01	GRO95	САН	1
MTBE	30110	< 0.47	ug/l	0.47	1.6	1	3/14/01	GRO95	САН	1
Naphthal	ene	< 0.53	-				3/14/01			1
		~ 0.33	ug/l	0.53	1.8	1	3/14/01	GROSS	CAH	1
•			ug/l ug/l	0.53	1.8			GRO95 GRO95	САН	1
Toluene	methylbenzene	2.3	ug/l	0.53 0.37 0.4		1 1 1	3/14/01 3/14/01	GRO95 GRO95		•
Toluene 1,2,4-Trii	methylbenzene methylbenzene	2.3	ug/l ug/l	0.37 0.4	1.2	1	3/14/01	GRO95	САН	1
Toluene 1,2,4-Trii	methylbenzene methylbenzene	2.3 < 0.4	ug/l	0.37	1.2	1	3/14/01 3/14/01	GRO95 GRO95	CAH CAH	
Toluene 1,2,4-Trii 1,3,5-Trii Xylene's	methylbenzene	2.3 < 0.4 < 0.63	ug/l ug/l ug/l	0.37 0.4 0.63	1.2 1.3 2.1	1 1 1	3/14/01 3/14/01 3/14/01 3/14/01	GRO95 GRO95 GRO95 GRO95	CAH CAH CAH	1 1 1
Toluene 1,2,4-Trii 1,3,5-Trii		2.3 < 0.4 < 0.63	ug/l ug/l ug/l	0.37 0.4 0.63	1.2 1.3 2.1	1 1 1	3/14/01 3/14/01 3/14/01	GRO95 GRO95 GRO95 GRO95	CAH CAH CAH	1 1 1
Toluene 1,2,4-Trii 1,3,5-Trii Xylene's  Lab Code Sample ID	methylbenzene 5032522C	2.3 < 0.4 < 0.63	ug/l ug/l ug/l	0.37 0.4 0.63	1.2 1.3 2.1	1 1 1	3/14/01 3/14/01 3/14/01 3/14/01 Sample Type	GRO95 GRO95 GRO95 GRO95 Water	CAH CAH CAH	
Toluene 1,2,4-Trin 1,3,5-Trin Xylene's  Lab Code Sample ID  Inorganic	methylbenzene 5032522C	2.3 < 0.4 < 0.63	ug/l ug/l ug/l	0.37 0.4 0.63	1.2 1.3 2.1	1 1 1	3/14/01 3/14/01 3/14/01 3/14/01 Sample Type	GRO95 GRO95 GRO95 GRO95 Water	CAH CAH CAH	
Toluene 1,2,4-Trii 1,3,5-Trii Xylene's  Lab Code Sample ID  Inorganic General	5032522C MW-3	2.3 < 0.4 < 0.63 < 1.4	ug/l ug/l ug/l ug/l	0.37 0.4 0.63 1.4	1.2 1.3 2.1 4.8	1 1 1	3/14/01 3/14/01 3/14/01 3/14/01 Sample Type Sample Date	GRO95 GRO95 GRO95 GRO95 Water 3/9/01	CAH CAH CAH CAH	
Toluene 1,2,4-Trii 1,3,5-Trii Xylene's  Lab Code Sample ID  Inorganic General Alkalinit	methylbenzene 5032522C	2.3 < 0.4 < 0.63	ug/l ug/l ug/l	0.37 0.4 0.63	1.2 1.3 2.1	1 1 1	3/14/01 3/14/01 3/14/01 3/14/01 Sample Type Sample Date	GRO95 GRO95 GRO95 GRO95 Water	CAH CAH CAH	I I I

JOHN ZAJAKOWSKI **ENVIROGEN INC** 850 HWY 153 STE F MOSINEE WI 54455

Project #

980273/050

Project Name SEMANKO PROPERTY

Invoice # E32522

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5032522C MW-3						Sample Type Sample Date			
Metals										
Iron		0.36 "J"	mg/l	0.139	0.46	1	3/13/01	6010B	JLA	1 .
Mangan	iese	0.026 "J"	mg/l	0.017	0.057	1	3/13/01	6010B	JLA	1
Organic										
General										
	e Range Organics	< 100	ug/l	24	76	1	3/14/01	GRO95	CAH	1
PVOC + Na										
Benzeno	•	< 0.39	ug/l	0.39	1.3	1	3/14/01	GRO95	САН	1
Ethylbe	nzene	< 0.4	ug/l	0.4	1.3	1	3/14/01	GRO95	САН	1
MTBE		< 0.47	ug/l	0.47	1.6	1	3/14/01	GRO95	САН	1
Naphtha	alene	< 0.53	ug/l	0.53	1.8	1	3/14/01	GRO95	CAH	1
Toluene	;	< 0.37	ug/l	0.37	1.2	1	3/14/01	GRO95	CAH	1
1,2,4-Tr	rimethylbenzene	< 0.4	ug/l	0.4	1.3	1	3/14/01	GRO95	CAH	1
1,3,5-Tr	rimethylbenzene	< 0.63	ug/l	0.63	2.1	1	3/14/01	GRO95	CAH	1
Xylene's	s	< 1.4	ug/l	1.4	4.8	1	3/14/01	GRO95	CAH	1
Lab Code	5032522D						Sample Type	Water		<del></del>
Sample ID	MW-2						Sample Date			
Organic		· · · · · · · · · · · · · · · · · · ·								
General										
Gasolin	e Range Organics	< 100	ug/l	24	76	1	3/14/01	GRO95	CAH	1
PVOC + Na	phthalene									
Benzene		17	ug/l	0.39	1.3	1	3/14/01	GRO95	САН	1
Ethylbe	nzene	2	ug/l	0.4	1.3	1	3/14/01	GRO95	CAH	1
MTBE		< 0.47	ug/l	0.47	1.6	1	3/14/01	GRO95	САН	1
Naphtha	alene	< 0.53	ug/l	0.53	1.8	1	3/14/01	GRO95	САН	1
Toluene	2	30	ug/l	0.37	1.2	1	3/14/01	GRO95	CAH	1
1,2,4-Tı	rimethylbenzene	2.7	ug/l	0.4	1.3	1	3/14/01	GRO95	CAH	1
1,3,5-Tı	rimethylbenzene	1.1 "J"	ug/l	0.63	2.1	1	3/14/01	GRO95	САН	1
Xylene's	c	24	ug/l	1.4	4.8	1	3/14/01	GRO95	CAH	1

JOHN ZAJAKOWSKI ENVIROGEN INC 850 HWY 153 STE F MOSINEE WI 54455

Project #

980273/050

**Project Name** 

SEMANKO PROPERTY

Invoice #

E32522

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code 5032522E Sample ID MW-5						Sample Type Sample Date	Water 3/9/01		
Inorganic									
General									
Alkalinity as CaCO3	64	mg/l	1.5	5	1	3/23/01	310.1	JDB	1
Nitrogen (Nitrate-Nitrite)	0.22	mg/l	0.02	0.07	10	3/15/01	300.0	TJW	1
Sulfate	7.1	mg/l	0.24	0.79	10	3/15/01	300.0	TJW	1
Metals									
Iron	10	mg/l	0.139	0.46	1	3/14/01	6010B	JLA	I
Manganese	3.6	mg/l	0.051	0.171	3	3/14/01	6010B	JLA	1
Organic									
General									
Gasoline Range Organics	43000	ug/l	2400	7600	100	3/14/01	GRO95	САН	1
PVOC + Naphthalene	15000		2100	,,,,,	100	5.1	311370		
Benzene	1500	ug/l	39	130	100	3/14/01	GRO95	CAH	1
Ethylbenzene	1700	ug/l	40	130	100		GRO95	САН	1
MTBE	< 47	ug/l	47	160	100		GRO95	САН	1
Naphthalene	340	ug/l	53	180	100		GRO95	САН	1
Toluene	16000	ug/l	37	120	100		GRO95	САН	1
1,2,4-Trimethylbenzene	1900	ug/l	40	130	100		GRO95	CAH	1
1,3,5-Trimethylbenzene	600	ug/l	63	210	100		GRO95	САН	1
Xylene's	10000	ug/l	140	480	100	3/14/01	GRO95	САН	1
Lab Code 5032522F						Sample Type	Water		
Sample ID MW-1						Sample Date	3/9/01		
Inorganic	71112								٠.
General									
Alkalinity as CaCO3	170	mg/l	1.5	5	1	3/22/01	310.1	JDB	1
Nitrogen (Nitrate-Nitrite)	2.7	mg/l	0.02	0.07	10	3/15/01	300.0	TJW	1
Sulfate	20	mg/l	0.24	0.79	10	3/15/01	300.0	TJW	1
Metals		_							
Iron	< 0.139	mg/l	0.139	0.46	1	3/13/01	6010B	JLA	1
Manganese	0.30	mg/l	0.017	0.057	l	3/13/01	6010B	JLA	i
Organic		<del>-</del>							
General									
Gasoline Range Organics	< 100	ug/l	24	76	1	3/14/01	GRO95	САН	1
PVOC + Naphthalene			2.5	. 0	•	2			
•	dv Ave. Kimberly. V						1-800-490-49		

JOHN ZAJAKOWSKI ENVIROGEN INC 850 HWY 153 STE F MOSINEE WI 54455

Project #

980273/050

Project Name

SEMANKO PROPERTY

Invoice #

E32522

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code	5032522F						Sample Type			
Sample ID	MW-1						Sample Date	3/9/01		
Benzene		< 0.39	ug/l	0.39	1.3	1	3/14/01	GRO95	САН	1
Ethylben	zene	1.5	ug/l	0.4	1.3	1	3/14/01	GRO95	CAH	1
MTBE		< 0.47	ug/l	0.47	1.6	1	3/14/01	GRO95	CAH	1
Naphthal	lene	1.5 "J"	ug/l	0.53	1.8	1	3/14/01	GRO95	CAH	1
Toluene		2.4	ug/l	0.37	1.2	1	3/14/01	GRO95	CAH	1
1,2,4-Tri	methylbenzene	8.2	ug/l	0.4	1.3	1	3/14/01	GRO95	CAH	1
1,3,5-Tri	methylbenzene	2.9	ug/l	0.63	2.1	1	3/14/01	GRO95	CAH	1
Xylene's		12	ug/l	1.4	4.8	1	3/14/01	GRO95	САН	l
Lab Code	5032522G						Sample Type	Water	V-100	
Sample ID	MW-11						Sample Type Sample Date	3/9/01		
Organic					7000000					
GRO/PVOC										
Gasoline	Range Organics	53000	ug/l	2400	7600	100	3/14/01	GRO95	CAH	1
Benzene		1400	ug/l	39	130	100	3/14/01	GRO95	CAH	1
Ethylben	zene	1900	ug/l	40	130	100	3/14/01	GRO95	CAH	1
MTBE		< 47	ug/l	47	160	100	3/14/01	GRO95	CAH	1
Toluene		16000	ug/l	37	120	100	3/14/01	GRO95	CAH	1
1,2,4-Tri	imethylbenzene	2300	ug/l	40	130	100	3/14/01	GRO95	CAH	1
1,3,5-Tri	imethylbenzene	730	ug/l	63	210	100	3/14/01	GRO95	CAH	1
Xylene's		12000	ug/l	140	480	100	3/14/01	GRO95	CAH	1
Lab Code	5032522H						Sample Type	Water		
Sample ID	FIELD						Sample Date	3/9/01		
Organic										*.
PVOC										
Benzene		< 0.39	ug/l	0.39	1.3	1	3/13/01	GRO95	САН	1
Ethylber	ızene	< 0.4	ug/l	0.4	1.3	1	3/13/01	GRO95	CAH	1
MTBE		< 0.47	ug/l	0.47	1.6	1	3/13/01	GRO95	САН	1
Toluene		< 0.37	ug/l	0.37	1.2	1	3/13/01	GRO95	CAH	1
1,2,4-Tri	imethylbenzene	< 0.4	ug/l	0.4	1.3	1	3/13/01	GRO95	САН	1
1,3,5-Tri	imethylbenzene	< 0.63	ug/l	0.63	2.1	1	3/13/01	GRO95	САН	1
Xylene's		< 1.4	ug/l	1.4	4.8	1	3/13/01	GRO95	CAH	1

JOHN ZAJAKOWSKI ENVIROGEN INC 850 HWY 153 STE F MOSINEE WI 54455

Project #

980273/050

Project Name

SEMANKO PROPERTY

Invoice #

E32522

#### Report Date 26-Mar-01

	Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Lab Code Sample ID	5032522I TRIP						Sample Type Sample Date			
Organic										
PVOC										
Benzer	ne	< 0.39	ug/l	0.39	1.3	1	3/13/01	GRO95	CAH	l
Ethylb	enzene	< 0.4	ug/i	0.4	1.3	1	3/13/01	GRO95	CAH	1
MTBE		< 0.47	ug/l	0.47	1.6	1	3/13/01	GRO95	CAH	1
Toluen	e	< 0.37	ug/l	0.37	1.2	1	3/13/01	GRO95	CAH	1
1,2,4-7	rimethylbenzene	< 0.4	ug/l	0.4	1.3	1	3/13/01	GRO95	CAH	1
. 1,3,5-7	rimethylbenzene	< 0.63	ug/l	0.63	2.1	1	3/13/01	GRO95	CAH	1
Xylene	's	< 1.4	ug/l	1.4	4.8	1	3/13/01	GRO95	CAH	1

LOD Limit of Detection

"J" Flag: Analyte detected between LOD and LOQ

LOQ Limit of Quantitation

Code Comment

1 All laboratory QC requirements were met for this sample.

46 Chromatogram indicates contamination outside of the specified window.

**Authorized Signature** 

Lab I.D. #



# Ar lytical Lab

Chain # No 23631

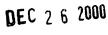
Rev. Date: 12-17-98

109u Kennedy Ave. • Kimberly, WI 54136 (920) 735-8295 • FAX 920-739-1738 • 800-490-4902

Chain # [Q.,... Z J J

Account No.:			SOIL.COM					age		<u></u>					
Project #: 9802	73 /050			Sample Integri	ty - To be co	mpleted by receiving lab.	emn F	Slank	4	°C On	· lce:				
Sampler: (signature)	Krista J	inne	ssen	Becky Co Sapler seal into	act upon rec	propleted by receiving lab.  Temp. of Teipt:  Yes No	L	abco	ded By	;					
										Ana	lysis R	eques	ted		
Reports To:	a ubanska	,	Inv <del>oice T</del>	o. Same		Sample Handling							Other	Analysi	s
Reports To	107/6 /10	,	Compan	У		Request									
Address 850	4,00 i<39	Sitt.	Address			Rush Analysis				0 703	1		در ر	13	
City State Zip	1415	36466	City State	e Zip		Date Required	PH)	PH)	8021	260)	413.1)		33,	2 2	
Phone	snu, wi	<u> </u>	Phone			X Normal Turn Around	DRO (Mod/TPH)	GRO (Mod/TPH) PVOC (FPA 8021	BTEX (EPA 8021) VOC (EPA 8021)	VOC (EPA 8260)	O&G (EPA 413. PAH (EPA 8310	oint	3 3 2	<del>}</del>	
Lab I.D.	Sample I.D.	Colle	ection	No. of Containers	Descripti	on* Preservation	-  <u>₹</u>	0000	C (E		O&G (EPA PAH (EPA	Pb Flash Point	\$77	PI	
		Date	Time	Size and Type				GR	E N		P & P	6 E =	\$ ₹ ₹	FI	D
503050DA	MW-10	3/9/01	900	4-40 ml	GW	HU		XX				;	4		
B	MW-4	ļ. 	915	1.350.17			_								
<u>C</u>	MW-3		930	1-250 NT 4-40m 1-250 H250+ 1-500	H <sub>1</sub> V0 <sub>3</sub>	HC1, H2504, HNO3				<u> </u>			XX	X	
<u> </u>	MW-2		945	4-40 m		Ha									
e	MW-5		1000	4-40M 1-250H2504 1-500 H	Jez	HU, H.SOL, HNO3							XX	.X	
	MW-1		1015	4				▼   4	-				XX	X	
	MW-11		1030	3-10m		HCI									
	Filld Blank		1045	2-40 mc				<b>*</b>							
7	Thip Blank	X	X	4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4		4	<u>.                                    </u>						
Dep Split Samples: Of Acc	partment Use ( Ifered ? Y Depted? Y	Only es es		- Do not Sample A	GW", Drink	ing Water "DW", Waste Wat Field Blank For GRO	, bi	ut [	<u>&gt;0</u>	i", Air San	"A", etc ple M	:. พ.11	for G	lo.	
<u> </u>	A .:					moderate petroleu									
Department U  Disposition of unus				Relinquished By: (sign)			eived	Ву: (	sign )			7	Γime	Date	
Lab Should:	sea portion or s	анрю		Krista Jennes	SCAI	1713 29/01									
Dispose	Reta	in for	days		<u></u>	$\overline{}$									
Return	Othe	er		Received in Laboratory	BART	1/12		Time	://	·()	$\overline{\gamma}$	— — Da	atę: Z	112/C	57

Oak Creek, Wisconsin 53154





Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

December 22, 2000

John Zajakowski Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

RE: 980273

Dear John Zajakowski

Enclosed are the results of analyses for sample(s) received by the laboratory on December 12, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: 980273 Sampled: 12/8/00 850 Hwy 153, Suite F Project Number: 980273 Received: 12/12/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	W012054-01	Water	12/8/00
MW-2	W012054-02	Water	12/8/00
MW-3	W012054-03	Water	12/8/00
MW-4	W012054-04	Water	12/8/00
MW-5	W012054-05	Water	12/8/00
MW-10	W012054-06	Water	12/8/00
MW-11	W012054-07	Water	12/8/00
Field Blank	W012054-08	Water	12/8/00
Trip Blank	W012054-09	Water	12/8/00

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

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Envirogen - MosineeProject:980273Sampled:12/8/00850 Hwy 153, Suite FProject Number:980273Received:12/12/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:12/22/00 14:07

#### Gasoline Range Organics (GRO) by WDNR GRO Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
MW-1 Gasoline Range Organics (GRO)	0120036	12/14/00	<u><b>W0120</b></u> 12/14/00	<b>54-01</b> WDNR GRO	50.0	ND	Water ug/l	
MW-2 Gasoline Range Organics (GRO)	0120036	12/14/00	<b>W0120</b> 12/14/00	<b>54-02</b> WDNR GRO	50.0	882	Water ug/l	T1,T4
MW-3 Gasoline Range Organics (GRO)	0120036	12/14/00	<u><b>W0120</b></u> 12/14/00	<b>54-03</b> WDNR GRO	50.0	ND	Water ug/l	
MW-4 Gasoline Range Organics (GRO)	0120036	12/14/00	<b>W0120</b> 12/18/00	<b>54-04</b> WDNR GRO	50.0	994	Water ug/l	T15,T2,T4
MW-5 Gasoline Range Organics (GRO)	0120036	12/14/00	<b>W0120</b> 12/16/00	<b>54-05</b> WDNR GRO	12500	61400	Water ug/l	<u>G12</u> T1,T4
MW-10 Gasoline Range Organics (GRO)	0120036	12/14/00	<b>W0120</b> 12/14/00	<b>54-06</b> WDNR GRO	50.0	398	Water ug/l	T1,T4
MW-11 Gasoline Range Organics (GRO)	0120036	12/14/00	<b>W0120</b> 12/16/00	<b>54-07</b> WDNR GRO	50.0	ND	Water ug/l	
Field Blank Gasoline Range Organics (GRO)	0120036	12/14/00	<u><b>W0120</b></u> 12/14/00	<b>54-08</b> WDNR GRO	50.0	ND	Water ug/l	
Trip Blank Gasoline Range Organics (GRO)	0120036	12/14/00	<b>W0120</b> 12/14/00	<b>54-09</b> WDNR GRO	50.0	ND	Water ug/l	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

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Envirogen - Mosinee Project: 980273 Sampled: 12/8/00 850 Hwy 153, Suite F Project Number: 980273 Received: 12/12/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-1			W0120	54-01			Water	
Benzene	0120036	12/14/00	12/14/00		0.500	ND	ug/l	
Ethylbenzene	#	н	U		5.00	ND	If	
Methyl tert-butyl ether	11	H	If		0.500	ND	11	
Naphthalene	II.	II .	11		8.00	ND	If	
Toluene	11	11	II.		5.00	ND	Ħ	
1,2,4-Trimethylbenzene	II.	· ·	**		5.00	ND	O.	
1,3,5-Trimethylbenzene	tt	11	o o		5.00	ND	н	
Total Xylenes	u u	II .	**		5.00	7.31	0	
Surrogate: 4-BFB	"	11	"	80.0-120		101	%	***************************************
MW-2			<u>W0120</u>	54-02			Water	
Benzene	0120036	12/14/00	12/14/00	* <u>. × =</u>	0.500	162	ug/l	
Ethylbenzene	"	112/11/00	12/11/00		5.00	28.7	u u	
Methyl tert-butyl ether	n	H	u .		0.500	ND	If	
Naphthalene	II.	11	H		8.00	11.2	11	
Toluene	Ħ	u .	12/16/00		50.0	228	U	G12
1,2,4-Trimethylbenzene	tt.	11	12/14/00		5.00	25.8	11	GIZ
1,3,5-Trimethylbenzene	11	ti	12/14/00		5.00	8.12	U	
Total Xylenes	Ħ	II.	11		5.00	173	н	
Surrogate: 4-BFB	"	"	"	80.0-120	3.00	91.0	<del></del>	
3								
MW-3			W0120	54-03			Water	
Benzene	0120036	12/14/00	12/14/00		0.500	ND	ug/l	
Ethylbenzene	ti .	U	11		5.00	ND	11	
Methyl tert-butyl ether	ti .	II	U		0.500	ND	II .	
Naphthalene	It	11	н		8.00	ND	15	
Toluene	**	U	11		5.00	ND	II .	
1,2,4-Trimethylbenzene	u.	**	II.		5.00	ND	tt.	
1,3,5-Trimethylbenzene	Iŧ	£1	Ħ		5.00	ND	н	
Total Xylenes	, n	U	tt		5.00	ND	ti .	
Surrogate: 4-BFB	"	и	и	80.0-120		104	%	
MW-4			W0120	54-04			Water	
Benzene	0120036	12/14/00	12/18/00	בעבעב	0.500	13.8	ug/l	
Ethylbenzene	0120036	12/14/00	12/18/00		5.00	13.8 ND	ug/i	
Methyl tert-butyl ether	u .	If.	11		0.500	2.01	**	
Naphthalene		11	"		8.00	2.01 27.4	11	
•	11	" U	"				n .	
Toluene	41	••			5.00	ND	**	

Great Lakes Analytical--Oak Creek

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850 Hwy 153, Suite F Project Number: 980273 Received: 12/12/00
Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-4 (continued)			W0120	<u>54-04</u>			Water	
1,2,4-Trimethylbenzene	0120036	12/14/00	12/18/00		5.00	ND	ug/l	
1,3,5-Trimethylbenzene	ti .	Ħ	Iŧ		5.00	ND	Ħ	
Total Xylenes	0	0	11		5.00	ND	U .	
Surrogate: 4-BFB	"	"	"	80.0-120		94.5	%	
MW-5			W0120	54-05			Water	<u>G12</u>
Benzene	0120036	12/14/00	12/16/00		125	2790	ug/l	
Ethylbenzene	Ħ	u	n .		1250	3100	**	
Methyl tert-butyl ether	II .	11	If		125	213	ti .	
Naphthalene	II	II.	н		2000	ND	tt .	
Toluene	Ħ	II.	u .		1250	26300	tt	
1,2,4-Trimethylbenzene	u	11	H		1250	2960	If	
1,3,5-Trimethylbenzene	n .	0	11		1250	ND	tt.	
Total Xylenes	#	н	11		1250	17900	H	
Surrogate: 4-BFB	"	"	"	80.0-120		100	%	Addition of the second
MW-11			W0120	<u> 54-07</u>			Water	
Benzene	0120036	12/14/00	12/16/00		0.500	ND	ug/l	
Ethylbenzene	11	11	11		5.00	ND	u i	
Methyl tert-butyl ether	O .	н	It		0.500	ND	H	
Toluene	II.	11	11		5.00	ND	**	
1,2,4-Trimethylbenzene	11	U	н		5.00	ND	41	
1,3,5-Trimethylbenzene	II .	15	п		5.00	ND	ш	
Total Xylenes	II .	tt	U		5.00	7.16	H	
Surrogate: 4-BFB	11	11	и	80.0-120		95.0	%	
Field Blank			W0120	054-08			Water	
Benzene	0120036	12/14/00	12/14/00		0.500	ND	ug/l	
Ethylbenzene	II.	11	o o		5.00	ND	It	
Methyl tert-butyl ether	H	11	er .		0.500	ND	†1	
Toluene	#	U	II		5.00	ND	n .	
1,2,4-Trimethylbenzene	Ħ	H.	H		5.00	ND	R	
1,3,5-Trimethylbenzene	II .	II	11		5.00	ND	"	
Total Xylenes	If	11	II .		5.00	ND	#1	
Surrogate: 4-BFB	"	"	"	80.0-120		98.5	%	
Trip Blank			W0120	054-09			Water	
Benzene	0120036	12/14/00	12/14/00		0.500	ND	ug/l	

Great Lakes Analytical--Oak Creek

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Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Trip Blank (continued)			W0120	<u>54-09</u>			Water	
Ethylbenzene	0120036	12/14/00	12/14/00		5.00	ND	ug/l	
Methyl tert-butyl ether	11	п	H		0.500	ND	11	
Toluene	**	u	n .		5.00	ND	n .	
1,2,4-Trimethylbenzene	u	H	II .		5.00	ND	n	
1,3,5-Trimethylbenzene	н	н	Ħ		5.00	ND	11	
Total Xylenes	tt	ŧı	11		5.00	ND	н	
Surrogate: 4-BFB	"	"	"	80.0-120		98.0	%	

Great Lakes Analytical--Oak Creek

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Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-10		4044-105	W0120	54-06	0.500	#O @	Water	G1,G15
Benzene	0120039	12/15/00	12/17/00		0.500	59.2	ug/l "	
Bromobenzene	tt	11	12/19/00		5.00	ND		
Bromodichloromethane	**	11	ii.		0.500	ND	**	
n-Butylbenzene	н	II .	u		5.00	ND	11	
sec-Butylbenzene	11	U	O		5.00	ND	ti .	
tert-Butylbenzene	H	17	11		5.00	ND	n.	
Carbon tetrachloride	It	11	н		0.500	ND	14	
Chlorobenzene	Ħ	11	11		5.00	ND	tt	
Chloroethane	"	11	II.		5.00	ND	п	
Chloroform	ti .	"	(1		0.140	ND	11	
Chloromethane	u u	11	U		0.600	ND	11	
2-Chlorotoluene	0	u	U.		5.00	ND	Ħ	
4-Chlorotoluene	IF	If	II.		5.00	ND	11	
Dibromochloromethane	H	н	If		5.00	ND	11	
1,2-Dibromo-3-chloropropane	tf.	Ħ	11		0.390	ND	O .	
1,2-Dibromoethane	ti	Ħ	н .		0.380	ND	II .	
1,2-Dichlorobenzene	n .	ш	н		5.00	ND	u	
1,3-Dichlorobenzene	u	u	п		5.00	ND	II .	
1,4-Dichlorobenzene	u .	0	n .		5.00	ND	11	
Dichlorodifluoromethane	n	U	u		5.00	ND	Ħ	
1,1-Dichloroethane	и	er e	n .		5.00	ND	"	
1,2-Dichloroethane	II .	It	II.		0.500	ND	##	
1,1-Dichloroethene	11	tt	II.		0.500	ND	**	
cis-1,2-Dichloroethene	11	11	п		5.00	ND	ŧŧ	
trans-1,2-Dichloroethene	11	**	п		5.00	ND	36	
1,2-Dichloropropane	11	Ħ	11		0.500	ND	11	
1,3-Dichloropropane	н	*1	н		5.00	ND	11	
2,2-Dichloropropane	11	*1	11		5.00	ND	11	
Di-isopropyl ether	11	11	**		5.00	8.21	n	
Ethylbenzene	u u		11		5.00	ND	н	
Hexachlorobutadiene	u	11	11		10.0	ND	н	
Isopropylbenzene	u	O.	11		5.00	ND	#	
p-Isopropyltoluene	u.	11	11		5.00	ND ND	11	
		"	**		0.530	ND ND	tt.	
Methylene chloride			11		0.500	ND ND	11	
Methyl tert-butyl ether		···					11	
Naphthalene		"	"		8.00	16.8	11	
n-Propylbenzene	"	0	"		5.00	5.49		
1,1,2,2-Tetrachloroethane	**	"	**		0.350	ND	**	

Great Lakes Analytical--Oak Creek

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850 Hwy 153, Suite F Project Number: 980273 Received: 12/12/00
Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW-10 (continued)			W0120	54-06			Water	G1,G15
Tetrachloroethene	0120039	12/15/00	12/19/00		0.500	ND	ug/l	
Toluene	U	u	#		5.00	ND	u	
1,2,3-Trichlorobenzene	H	11	11		10.0	ND	Q.	
1,2,4-Trichlorobenzene	11	H	11		10.0	ND	II.	
1,1,1-Trichloroethane	II	н	O		5.00	ND	11	
1,1,2-Trichloroethane	11	11	II		0.160	ND	*1	
Trichloroethene	H	u	11		0.500	ND	n.	
Trichlorofluoromethane	11	If	ti		5.00	ND	II .	
1,2,4-Trimethylbenzene	II .	#1	II .		5.00	ND	н	
1,3,5-Trimethylbenzene	п	11	H.		5.00	ND	н	
Vinyl chloride	tt	a a	11		0.170	ND	51	
Total Xylenes	11	H	**		5.00	22.1	ti .	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	80.0-120		106	%	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	80.0-120		97.0	"	

Great Lakes Analytical--Oak Creek

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Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

Project: 980273 Project Number: 980273

Project Manager: John Zajakowski

Received: 12/12/00

Sampled: 12/8/00

Reported: 12/22/00 14:07

## Dissolved Metals by EPA 6000/7000 Series Methods **Great Lakes Analytical**

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
MW-1			W0120	54-01			Water	2
Iron	0120189	12/14/00	12/14/00	EPA 6010B	0.100	ND	mg/l	
Manganese	u .	U	If	EPA 6010B	0.0500	0.378	If	
MW-3 Iron Manganese	0120189	12/14/00	<u><b>W0120</b></u> 12/14/00	<b>54-03</b> EPA 6010B EPA 6010B	0.100 0.0500	ND ND	Water mg/l	2
<u>MW-5</u> Iron Manganese	0120189	12/14/00	<b><u>W</u>0120</b> 12/14/00 "	54-05 EPA 6010B EPA 6010B	0.100 0.0500	5.42 3.15	Water mg/l	2

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



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Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455 Project: 980273 Project Number: 980273

Project Manager: John Zajakowski

Sampled: 12/8/00 Received: 12/12/00

Reported: 12/22/00 14:07

#### General Chemistry Great Lakes Analytical

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
MW-1			W0120	54-01			Water	2
Alkalinity as CaCO3	0120320	12/21/00	12/21/00	EPA 310.1	10.0	192	mg/l	~
Nitrate/Nitrite-Nitrogen	0120184	12/14/00	12/14/00	EPA 353.2	0.0500	2.28	"	
Sulfate as SO4	0120198	10/15/00	12/18/00	EPA 375.2	10.0	35.4	п	
MW-3			W0120	<u>54-03</u>			Water	2
Alkalinity as CaCO3	0120320	12/21/00	12/21/00	EPA 310.1	10.0	44.0	mg/l	
Nitrate/Nitrite-Nitrogen	0120184	12/14/00	12/14/00	EPA 353.2	0.100	2.67	"	G12
Sulfate as SO4	0120198	10/15/00	12/18/00	EPA 375.2	10.0	35.4	n	
MW-5			W0120	<u>54-05</u>			Water	2
Alkalinity as CaCO3	0120320	12/21/00	12/21/00	EPA 310.1	10.0	98.0	mg/l	
Nitrate/Nitrite-Nitrogen	0120184	12/14/00	12/14/00	EPA 353.2	0.0500	ND	"	
Sulfate as SO4	0120198	10/15/00	12/18/00	EPA 375.2	50.0	165	0	G12

Great Lakes Analytical--Oak Creek

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Envirogen - Mosinee Project: 980273 Sampled: 12/8/00 850 Hwy 153, Suite F Project Number: 980273 Received: 12/12/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 12/22/00 14:07

#### Gasoline Range Organics (GRO) by WDNR GRO/Quality Control Great Lakes Analytical--Oak Creek

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0120036 Blank	Date Prepare 0120036-BLK		00		Extrac	ction Method: EPA	A 5030B (	(P/T)		
Gasoline Range Organics (GRO)	12/15/00			ND	ug/l	50.0				
LCS Gasoline Range Organics (GRO)	0120036-BS1 12/15/00	200		192	ug/l	80.0-120	96.0			
Matrix Spike Gasoline Range Organics (GRO)	0120036-MS1 12/15/00	200	012054-03 ND	181	ug/l	72.9-129	90.5			
Matrix Spike Dup Gasoline Range Organics (GRO)	0120036-MSI 12/15/00	200 W	012054-03 ND	186	ug/l	72.9-129	93.0	23.3	2.72	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Andrea Stathas, Project Manager

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Envirogen - MosineeProject:980273Sampled:12/8/00850 Hwy 153, Suite FProject Number:980273Received:12/12/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:12/22/00 14:07

# Petroleum Volatile Organic Compounds (PVOC) by Method 8021B/Quality Control Great Lakes Analytical--Oak Creek

	Date	Spike	Sample	QC		Reporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Batch: 0120036	Date Prepar	ed: 12/14/	00		Extrac	ction Method: EPA	(P/T)			
Blank	0120036-BL	K1								
Benzene	12/15/00			ND	ug/l	0.500				
Ethylbenzene	П			ND	11	5.00				
Methyl tert-butyl ether	If			ND	11	0.500				
Naphthalene	11			ND	#1	8.00				
Toluene	11			ND	"	5.00				
1,2,4-Trimethylbenzene	п			ND	11	5.00				
1,3,5-Trimethylbenzene	П			ND	11	5.00				
Total Xylenes	II .			ND	11	5.00				
Surrogate: 4-BFB	"	20.0		17.8	"	80.0-120	89.0			
LCS	0120036-BS	1								
Benzene	12/15/00	20.0		20.0	ug/l	85.0-115	100			
Ethylbenzene	II .	20.0		19.8	II.	85.0-115	99.0			
Methyl tert-butyl ether	II.	20.0		20.9	11	85.0-115	104			
Naphthalene	H	20.0		22.9	**	85.0-115	114			
Toluene	11	20.0		20.7	11	85.0-115	104			
1,2,4-Trimethylbenzene	11	20.0		19.8	11	85.0-115	99.0			
1,3,5-Trimethylbenzene	11	20.0		20.1	u	85.0-115	101			
Total Xylenes	II .	60.0		60.6	II .	85.0-115	101			
Surrogate: 4-BFB	"	20.0		19.1	"	80.0-120	95.5			-

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Andrea Stathas, Project Manager

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Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

Project: 980273

Received: 12/12/00

Sampled: 12/8/00

Project Number: 980273

Project Manager: John Zajakowski

Reported: 12/22/00 14:07

#### **Notes and Definitions**

#	Note
Gl	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
T1	Gas Pattern
T15	Late Elevated Baseline
T2	Late Peaks
T4	Gas Range
1	The method blank associated with this sample contains 10.9 mg/l of this analyte.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference
2	This sample was analyzed by Great Lakes Analytical in Buffalo Grove, Illinois, WDNR certification # 999917160.

Great Lakes Analytical--Oak Creek

Andrea Stathas, Project Manager

Page 21 of 21



# CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

		/											_							
Client: Fnyicozn, Inc.		K	Bill To:	SAV	V95				****				(G)	TAT: 5 DA	AY 4 E	DAY	3 DA	Y 2 D	AY 1 DA	AY < 24 HRS.
Address: 850 Hwing 153, 5te	F		Address											DATE RES	ULTS NE	EEDE	D:			
Mosinee WI 54455														TEMPERAT	TURE UP	PON F	RECEIP	PT:	icé	
Musinee, W= 54455  Report to: Phone #: ( Fax #: (	) )		State & Progran	WI 7: Pecf	4		Pł Fa	none ix #:	#: ( (		) )			AIR BILL I	NO					
Project: Semanko Property -980	273/					8/	\[\frac{\sigma_{\sigma_{\color}}}{\sigma_{\color}}			T			1			//		AMPLE	. /	
Sampler: Kristin Tennessen	,	_ /	_ /		Ŕ,	AME!	N. Y.	//	/. 1/	A A	4		/ L	\d\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			/ 00	ONTRO	<u>L</u> /	
PO/Quote #:	# 15 E	24 July 100 100 100 100 100 100 100 100 100 10	Sample Agenta	PESHIMI	. /	ONTHERS OF THE SE	\$ /					3			//	/ /\$	10 x 10 x 10 x 10 x 10 x 10 x 10 x 10 x	\$ (2.5)	7	BORATORY
FIELD ID, LOCATION	33	/ Kingu	St. Mar.	/ E	/{	S. Y.	<u> </u>	7	/	I	7 >		7 5	7 7 /		\8\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8/8/3	*/8** <u>*</u>	ID	NUMBER
1 mw-1	12/48/20	0915	H2U	HC1,HN0, H2504	37	40 ml 500 ml	·χ	X		λ	入		X					u	10120	54-01
2 mw-2	-	0845	(	HUI	4	Homl	1				Transfer de la constitución de l									-02
3 MW-3		0430		HUIJHNUS HZSO4	17	40ml scinl				1	Х	入								-03
4 mw-4		0812		HCl	4	40ml														-09
5 MW-5		0900		HC1,HN03 H2504		40ml 500ml		J		Λ	X	X			100					-05
6 MW-10		0400		HCI	4	1			X											-0k
7 MW-11	<del>                                     </del>	0930			3			义												-07
8 Fild Blank		0930			2			X					44.0		4					-08
9 Try Blank	1	1000	$\downarrow$	1	2		1	X												-09
10		/\										and an arrangement of			9 9 1 1 1 1 1 1					
RELINOUISHED 12/4/00 12/4/00 15/46	RECEIVED	176	_	> 12-12-t	<u>~</u>	RELIN	L QUISHI	<u> </u>			<u> </u>			REC	EIVED					
	RECEIVED					RELIN	QUISH	ED .						REC	EIVED					
COMMENTS:																				. T
								, ***, ***, *****								7.	^-	1		



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

September 14, 2000

John Zajakowski Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

RE: 980273

Dear John Zajakowski

Enclosed are the results of analyses for sample(s) received by the laboratory on August 31, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: 980273 Sampled: 8/29/00 850 Hwy 153, Suite F Project Number: 980273 Received: 8/31/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 9/14/00 13:15

#### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	W008194-01	Water	8/29/00
MW-2	W008194-02	Water	8/29/00
MW-3	W008194-03	Water	8/29/00
MW-4	W008194-04	Water	8/29/00
MW-5	W008194-05	Water	8/29/00
Decon	W008194-06	Water	8/29/00
Trip Blank	W008194-07	Water	8/29/00
MW-50	W008194-08	Water	8/29/00

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

This analytical report must be reproduced in its entirety.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: 980273 Sampled: 8/29/00 850 Hwy 153, Suite F Project Number: 980273 Received: 8/31/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 9/14/00 13:15

#### Gasoline Range Organics (GRO) by WDNR GRO Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
<u>MW-1</u>			W00819	<u>94-01</u>			Water	
Gasoline Range Organics (GRO)	0090016	9/6/00	9/8/00	WDNR GRO	50.0	ND	ug/l	
<u>MW-2</u>			W00819	94-02			<u>Water</u>	
Gasoline Range Organics (GRO)	0090016	9/6/00	9/8/00	WDNR GRO	50.0	530	ug/l	T13,T4
<u>MW-3</u>			W00819	94-03			Water	
Gasoline Range Organics (GRO)	0090016	9/6/00	9/8/00	WDNR GRO	50.0	ND	ug/l	
MW-4			W00819	94-0 <u>4</u>			<u>Water</u>	
Gasoline Range Organics (GRO)	0090016	9/6/00	9/8/00	WDNR GRO	50.0	342	ug/l	T7
<u>MW-5</u>			W00819	94-05			<u>Water</u>	G12
Gasoline Range Organics (GRO)	0090016	9/6/00	9/8/00	WDNR GRO	5000	82200	ug/l	T14,T4
<u>Decon</u>			W00819	94-06			Water	
Gasoline Range Organics (GRO)	0090016	9/6/00	9/7/00	WDNR GRO	50.0	ND	ug/l	
Trip Blank			W00819	94-07			<u>Water</u>	
Gasoline Range Organics (GRO)	0090016	9/6/00	9/7/00	WDNR GRO	50.0	ND	ug/l	
MW-50			W0081	94-08			Water	G12
Gasoline Range Organics (GRO)	0090016	9/6/00	9/8/00	WDNR GRO	2500	72100	ug/l	T14,T4

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Andrea Stathas, Project Manager

Page 2 of 13

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:980273Sampled:8/29/00850 Hwy 153, Suite FProject Number:980273Received:8/31/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:9/14/00 13:15

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

Mary   Mary		Batch	Date	Date	Surrogate	Reporting			
MW-1         Water           Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/1           Ethylbenzene         " " " " " 5.00         ND         " " " " " " " " " " " " " " " " " " "	Analyte	Number					Result	Units	Notes*
Renzence			·····						······································
Ethylbenzene	<u>MW-1</u>				<u>94-01</u>				
Methyl tert-butyl ether         """"""""""""""""""""""""""""""""""""	Benzene	0090016	9/6/00	9/8/00		0.500	ND	ug/l	
Naphthalene         """" """ """ """ """ """ """" """" ""	Ethylbenzene	11	11	**		5.00	ND	11	
Toluene	Methyl tert-butyl ether	ti .	ч	и		0.500	ND	tr	
1,2,4-Trimethylbenzene	Naphthalene	и	O	11		8.00	ND	11	
1,3,5-Trimethylbenzene	Toluene	н	11	**		5.00	ND	II .	
Total Xylenes	1,2,4-Trimethylbenzene	H	п	n		5.00	ND	11	
MW-2         W008194-02         Water           Benzene         0090016         9/6/00         9/8/00         0.500         161         ug/l           Ethylbenzene         " " " " 5.00         9.83         " " " 10.500         3.55         " " 10.500         3.55         " 10.500         3.55         " 10.500         3.55         " 10.500         3.55         " 10.500         3.55         " 10.500         3.55         " 10.500         3.50         " 10.500         3.55         " 10.500         ND <td>1,3,5-Trimethylbenzene</td> <td>11</td> <td>11</td> <td>II .</td> <td></td> <td>5.00</td> <td>ND</td> <td>11</td> <td></td>	1,3,5-Trimethylbenzene	11	11	II .		5.00	ND	11	
MW-2         Water           Benzene         0090016         9/6/00         9/8/00         0.500         161         ug/l           Ethylbenzene         "         "         "         5.00         9.83         "           Methyl tert-butyl ether         "         "         "         0.500         3.55         "           Naphthalene         "         "         "         5.00         77.8         "           Toluene         "         "         "         5.00         77.8         "           1,2,4-Trimethylbenzene         "         "         "         5.00         5.71         "           1,3,5-Trimethylbenzene         "         "         "         5.00         5.71         "           Total Xylenes         "         "         "         80.0120         94.5         %           MW-3         "         "         "         80.0120         94.5         %           Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/l           Ethylbenzene         "         "         "         5.00         ND         "           Benzene         0090016	Total Xylenes	"	*1	ır		5.00	ND	tt	
Benzene         0090016         9/6/00         9/8/00         0.500         161         ug/I           Ethylbenzene         """"""""""""""""""""""""""""""""""""	Surrogate: 4-BFB	"	11	"	80.0-120		96.5	%	
Benzene         0090016         9/6/00         9/8/00         0.500         161         ug/I           Ethylbenzene         """"""""""""""""""""""""""""""""""""	MIN 2			**************************************	04.02			<b>XX</b> 74	
Ethylbenzene         " " " " " " " " " " " " " " " " " " "		0000016	016100		94-UZ	0.700	1/1		
Methyl tert-butyl ether " " " " 0.500 3.55 " Naphthalene " " " " 5.00 77.8 " 1,2,4-Trimethylbenzene " " " " 5.00 5.71 " Total Xylenes " " " 80.0-120 94.5 %    MW-3									
Naphthalene									
Toluene									
1,2,4-Trimethylbenzene	•								
Surrogate: 4-BFB									
Total Xylenes         " " 80.0-120         73.6         " Water           Surrogate: 4-BFB         " " 80.0-120         94.5         %           MW-3         Woosl94-03         Water           Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/l           Ethylbenzene         " " " " " 5.00         ND         "           Methyl tert-butyl ether         " " " " 80.0-120         ND         "           Naphthalene         " " " " " " 5.00         ND         "           Toluene         " " " " " " 5.00         ND         "           1,2,4-Trimethylbenzene         " " " " 5.00         ND         "           1,3,5-Trimethylbenzene         " " " " 80.0-120         92.5         %           Total Xylenes         " " " 80.0-120         92.5         %           MW-4         " " " 80.0-120         92.5         %           MW-4         " " " 80.0-120         92.5         %           Ethylbenzene         " " " " 80.0-120         95.0         9.57         "           Methyl tert-butyl ether         " " " " 5.00         9.57         "           Methyl tert-butyl ether         " " " " " 5.00         9.57         "      <	• •								
MW-3         W008194-03         Water           Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/l           Ethylbenzene         "         "         "         5.00         ND         "           Methyl tert-butyl ether         "         "         "         0.500         ND         "           Naphthalene         "         "         "         8.00         ND         "           Toluene         "         "         "         5.00         ND         "           1,2,4-Trimethylbenzene         "         "         "         5.00         ND         "           1,3,5-Trimethylbenzene         "         "         "         5.00         ND         "           Total Xylenes         "         "         "         80.0-120         92.5         %           MW-4         T         W008194-04         Yater         Yater           Benzene         0090016         9/6/00         9/8/00         0.500         8.64         ug/l           Ethylbenzene         "         "         "         5.00         9.57         "           Methyl tert-butyl ether         "	• •								
MW-3         Water           Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/l           Ethylbenzene         " " " " " 0.500         ND " "           Methyl tert-butyl ether         " " " " 0.500         ND " "           Naphthalene         " " " " " 5.000         ND " "           Toluene         " " " " " 5.00         ND " "           1,2,4-Trimethylbenzene         " " " " 5.00         ND " "           1,3,5-Trimethylbenzene         " " " " 80.0-120         ND "           Total Xylenes         " " " " 80.0-120         92.5         %           Surrogate: 4-BFB         " " " " 80.0-120         92.5         %           MW-4         " " " " 80.0-120         9.57         "           Methyl tert-butyl ether         " " " " " " 5.00         9.57         "           Methyl tert-butyl ether         " " " " " " 5.00         9.57         "           Naphthalene         " " " " " " " " " 5.00         9.50         2.60         "						5.00			
Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/l           Ethylbenzene         " " " " " 0.500         ND         "           Methyl tert-butyl ether         " " " " 0.500         ND         "           Naphthalene         " " " " " 5.00         ND         "           Toluene         " " " " " 5.00         ND         "           1,2,4-Trimethylbenzene         " " " " " 5.00         ND         "           1,3,5-Trimethylbenzene         " " " " 80.0-120         ND         "           Total Xylenes         " " " 80.0-120         92.5         %           MW-4         " " " 80.0-120         92.5         %           MW-4         " " " 80.0-120         92.5         %           Ethylbenzene         " " " " " 80.0-120         92.5         %           Methyl tert-butyl ether         " " " " " " " " 0.500         9.57         "           Methyl tert-butyl ether         " " " " " " " " 0.500         2.60         "           Naphthalene         " " " " " " " " " 8.00         14.0         "	Surrogate: 4-BFB	"	"	"	80.0-120		94.5	%	
Benzene         0090016         9/6/00         9/8/00         0.500         ND         ug/l           Ethylbenzene         " " " " " 0.500         ND         "           Methyl tert-butyl ether         " " " " 0.500         ND         "           Naphthalene         " " " " " 5.00         ND         "           Toluene         " " " " " 5.00         ND         "           1,2,4-Trimethylbenzene         " " " " " 5.00         ND         "           1,3,5-Trimethylbenzene         " " " " 80.0-120         ND         "           Total Xylenes         " " " 80.0-120         92.5         %           MW-4         " " " 80.0-120         92.5         %           MW-4         " " " 80.0-120         92.5         %           Ethylbenzene         " " " " " 80.0-120         92.5         %           Methyl tert-butyl ether         " " " " " " " " 0.500         9.57         "           Methyl tert-butyl ether         " " " " " " " " 0.500         2.60         "           Naphthalene         " " " " " " " " " 8.00         14.0         "	MW-3			W0081	94-03			Water	
Ethylbenzene         " " " " " " 0.500 ND "           Methyl tert-butyl ether         " " " " 0.500 ND "           Naphthalene         " " " " 5.00 ND "           Toluene         " " " " 5.00 ND "           1,2,4-Trimethylbenzene         " " " " 5.00 ND "           1,3,5-Trimethylbenzene         " " " " 80.0-120 ND "           Total Xylenes         " " " 80.0-120 92.5 %           Surrogate: 4-BFB         " " " 8008194-04 Y         Yater           Benzene         0090016 9/6/00 9/8/00 0.500 8.64 ug/l         8.64 ug/l           Ethylbenzene         " " " " " 5.00 9.57 "           Methyl tert-butyl ether         " " " " " 8.00 0.500 2.60 "           Naphthalene         " " " " " 8.00 14.0 "		0090016	9/6/00	-		0.500	ND		
Methyl tert-butyl ether       " " " " " " 8.00 ND "         Naphthalene       " " " " " 5.00 ND "         Toluene       " " " " " 5.00 ND "         1,2,4-Trimethylbenzene       " " " " 5.00 ND "         1,3,5-Trimethylbenzene       " " " " 80.0-120 ND "         Total Xylenes       " " " 80.0-120 92.5 %         MW-4        Water         Benzene       0090016 9/6/00 9/8/00 9/8/00 0.500 8.64 ug/l         Ethylbenzene       " " " " " 5.00 9.57 "         Methyl tert-butyl ether       " " " " " 0.500 2.60 "         Naphthalene       " " " " " " 1.00 ND ND ND ND ND ND ND ND ND ND ND ND ND								"	
Naphthalene       " " " " " " 5.00 ND " " 1,2,4-Trimethylbenzene       " " " " 5.00 ND " " 1,2,4-Trimethylbenzene       " " " " 5.00 ND " " 1,3,5-Trimethylbenzene       " " " " 5.00 ND " " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1	•	п	u	lt.				u	
Toluene " " " " 5.00 ND " 1,2,4-Trimethylbenzene " " " " 5.00 ND " 1,3,5-Trimethylbenzene " " " " 5.00 ND " Total Xylenes " " " 80.0-120 92.5 %  MW-4 Benzene 0090016 9/6/00 9/8/00 0.500 8.64 ug/l Ethylbenzene " " " 5.00 9.57 " Methyl tert-butyl ether " " " 0.500 2.60 " Naphthalene " " " 8.00 14.0 "	•	**	H	ii.				u .	
1,2,4-Trimethylbenzene       " " " " 5.00 ND "         1,3,5-Trimethylbenzene       " " " 5.00 ND "         Total Xylenes       " " " 80.0-120       92.5 %         MW-4       Water         Benzene       0090016       9/6/00       9/8/00       0.500       8.64 ug/l         Ethylbenzene       " " " " 5.00       9.57 "         Methyl tert-butyl ether       " " " " 8.00       14.0 "	•	ti	11	и				u	
1,3,5-Trimethylbenzene		ti .	11	п				n .	
Total Xylenes         "         "         "         "         "         92.5         %           MW-4         Water         Woods 194-04         Water           Benzene         0090016         9/6/00         9/8/00         0.500         8.64         ug/l           Ethylbenzene         "         "         "         5.00         9.57         "           Methyl tert-butyl ether         "         "         "         0.500         2.60         "           Naphthalene         "         "         "         8.00         14.0         "		it .	11	ш				п	
MW-4         W008194-04         Water           Benzene         0090016         9/6/00         9/8/00         0.500         8.64         ug/l           Ethylbenzene         " " " " " 5.00         9.57         " " Methyl tert-butyl ether         " " " " 8.00         14.0         " " " " " " 1.0		it	11	11				n	
MW-4         Woods194-04         Water           Benzene         0090016         9/6/00         9/8/00         0.500         8.64         ug/l           Ethylbenzene         "         "         "         5.00         9.57         "           Methyl tert-butyl ether         "         "         "         0.500         2.60         "           Naphthalene         "         "         "         8.00         14.0         "		"	"	"	80.0-120			% .	
Benzene         0090016         9/6/00         9/8/00         0.500         8.64         ug/l           Ethylbenzene         "         "         "         5.00         9.57         "           Methyl tert-butyl ether         "         "         "         0.500         2.60         "           Naphthalene         "         "         "         8.00         14.0         "	NAVY 4			*****	0.4.0.4				
Ethylbenzene       "       "       "       5.00       9.57       "         Methyl tert-butyl ether       "       "       "       0.500       2.60       "         Naphthalene       "       "       "       8.00       14.0       "		000001	044400		<u>94-04</u>	0 #00	0.44		
Methyl tert-butyl ether " " " 0.500 2.60 " Naphthalene " " " 8.00 14.0 "									
Naphthalene " " " 8.00 14.0 "	•								
Naphthalene 8.00 14.0									
Toluene " " 5.00 ND "	-								
	Toluene	ti	**	ŧŧ		5.00	ND	11	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



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Envirogen - Mosinee Project: 980273 Sampled: 8/29/00 850 Hwy 153, Suite F Project Number: 980273 Received: 8/31/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 9/14/00 13:15

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
MW 4 (continues)			¥¥10004	04.04			¥¥7-4	,
MW-4 (continued) 1,2,4-Trimethylbenzene	0000016	0.16.100	W00819	<u>94-04</u>	£ 00	0.41	Water	
1,3,5-Trimethylbenzene	0090016	9/6/00	9/8/00		5.00	9.41	ug/l	
• •	ti		11		5.00	17.5	lt.	
Total Xylenes	"			00.0.100	5.00	32.2		
Surrogate: 4-BFB				80.0-120		99.0	%	
<u>MW-5</u>			W0081	94-0 <u>5</u>			Water	<u>G12</u>
Benzene	0090016	9/6/00	9/8/00		50.0	2840	ug/l	
Ethylbenzene	п	11	**		500	3060	11	
Methyl tert-butyl ether	Ц	R	u		50.0	231	H	
Naphthalene	H	ii .	11		800	1120	11	
Toluene	н	и	u		2500	28100	0	
1,2,4-Trimethylbenzene	н	и	u		500	2740	IT .	
1,3,5-Trimethylbenzene	n	11	u		500	4000	II .	
Total Xylenes	и	11	н		500	17800	II	
Surrogate: 4-BFB	"	"	u	80.0-120		101	%	
Decon			W0081	94-06			Water	
Benzene	0090016	9/6/00	9/7/00	<u> </u>	0.500	ND	ug/l	
Ethylbenzene	11	11	"		5.00	ND	11	
Methyl tert-butyl ether	n .	u .	11		0.500	ND	п	
Toluene	er e	11	11		5.00	ND		
1,2,4-Trimethylbenzene	11	ш	It		5.00	ND	11	
1,3,5-Trimethylbenzene	u	11	и		5.00	ND	u	
Total Xylenes	11	11	tr		5.00	ND	tt.	
Surrogate: 4-BFB	"	и	ıı .	80.0-120		91.0	%	
m. this is			***********	0.4.0			<b>337</b> - 4	
Trip Blank	00000:	0.16.100	W0081	<u>94-07</u>	0.500	NID	<u>Water</u>	
Benzene	0090016	9/6/00	9/7/00		0.500	ND	ug/l "	
Ethylbenzene	# !!	"	11		5.00	ND	"	
Methyl tert-butyl ether	"		\$1 \$1		0.500	ND	"	
Naphthalene					8.00	ND	, ·	
Toluene			11		5.00	ND		
1,2,4-Trimethylbenzene			11		5.00	ND	"	
1,3,5-Trimethylbenzene	н	It	"		5.00	ND		
Total Xylenes	11				5.00	ND		
Surrogate: 4-BFB	"	"	"	80.0-120		93.5	%	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	980273	Sampled:	8/29/00
850 Hwy 153, Suite F	Project Number:	980273	Received:	8/31/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported:	9/14/00 13:15

#### Petroleum Volatile Organic Compounds (PVOC) by Method 8021B Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>MW-50</u>			W00819	<u>94-08</u>			<u>Water</u>	<u>G12</u>
Benzene	0090016	9/6/00	9/8/00		25.0	2780	ug/l	
Ethylbenzene	ti .	11	н		250	2980	11	
Methyl tert-butyl ether	**	11	*1		25.0	235	и	
Naphthalene	11	11	*1		400	843	u	
Toluene	II .	tt	11		2500	27500	ш	
1,2,4-Trimethylbenzene	и	**	Ħ		250	2600	II .	
1,3,5-Trimethylbenzene	u	11	U		250	770	н	
Total Xylenes	II.	u	U		250	17000	11	
Surrogate: 4-BFB	"	"	11	80.0-120		108	%	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:980273Sampled:8/29/00850 Hwy 153, Suite FProject Number:980273Received:8/31/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:9/14/00 13:15

#### Dissolved Metals by EPA 6000/7000 Series Methods Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-1 Iron Manganese	0090188	9/12/00	<b>W0081</b> 9/12/00	94-01 EPA 6010B EPA 6010B	0.100 0.0500	ND <b>0.471</b>	Water mg/l	<u>1</u>
MW-3 Iron Manganese	0090188	9/12/00	<u>W0081</u> 9/12/00	94-03 EPA 6010B EPA 6010B	0.100 0.0500	1.14 0.323	Water mg/l	1
MW-5 Iron Manganese	0090188	9/12/00	<u><b>W0081</b></u> 9/12/00	94-05 EPA 6010B EPA 6010B	0.100 0.0500	2.48 2.91	Water mg/l	1

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455 Project: 980273 Project Number: 980273

Project Number: 980273
Project Manager: John Zajakowski

Sampled: 8/29/00 Received: 8/31/00

Reported: 9/14/00 13:15

#### General Chemistry Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
MW-1			W0081	94-01			Water	1
Alkalinity as CaCO3	0090203	9/13/00	9/13/00	EPA 310.1	10.0	168	mg/l	
Nitrate/Nitrite-Nitrogen	0090143	9/11/00	9/11/00	EPA 353.2	0.0500	2.28	n T	
MW-3			W0081	94-03			Water	<u>1</u>
Alkalinity as CaCO3	0090203	9/13/00	9/13/00	EPA 310.1	10.0	72.0	mg/l	
Nitrate/Nitrite-Nitrogen	0090143	9/11/00	9/11/00	EPA 353.2	0.0500	1.85	11	
<u>MW-5</u>			W0081	94-05			<u>Water</u>	<u>1</u>
Alkalinity as CaCO3	0090203	9/13/00	9/13/00	EPA 310.1	10.0	148	mg/l	<del></del>
Nitrate/Nitrite-Nitrogen	0090143	9/11/00	9/11/00	EPA 353.2	0.0500	0.0540	**	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Andrea Stathas, Project Manager

Page 7 of 13



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: 980273 Sampled: 8/29/00
850 Hwy 153, Suite F Project Number: 980273 Received: 8/31/00
Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 9/14/00 13:15

#### **Notes and Definitions**

#	Note
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
T13	Several Large Peaks
T14	Single Large Peak
T4	Gas Range
<b>T</b> 7	Late Gas Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference
1	This sample was analyzed by Great Lakes Analytical in Buffalo Grove, Illinois, WDNR certification # 999917160.

Great Lakes Analytical--Oak Creek

Andrea Stathas, Project Manager

Page 13 of 13



# CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772 20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

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Client: Envisoren			Bill To:	<u>5 a</u>	<u>~</u>	ي پ	-		······································					TAT:	5 DAY	4 [	DAY	3 DAY	<u> </u>	DAY 1 DAY < 24 HR	ìS.
Address: 850 Hwy 153	Sur	MF	Address											DATE	RESUL	TS NE	EEDEL	o: 04	9/13	3/00	
Mosinee WI 544.	53																		1	nice	
Mosiner, WI 544.  Report to: Victora Loud Phone #: 6 Fax #: (	715) 69 715) 69	95-175 3-1741	State & Progran	n:			Ph Fa:	one x #:	#: (		)		- 1		BILL NO						
Project: 980273	/					/8/	/ &	7	$\overline{}$	/.	/. ;	W.X.	/. ,	7	7 /				AMPLE		
Sampler: SDN	/	0	٥ /	. Julianiania	<b>S</b>	Separation of the second of th	SESMICHT S	. U	/ <sub>2</sub> 6	/- <sub>}</sub> }	$\langle \langle \rangle \rangle$		. Hay						ONTRO	DL /	
PO/Quote #:	# 1		tallor,		/.		7	$f_{\lambda}^{ u}$	1%	M	30/1	$\mathcal{N}_{\chi_0}$	ŽX.	/ ,	/ /	/ /			; 4/35	ੈ LABORATORY	
FIELD ID, LOCATION	4.00	( 1 th S	\ \&\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	/ 8 <sup>2</sup>	/\{	5/ 🛪	/ W	<u>/ Y</u> ,	/K	hi	, o X	7 9	/	_/		/	\8^{\xi_{\dagge}}		<u> </u>	ID NUMBER	
MWI	05/19	5:06	6 W	HCL	3	40m/	X	メ				$\Rightarrow$			AMERICAN IN THE SECOND				l	N008194-01	
2 MWI	08/19	5.00	6 W	4,504	I	125ml				$\times$						Company of the Company					
3 MW 1	08/29	5:00	6 W	HNO3	l	115ml					X		0000			The state of the s					
4 MWI	08/19	5:00	6 W	None	1	250m/			X											1	
5 MW.2	100	f 1	6 W	HCL	3	40m/	$\times$	. ×				X	The second second second						1	N008194-02	2
	0 1		6 W	HCL	3	40M	8	X				×	e occupante de la constitución d							W008194-0	
7 MW3	08/19	5.00	GW	H50c1	1	[25m]				×											
8 Mw3	08/19		6 W	11003	1	15m/					×										
9 MW3	08/19	5.00	6 W		/	28m/	-		X												
10 MW4	08/19	5:00	GW	HCL	3	40m/	8	8		100		X							1	W003194-04	+
RELINQUISHED TIME SIND		1 1			<del>_</del>		QUISHE				Ll	<u></u>			RECEIV	/ED	J	I			-
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# CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772

20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

Client: Envisogen			Bill To:	Sqn	<u>ne</u>				*****					TAT:	5 L	DAY	4 DA	ıΥ :	3 DA	Y 2	DAY 1	DAY	< 24 HRS.
Address: 850 Nwy 153 5	Suite-	F	Addres	-										DATI	E RE	SULTS	NEE	:DED	):				
MOSINER, WI 54	455	1	1000											TEM	PERA	TURE	UPO	N R£	EC <i>EIP</i>	·T:			
Report to: Uschar & Lovy of Phone #: (	715)69	5-17g 3-17G (	State 8	n:			Pl Fa	hone ax #:	#: (	•	)			AIR	BILL	NO							
Project: 980273						/5/	1 &		7		$\sqrt{\cdot}$	77		Co Tay			7	$\overline{}$		·AMD	/	7	
Sampler: Jn N		0	۸ /	PRESENTATION OF THE PROPERTY O	S.	S ANTIMERS STATES	SEJMEN	60	$\sqrt{2}Q$		1		1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 /	/	/ /	/	/ ,		AMPL ONTR	OL		
PO/Quote #:	# 15 E	EL SEPTION SEP	SAMPA WANTER		/	\\ \overline{\ov	<sup>3</sup> /t,	0,0	20/	John	ZV.	æX.	12XX					\$			<b>5</b>	AROR	ATORY
FIELD ID, LOCATION			\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	/ &x	/{	5/ 1/2		<b>y y</b>	18	<i>///</i>	) <u> </u>	<u>/                                    </u>	<del>"</del>		/ <del></del> (	//		188	5/8 B	<u> </u>	<u> </u>	ID NU	MBER
1 MW5	08/19	5:00	CW	NCL	3	40m/	×	×				~			A COLUMN TO THE PERSON TO THE						WOL	1819	14-05
2 MW 5	- 1	5.00	σw		l	250m/			X													1	
3 MW5	08/19	5:00	GW	42504	1	150m l				×			_										
4 MW 5	08/19	5,00	1	HN03	+	2-2m/					*												
5 MA Con		<del> </del>	GW	M.CI	2	May /	<b>(</b> ×	8													WX	7819	14-06
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mw-50					3		X	X				χ									אלגו	0819	74-08
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# JUL 3 1 2000

140 East Ryan Road Oak Creek, Wisconsin 53154 Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

July 26, 2000

John Zajakowski Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

RE: Semanko Property

Dear John Zajakowski

Enclosed are the results of analyses for sample(s) received by the laboratory on July 11, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Stathas Project Manager

andrea Italia



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455 Project: Semanko Property
Project Number: 980273/050

Project Manager: John Zajakowski

Sampled: 7/6/00 Received: 7/11/00

Reported: 7/26/00 12:03

#### **ANALYTICAL REPORT FOR SAMPLES:**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
GP-1	W007045-01	Water	7/6/00
GP-3	W007045-02	Water	7/6/00
GP-4	W007045-03	Water	7/6/00
GP-5	W007045-04	Water	7/6/00
GP-6	W007045-05	Water	7/6/00
Field Blank	W007045-06	Water	7/6/00
Trip Blank	W007045-07	Water	7/6/00

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

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Envirogen - Mosinee Project: Semanko Property Sampled: 7/6/00

850 Hwy 153, Suite F Project Number: 980273/050 Received: 7/11/00

Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 7/26/00 12:03

#### Gasoline Range Organics (GRO) by WDNR GRO Great Lakes Analytical--Oak Creek

	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
GP-1	0070041	7/12/00	<u>W00704</u>		5000	86800	Water	<u>G12</u>
Gasoline Range Organics (GRO)	0070041	7/13/00	7/14/00	WDNR GRO	5000	80800	ug/l	T1,T4
GP-3 Gasoline Range Organics (GRO)	0070041	7/13/00	<u>W0070</u> 4 7/13/00	45-02 WDNR GRO	50.0	ND	<u>Water</u> ug/l	
GP-4 Gasoline Range Organics (GRO)	0070041	7/13/00	<u><b>W0070</b>4</u> 7/13/00	<b>45-03</b> WDNR GRO	50.0	660	<u>Water</u> ug/l	T4
GP-5 Gasoline Range Organics (GRO)	0070041	7/13/00	<u>W0070</u> -7/13/00	<b>45-04</b> WDNR GRO	50.0	ND	Water ug/l	
GP-6 Gasoline Range Organics (GRO)	0070041	7/13/00	<b>W0070</b> 7/14/00	45-05 WDNR GRO	50.0	ND	<u>Water</u> ug/l	
Field Blank Gasoline Range Organics (GRO)	0070041	7/13/00	<b>W0070</b> -7/13/00	<b>45-06</b> WDNR GRO	50.0	ND	<u>Water</u> ug/l	
Trip Blank Gasoline Range Organics (GRO)	0070041	7/13/00	<u><b>W0070</b></u> 7/13/00	<b>45-07</b> WDNR GRO	50.0	ND	<u>Water</u> ug/l	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	Semanko Property	Sampled: 7/6/00
850 Hwy 153, Suite F	Project Number:	980273/050	Received: 7/11/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported: 7/26/00 12:03

### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>GP-1</u>			W00704	<u>45-01</u>	_		Water	
Benzene	0070343	7/18/00	7/18/00		400	5820	ug/l	G12
Bromobenzene	(I	11	11		50.0	ND	11	
Bromodichloromethane	H	11	II .		5.00	ND	(1	
n-Butylbenzene	11	11	11		50.0	ND	11	
sec-Butylbenzene	ti	11	U		50.0	ND	u	
tert-Butylbenzene	It	H	11		50.0	ND	II	
Carbon tetrachloride	**	п	11		5.00	ND	ŧI	
Chlorobenzene	II	tr	If		50.0	ND	u	
Chloroethane	11	н	н		50.0	ND	11	
Chloroform	11	n	U		1.40	ND	H	
Chloromethane	11	и	11		6.00	ND	п	
2-Chlorotoluene	tt	ii .	11		50.0	ND	Ħ	
4-Chlorotoluene	11	tt .	и		50.0	ND	It	
Dibromochloromethane	ti .	ш	11		50.0	ND	<b>11</b>	
1,2-Dibromo-3-chloropropane	11	11	•		3.90	ND	11	
1,2-Dibromoethane	**	U .	ır		3.80	ND	11	
1,2-Dichlorobenzene	u	tt.	п		50.0	ND	lt.	
1,3-Dichlorobenzene	п	11	II		50.0	ND	н	
1,4-Dichlorobenzene	11	tt.	u		50.0	ND	11	
Dichlorodifluoromethane	u .	п	Ħ		50.0	ND	tr	
1,1-Dichloroethane	II.	11	11		50.0	ND	It	
1,2-Dichloroethane	11	ff	lt.		5.00	ND	11	
1,1-Dichloroethene	"	II .	11		5.00	ND	11	
cis-1,2-Dichloroethene	11	41	11		50.0	ND	It	
trans-1,2-Dichloroethene	u	11	n		50.0	ND	**	
1,2-Dichloropropane	tt.	11	ш		5.00	ND	0	
1,3-Dichloropropane	п	п	11		50.0	ND	11	
2,2-Dichloropropane	11	n .	11		50.0	ND	11	
Di-isopropyl ether	U	tt.	lt.		50.0	ND	11	
Ethylbenzene	и	"	н		4000	4960	и	· G12
Hexachlorobutadiene	11		11		100	ND		G12
	U	11			50.0	107	11	
Isopropylbenzene					50.0 50.0	ND		
p-Isopropyltoluene	11				5.30	6.77	**	G14
Methylene chloride		"	"			6.77 ND	н	<b>U</b> 14
Methyl tert-butyl ether		11			5.00		*1	C12 C12
Naphthalene	"	"	11		6400	24800		G12,G13
n-Propylbenzene	"	"	"		50.0	336		
1,1,2,2-Tetrachloroethane	,,	,,	,,		3.50	ND		

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:Semanko PropertySampled:7/6/00850 Hwy 153, Suite FProject Number:980273/050Received:7/11/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GP-1 (continued)			W0070	45-01			Water	G1,G15,1
Tetrachloroethene	0070343	7/18/00	7/18/00		5.00	ND	ug/l	
Toluene	11	u	11		4000	47900	"	E,G12
1,2,3-Trichlorobenzene	ţ1	11	и		100	ND	11	
1,2,4-Trichlorobenzene	11	11	11		100	ND	11	
1,1,1-Trichloroethane	II	ti	Ħ		50.0	ND	п	
1,1,2-Trichloroethane	ıı	tt	II		1.60	ND	Ħ	
Trichloroethene	11	11	11		5.00	ND	n	
Trichlorofluoromethane	tt.	*1	11		50.0	ND	11	
1,2,4-Trimethylbenzene	11	Ħ	u		4000	45800	11	E,G12
1,3,5-Trimethylbenzene	11	11	11		4000	15200	11	G12
Vinyl chloride	41	It	u ·		1.70	ND	11	
Total Xylenes	tt.	II	II		4000	31200	п	G12,G14
Surrogate: 4-BFB (ELCD)	"	"	"	14.4-252		NR	%	
Surrogate: 4-BFB (PID)	n .	"	"	46.1-177		NR	n	O5

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project: Semanko Pro	erty Sampled:	7/6/00
850 Hwy 153, Suite F	Project Number: 980273/050	Received:	7/11/00
Mosinee, WI 54455	Project Manager: John Zajakow	ski Reported:	7/26/00 12:03

### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>GP-3</u>			*****	45 02			Woten	C1 C15 1
<u>GP-3</u> Benzene	0070343	7/18/00	<u>W0070</u> 4 7/18/00	43-04	0.500	7.02	<u>Water</u> ug/l	G1,G15,1 G13
Bromobenzene	0070343	//18/00	7/18/00		5.00	7.02 ND	ug/1	GIS
Bromodichloromethane	11		11		0.500	ND ND	e	
			11				n.	
n-Butylbenzene					5.00	ND	11	
sec-Butylbenzene			11		5.00	ND	11	
tert-Butylbenzene	 51	" #	"		5.00	ND		
Carbon tetrachloride	"	11	u		0.500	ND	"	
Chlorobenzene	'' It		"		5.00	ND	"	
Chloroethane		n			5.00	ND		
Chloroform	. 11	If	И		0.140	ND	**	
Chloromethane	11	II	П		0.600	ND	0	
2-Chlorotoluene	n	11	11		5.00	ND	11	
4-Chlorotoluene	tt.	11	H		5.00	ND	11	
Dibromochloromethane	н	Ħ	u		5.00	ND	**	
1,2-Dibromo-3-chloropropane	μ	u .	11		0.390	ND	ti .	
1,2-Dibromoethane	11	If	U		0.380	ND	H	
1,2-Dichlorobenzene	(1	11	II .		5.00	ND	н	
1,3-Dichlorobenzene	ęt	11	11		5.00	ND	II	
1,4-Dichlorobenzene	tt.	11	11		5.00	ND	11	
Dichlorodifluoromethane	įt	n	ti		5.00	ND	11	
1,1-Dichloroethane	II.	er e	tt		5.00	ND	tt .	
1,2-Dichloroethane	il	tt	11		0.500	ND	II.	
1,1-Dichloroethene	11	н	16		0.500	ND	II .	
cis-1,2-Dichloroethene	și	u	II.		5.00	ND	п	
trans-1,2-Dichloroethene		lt .	ш		5.00	ND	#1	
1,2-Dichloropropane	ti.	II	n		0.500	ND	11	
1,3-Dichloropropane	rt .	u	п		5.00	ND	n	
2,2-Dichloropropane	it.	11	11		5.00	ND	*1	
2,2-Dictioropropane Di-isopropyl ether	tt.	11	**		5.00	ND	tr	
	ıı.	11	"		5.00	ND ND	11	
Ethylbenzene Ugwachlarahutadiana	 II	11	11		3.00 10.0	ND ND	11	
Hexachlorobutadiene							u .	
Isopropylbenzene	"		"		5.00	ND		
p-Isopropyltoluene	**	0	"		5.00	ND	"	
Methylene chloride					0.530	ND	"	
Methyl tert-butyl ether	,1	(f	11		0.500	ND		
Naphthalene	u	II .	tr		8.00	ND	**	
n-Propylbenzene	11	11	11		5.00	ND		
1,1,2,2-Tetrachloroethane	11	11	н		0.350	ND	"	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455 Project: Semanko Property
Project Number: 980273/050

Sampled: 7/6/00 Received: 7/11/00

Project Manager: John Zajakowski

Reported: 7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GP-3 (continued)			<u>W00704</u>	<u>45-02</u>			<u>Water</u>	<u>G1,G15,1</u>
Tetrachloroethene	0070343	7/18/00	7/18/00		0.500	ND	ug/l	
Toluene	lt .	u .	**		5.00	ND	67	
1,2,3-Trichlorobenzene	"	и	11		10.0	ND	I#	
1,2,4-Trichlorobenzene	п	11	tı		10.0	ND	и	
1,1,1-Trichloroethane	н	п	If		5.00	ND	п	
1,1,2-Trichloroethane	**	11	11		0.160	ND	11	
Trichloroethene	ti	n	II .		0.500	ND	61	
Trichlorofluoromethane	Ħ	11	п		5.00	ND	H 1	
1,2,4-Trimethylbenzene	H	n	11		5.00	ND	tt.	
1,3,5-Trimethylbenzene	If	tt	11		5.00	ND	н	
Vinyl chloride	II	lt.	11		0.170	ND	II .	
Total Xylenes	н	II .	n		5.00	ND	11	
Surrogate: 4-BFB (ELCD)	"	"	"	14.4-252		NR	%	
Surrogate: 4-BFB (PID)	"	H	и	46.1-177		167	11	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Envirogen - Mosinee	Project:	Semanko Property	Sampled:	7/6/00
850 Hwy 153, Suite F	Project Number:	980273/050	Received:	7/11/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported:	7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
							***	~4 ~4 = 4
<u>GP-4</u>			W00704	<u>45-03</u>	0.40-			G1,G15,1
Benzene	0070343	7/18/00	7/19/00		0.500	661	ug/l	E,G13
Bromobenzene	ti .	U	11		5.00	ND		
Bromodichloromethane	"	u	11		0.500	ND	11	
n-Butylbenzene	"	II .			5.00	ND		
sec-Butylbenzene	(f	11	H		5.00	ND	*1	
tert-Butylbenzene	II .	**	U		5.00	ND	0	
Carbon tetrachloride	П	<b>!</b> !	II.		0.500	ND	(1)	
Chlorobenzene	11	11	н		5.00	ND	It	
Chloroethane	11	ti	11		5.00	ND	11	
Chloroform	11	**	11		0.140	ND	It	
Chloromethane	"	"	11		0.600	ND -	11	
2-Chlorotoluene	11	lt.	11		5.00	ND	11	
4-Chlorotoluene	tr	tt.	er e		5.00	ND	11	
Dibromochloromethane	H	tt	11		5.00	ND	H	
1,2-Dibromo-3-chloropropane	II .	н	11		0.390	ND	11	
1,2-Dibromoethane	II .	и	\$1		0.380	ND	tr	
1,2-Dichlorobenzene	u	H	11		5.00	ND	O.	
1,3-Dichlorobenzene	II	н	f1		5.00	ND	tr .	
1,4-Dichlorobenzene	11	п	11		5.00	ND	н	
Dichlorodifluoromethane	ш	и	#1		5.00	ND	tt.	
1,1-Dichloroethane	"	u	11		5.00	ND	tt.	
1,2-Dichloroethane	u	п	11		0.500	ND	tt.	
1,1-Dichloroethene	и	n .	11		0.500	ND	II.	
cis-1,2-Dichloroethene	11	u	11		5.00	ND	11	
trans-1,2-Dichloroethene	11	u	11		5.00	ND	11	
1,2-Dichloropropane	11	u .	n .		0.500	ND	11	
1,3-Dichloropropane	11	u			5.00	ND	II.	
2,2-Dichloropropane	tt .	II .	и		5.00	ND	II.	
Di-isopropyl ether	11	н	II		5.00	ND	11	
Ethylbenzene	11	n	II		5.00	79.0	ır	. Е
Hexachlorobutadiene	tt	11	u		10.0	ND		
Isopropylbenzene	lt.	tt.	II.		5.00	ND	18	
p-Isopropyltoluene	tr	11	11		5.00	ND	If	
Methylene chloride	**	U	п		0.530	ND	11	
Methyl tert-butyl ether	ш	tr	**		0.500	ND	U	
Naphthalene	ti .	11	11		8.00	19.8	11	G13
n-Propylbenzene	11	**	11		5.00	6.56	11	2.5
1,1,2,2-Tetrachloroethane		**	11		0.350	ND	<b>11</b>	
1,1,2,2~1 chacmorochiane					0.550			

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:Semanko PropertySampled:7/6/00850 Hwy 153, Suite FProject Number:980273/050Received:7/11/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GP-4 (continued)			W0070	45- <u>03</u>			Water	G1,G15,1
Tetrachloroethene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Toluene	II	11	11		5.00	1020	Ħ	E,G13
1,2,3-Trichlorobenzene	ıı	11	11		10.0	ND	"	
1,2,4-Trichlorobenzene	II .	ti .	a a		10.0	ND	u	
1,1,1-Trichloroethane	II .	0 '	n .		5.00	ND	п	
1,1,2-Trichloroethane	н	II	n		0.160	ND	11	
Trichloroethene	11	It	u		0.500	ND	n	
Trichlorofluoromethane	11	ш	n		5.00	ND	tt	
1,2,4-Trimethylbenzene		It	U		5.00	50.9	#1	E,G13
1,3,5-Trimethylbenzene	"	11	II .		5.00	12.8	()	G13
Vinyl chloride	u	11	II .		0.170	ND	II	
Total Xylenes	tt.	11	H		5.00	400	11	E,G13
Surrogate: 4-BFB (ELCD)	**	11	"	14.4-252		NR	%	05
Surrogate: 4-BFB (PID)	ıı .	"	"	46.1-177		180	"	O5

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	Semanko Property	Sampled:	7/6/00
850 Hwy 153, Suite F	Project Number:	980273/050	Received:	7/11/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported:	7/26/00 12:03

# WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>GP-5</u>			W0070	<u>45-04</u>				<u>G1,G15,1</u>
Benzene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Bromobenzene	п	0	11		5.00	ND	11	
Bromodichloromethane	11	l#	II		0.500	ND	11	
n-Butylbenzene	11	ш	11		5.00	ND	11	
sec-Butylbenzene	II .	11	11		5.00	ND	tt.	
tert-Butylbenzene	и	**	ti .		5.00	ND	II.	
Carbon tetrachloride	It	11	41		0.500	ND	II .	
Chlorobenzene	н	11	11		5.00	ND	11	
Chloroethane	11	61	It		5.00	ND	11	
Chloroform	ŧi	11	u		0.140	ND	11	
Chloromethane	11	11	ш		0.600	ND	11	
2-Chlorotoluene	11	II .	11		5.00	ND	ti	
4-Chlorotoluene	If	11	11		5.00	ND	11	
Dibromochloromethane	II	41	#1		5.00	ND	II	
1,2-Dibromo-3-chloropropane	II	11	11		0.390	ND	II	
1,2-Dibromoethane	11	11	11		0.380	ND	п	
1,2-Dichlorobenzene	ш	ŧı	\$1		5.00	ND	H	
1,3-Dichlorobenzene	n	*1	11		5.00	ND	11	
1,4-Dichlorobenzene	u	**	•		5.00	ND	11	
Dichlorodifluoromethane	11	11	tt		5.00	ND	11	
1,1-Dichloroethane	11	11	11		5.00	ND	11	
1,2-Dichloroethane	11	11	**		0.500	ND	11	
1,1-Dichloroethene	11	11	11		0.500	ND	11	
cis-1,2-Dichloroethene	tt	11	**		5.00	ND	11	
trans-1,2-Dichloroethene	n	41	11		5.00	ND	11	
1,2-Dichloropropane	11	11	n		0.500	ND	H	
1,3-Dichloropropane	u	O .	11		5.00	ND	ti	
2,2-Dichloropropane	n	11	11		5.00	ND	O	
Di-isopropyl ether	U	ti .	ŧı		5.00	ND	U	
Ethylbenzene	u	H	1)		5.00	ND		
Hexachlorobutadiene	u	lt .	11		10.0	ND	**	
Isopropylbenzene	II .	H	11		5.00	ND	11	
p-Isopropyltoluene	ii .	11	11		5.00	ND	11	
Methylene chloride	ti .	11	н		0.530	ND	**	
Methyl tert-butyl ether	11	**	11		0.500	ND	tt	
Naphthalene	и	**	11		8.00	ND	22	
n-Propylbenzene	11	0	II		5.00	ND	11	
1,1,2,2-Tetrachloroethane	11	11	u .		0.350	ND	**	
1,1,2,2 londomoroomano					0.550	. ,		

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee 850 Hwy 153, Suite F Mosinee, WI 54455

Project: Project Number: 980273/050 Project Manager: John Zajakowski

Semanko Property

Sampled: 7/6/00 Received: 7/11/00

Reported: 7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 **Great Lakes Analytical**

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
GP-5 (continued)			<u>W00704</u>	<u>45-04</u>			Water	<u>G1,G15,1</u>
Tetrachloroethene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Toluene	п	11	11		5.00	ND	11	
1,2,3-Trichlorobenzene	**	"			10.0	ND	0	
1,2,4-Trichlorobenzene	11	II	н		10.0	ND	H	
1,1,1-Trichloroethane	II.	11	"		5.00	ND	#1	
1,1,2-Trichloroethane	11	n	11		0.160	ND	<b>51</b>	
Trichloroethene	H	и	- H		0.500	ND	11	
Trichlorofluoromethane	11	0	II.		5.00	ND	н	
1,2,4-Trimethylbenzene	11		11		5.00	ND	11	
1,3,5-Trimethylbenzene	н	Ð	***		5.00	ND	U	
Vinyl chloride	lt.	0	tt.		0.170	ND	н	
Total Xylenes	I#	11	. и		5.00	ND	ti .	
Surrogate: 4-BFB (ELCD)	"	"	"	14.4-252		NR	%	
Surrogate: 4-BFB (PID)	"	II .	"	46.1-177		138	"	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

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Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	Semanko Property	Sampled:	7/6/00	
850 Hwy 153, Suite F	Project Number:	980273/050	Received:	7/11/00	
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported:	7/26/00 12:03	

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

GP-6         "W007045-05"         W007045-05"         W1070 MONO MONO MONO MONO MONO MONO MONO MON		Batch	Date	Date	Surrogate	Reporting			
Benzene         070343         71,8/00         71,9/00         0.500         ND         ug/l           Bromobene         "         "         0,000         ND         "           Bromodichloromethane         "         "         0,500         ND         "           n-Butylbenzene         "         "         5,00         ND         "           see-Butylbenzene         "         "         5,00         ND         "           Carbon tetrachloride         "         "         "         5,00         ND         "           Chlorothane         "         "         "         5,00         ND         "           Chlorothane         "         "         "         5,00         ND         "           Chlorothane         "         "         "         5,00         ND         "           Chlorothane         "         "         "         5,00         ND         "           Chlorothane         "         "         "         5,00         ND         "           Chlorothane         "         "         "         5,00         ND         "           1,2-Dibromo-3-chloropropane         "	Analyte	Number	Prepared	Analyzed		Limit	Result	Units	Notes*
Benzene         070343         7/18/00         7/19/00         0.500         ND         ug/I           Bromobenzene         " " " " " 5,00         ND         " " " 5,00         ND         " " " 5,00         ND         " " 5,00         ND         " " 5,00         ND         " " 5,00         ND         " 5,00         ND </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Bromodichloromethane					<u>45-05</u>				<u>G1,G15,1</u>
Solid Note   Sol									
n-Butylbenzene " " " " 5.00 ND " sec-Butylbenzene " " " 5.00 ND " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " " " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenzene " 5.00 ND " * sec-Butylbenzene " 5.00 ND " " * sec-Butylbenz									
sec-Butylbenzene									
tert-Butylbenzene	•						ND		
Carbon tetrachloride         " " " " " 5.00 ND "           Chlorobenzene         " " " 5.00 ND "           Chlorobenzene         " " 5.00 ND "           Chloroform         " " " 6.00 ND "           Chloromethane         " " 6.00 ND "           Chloromethane         " " 6.00 ND "           2-Chlorotoluene         " " 5.00 ND "           4-Chlorotoluene         " " 5.00 ND "           1,2-Dibromochloromethane         " " 5.00 ND "           1,2-Dibromochloromethane         " " 5.00 ND "           1,2-Dibromochloromethane         " " 5.00 ND "           1,2-Dibromochloromethane         " " 5.00 ND "           1,2-Dibromochlorenene         " " 5.00 ND "           1,2-Dibromochlorenene         " " 5.00 ND "           1,2-Dibromochlorenene         " " 5.00 ND "           1,4-Dichlorobenzene         " " 5.00 ND "           1,4-Dichlorothane         " " 5.00 ND "           1,1-Dichlorothane         " " 5		u		ŧi.			ND		
Chlorobenzene Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorothane Chlorotoluene Chlorothane Ch		II	n	tt				ti .	
Chloroethane Chloroform Chloroform Chloroform Chloroform Chloromethane C		H	н	ш					
Chloroform         " " " " " " " " " " " " " " " " " " "	Chlorobenzene	l1	11	11		5.00	ND	#1	
Chloromethane	Chloroethane	11	ti	ŧ1		5.00	ND	l†	
Chlorotoluene	Chloroform	u	11	11		0.140	ND	11	
Action   A	Chloromethane	II .	11	н		0.600	ND	U	
Company   Comp	2-Chlorotoluene	tt	H	£1		5.00	ND	"	
Dibromochloromethane	4-Chlorotoluene	11	11	tr		5.00	ND	11	
1,2-Dibromoethane	Dibromochloromethane	u	11	It		5.00	ND	11	
1,2-Dibromoethane       " " " " " 5.00       ND " " 1,2-Dichlorobenzene       " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " " " 5.00       ND " " 1,3-Dichlorobenzene       " " " " " " 1,3-Dichlorobenzene       " " " " " 1,3-Dichlorobenzene       " " " " " 1,3-Dichlorobenzene       " " " " " 1,3-Dichlorobenzene       " " " " 1,3-Dichlorobenzene       " " " " 1,3-Dichlorobenzene       " " " " 1,3-Dichlorobenzene       " " " " 1,3-Dichlorobenzene       " " " " 1,3-Dichlorobenzene       " " " " 1,3-Dichlorobenzene       " " " 1,3-Dichlorobenzene       " " " 1,3-Dichlorobenzene       " " 1,3-Dichlorobenzene       " " " 1,3-Dichloropropane       " " " 1,3-Dichloropropane       " " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " " 1,3-Dichloropropane       " 1,3-Dichloropropane       " " 1,3-Dichlorobenzene       " " 1,3-Dichlorobenzene       " " 1,3-Dichlorobenzene       " " 1,3-Dichlorobenzene       " 1,3-Dichlorobenzene       " 1,3-Dichlorobenzene       " 1,3-Dichlorobenzene       " 1,3-Dichlorobenzene       " 1,3-Dichlorobenzene       " 1,3-Dic		lt .	11	**		0.390	ND	H.	
1,2-Dichlorobenzene       " " " " " 5.00 ND " " 1,3-Dichlorobenzene         1,4-Dichlorobenzene       " " " " 5.00 ND " " 1,4-Dichlorobenzene         Dichlorodifluoromethane       " " " 5.00 ND " 1,1-Dichloroethane         1,1-Dichloroethane       " " " 5.00 ND " 1,1-Dichloroethane         1,2-Dichloroethane       " " " 5.00 ND " 1,1-Dichloroethene         1,1-Dichloroethene       " " " 5.00 ND " 1,1-Dichloroethene         cis-1,2-Dichloroethene       " " " 5.00 ND " 1,1-Dichloropropane         1,2-Dichloropropane       " " " 5.00 ND " 1,1-Dichloropropane         1,2-Dichloropropane       " " " 5.00 ND " 1,2-Dichloropropane         1,2-Dichloropropane       " " " 5.00 ND " 1,2-Dichloropropane         1,3-Dichloropropane       " " 5.00 ND " 1,2-Dichloropropane         1,3-Dichloropropane       " " 5.00 ND " 1,2-Dichloropropane         1,3-Dichloropropane       " " 5.00 ND " 1,2-Dichloropropane         1,5-Dichloropropane       " " 5.00 ND " 1,2-Dichloropropane         1,5-Dichloropropane       " " 5.00 ND " 1,2-Dichloropropane         1,5-Dichloropropane<		11	n	11		0.380	ND	н	
1,3-Dichlorobenzene       " " " " " " 5.00 ND "         1,4-Dichlorobenzene       " " " " 5.00 ND "         Dichlorodifluoromethane       " " " 5.00 ND "         1,1-Dichloroethane       " " " " 5.00 ND "         1,1-Dichloroethane       " " " " 5.00 ND "         1,1-Dichloroethane       " " " " 5.00 ND "         1,1-Dichloroethene       " " " 5.00 ND "         cis-1,2-Dichloroethene       " " " 5.00 ND "         trans-1,2-Dichloroethene       " " " 5.00 ND "         1,3-Dichloropropane       " " " 5.00 ND "         1,3-Dichloropropane       " " " 5.00 ND "         2,2-Dichloropropane       " " " 5.00 ND "         Di-isopropyl ether       " " 5.00 ND "         Bthylbenzene       " " " 5.00 ND "         Hexachlorobutadiene       " " " 5.00 ND "         Isopropylbenzene       " " " 5.00 ND "         p-Isopropyltoluene       " " 5.00 ND "         Methyl tert-butyl ether       " " 5.00 ND "         Nethyl tert-butyl ether       " " 5.00 ND "         Naphthalene       " " " 5.00 ND "         Naphthalene       " " 5.00 ND "	•	11	tr.	II.		5.00	ND	н	
1,4-Dichlorobenzene	•	ti .	11	R		5.00	ND	0	
Dichlorodifluoromethane	•	11	"	11		5.00	ND	II	
1,1-Dichloroethane       " " " " " " " " " " " " " " " " " " "		11	tt	**			ND	#1	
1,2-Dichloroethane       " " " " " " " " " " " " " " " " " " "		tt	tt.	11				11	
1,1-Dichloroethene       " " " " " " " 5.00 ND " "         cis-1,2-Dichloroethene       " " " " " 5.00 ND "         trans-1,2-Dichloroethene       " " " " 5.00 ND "         1,2-Dichloropropane       " " " " 5.00 ND "         1,3-Dichloropropane       " " " " 5.00 ND "         2,2-Dichloropropane       " " " " 5.00 ND "         2,2-Dichloropropane       " " " " 5.00 ND "         Di-isopropyl ether       " " " " 5.00 ND "         Ethylbenzene       " " " " " 5.00 ND "         Hexachlorobutadiene       " " " " " 5.00 ND "         Isopropylbenzene       " " " " " 5.00 ND "         p-Isopropyltoluene       " " " " 5.00 ND "         Methylene chloride       " " " " " 5.00 ND "         Methyl tert-butyl ether       " " " " " " 8.00 ND "         Naphthalene       " " " " " " " 8.00 ND "         n-Propylbenzene       " " " " " " " " 5.00 ND "	•	II.	н	11				H	
cis-1,2-Dichloroethene       " " " " " 5.00 ND "         trans-1,2-Dichloroethene       " " " " 5.00 ND "         1,2-Dichloropropane       " " " 5.00 ND "         1,3-Dichloropropane       " " " 5.00 ND "         2,2-Dichloropropane       " " " 5.00 ND "         2,2-Dichloropropane       " " " " 5.00 ND "         Di-isopropyl ether       " " " " 5.00 ND "         Ethylbenzene       " " " " 10.0 ND "         Hexachlorobutadiene       " " " " 10.0 ND "         Isopropylbenzene       " " " " 5.00 ND "         p-Isopropyltoluene       " " " " 5.00 ND "         Methylene chloride       " " " " " " 5.00 ND "         Methyl tert-butyl ether       " " " " " 8.00 ND "         Naphthalene       " " " " " " 8.00 ND "         n-Propylbenzene       " " " " " " 5.00 ND "	· ·	It	11	16				tt	
trans-1,2-Dichloroethene       " " " " " " 0.500 ND " 1,2-Dichloropropane       0.500 ND " 1,3-Dichloropropane       " " " " 5.00 ND " 1,3-Dichloropropane       5.00 ND " 1,3-Dichloropropane       " " " " 5.00 ND " 1,3-Dichloropropane       " " " " " 5.00 ND " 1,3-Dichloropropane       " " " " " 5.00 ND " 1,3-Dichloropropane       " " " " " 5.00 ND " 1,3-Dichloropropane       " " " " " 5.00 ND " 1,3-Dichloropropane       " " " " " " 1,3-Dichloropropane       " " " " " 1,3-Dichloropropane       " " " " " 1,3-Dichloropropane       " " " " " " 1,3-Dichloropropane       " " " " " " 1,3-Dichloropropane       " " " " " " " 1,3-Dichloropropane       " " " " " " " " 1,3-Dichloropropane       " " " " " " " " " 1,3-Dichloropropane       " " " " " " " " " " 1,3-Dichloropropane       " " " " " " " " " " " " " " " " " " "	•	11	11	н				11	
1,2-Dichloropropane       " " " " " 5.00 ND "         1,3-Dichloropropane       " " " " 5.00 ND "         2,2-Dichloropropane       " " " " 5.00 ND "         Di-isopropyl ether       " " " " 5.00 ND "         Ethylbenzene       " " " " 1.00 ND "         Hexachlorobutadiene       " " " " 5.00 ND "         Isopropylbenzene       " " " " 5.00 ND "         p-Isopropyltoluene       " " " 5.00 ND "         Methylene chloride       " " " " 5.00 ND "         Methyl tert-butyl ether       " " " " 8.00 ND "         Naphthalene       " " " " 8.00 ND "         n-Propylbenzene       " " " " " 5.00 ND "	· · · · · · · · · · · · · · · · · · ·	<b>11</b>	Ð	**				11	
1,3-Dichloropropane " " " " 5.00 ND " 2,2-Dichloropropane " " " " 5.00 ND " 1.00 ND "	· · · · · · · · · · · · · · · · · · ·	u	· ·	n .				11	
2,2-Dichloropropane       " " " " " 5.00 ND "         Di-isopropyl ether       " " " " 5.00 ND "         Ethylbenzene       " " " " 10.0 ND "         Hexachlorobutadiene       " " " " 10.0 ND "         Isopropylbenzene       " " " " " 10.0 ND "         p-Isopropyltoluene       " " " " " 5.00 ND "         Methylene chloride       " " " " " 0.530 ND "         Methyl tert-butyl ether       " " " " 8.00 ND "         Naphthalene       " " " " 8.00 ND "         n-Propylbenzene       " " " " 5.00 ND "		11	н					U.	
Di-isopropyl ether       " " " " " 5.00 ND "         Ethylbenzene       " " " " 1.00 ND "         Hexachlorobutadiene       " " " 1.00 ND "         Isopropylbenzene       " " " 1.00 ND "         p-Isopropyltoluene       " " " 1.00 ND "         Methylene chloride       " " " " 1.00 ND "         Methyl tert-butyl ether       " " " " 1.00 ND "         Naphthalene       " " " " 1.00 ND "         n-Propylbenzene       " " " " 1.00 ND "		н	ti .	**				lt .	
Ethylbenzene         " " " " " " 10.0 ND " 1		er e	#1					11	
Hexachlorobutadiene       " " " " 10.0 ND "         Isopropylbenzene       " " " " 5.00 ND "         p-Isopropyltoluene       " " " 5.00 ND "         Methylene chloride       " " " " 0.530 ND "         Methyl tert-butyl ether       " " " " 0.500 ND "         Naphthalene       " " " " 8.00 ND "         n-Propylbenzene       " " " " 5.00 ND "		U	ti .	H				н	
Isopropylbenzene       " " " " " " 5.00 ND "         p-Isopropyltoluene       " " " " 5.00 ND "         Methylene chloride       " " " " 0.530 ND "         Methyl tert-butyl ether       " " " " 8.00 ND "         Naphthalene       " " " " 8.00 ND "         n-Propylbenzene       " " " " " " ND "		II.	U	11					
p-Isopropyltoluene " " " " 5.00 ND "  Methylene chloride " " " 0.530 ND "  Methyl tert-butyl ether " " 0.500 ND "  Naphthalene " " " 8.00 ND "  n-Propylbenzene " " " 5.00 ND "		и .	п	tt.				11	
Methylene chloride " " " " 0.530 ND "  Methyl tert-butyl ether " " " 0.500 ND "  Naphthalene " " " 8.00 ND "  n-Propylbenzene " " " 5.00 ND "		11	11	lt .				11	
Methyl tert-butyl ether       " " " " 0.500 ND "         Naphthalene       " " " 8.00 ND "         n-Propylbenzene       " " 5.00 ND "		**	11	n .				11	
Naphthalene " " " 8.00 ND " n-Propylbenzene " " " 5.00 ND "	· · · · · · · · · · · · · · · · · · ·	n .	"	п					
n-Propylbenzene " " " 5.00 ND "	•							**	
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1,1,2,2-1 cu a chi o ro cui a ne de constant								**	
	1,1,2,2-1 etrachioroethane	<del></del>				0.330	מא		

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:Semanko PropertySampled:7/6/00850 Hwy 153, Suite FProject Number:980273/050Received:7/11/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

Analyte	Batch Number	Date	Date	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Analyte	Number	Prepared	Analyzed	Limits	Limit	Kesuit	Omis	Notes.
GP-6 (continued)			W00704	<u>45-05</u>			Water	<u>G1,G15,1</u>
Tetrachloroethene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Toluene	11	11	11		5.00	ND	н	
1,2,3-Trichlorobenzene	tt	II .	**		10.0	ND	11	
1,2,4-Trichlorobenzene	**	**	**		10.0	ND	11	
1,1,1-Trichloroethane	11	н	tt		5.00	ND	II .	
1,1,2-Trichloroethane	11	11	11		0.160	ND	tt	
Trichloroethene	u .	**	**		0.500	ND	н	
Trichlorofluoromethane	tt.	ŧı	H		5.00	ND	**	
1,2,4-Trimethylbenzene	U	ır	11		5.00	ND	11	
1,3,5-Trimethylbenzene	11	II.	"		5.00	ND	11	
Vinyl chloride	11	и	**		0.170	ND	n	
Total Xylenes	11	II .	11		5.00	ND	"	
Surrogate: 4-BFB (ELCD)	"	"	"	14.4-252		NR	%	
Surrogate: 4-BFB (PID)	n .	"	"	46.1-177		141	"	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: Semanko Property Sampled: 7/6/00

850 Hwy 153, Suite F Project Number: 980273/050 Received: 7/11/00

Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
<u>Field Blank</u>			W00704	<u>45-06</u>			Water	<u>G1,G15,1</u>
Benzene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Bromobenzene	11	II	11		5.00	ND	II.	
Bromodichloromethane	11	"	11		0.500	ND	П	
n-Butylbenzene	II.	tt	H		5.00	ND	ti	
sec-Butylbenzene	II	11	11		5.00	ND	**	
tert-Butylbenzene	11	и	11		5.00	ND	Ħ	
Carbon tetrachloride	u	н	и		0.500	ND	If	
Chlorobenzene	II.	n	11		5.00	ND	н	
Chloroethane	II	f1	11		5.00	ND	#1	
Chloroform	11	11	H		0.140	ND	ŧI	
Chloromethane	Ħ	It	11		0.600	ND	11	
2-Chlorotoluene	11	H.	lt.		5.00	ND	H.	
4-Chlorotoluene	ŧı	п	п		5.00	ND	H	
Dibromochloromethane	u	ш	11		5.00	ND	II .	
1,2-Dibromo-3-chloropropane	H	11	11		0.390	ND	<b>31</b>	
1,2-Dibromoethane	If	11	11		0.380	ND	fI	
1,2-Dichlorobenzene	tt.	11	н		5.00	ND	51	
1,3-Dichlorobenzene	II	91	*11		5.00	ND	tt	
1,4-Dichlorobenzene	II .	tr	Ħ		5.00	ND	11	
Dichlorodifluoromethane	11	II	ti .		5.00	ND	u	
1,1-Dichloroethane	11	n .	u		5.00	ND	u	
1,2-Dichloroethane	11	R	ti .		0.500	ND	и	
1,1-Dichloroethene	11	n .	11		0.500	ND	п	
cis-1,2-Dichloroethene	11	n	11		5.00	ND	11	
trans-1,2-Dichloroethene	u		t <del>t</del>		5.00	ND	11	
1,2-Dichloropropane		11	It		0.500	ND	n	
1,3-Dichloropropane	"	n n	11		5.00	ND	11	
2,2-Dichloropropane	If	11	11		5.00	ND	11	
Di-isopropyl ether	16	11	11		5.00	ND	11	
Ethylbenzene	II.	11	11		5.00	ND	11	
Hexachlorobutadiene	u u	*1	11		10.0	ND		
Isopropylbenzene	ш	11	11		5.00	ND ND	11	
		**	11		5.00	ND ND	"	
p-Isopropyltoluene Methylene chloride	"	fi .	"		0.530	ND ND	11	
•			"		0.500	ND ND	11	
Methyl tert-butyl ether		tt.			8.00	ND ND	11	
Naphthalene	"	**			5.00	ND ND	и	
n-Propylbenzene			"		0.350	ND ND	н	
1,1,2,2-Tetrachloroethane			-		0.550	עמ		

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - MosineeProject:Semanko PropertySampled:7/6/00850 Hwy 153, Suite FProject Number:980273/050Received:7/11/00Mosinee, WI 54455Project Manager:John ZajakowskiReported:7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Field Blank (continued)			W00704	<u>45-06</u>			Water	G1,G15,1
Tetrachloroethene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Toluene	II.	н	11		5.00	ND	11	
1,2,3-Trichlorobenzene	II	11	"		10.0	ND	11	
1,2,4-Trichlorobenzene	11	11	11		10.0	ND		
1,1,1-Trichloroethane	H	n	11		5.00	ND	If	
1,1,2-Trichloroethane	II	и	II .		0.160	ND	II .	
Trichloroethene	II	II .	11		0.500	ND	11	
Trichlorofluoromethane	11	11	ŧi.		5.00	ND	n .	
1,2,4-Trimethylbenzene	H	11	<b>11</b>		5.00	ND	II	
1,3,5-Trimethylbenzene	II	u	(t		5.00	ND	II	
Vinyl chloride	и	**	41		0.170	ND	н	
Total Xylenes	11	11	11		5.00	ND	<b>11</b>	
Surrogate: 4-BFB (ELCD)	"	"	"	14.4-252		NR	%	
Surrogate: 4-BFB (PID)	n .	"	"	46.1-177		140	H	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee Project: Semanko Property Sampled: 7/6/00 850 Hwy 153, Suite F Project Number: 980273/050 Received: 7/11/00 Mosinee, WI 54455 Project Manager: John Zajakowski Reported: 7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
m ! D! !								
Trip Blank	0070040	<b>5</b> 4000	<u>W00704</u>	<u>15-07</u>	0.500	NTD.		<u>G1,G15,1</u>
Benzene	0070343	7/18/00	7/19/00		0.500	ND	ug/l "	
Bromobenzene	11		"		5.00	ND	11	
Bromodichloromethane		tt			0.500	ND		
n-Butylbenzene	11	If	11		5.00	ND		
sec-Butylbenzene	er .	ti .	11		5.00	ND		
tert-Butylbenzene	u	11	tt		5.00	ND	11	
Carbon tetrachloride	11	11	11		0.500	ND	<b>11</b>	
Chlorobenzene	н	ŧI	11		5.00	ND	11	
Chloroethane	11	U	и		5.00	ND	II	
Chloroform	ti	II	н		0.140	ND	II	
Chloromethane	H.	u	**		0.600	ND	и	
2-Chlorotoluene	If	"	11		5.00	ND	н	
4-Chlorotoluene	11	#1	tt		5.00	ND	11	
Dibromochloromethane	11	11	**		5.00	ND	<b>E1</b>	
1,2-Dibromo-3-chloropropane	II.	ti	H		0.390	ND	tr	
1,2-Dibromoethane	u	"	u		0.380	ND	lt.	
1,2-Dichlorobenzene	n .	tt .	II.		5.00	ND	II	
1,3-Dichlorobenzene	tr .	tt.	u		5.00	ND	II .	
1,4-Dichlorobenzene	ii .	и	п		5.00	ND	и	
Dichlorodifluoromethane	H.	п	n		5.00	ND	и	
1,1-Dichloroethane	11	II .	11		5.00	ND	ti .	
1,2-Dichloroethane	u	п	11		0.500	ND	u	
1,1-Dichloroethene	11	11	n		0.500	ND	11	
cis-1,2-Dichloroethene	11	11	11		5.00	ND	er .	
trans-1,2-Dichloroethene	ti .	11	H		5.00	ND	11	
1,2-Dichloropropane	n	n	11		0.500	ND	**	
1,3-Dichloropropane	11	11	11		5.00	ND	11	
2,2-Dichloropropane	U	u ·	11		5.00	ND	51	
Di-isopropyl ether	11	ır	n		5.00	ND	11	
Ethylbenzene	u	11	11		5.00	ND	и .:	•
Hexachlorobutadiene	II.	11	11		10.0	ND	"	
Isopropylbenzene	11		**		5.00	ND	**	
p-Isopropyltoluene	11	**	11		5.00	ND	tr	
Methylene chloride	н	ll .	f1		0.530	ND	**	
Methyl tert-butyl ether	tt	11	<b>\$1</b>		0.500	ND	11	
Naphthalene	и	11	п		8.00	ND	n	
n-Propylbenzene	ti .	u .			5.00	ND ND	tr.	
• •	и		11		0.350	ND ND	11	
1,1,2,2-Tetrachloroethane	**	•	•		0.330	מא		

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirogen - Mosinee	Project:	Semanko Property	Sampled:	7/6/00
850 Hwy 153, Suite F	Project Number:	980273/050	Received:	7/11/00
Mosinee, WI 54455	Project Manager:	John Zajakowski	Reported:	7/26/00 12:03

#### WDNR Volatile Organic Compounds by Method 8021 Great Lakes Analytical

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
Trip Blank (continued)			W0070	45-0 <u>7</u>			Water	G1,G15,1
Tetrachloroethene	0070343	7/18/00	7/19/00		0.500	ND	ug/l	
Toluene	tt	11	п		5.00	ND	11	
1,2,3-Trichlorobenzene	It	9	11		10.0	ND	и	
1,2,4-Trichlorobenzene	Ħ	II .	ti		10.0	ND	н	
1,1,1-Trichloroethane	ti .	н	If		5.00	ND	11	
1,1,2-Trichloroethane	ti .	11	н		0.160	ND	11	
Trichloroethene	It	11	11		0.500	ND	u .	
Trichlorofluoromethane	11	II	ti		5.00	ND	H	
1,2,4-Trimethylbenzene	11	II .	11		5.00	ND	11	
1,3,5-Trimethylbenzene	ti .	ш	H		5.00	ND	"	
Vinyl chloride	U	n	II		0.170	ND	н	
Total Xylenes	lf .	n	u		5.00	ND	11	
Surrogate: 4-BFB (ELCD)	"	"	"	14.4-252		NR	%	<i>O5</i>
Surrogate: 4-BFB (PID)	"	"	"	46.1-177		153	"	

Great Lakes Analytical--Oak Creek

\*Refer to end of report for text of notes and definitions.

Andrea Stathas, Project Manager

Page 16 of 24



Email: info@glalabs.com (414) 570-9460 FAX (414) 570-9461

Envirog	en - Mosinee	Project:	Semanko Property	Sampled:	7/6/00
850 Hw	/ 153, Suite F	Project Number:	980273/050	Received:	7/11/00
Mosinee	, WI 54455	Project Manager:	John Zajakowski	Reported:	7/26/00 12:03

#### **Notes and Definitions**

#	Note
Е	This result is estimated. The analysis gave a final result that is above the calibration range.
G1	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G13	The recovery of this analyte in the check standard is below the method specified acceptance criteria.
G14	The recovery of this analyte in the check standard is above the method specified acceptance criteria.
G15	The relative percent difference (RPD) of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
<b>T</b> 1	Gas Pattern
<b>T</b> 4	Gas Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference
i	This sample was analyzed by Great Lakes Analytical in Buffalo Grove, Illinois, WDNR certification # 999917160.

Great Lakes Analytical--Oak Creek

Andrea Stathas, Project Manager

Page 24 of 24



### CHAIN OF CUSTODY REPORT

1380 Busch Parkway Buffalo Grove, IL 60089-4505 (847) 808-7766 FAX (847) 808-7772

20725 Watertown Road Brookfield, WI 53501 (414) 798-1030 FAX (414) 798-1066

Client: Envirogen, Inc	Bill To:									TAT:	TAT: 5 DAY 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.												
Address: 850 Hwy 153 , Sui's									DAT	DATE RESULTS NEEDED:													
Masinee, WI 54481														TEM	PERA	ATURE	: UPC	)N RE	ECEIP	T:			
Mosinee, WI 5448/ Report to: Zaju kowski, Fax #: (*)	715)69 715)69:	<i>3-175</i> 0 3 <i>-1766</i>	State & l Program:	Wisicen PECF	δίλ <del>2</del> Α		PI   Fa	hone ax #.	* #: ( : (	·	) )			AIR	BILL	NO.							
Floject. Seman ko Property 780213	1050/	′ /		/	_	/s/	/ &												S	AMPL	F /		
Sampler: Shawn Wenzel	/	& / &	, /	MAN	\$P		NAN /		/ <sub>e</sub> /	/ /	/ /	/ /			/	/ /	/ /	/		ONTRO			
PO/Quote #: FIELD ID, LOCATION			Samor Marint Ma Marint Ma Marint Ma Ma Marint Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	PRESERVATION	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SONTAMESS SAL		3);	2			/ /	/ ,	/ ,	/	/ ,	/,			9/8 5		LABORATO	
1 GP-1	1	0950		HCI	į ė	Honl Vials		X						The second second		-						045-01	
2 GP-3	1	1/40	1	$\uparrow$	4		1														i	_oz	
3 GP-4		1245			4											***************************************						-03	
4 GP-5		1355			4																	-04	
5 GP-6	1	1450			4																-	- 05	
Eield Blank		1500			2											-						0 6	
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#### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Scott A. Humrickhouse, Regional Director West Central Region Headquarters 1300 W. Clairemont Avenue PO Box 4001 Eau Claire, Wisconsin 54702-4001 Telephone 715-839-3700 FAX 715-839-6076 TDD 715-839-2786

August 2, 2000

RECEIVED

Site ID #: 03-09-099703 Chippewa County

Ms. Violetta Semanko 407 East MD Street Cadott, WI 54727 JUL 1 6 2001 ERS DIVISION

SUBJECT:

Change in Project Manager for the Violetta Semanko Residence, 407

East MD Street, Cadott, WI

Dear Ms. Semanko:

Due to a recent reallocation of workload, Patrick Collins will now be responsible for the direct oversight of the above-referenced leaking underground storage tank site. Effective immediately, all correspondence, reports and submittals concerning the above site should be sent to the following address:

Mr. Patrick Collins Wisconsin Department of Natural Resources 990 Hillcrest, Suite 104 Baldwin, WI 54002

Unless otherwise requested, only one copy of all submittals is needed. If you have any questions or comments, please refer them to Mr. Collins at (715) 684-2914, Ext. 117.

Sincerely,

John R. Grump Hydrogeologist

Victoria Loveland - Envirogen

File



### RECEIVED

JUL 1 6 2001

**ERS DIVISION** 

850 Hwy 153, Suite F Mosinee, WI 54455

Tel: 715/693-1750 Fax: 715/693-1766 www.envirogen.com

June 21, 2000

Mr. John Grump Wisconsin Department of Natural Resources P.O. Box 4001 Eau Claire, Wisconsin 54702-4001 JUN 2 2 2000 DNR-WCR

Re: Site Investigation Work Plan for the Semanko Property Site, Cadott, Wisconsin

Envirogen Project Number: 980273 WDNR ID Number: 03-09-099703

**PECFA Claim Number: 54727-9359-07** 

Dear Mr. Grump:

Pursuant to our telephone conversation, and those you have had with Mr. Gerald Johnson, Envirogen, Inc. (Envirogen) is submitting this Site Investigation Work Plan to complete a limited site investigation at the Semanko Property, located at 407 East MD Street in Cadott, Wisconsin. The site is located in the NW1/4, NW1/4, Sec. 5, T28N, R6W, Chippewa County, as illustrated in Figure 1.

One 300-gallon underground storage tank (UST) was utilized on-site for the storage and distribution/resale of unleaded gasoline. The installation date of the tank is unknown; however, it was removed from the site on April 10, 1996. Soil contamination was observed during tank removal activities, but no samples were taken to confirm contamination existed. Therefore, a site investigation is required to be performed at the Semanko Property. Envirogen was contracted to perform a site investigation, and a site walk-over was performed on June 4, 2000. Overhead and underground utilities were observed, potential soil boring locations were noted, and a site map was generated.

Envirogen is proposing to install five Geoprobe borings in the area of the former UST. One will be placed in the former UST basin and the remaining four will surround the basin. Figure 2 illustrates the proposed boring locations. If additional borings are needed, they will be advanced outward in a radial direction from the former UST, in areas accessible with the Geoprobe rig.

Soil samples will be collected from each boring to define the lateral and vertical extent of contamination. Borings will be advanced to an approximate depth of 20 feet below land surface or depth to groundwater. Select samples will be submitted to a state-certified laboratory for analysis of petroleum volatile organic

Mr. Grump June 21, 2000 Page 2



compounds and gasoline range organics (GRO). If groundwater is encountered, groundwater samples will be collected and submitted to a state-certified laboratory for analysis of volatile organic compounds and GRO. If, upon review of the groundwater analytical results, site conditions warrant installation of groundwater monitoring wells, Envirogen will obtain bids from contractors and, at a later date, install the necessary wells for definition of potential groundwater contamination. Once all the necessary data have been obtained and reviewed, Envirogen will provide recommendations for future work at the site, if necessary, or recommend case closure.

Envirogen is currently obtaining bids to perform the Geoprobe investigation. Once the bids are received, the work will be scheduled. Envirogen anticipates the soil borings will be advanced in late June or early July 2000.

If you have any questions regarding the site or require additional information, please do not hesitate to contact me at (715) 693-1750.

Sincerely,

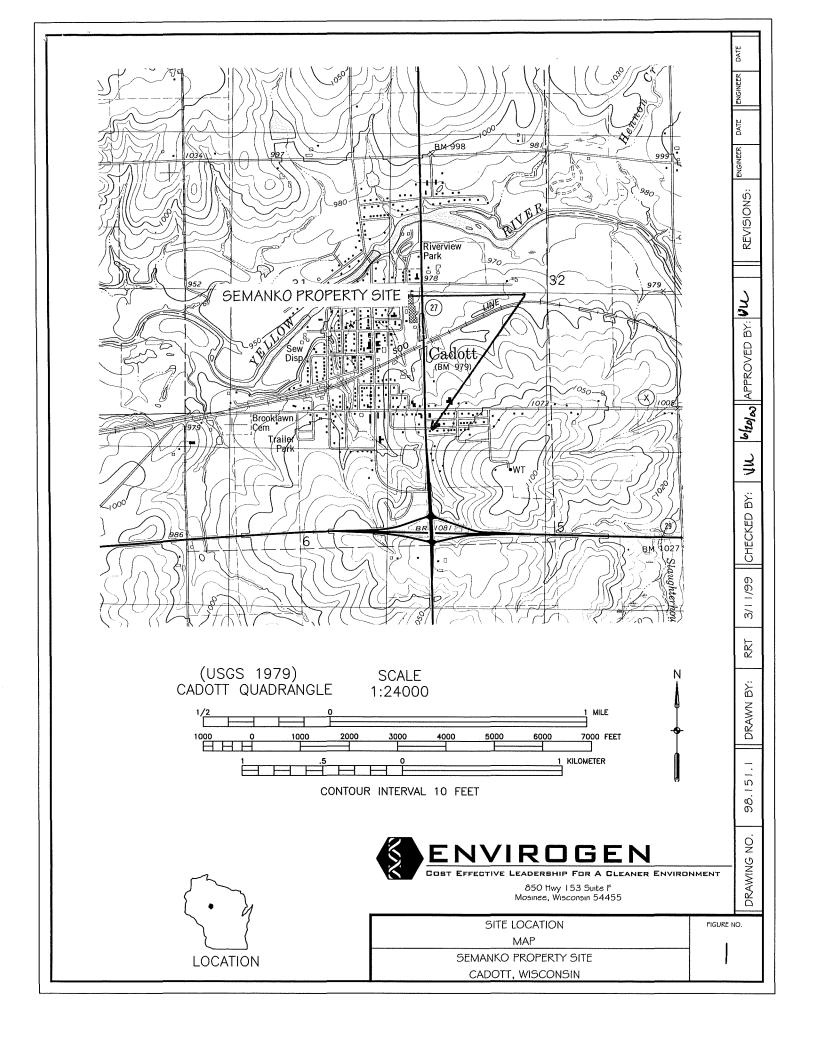
ENVIROGEN, INC.

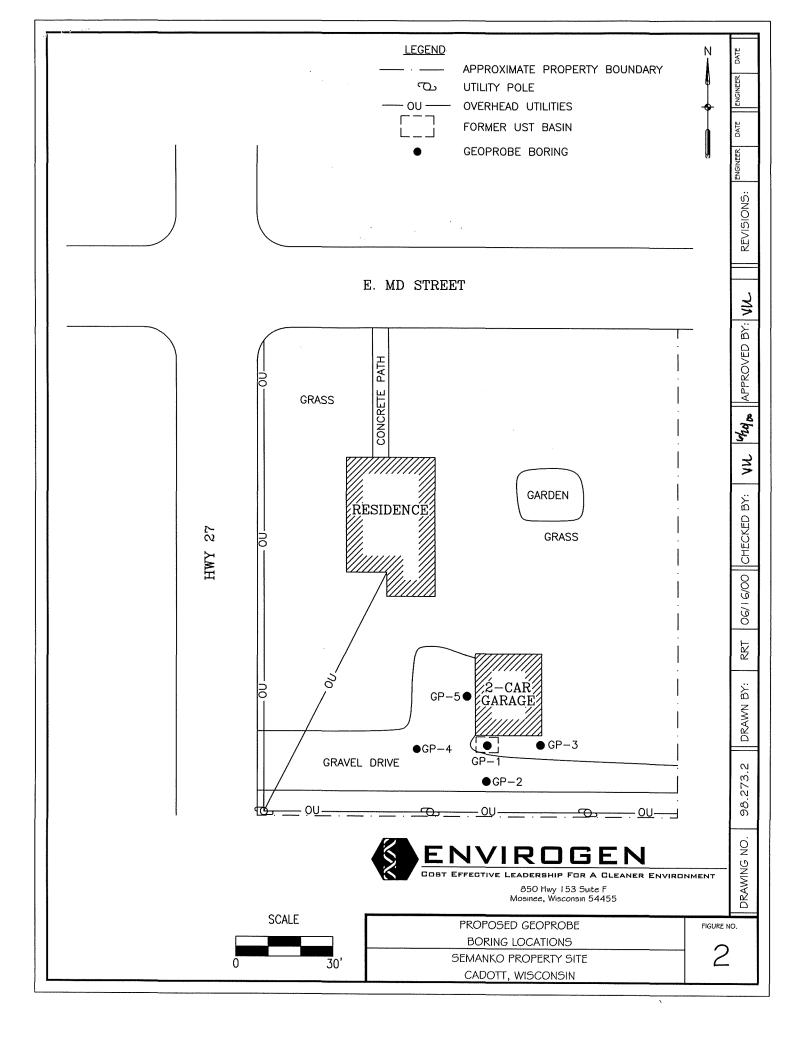
Victorial Lovelan

Victoria L. Loveland

Senior Geological Engineer/Hydrogeologist

cc(w/enc): Mrs. Violetta Semanko, 407 East MD Street, Cadott, WI 54727





# TELEPHONE LOG

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JUL 1 6 2001

7-7:15-DATE/TIME: 5/6/46 ERS DIVISION

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#### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor George E. Meyer, Secretary Donald R. Winter, District Director Western District Headquarters 1300 W. Clairemont Avenue PO Box 4001 Eau Claire, WI 54702-4001 TELEPHONE 715-839-3700 FAX 715-839-6076/1605 TTY 715-839-2786

File Ref: 4440

April 18, 1996

JUL 1 6 2001

**ERS DIVISION** 

03-09-099703

Ms. Violetta Semanko 407 E. MD Street Cadott, WI 54727

SUBJECT:

Soil Contamination at the Violetta Semanko Residence

Located at 407 E. MD Street, Cadott, WI

Dear Ms. Semanko:

The Department of Natural Resources has been notified that petroleum contamination was discovered during a tank closure site assessment at the above location. The purpose of this letter is threefold: 1. to inform you of your legal responsibilities under State Law; 2. to inform you of what you must do to investigate and clean up the contamination; 3. to provide you with information about environmental cleanups, the Department of Natural Resources and the state funded cleanup program (PECFA).

#### Legal Responsibilities:

The Hazardous Substances Spills Law, section 144.76(3), Wisconsin Statute, states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a 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.

Because a hazardous substance is contaminating the soil, and possibly the groundwater, you are responsible for restoring the environment. This will include investigating the nature and extent of soil and groundwater contamination. Then you must clean up the contaminated soils and groundwater.



#### **Required Actions:**

Because petroleum contamination may spread in the environment, your quick response is important. Quick action may lessen damage to your property and reduce your costs of investigating and cleaning up the contamination. It is important for you to keep us informed of the actions you plan to take. We have established this time frame to help you start and keep the cleanup process moving:

- 1. Within 30 days of receiving this letter, you must hire an environmental consultant and have them submit written verification to this office that they have been hired to address this problem.
- 2. Within 60 days of receiving this letter, your consultant must submit a work plan and timetable for conducting the investigation. NR 716, Wisconsin Administrative Code, contains these work plan requirements.

Because of the number of sites which I oversee, I will not be able to review each plan and report at every stage in your investigation and cleanup. You still need to conduct the investigation and cleanup in a timely fashion. Your consultant can provide you with guidance on how to meet Wisconsin's cleanup requirements.

#### The Cleanup Process, the DNR, and PECFA:

The DNR regulates the cleanup of petroleum contamination. Before your site can be cleaned up, an investigation must first be conducted to characterize the contamination and determine its extent. This is called the "site investigation." The next steps are cleanup design and the actual cleanup, which is sometimes referred to as "remediation" or "remedial action."

The Department of Industry, Labor, and Human Relations (DILHR) administers the Petroleum Environmental Cleanup Fund (PECFA). This fund may reimburse you for eligible costs associated with the remedial investigation and cleanup. Please contact DILHR at (608) 267-3753 for current information about this program and whether your facility is eligible for reimbursements.

A handout on how to choose an environmental consultant is enclosed. The PECFA program now requires that you solicit and review at least three proposals from different consultants before you choose the one that best fits your needs. The consultant you choose must be registered with DILHR. Please call DILHR at

(608) 266-2424 with questions on PECFA-registered consultants. Please give a copy of this letter to the consultants you contact.

Section 144.765, Wisconsin Statutes, establishes the Contaminated Lands Recycling Program. If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713 in the Department of Natural Resources' Madison office for more information. The liability exemption under s. 144.765, Stats., is available to persons who meet the definition of "purchaser" in s. 144.765(1)(c) and receive Department approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "purchaser" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

If you have any questions about this letter or your responsibilities, please call me at (715) 839-3775. Thank you for your cooperation.

Sincerely,

John R. Grump Hydrogeologist

**Enclosure** 

JRG/ah

c: Bill Evans - WD
John Paddock - WD
Darrell Christy - DILHR

Activity Detail Report - Case Tracking

Activity Number: 03-09-099703 VPLE: Gen Prop: Activity Type: LUST Activity Name: SEMANKO VIOLETTA RESIDENCE

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**ERS DIVISION** 

Location Name: SEMANKO, VIOLETTA

Region: West Central Region

County: Chippewa

FID: 609111580

Location Address: 407 E MD STREET

Start Date: 04/10/1996

EPA ID:

End Date: OPEN

Municipality: CADOTT

Project Manager: JOHN GRUMP

Legal Description: None Found

Priority: Unknown

Latitude: None Found

Score:

Longitude: None Found

LUST Trust Eligible: FEDERAL

Co-Contamination:

Transferred DCom:

Pecfa Eligible:

Tracked by DCom:

Pecfa 80k:

Pecfa 80k Failure:

Who:

Contact Type: RESPONSIBLE PARTY

Phone: (715) 289-4612

Ext:

Name: VIOLETTA SEMANKO

Title:

Fax: E-Mail:

Company:

Address: 407 E MD ST

CADOTT, WI 54727

Impacts:

Soil Contamination

Risk:

Unknown Risk

Assigned: 12/01/1999

Substances: Unleaded Gas

Comment: ONE 300 GAL

Actions:

Notification

04/10/1996

RP Letter Sent

04/18/1996

Violetta is on a pension. No money to do investigation. Enviragen is justing up bond to do work and StaFA will wrive deductible with a deed instrument (lien).

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146 Rev. 2-93

UID Number: FID Number: 60	9/11/580 PMN Number:
County: Chippewa	Initial Contact Date: 04, 10,9L
Site Name: Violetta Semanko Kesidence	Date RPLetter Sent: 64, 18, 9L
Address: 407 E. MD Street	Date Closure Approved:/
Cadott, WI 54727	
Municipality:	Person/Firm Reporting:
Legal Descript.:1/41/4 secTN R(E/W)	
Lat.: Long.:	Phone Number: (715) 723-56-07
Priority Screening	TF
Case Status	
St	art Date End Date
(F) Free Product Removal (E) RP Emergency Response (R) LTF Emergency Response (L) Long Term Monitoring	
Responsible Party	Impacts
Contact Person: Violetta Seman Ko	Enter "P" for potential and "K" for known
Company Name: Residence	(1) Fire/Explosion Threat
Address: 407 E. MD Street	(2) Contaminated Private Well(s) # of Wells
Cadoth, WI 54727	(3) Contaminated Public Well
Phone Number: (7/5) 289 - 4412	(4) Groundwater Contamination
CC's (A) (A) (A)	
Are Huddone NOD	(6) Other:
- Warrell Okristy - DILINE	(7) Surface Water Impacts
	(9) Floating Product
Consultant	Substances #Tank(s) Size
Contact Name:	(1) Leaded Gas
Company Name::	—————————————————————————————————————
Address:	— (4) Fuel Oil — — —
	(5) Unkwn Hydrocrbn (8) Other
Telephone: ( )	(12) Waste Oil

REMARKS:	,					
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