



Meridian Environmental Consulting, LLC

June 18, 2018

Carrie Stoltz
Department of Natural Resources
107 Sutliff Avenue
Rhineland, Wisconsin

Subject: **Change Order: Abandon MW-900 and MW-100 (Dairy Queen)**

Autostop (former)
119 W. 9th Street North
Ladymith, Wisconsin 54848
BRRTS No. 03-55-282548
PECFA No. 54848-1295-19
Meridian No. 05F630

Doug's Tire (former)
811 Lake Ave W.
Ladysmith, Wisconsin 54848
BRRTS No. 03-55-000408
PECFA No. 54848-1215-11
Meridian No. 05F786

Scope of Work:

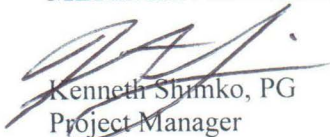
The Dairy Queen property (located immediately east of the Autostop property) is being renovated this summer. This includes razing the building and removing/regrading the parking lot.

There are two monitoring wells located on the Dairy Queen property: MW-100 (Doug's) and MW-900. The wells will be destroyed during the planned work.

We recommend the monitoring wells be sampled during a routine SVE System maintenance trip in July. If the results are similar to past sampling events (historically "clean"), the wells should be abandoned during the August SVE System maintenance trip.

A Cost Estimate for the proposed work is included with this Change Order. The costs for this work will be applied to the Autostop/Doug's combined remediation program under the current cost-sharing.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC


Kenneth Shimko, PG
Project Manager

RR-092a

PECFA #: 54818-1295-19/-1215-11
BRTS #: 03-55-282548/-000408
Site Name: Autostop/Doug's
Site Address: Ladysmith

Vendor Name: Change Order
 Invoice #: Change Order
 Invoice Date: June 18, 2018
 Check #: Change Order

U&C Total	\$	1,522.12
Variance to U&C Total	\$	-
Grand Total	\$	1,522.12

[illegible]

Usual and Customary Standardized Invoice #23

January 2018- July 2018



RR-092A

TOTAL LAB CHARGES \$ 60.70 TASK 33 2 \$ 60.70 TASK 24 0 \$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 44.94		\$ -			
AIR	A2	BETX	SAMPLE	\$ 49.46		\$ -			
AIR	A3	GRO	SAMPLE	\$ 46.10		\$ -			
AIR	A4	VOC's	SAMPLE	\$ 71.93		\$ -			
WATER	W1	GRO/PVOC	SAMPLE	\$ 29.19		\$ -			
WATER	W2	PVOC	SAMPLE	\$ 26.99		\$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 43.79		\$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 30.35	2	\$ 60.70			
WATER	W5	VOC	SAMPLE	\$ 71.93		\$ -			
WATER	W6	PAH	SAMPLE	\$ 72.98		\$ -			
WATER	W7	Lead	SAMPLE	\$ 12.39		\$ -			
WATER	W8	Cadmium	SAMPLE	\$ 13.55		\$ -			
WATER	W9	Hardness	SAMPLE	\$ 12.39		\$ -			
WATER	W10	BOD, Total	SAMPLE	\$ 23.63		\$ -			
WATER	W11	Nitrate	SAMPLE	\$ 11.24		\$ -			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
WATER	W13	Ammonia	SAMPLE	\$ 16.91		\$ -			
WATER	W14	Sulfate	SAMPLE	\$ 10.19		\$ -			
WATER	W15	Iron	SAMPLE	\$ 10.19		\$ -			
WATER	W16	Manganese	SAMPLE	\$ 10.19		\$ -			
WATER	W17	Alkalinity	SAMPLE	\$ 10.19		\$ -			
WATER	W18	methane	SAMPLE	\$ 46.10		\$ -			
WATER	W19	Phosphorous	SAMPLE	\$ 18.06		\$ -			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 176.30		\$ -			
WATER	W21	EDB Method 504	SAMPLE	\$ 95.45		\$ -			
SOILS	S1	GRO	SAMPLE	\$ 24.78		\$ -	\$ 24.78		\$ -
SOILS	S2	DRO	SAMPLE	\$ 30.35		\$ -	\$ 30.35		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.14		\$ -	\$ 28.14		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 25.83		\$ -	\$ 25.83		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 49.46		\$ -	\$ 49.46		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 36.02		\$ -	\$ 36.02		\$ -
SOILS	S7	VOC	SAMPLE	\$ 71.93		\$ -	\$ 71.93		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 50.61		\$ -	\$ 50.61		\$ -
SOILS	S9	PAH	SAMPLE	\$ 72.98		\$ -	\$ 72.98		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.39		\$ -	\$ 12.39		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -			
SOILS	S12	Free Liquid	SAMPLE	\$ 11.24		\$ -			
SOILS	S13	Flash Point	SAMPLE	\$ 25.83		\$ -			
SOILS	S14	Grain Size - dry	SAMPLE	\$ 42.74		\$ -			
SOILS	S15	Grain Size - wet	SAMPLE	\$ 57.33		\$ -			
SOILS	S16	Bulk Density	SAMPLE	\$ 13.55		\$ -			
SOILS	S17	Permeability	SAMPLE	\$ 41.58		\$ -			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 16.91		\$ -			
SOILS	S20	% Organic Matter	SAMPLE	\$ 29.19		\$ -			
SOILS	S21	TOC as NPOC	SAMPLE	\$ 57.33		\$ -			
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 6.83		\$ -			
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 25.83		\$ -			
SOILS	S24	% Total Solids	SAMPLE	\$ 6.83		\$ -			
SOILS	S25	Field Capacity	SAMPLE	\$ 28.14		\$ -			
SOILS	S26	TCLP Lead	SAMPLE	\$ 83.16		\$ -			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 26.99		\$ -			
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 83.16		\$ -			
SOILS	S29	TCLP Benzene	SAMPLE	\$ 83.16		\$ -			
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$ 561.33		\$ -			
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air [dyne/cm])							

TASK 33 TOTAL \$ 60.70

TASK 24 TOTAL \$ -

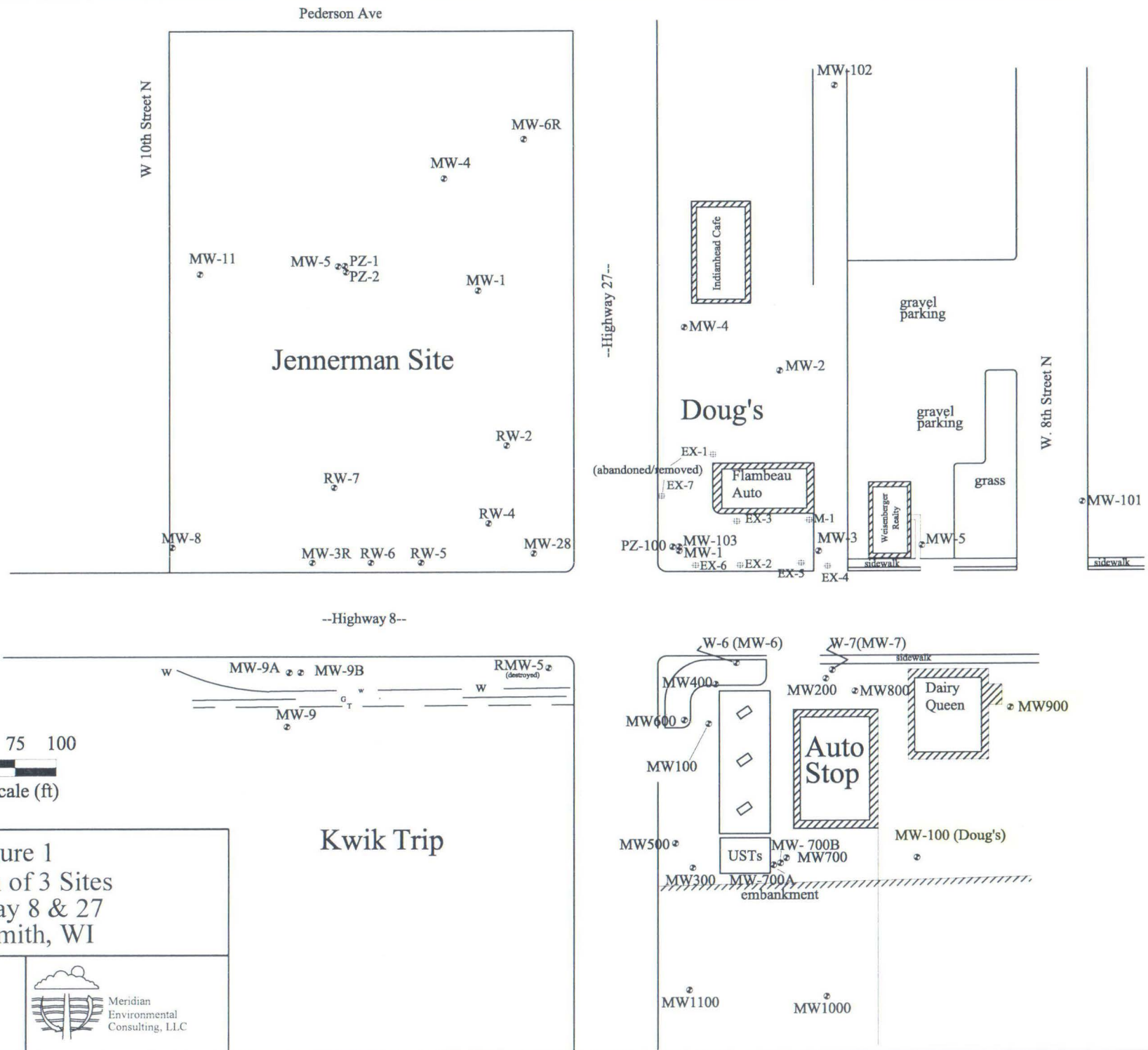


Figure 1
Diagram of 3 Sites
Highway 8 & 27
Ladysmith, WI

PROJECT NO.
05F630
DATE
11/15/17



Meridian
Environmental
Consulting, LLC

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

City/Project Name <u>Long's Auto Center</u>		Local Grid Location of Well ft. ☐ N. ☐ E. ☐ S. ☐ W.		Well Name <u>NW-100</u>	
City License, Permit or Monitoring No.		Local Grid Origin ☐ (estimated: ☐) or Well Location ☐		Wis. Unique Well No. <u>PC-554</u> DNR Well ID No.	
City ID		Lat. _____ Long. _____ or _____		Date Well Installed <u>06/26/2001</u>	
Type of Well		St. Plane _____ ft. N. _____ ft. E. S/C/N		Well Installed By: Name (first, last) and Firm <u>SHAWN ABEL</u> <u>BOART-Longyear</u>	
Well Code <u>1</u>		Section Location of Waste/Source <u>SW 1/4 of SA 1/4 of Sec. 38, T. 35 N, R. 6 E W</u>			
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known		Gov. Lot Number _____	
Enf. Stds. Apply ☐					

Protective pipe, top elevation _____ ft. MSL Well casing, top elevation _____ ft. MSL Ground surface elevation _____ ft. MSL Surface seal, bottom _____ ft. MSL or _____ ft. USCS classification of soil near screens: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☐ Sieve analysis performed? ☐ Yes ☐ No Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☐ 41 Other ☐ Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☐ 99 Drilling additives used? ☐ Yes ☐ No Describe _____ Source of water (attach analysis, if required): _____ Bentonite seal, top _____ ft. MSL or <u>1.0</u> ft. Sand, top _____ ft. MSL or <u>1.5</u> ft. Filter pack, top _____ ft. MSL or <u>11.5</u> ft. Screen joint, top _____ ft. MSL or <u>13.5</u> ft. Screen bottom _____ ft. MSL or <u>28.5</u> ft. Filter pack, bottom _____ ft. MSL or <u>28.5</u> ft. Screen hole, bottom _____ ft. MSL or <u>28.5</u> ft. Screen hole, diameter <u>6.1/4</u> in. O.D. well casing <u>2.40</u> in. I.D. well casing <u>2.06</u> in.		1. Cap and lock? ☒ Yes ☐ No 2. Protective cover pipe: a. Inside diameter: <u>2.0</u> in. b. Length: <u>1.0</u> ft. c. Material: Steel ☒ 04 Other ☐ d. Additional protection? ☐ Yes ☐ No If yes, describe: _____ 3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐ 4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ 5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31 d. _____ % Bentonite ... Bentonite-cement grout ☐ 50 e. <u>2.98</u> Ft ³ volume added for any of the above f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08 6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32 c. _____ Other ☐ 7. Fine sand material: Manufacturer, product name & mesh size _____ b. Volume added <u>0.70</u> ft ³ 8. Filter pack material: Manufacturer, product name & mesh size _____ b. Volume added <u>5.95</u> ft ³ 9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ 10. Screen material: a. Screen types: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: <u>150</u> ft. 11. Backfill material (below filter pack): None ☐ 14 Other ☐
---	--	--

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

 By: Shawn Abel Firm: Boart-Longyear, Inc.

Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name LADYSMITH AUTO STOP	Local Grid Location of Well ft. ☐ N. ☐ S. ☐ E. ☐ W.	Well Name MW-900
Facility License, Permit or Monitoring No.	Local Grid Origin ☒ (estimated: ☐) or Well Location ☐ Lat. _____ Long. _____ or _____	Wis. Unique Well No. _____ DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N _____	Date Well Installed <u>10</u> / <u>15</u> / <u>2</u> m m d d y y y y
Type of Well Well Code <u>11</u> / mw	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ ☐ E ☐ W	Well Installed By: Name (first, last) and Firm JONES BEAUFORD
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number _____
Enf. Stds. Apply ☐	GILES ENGINEERING ASSOC. INC.	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: <u>1</u> ft. c. Material: Steel ☒ 04 Other ☐
C. Land surface elevation _____ ft. MSL	d. Additional protection? ☒ Yes ☐ No If yes, describe: EXPANDABLE CAP
D. Surface seal, bottom _____ ft. MSL or _____ ft.	3. Surface seal: Bentonite ☐ 30 Concrete ☐ 01 Other ☒
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☐	4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐
13. Sieve analysis performed? ☐ Yes ☒ No	5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31 d. _____ % Bentonite Bentonite-cement grout ☐ 50 e. <u>400</u> volume added for any of the above f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☐ 08
14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32 c. _____ Other ☐
15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>45-55 RED FLINT</u> b. Volume added <u>50</u>
16. Drilling additives used? ☐ Yes ☒ No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>30 RED FLINT AMERICAN MATERIALS</u> b. Volume added <u>550</u>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐
E. Bentonite seal, top _____ ft. MSL or <u>1</u> ft.	10. Screen material: PVC a. Screen type: Factory cut ☐ 11 Continuous slot ☐ 01 Other ☒
F. Fine sand, top _____ ft. MSL or <u>19</u> ft.	b. Manufacturer <u>TIMCO</u> c. Slot size: _____ in. d. Slotted length: <u>15</u> ft.
G. Filter pack, top _____ ft. MSL or <u>20</u> ft.	11. Backfill material (below filter pack): None ☒ 14 Other ☐
H. Screen joint, top _____ ft. MSL or <u>22</u> ft.	
I. Well bottom _____ ft. MSL or <u>37</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>37</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>37</u> ft.	
L. Borehole, diameter <u>8.25</u> in.	
M. O.D. well casing <u>2.35</u> in.	
N. I.D. well casing <u>2</u> in.	

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

Signature Timothy LaFollette

Firm
GILES ENGINEERING ASSOC. INC.

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, 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 sent.