

From: Halbur, Kathy <halbur.kathy@epa.gov>
Sent: Friday, October 9, 2015 8:34 AM
To: Beggs, Tauren R - DNR; Warren Hohn
Subject: Aniwa Wells
Attachments: CCE10082015_0002.pdf

FYI...
kch

From: Ginger Belgram [<mailto:geissinc@hughes.net>]
Sent: Thursday, October 08, 2015 10:05 AM
To: Mark Douglas
Subject: <No Subject>

Here are the well construction forms for the two wells in Aniwa.

Thanks☺

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Facility/Project Name Anima Arsenic Site		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location Lat. " Long. " or St. Plane ft. N. ft. E. S/C/N		Wis. Unique Well No. DNR Well ID No.	
Facility ID		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W		Date Well Installed 09, 21, 2015 m m d d y y y y	
Type of Well Well Code 11, MW		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: Name (first, last) and Firm Darrin Prentice Geiss Soil + Samples LLC	
Distance from Waste/Source ft.		Gov. Lot Number			

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	ft. MSL	a. Inside diameter:	4 in.
D. Surface seal, bottom	ft. MSL or 0 ft.	b. Length:	5 ft.
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		c. Material:	Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
13. Sieve analysis performed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
14. Drilling method used:	Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
17. Source of water (attach analysis, if required): Describe _____		6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
E. Bentonite seal, top	ft. MSL or 0 ft.	7. Fine sand material: Manufacturer, product name & mesh size	
F. Fine sand, top	ft. MSL or 4 ft.	a. #15 Red Flint	
G. Filter pack, top	ft. MSL or 5 ft.	b. Volume added _____ ft ³	
H. Screen joint, top	ft. MSL or 7 ft.	8. Filter pack material: Manufacturer, product name & mesh size	
I. Well bottom	ft. MSL or 17 ft.	a. #40 Red Flint	
J. Filter pack, bottom	ft. MSL or 18 ft.	b. Volume added _____ ft ³	
K. Borehole, bottom	ft. MSL or 18 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>	
L. Borehole, diameter	8.25 in.	10. Screen material: PVC	
M. O.D. well casing	2.40 in.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>	
N. I.D. well casing	2.06 in.	b. Manufacturer Johnson	
		c. Slot size: 0.010 in.	
		d. Slotted length: 1.0 ft.	
		11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>	

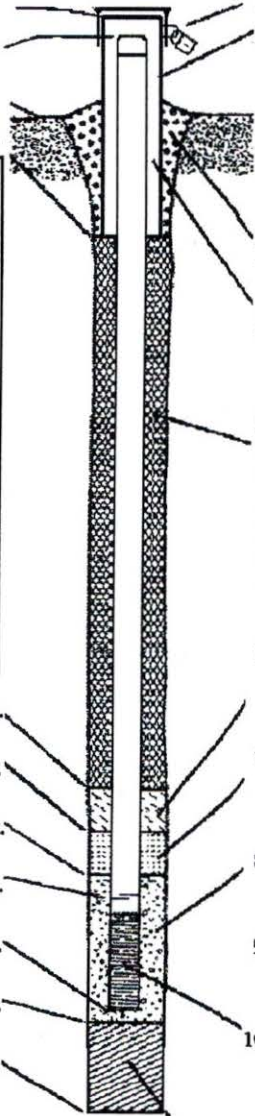
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature **Darrin Prentice** Firm **Geiss Soil + Samples LLC**

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.

Facility/Project Name <u>Amwa Arsenic Site</u>		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated) or Well Location		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane ft. N. ft. E. S/C/N		Date Well Installed <u>09,21,2015</u> m m d d y y y y	
Type of Well Well Code <u>11, MW</u>		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm <u>Darrin Prentice</u> <u>Geiss Soil + Samples LLC</u>	
Distance from Waste/Source ft.		Enf. Stds. Apply <input type="checkbox"/>		Gov. Lot Number	
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known					

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	ft. MSL	a. Inside diameter:	<u>4</u> in.
D. Surface seal, bottom	ft. MSL or <u>0</u> ft.	b. Length:	<u>5</u> ft.
		c. Material:	Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
		d. Additional protection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		If yes, describe:	
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		3. Surface seal:	Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
13. Sieve analysis performed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe:	Bentonite <input checked="" type="checkbox"/> 3.0 Other <input type="checkbox"/>
14. Drilling method used:	Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/>	5. Annular space seal:	a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3.3 b. Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3.5 c. Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 3.1 d. % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5.0 e. Ft ³ volume added for any of the above
15. Drilling fluid used: Water <input type="checkbox"/> 0.2 Air <input type="checkbox"/> 0.1 Drilling Mud <input type="checkbox"/> 0.3 None <input checked="" type="checkbox"/> 9.9		f. How installed:	Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
16. Drilling additives used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Bentonite seal:	a. Bentonite granules <input type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3.2 c. Other <input type="checkbox"/>
Describe		7. Fine sand material: Manufacturer, product name & mesh size	a. <u>#15 Red Flint</u>
17. Source of water (attach analysis, if required):		b. Volume added	ft ³
		8. Filter pack material: Manufacturer, product name & mesh size	a. <u>#40 Red Flint</u>
		b. Volume added	ft ³
E. Bentonite seal, top	ft. MSL or <u>0</u> ft.	9. Well casing:	Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2.4 Other <input type="checkbox"/>
F. Fine sand, top	ft. MSL or <u>5</u> ft.	10. Screen material:	a. Screen type:
G. Filter pack, top	ft. MSL or <u>7</u> ft.		Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
H. Screen joint, top	ft. MSL or <u>9</u> ft.	b. Manufacturer	<u>Johnson</u>
I. Well bottom	ft. MSL or <u>19</u> ft.	c. Slot size:	<u>0.010</u> in.
J. Filter pack, bottom	ft. MSL or <u>20</u> ft.	d. Slotted length:	<u>10</u> ft.
K. Borehole, bottom	ft. MSL or <u>20</u> ft.	11. Backfill material (below filter pack):	None <input type="checkbox"/> 1.4 Other <input checked="" type="checkbox"/>
L. Borehole, diameter	<u>8.25</u> in.		
M. O.D. well casing	<u>2.40</u> in.		
N. I.D. well casing	<u>2.06</u> in.		



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

Signature Darrin Prentice Firm Geiss Soil & Samples LLC

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