

APPENDIX I

MONITORING WELL INFORMATION

August 2000 Monitoring Well Logs (2014 FR)

2003 Monitoring Well Information (2014 FR)

Abandonment Logs (2014 FR)

Additional Well Construction Information (2014 FR)

Additional Monitoring Well Construction and Abandonment Information

December 2018 Monitoring Well Construction and Development Logs and Well Information Form (WIF)

August 2000 Monitoring Well Logs
(From 2014 FR)

Facility Name: Eau Claire 7-Mile S.L. Facility ID Number: Date: June 1986 Completed By (Name and Firm): Ayres Associates

Well Name	Well ID Number (DNR No.)	Well Location	N	S	E	W	Date Established	Well Casing		Elevations			Reference		Screen		Type of Well (✓)						
								Diam.	Type	Top of Well Casing	Ground Surface	Screen Top	MSL (✓)	Site Datum (✓)	Length	Material	Well Depth	PIEZO	W	PW	LYS	Other	
20		17+00	X				4-17-85	2"	PVC	913.40	910.60	881.3	X		15'-0"	PVC	44.3'		X				
		21+60			X																		
20A		17+00	X				4-22-85	2"	PVC	913.23	910.60	858.60	X		3'-0"	PVC	55'				X		
		21+55			X																		
21		9+50	X				9-03-85	2"	PVC	906.08	904.10	853.6	X		15'-0"	PVC	65.5'		X				
		4+65				X																	
21A		9+47	X				9-04-85	2"	PVC	906.13	904.10	824.10	X		5'-0"	PVC	85'					X	
		4+68				X																	
22		22+00	X				4-16-85	2"	PVC	902.19	899.50	860.70	X		15'-0"	PVC	53.8'		X				
		3+00			X																		
22A		21+92	X				4-30-85	2"	PVC	901.93	899.50	832.5	X		3'-0"	PVC	70.0'					X	
		3+00			X																		
22B		21+95	X				4-29-85	2"	PVC	901.95	899.5	807.5	X		3'-0"	PVC	95'					X	
		3+05			X																		
23		24+01	X				4-16-86	2"	PVC	914.77	912.20	876.20	X		15'-0"	PVC	51'		X				
		15+40			X																		
23A		23+93	X				5-01-85	2"	PVC	915.18	912.20	841.20	X		3'-0"	PVC	74'					X	
		15+44			X																		
23B		21+95	X				5-02-85	2"	PVC	915.03	912.20	820.70	X		3'-0"	PVC	94.5'					X	
		15+32			X																		
23C		23+94	X				4-30-85	2"	PVC	914.97	912.20	902.20	X		10'-0"	PVC	20'					X	
		15+39			X																		

Location Coordinates Are:

Grid System State Plane Coordinate

Northern

Central

Received In:

District: _____ Area: _____ Bureau: _____

By: _____

SMS Use:

File Maint. Completed: _____ Date: _____

Other: _____

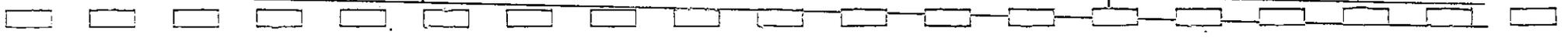
Facility Name: Eau Claire 7-Mile S.L. Facility ID Number: _____ Date: June 1986 Completed By (Name and Firm): Ayres Associates

Well Name	Well ID Number (DNR No.)	Well Location	N	S	E	W	Date Established	Well Casing		Elevations			Reference		Screen		Type of Well (✓)					
								Diam.	Type	Top of Well Casing	Ground Surface	Screen Top	MSL (✓)	Site Datum (✓)	Length	Material	Well Depth	PIEZO	W	PW	LYS	Other
24		26+50	X				4-16-85	2"	PVC	923.65	920.60	882.60	X		15'-0"	PVC	53'	X				
		21+80		X																		
25		8+75	X				8-21-85	2"	PVC	899.63	897.6	870.60	X		15'-0"	PVC	42'	X				
		21+54		X																		
26		11+06	X				8-22-85	2"	PVC	894.83	892.80	863.80	X		15'-0"	PVC	44'	X				
		10+30		X																		
27		0+15	X				8-13-85	2"	PVC	897.70	895.50	866.50	X		15'-0"	PVC	44'	X				
		9+21		X																		
27A		0+15	X				8-15-85	2"	PVC	897.22	895.20	834.20	X		3'-0"	PVC	64'		X			
		9+21		X																		
28		10+47	X				8-21-85	2"	PVC	895.09	893.19	865.2	X		15'-0"	PVC	42.9'	X				
		16+95		X																		
29		0+00	X				2-26-86	2"	PVC	910.01	907.90	865.90	X		15'-0"	PVC	57'	X				
		15+00		X																		
30		1+00	X				2-26-86	2"	PVC	911.94	909.60	866.30	X		15'-0"	PVC	58.3'	X				
		21+40		X																		
31		5+50	X				2-27-86	2"	PVC	909.05	906.60	861.60	X		15'-0"	PVC	60'	X				
		16+00		X																		

Location Coordinates Are:
 Grid System State Plane Coordinate
 Northern
 Central

Received In:
 District: _____ Area: _____ Bureau: _____
 By: _____

SMS Use:
 File Maint. Completed: _____ Date: _____
 Other: _____



Facility Name		Facility ID Number		Date		Completed By (Name and Firm)																		
Eau Claire County Landfill		2821		10/24/88		T. J. Pascoe, Ayres Associates																		
Well Name	Well ID Number (DNR No.)	Well Location	N	S	E	W	Date Established	Well Casing		Elevations		Reference		Screen		Type of Well (✓)								
								Diam.	Type	Top of Well Casing	Ground Surface	Screen Top	MBL (✓)	Site Datum (✓)	Length	Material	Well Depth	PIEZ	OW	PW	LVS	Other		
* GP-1		14+40	X				10/6/88	2"	PVC	912.60	910.5	907.5	X		27'	PVC	30'							Gas Prob.
		21+65		X																				
* GP-2		21+05	X				10/6/88	2"	PVC	907.53	905.5	902.5	X		27'	PVC	30'							Gas Prob.
		21+75		X																				
* GP-3		27+10	X				10/6/88	2"	PVC	925.33	923.5	920.5	X		27'	PVC	30'							Gas Prob.
		21+85		X																				
MW-32		13+97	X				9/27/88	2"	PVC	901.22	898.9	877.6	X		15'	PVC	38.6'		X					
		17+50		X																				
MW-33		13+73	X				9/28/88	2"	PVC	899.63	897.9	870.8	X		15'	PVC	43.8'		X					
		14+00		X																				
MW-33A		13+73	X				9/29/88	2"	PVC	899.55	897.9	837.7	X		5'	PVC	66.9'	X						
		14+00		X																				
MW-34		13+49	X				9/30/88	2"	PVC	897.45	895.3	866.0	X		15'	PVC	46.5'		X					
		10+50		X																				
MW-35		14+20	X				10/3/88	2"	PVC	900.53	898.3	858.5	X		15'	PVC	57.0'		X					
		7+00		X																				
MW-35A		14+20	X				10/4/88	2"	PVC	900.32	898.3	821.2	X		5'	PVC	84.1'	X						
		7+00		X																				
MW-36		14+67	X				10/4/88	2"	PVC	902.35	899.9	856.2	X		15'	PVC	61.2'		X					
		4+00		X																				
MW-38		6+00	X				10/5/88	2"	PVC	905.43	903.6	853.7	X		15'	PVC	66.7'		X					
		12+00		X																				

Location Coordinates Are:

Grid System State Plane Coordinate

Northern

Central

Received In:

District: _____ Area: _____ Bureau: _____

By: _____

BMS Use:

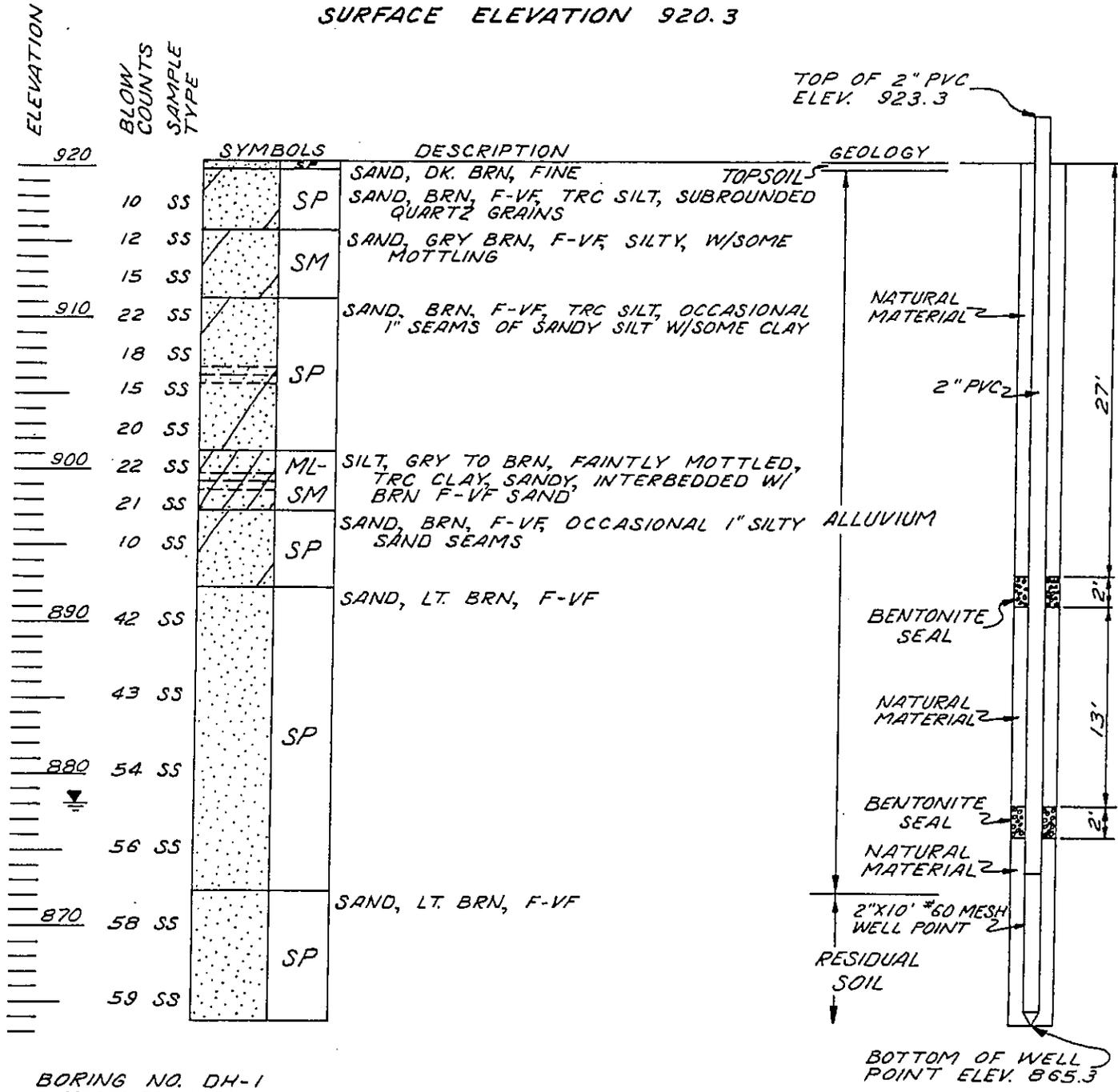
File Maint. Completed: _____ Date _____

Other: _____

Utilize 1/4" Drawings PVC for Casing

BORING NO. DH-1

SURFACE ELEVATION 920.3



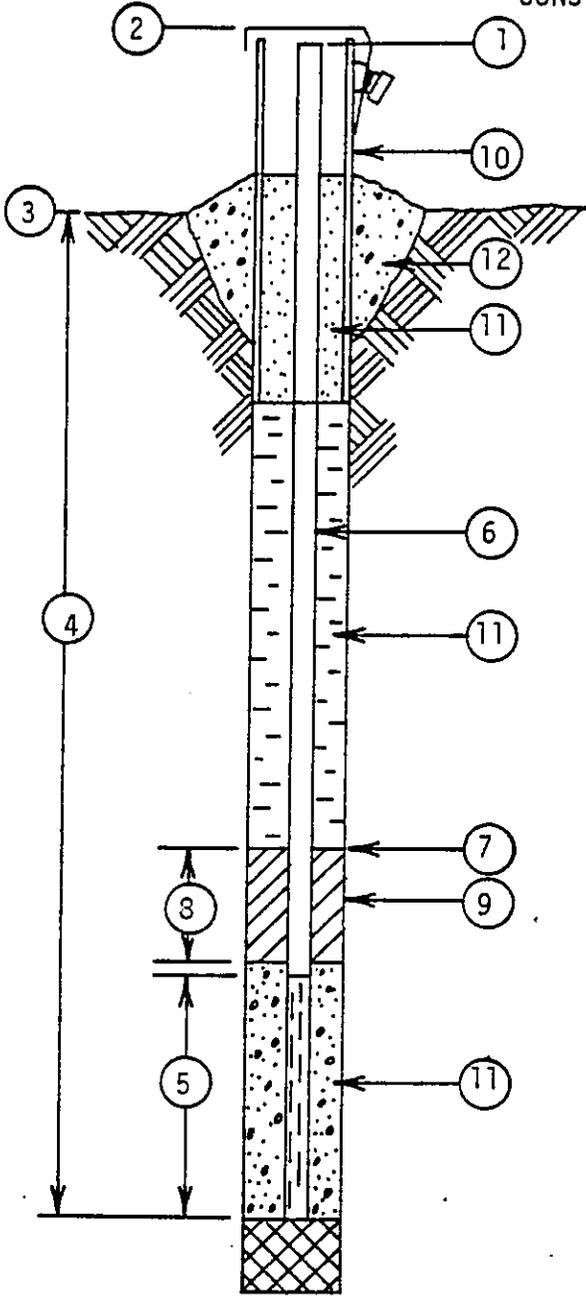
BORING NO. DH-1
 STARTED 1-21-76
 COMPLETED 1-21-76
 3/4" HSA TO 55.0'

LEGEND
 SS STEEL SPLIT SPOON SAMPLER
 WATER LEVEL

SCALE: 1" = 10'-0"

GRAPHICAL LOG OF BORING
 PROPOSED EAU CLAIRE LANDFILL
 TOWN OF SEYMOUR, WISCONSIN
 DATE: 1-30-76
 JOB NO. H 01-0050-175

MONITORING WELL DH-2A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 910.81 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 908.2 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 70.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 846.2 FEET
- 8 THICKNESS OF SEAL: 5.5 FEET 0.5' OVERLAP
- 9 TYPE OF SEAL: Cement Bentonite Grout
- 10 PROTECTIVE CASING? YES NO
 LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
 AROUND SCREEN Flint Sand 45/55
 DRILL HOLE Cement Bent Grout
 IN PROTECTIVE TOP Cem Bent Grout
- 12 CONCRETE CAP? YES NO

LOCATION 28771 N, 9436 E

JOB NO. 473100

DATE 4-22-85

DRILLER KT

WATER LEVEL CHECKS

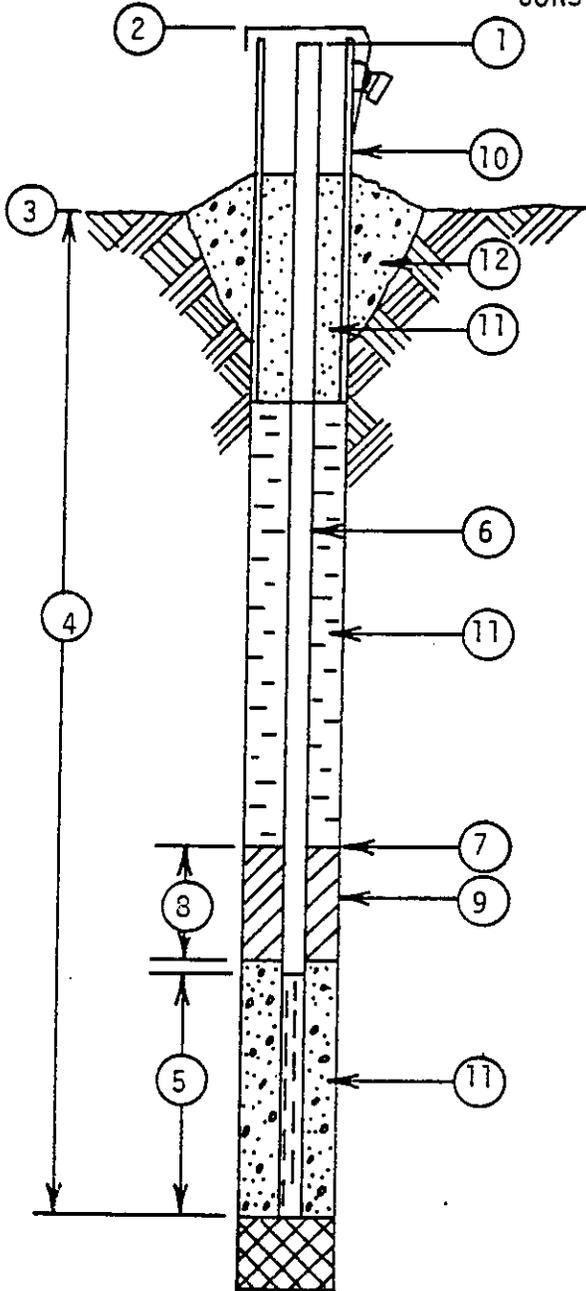
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		41.4	869.4	from Sampling Log



MONITORING WELL DH-10A

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 904.77 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 902.6 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 85.1 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 826.5 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES X NO
LOCKING CAP? YES Y NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand 45/55
DRILL HOLE Grout
IN PROTECTIVE TOP Grout
- 12 CONCRETE CAP? YES Y NO

LOCATION 8+37 N, 9+35 W
 JOB NO. 4731.00
 DATE 5-14-85
 DRILLER M.P.

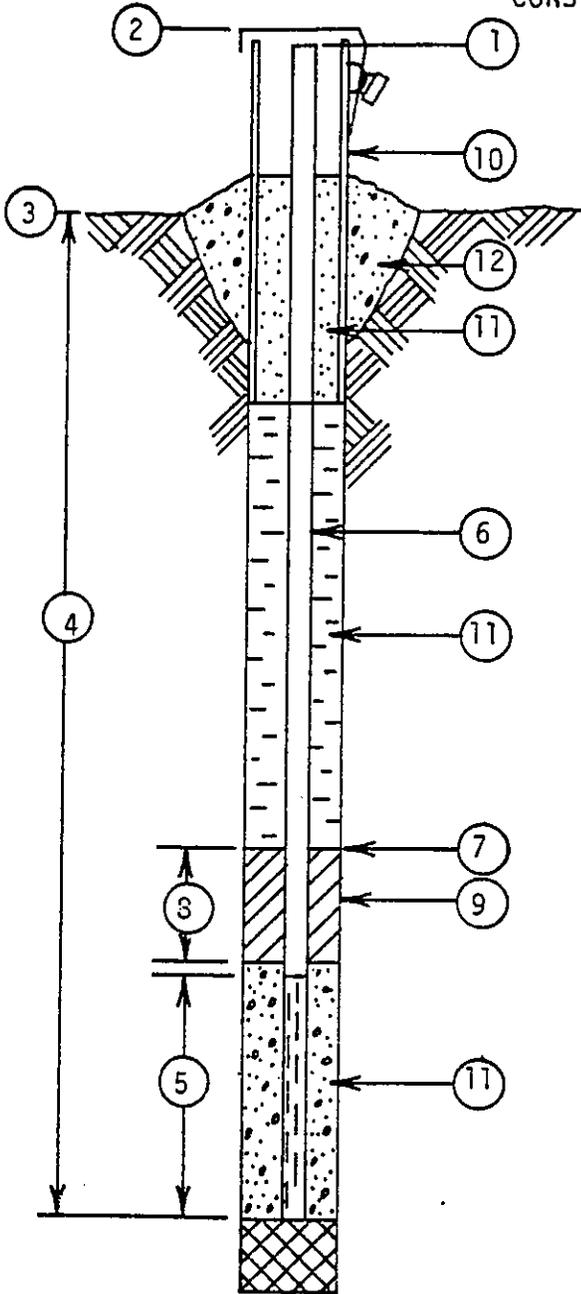
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		53.2	851.6	from Sample log



MONITORING WELL DH-15
CONSTRUCTION DETAILS



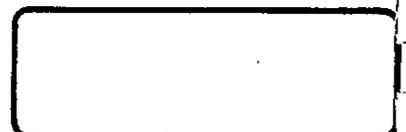
- 1 REFERENCE ELEVATION: 901.0 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 898.4 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 65.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 854.4 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite Pellets
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flintsand 45/55
DRILL HOLE Cem. Best Count
IN PROTECTIVE TOP C.B.G.
- 12 CONCRETE CAP? YES NO

LOCATION 8+20 N, 2+00W
JOB NO. 4731 00
DATE 9-17-85
DRILLER KT

WATER LEVEL CHECKS

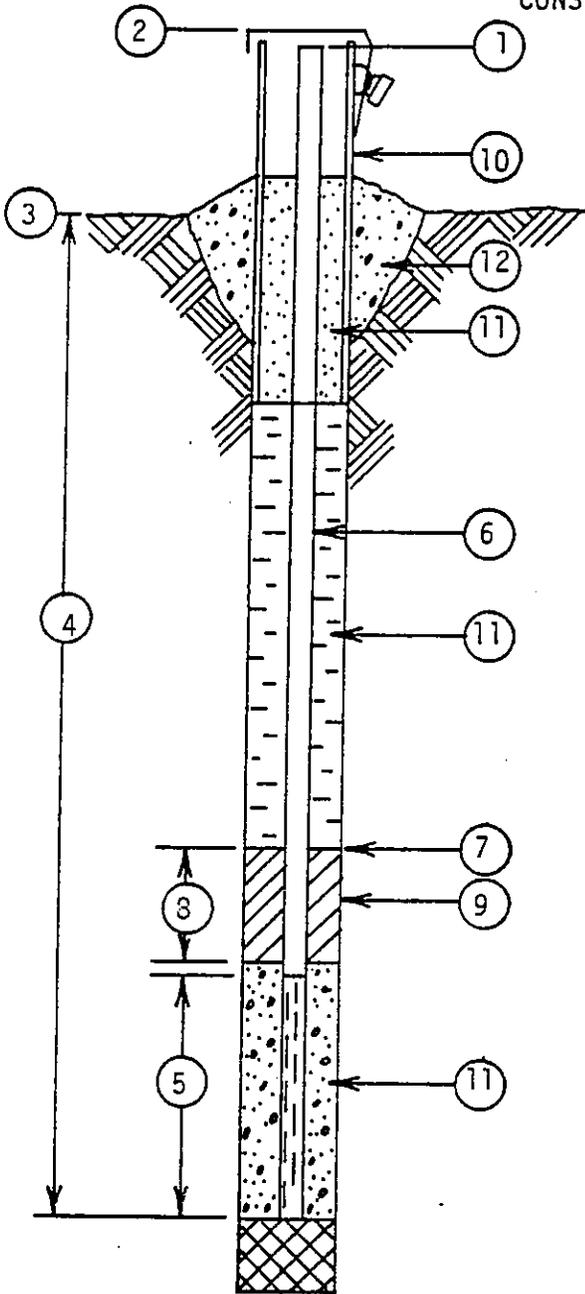
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		52.8	848.2	1/2 hour after Boring.



MONITORING WELL DH-15A

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 900.77 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 898.4 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 75.5 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3 FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 832.4 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite Pellets
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand 45/55
DRILL HOLE Ben. Cement grout
IN PROTECTIVE TOP Ben. Cem. Grout
- 12 CONCRETE CAP? YES NO

LOCATION 8+26N, 2+07 W

JOB NO. 4731.00

DATE 4-18-85

DRILLER KT

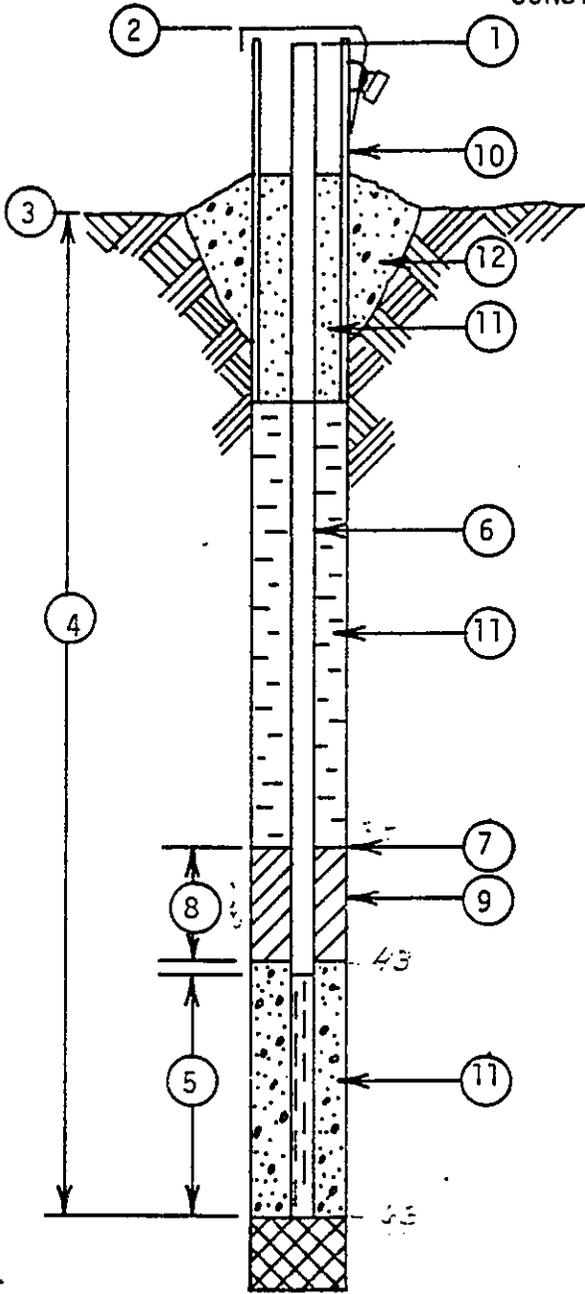
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		52.6'	848.2	1/2 hr. after Drilling



MONITORING WELL DH 16
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 909.34 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 907.1 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 42.5 FEET
- 5 LENGTH OF WELL POINT, (PVC WELL SCREEN, OR SLOTTED PIPE): 5 FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 38 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: NEOPRENE
- 10 PROTECTIVE CASING? YES X NO
LOCKING CAP? YES X NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN FLINT SAND #200
DRILL HOLE 3 INSEAL-FLINT SAND
IN PROTECTIVE TOP FLINT SAND
- 12 CONCRETE CAP? YES X NO

2" PROTECTIVE CASING

LOCATION 15451N, 5476W
JOB NO. 4731.00
DATE 9-4-85
DRILLER L. ERDMAN
R. THALACKER
WIS TEST DR

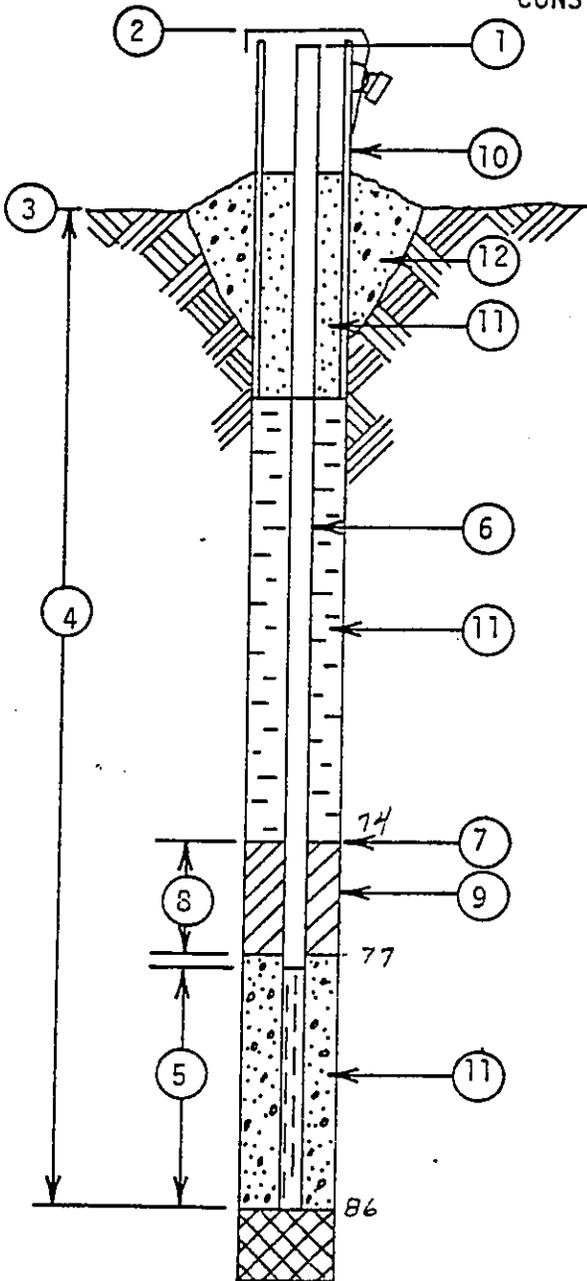
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
9-5-85	8:30 a.m.	47.0'	862.34	64.670 b.H. of well



MONITORING WELL DH16A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 908.74 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 906.7 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 86 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 5 FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 74 FEET
- 8 THICKNESS OF SEAL: 3' FEET
- 9 TYPE OF SEAL: BENTONITE PELLETS
- 10 PROTECTIVE CASING? YES X NO
LOCKING CAP? YES X NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN FLINT SAND 45/55
DRILL HOLE BENSEAL-FLINT SAND GROUT
IN PROTECTIVE TOP FLINT SAND
- 12 CONCRETE CAP? YES Y NO

24" Protective Casing

LOCATION 15746N, 5776W
JOB NO. 4731.00
DATE 9-5-85
DRILLER L. FERDMAN
R. THALACKER
W/B. TEST DRILLING

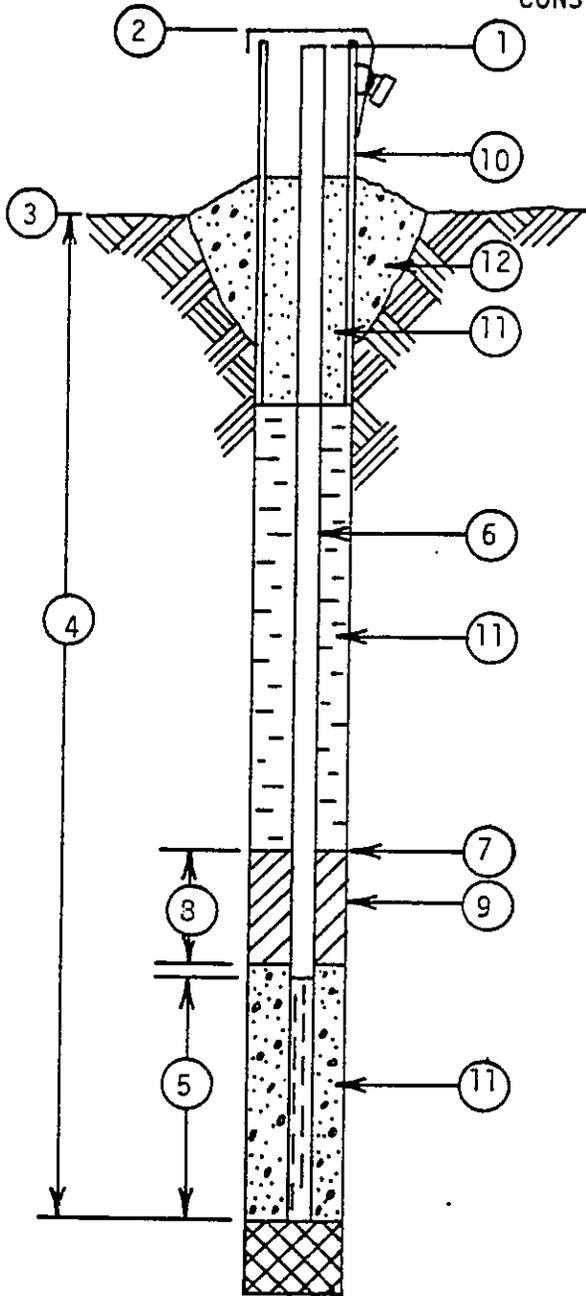
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS



MONITORING WELL DH-18
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 902.4 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 899.75 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 59.5' FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
- 6 SIZE OF PIPE: 2.0" IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 861.25 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
 LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
 AROUND SCREEN Flint sand 45/55
 DRILL HOLE Auger cutting & Bentonite
 IN PROTECTIVE TOP Auger Cutting & Bent.
- 12 CONCRETE CAP? YES NO

LOCATION 14+55 N, 0+00
 JOB NO. 4731.00
 DATE 4-25-85
 DRILLER MP

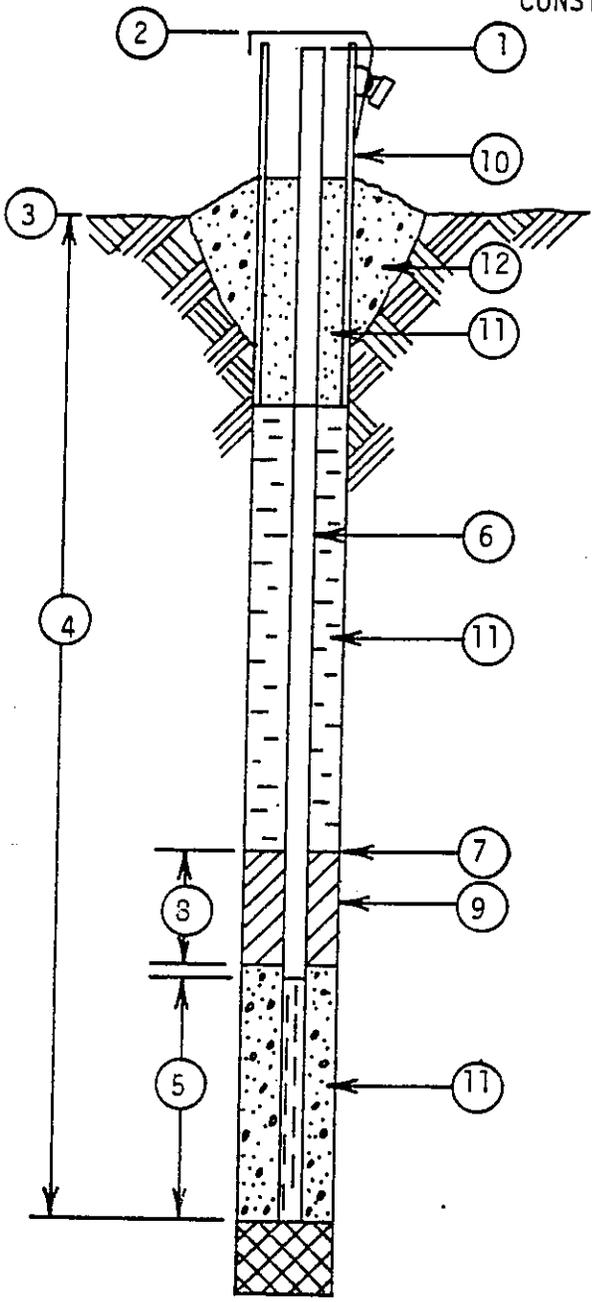
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		48.9'	853.47	From Sampling Log



MONITORING WELL DH-18A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 902.22 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 899.8 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 71.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 837.8 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES X NO
 LOCKING CAP? YES X NO
- 11 TYPE OF BACKFILL:
 AROUND SCREEN Flint sand 45/55
 DRILL HOLE Grout
 IN PROTECTIVE TOP Grout/sand
- 12 CONCRETE CAP? YES X NO

LOCATION 1A+57N, 0+07E
 JOB NO. A731.00
 DATE 4-22-85
 DRILLER M.P.

WATER LEVEL CHECKS

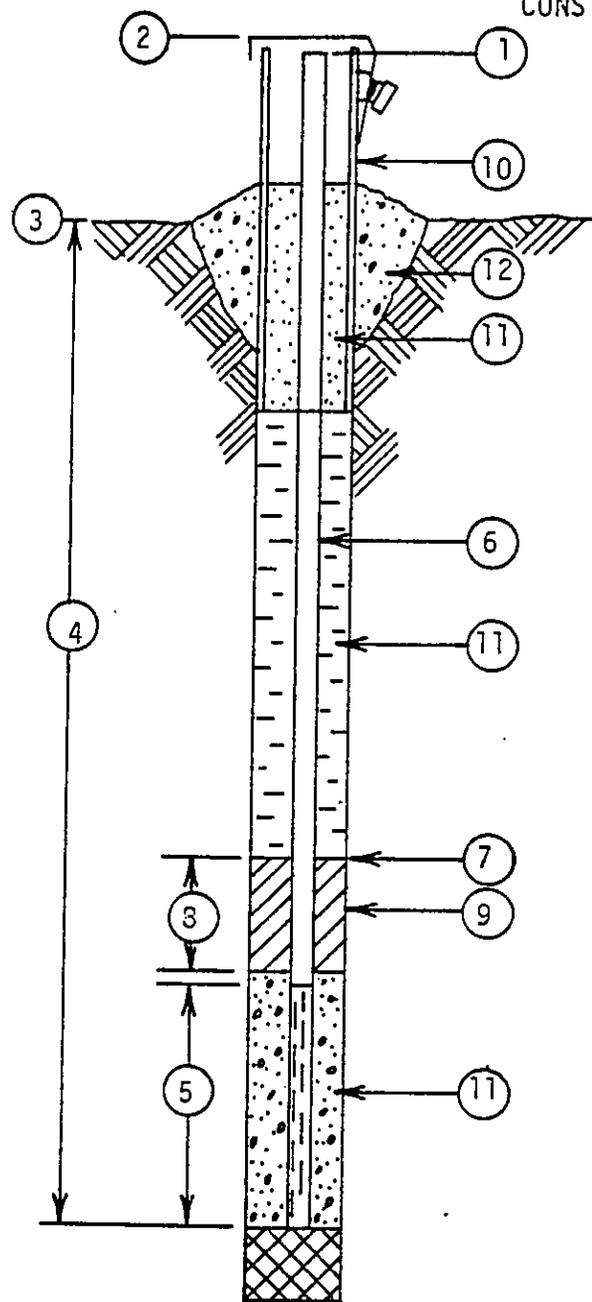
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		48.7'	853.55	from Sampling Log



MONITORING WELL DH-18B

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 902.66 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 899.8 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 90.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 818.8 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Flint sand grout
IN PROTECTIVE TOP Flint sand grout
- 12 CONCRETE CAP? YES NO

LOCATION 1A+54 N, 0+04E

JOB NO. 4731.00

DATE 4-24-85

DRILLER M.P.

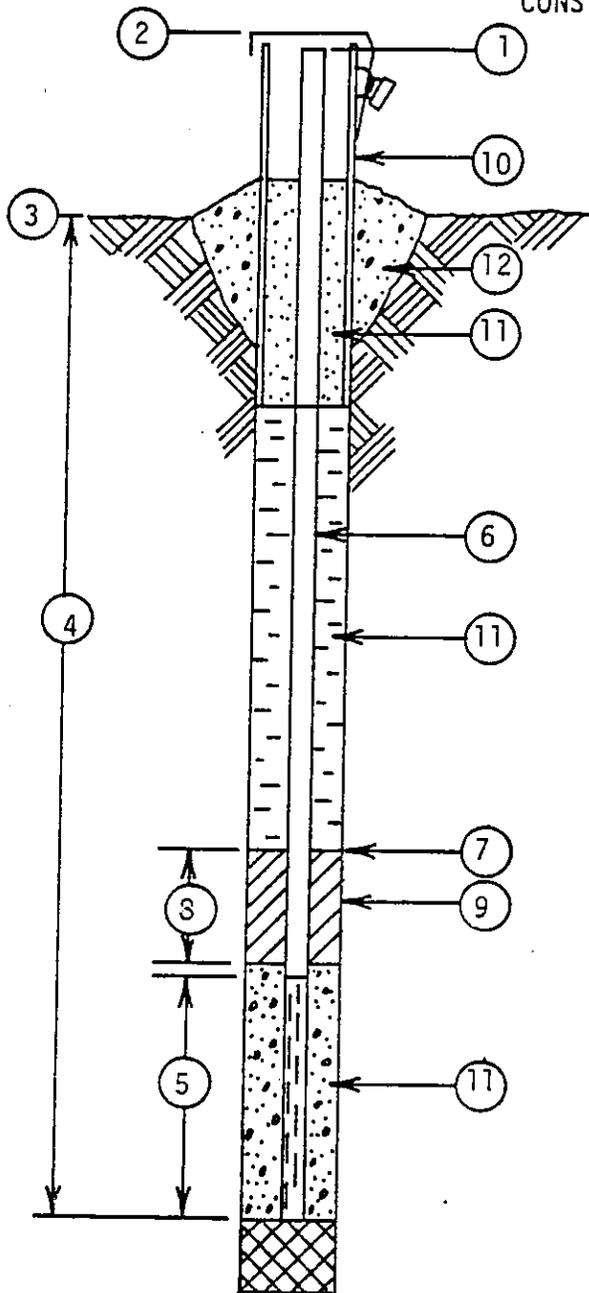
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		<u>49.17</u>	<u>853.49</u>	<u>from Sampling Log</u>



MONITORING WELL DH-19
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 899.57 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 897.4 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 66.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: _____ FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flat sand #55
DRILL HOLE Auger cuttings & bentonite
IN PROTECTIVE TOP Auger cutting & bentonite
- 12 CONCRETE CAP? YES NO _____

LOCATION 3+50 N, 4+50 W

JOB NO. 4731.00

DATE 4-18-85

DRILLER MP

WATER LEVEL CHECKS

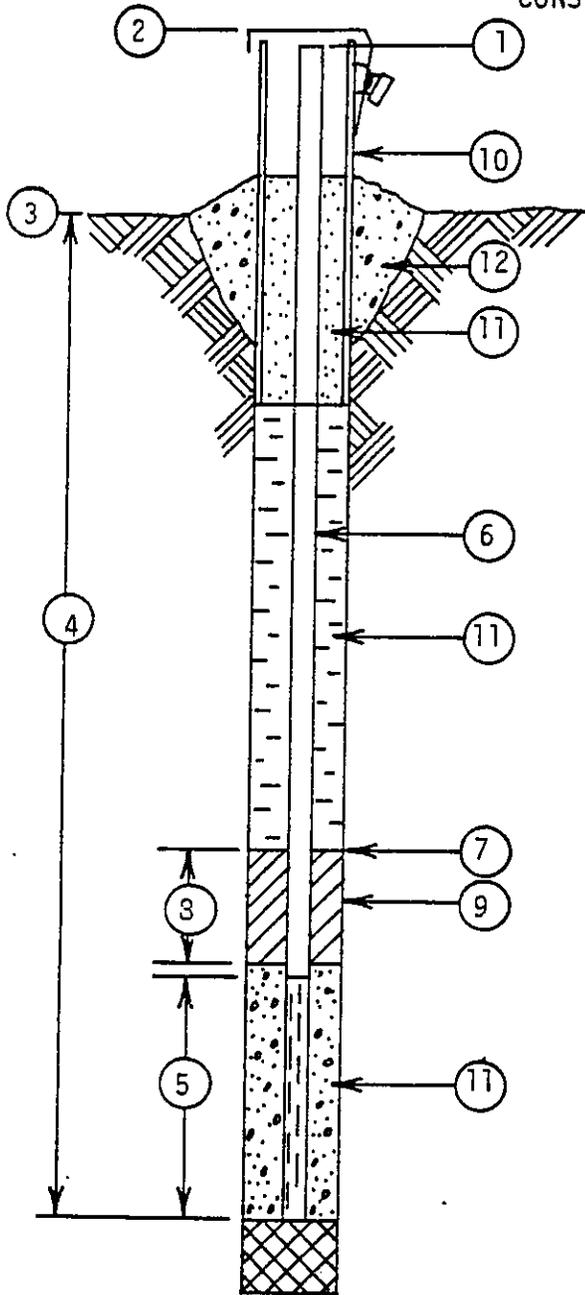
From Reference Elevation*

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		55.87	843.7	1/4 hour after drilling



MONITORING WELL DH-19A

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 899.94 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 897.4 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 78.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 829.4 FEET
- 8 THICKNESS OF SEAL: 6.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Flint sand
IN PROTECTIVE TOP Flint sand
- 12 CONCRETE CAP? YES NO

LOCATION 3+51 N, 4+53 W

JOB NO. 4731.00

DATE 4-18-85

DRILLER M.P.

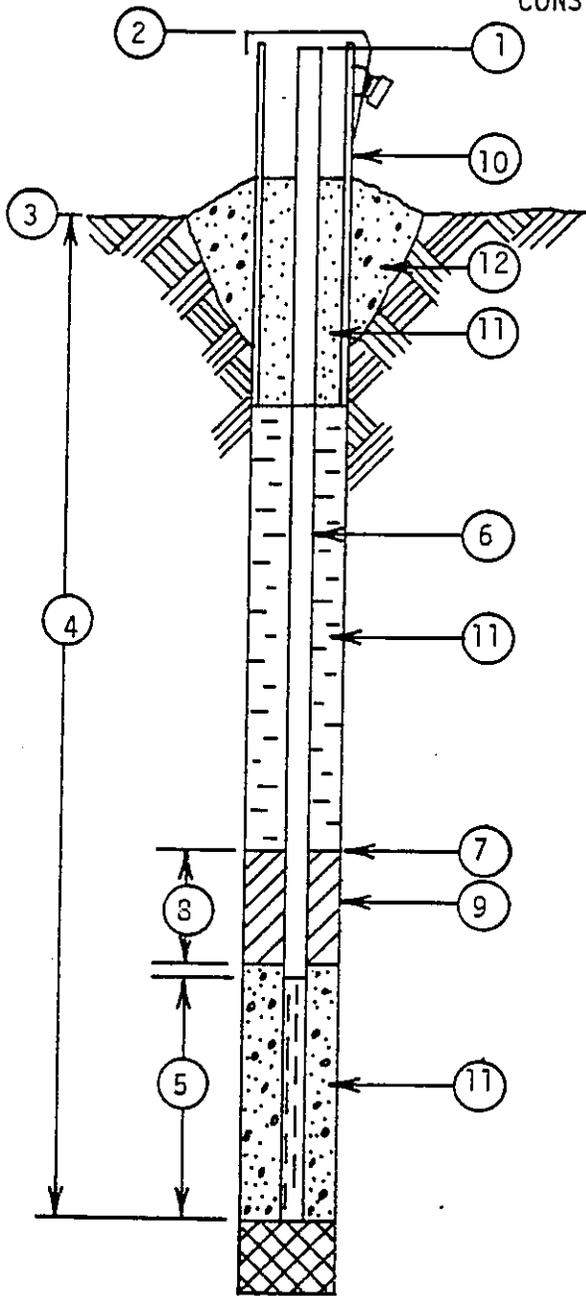
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		56.27	843.67	1/4 hour after drilling



MONITORING WELL DH-20
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 913.46 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 910.6 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 44.3 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: _____ FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flintsand
DRILL HOLE Auger cuttings & Bentonite
IN PROTECTIVE TOP Auger & Bentonite.
- 12 CONCRETE CAP? YES NO _____

LOCATION 17+00 N, 21+70 E
JOB NO. 4731.00
DATE 4-17-85
DRILLER Wis. Test Drilling

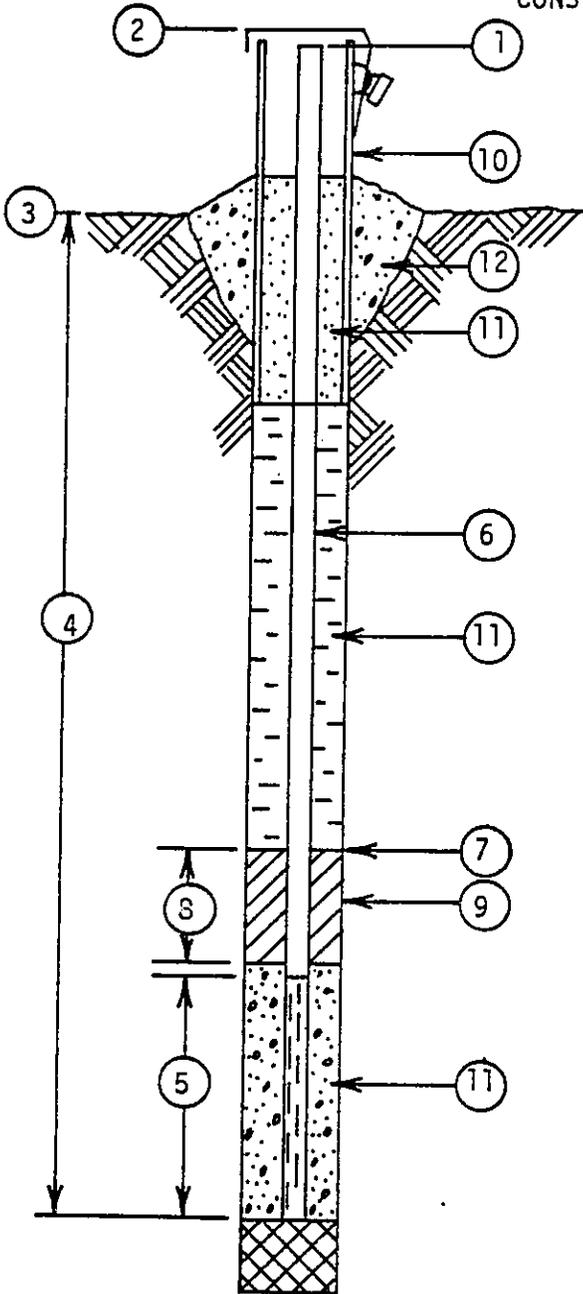
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		31.5	879.1	1/2 hour after drilling



MONITORING WELL DH-201A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 913.23 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 910.6 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 55.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 864.6 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Flint sand & Bentonite
IN PROTECTIVE TOP Flint sand & Bentonite
- 12 CONCRETE CAP? YES NO

LOCATION 17+00 N, 21+55 E

JOB NO. 4731.00

DATE 4-22-85

DRILLER M.P.

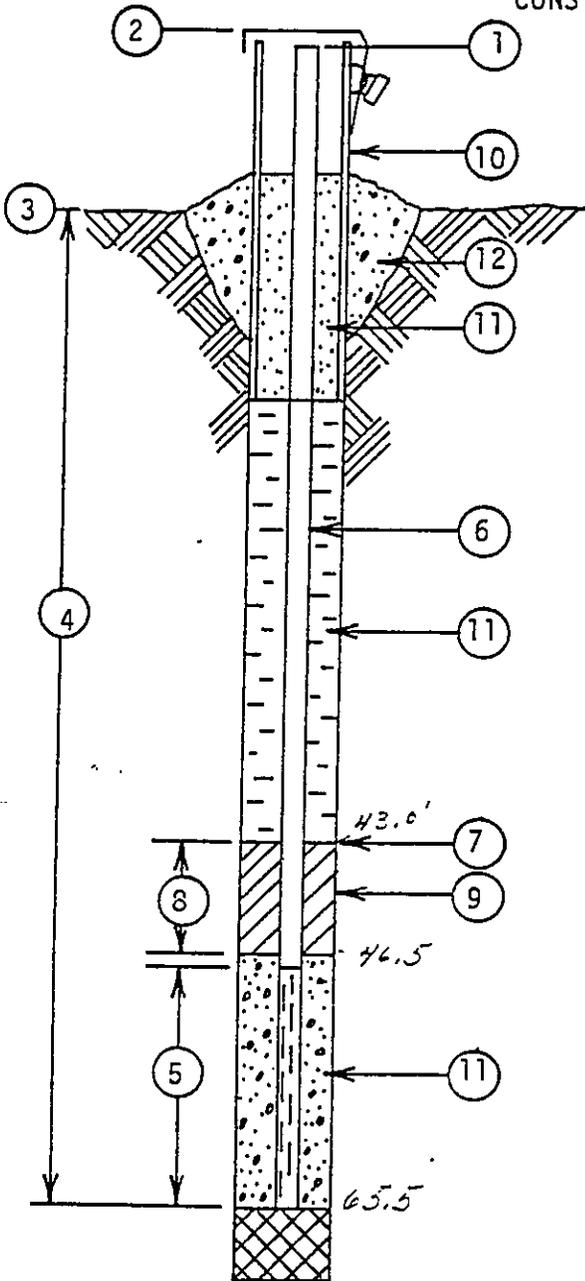
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		34.83	878.4	1/4 hour after drilling



MONITORING WELL DH21
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 906.08 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 904.1 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 65.5' FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15' FEET
- 6 SIZE OF PIPE: 2" IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 43.0' FEET
- 8 THICKNESS OF SEAL: 3.5' FEET
- 9 TYPE OF SEAL: BENTONITE PELLETS
- 10 PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN FLINT SAND 45/55
DRILL HOLE CEMENT-BENTONITE GROUT.
IN PROTECTIVE TOP SAND (FLINT)
- 12 CONCRETE CAP? YES NO _____

LOCATION _____
JOB NO. 4731.00
DATE 9-3-85
DRILLER L. ERDMAN
P. DICKENSON
WIS. TEST DR

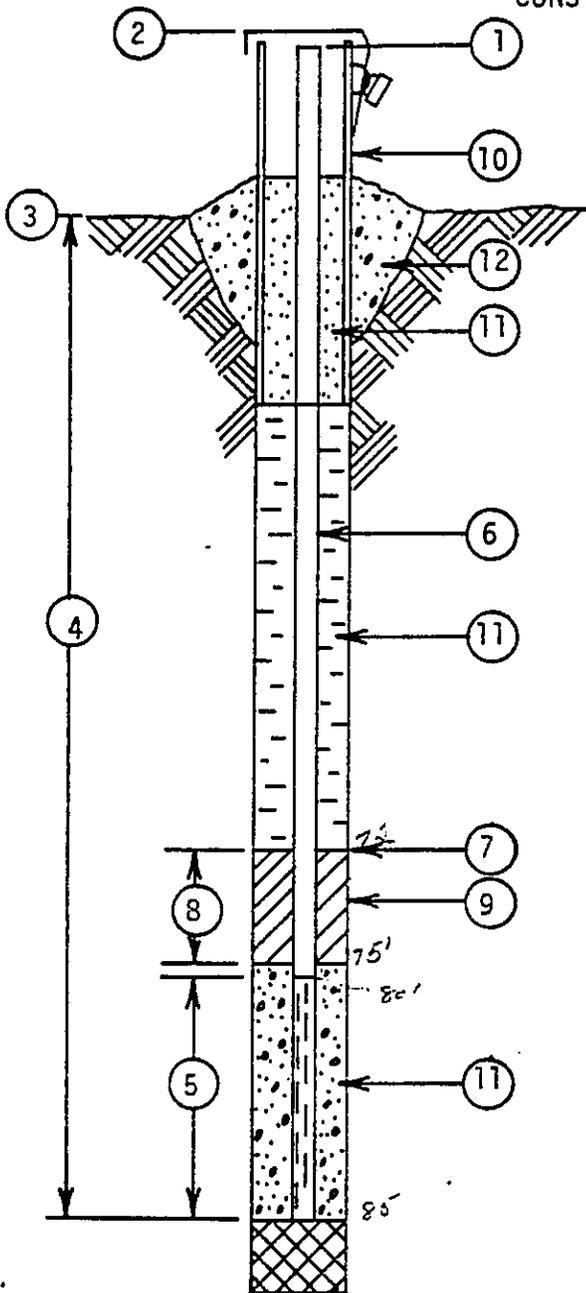
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
9-3-85	10:00 AM	55.3'	851.5	



MONITORING WELL DH 21A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 906.13 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 904.1 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 85' FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 5 FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 72 FEET
- 8 THICKNESS OF SEAL: 3 FEET
- 9 TYPE OF SEAL: BENTONITE PELLETS
- 10 PROTECTIVE CASING? YES X NO _____
LOCKING CAP? YES X NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN FLINT SAND #5/55
DRILL HOLE BENSEAL-FLINT SAND
IN PROTECTIVE TOP SAND (FLINT)
- 12 CONCRETE CAP? YES X NO _____

see description of casing

LOCATION _____

WATER LEVEL CHECKS

JOB NO. 4731.00

From Reference Elevation

DATE 9-4-85

DRILLER L. ERDMAN

R. Thalacker

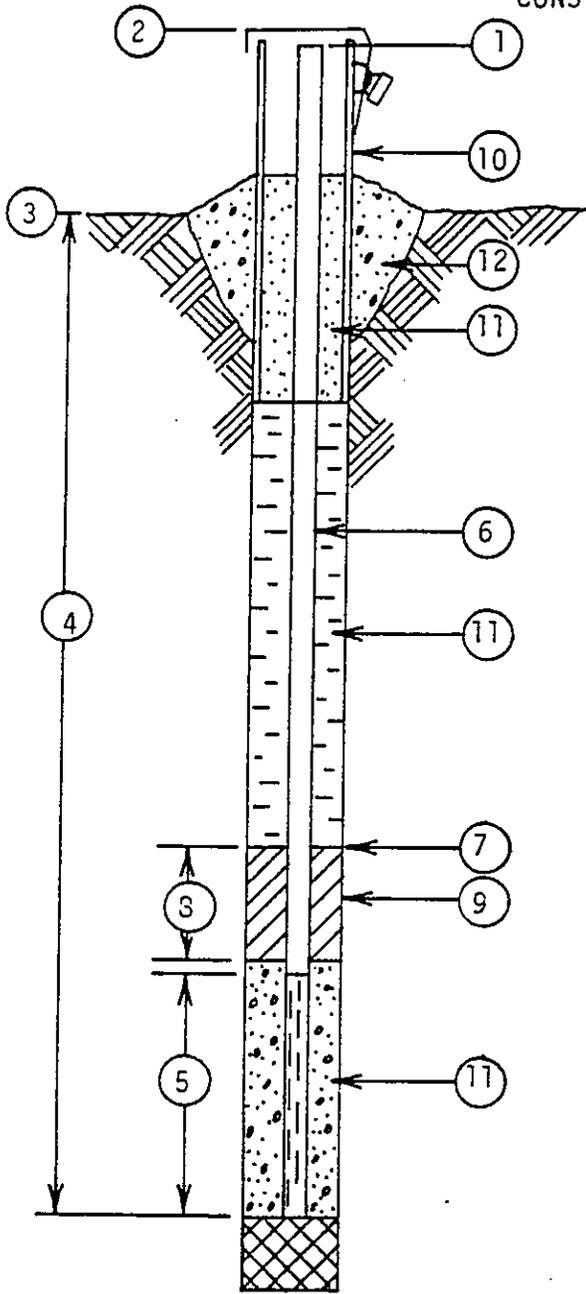
Wis TEST. DP

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
9-5-85	8:40am	55.4'	850.73	Depth to Bottom 86.9'



MONITORING WELL DH-22

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 902.19 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 899.5 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 53.8 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 866.7 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES X NO
LOCKING CAP? YES y NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Drill cuttings & Bentonite
IN PROTECTIVE TOP Drill cuttings & Bentonite
- 12 CONCRETE CAP? YES X NO

LOCATION 22400 N, 3+00E

JOB NO. 4731.00

DATE 4-16-85

DRILLER M.P.

Wis Test Drilling

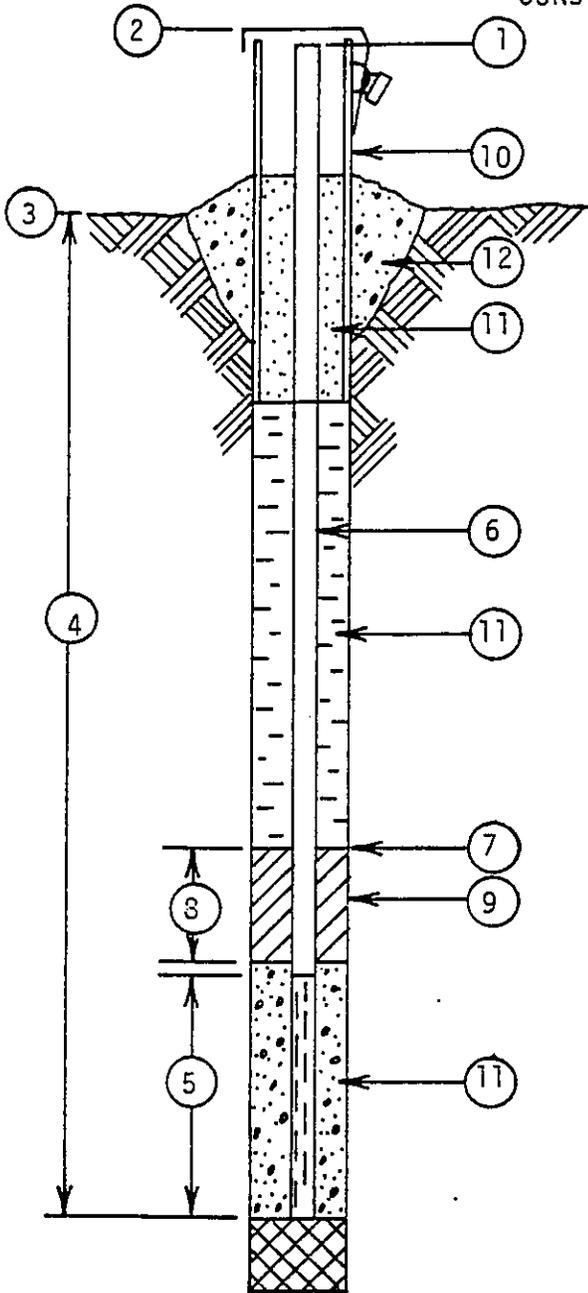
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		43.89	858.3	1/2 hour after drilling



MONITORING WELL DH-22A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 901.93 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 899.5 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 70.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 837.5 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Flint sand & Bentonite
IN PROTECTIVE TOP Flint sand & Bentonite
- 12 CONCRETE CAP? YES NO

LOCATION 21492N, 3+00E

JOB NO. 4731.60

DATE A-30-65

DRILLER M.P. of W.T.O.

WATER LEVEL CHECKS

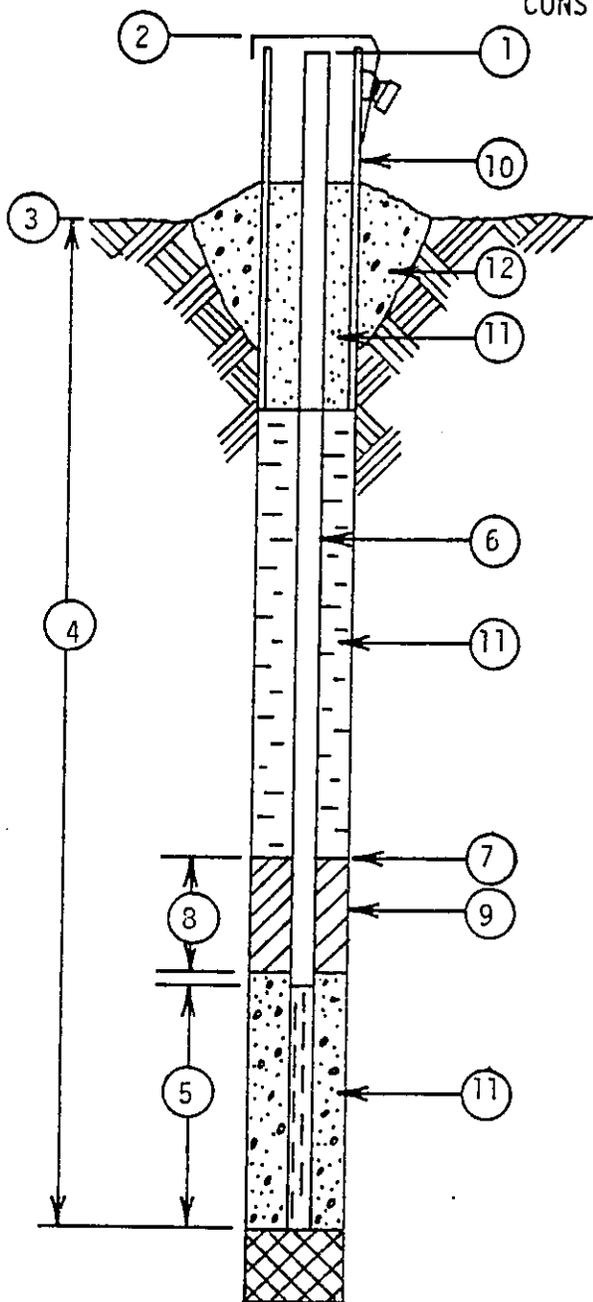
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		43.63	858.3	1/4 hr. after drilling



MONITORING WELL DH-22B

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 901.95 FEET
- 2 CAP ELEVATION: FEET
- 3 GROUND SURFACE ELEVATION: 899.5 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 95 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 810.5 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint Sand
DRILL HOLE Flint Sand and Bentonite
IN PROTECTIVE TOP Flint Sand and Bentonite
- 12 CONCRETE CAP? YES NO

LOCATION 21495N & 3405E

WATER LEVEL CHECKS

JOB NO. 4731.00

From Reference Elevation

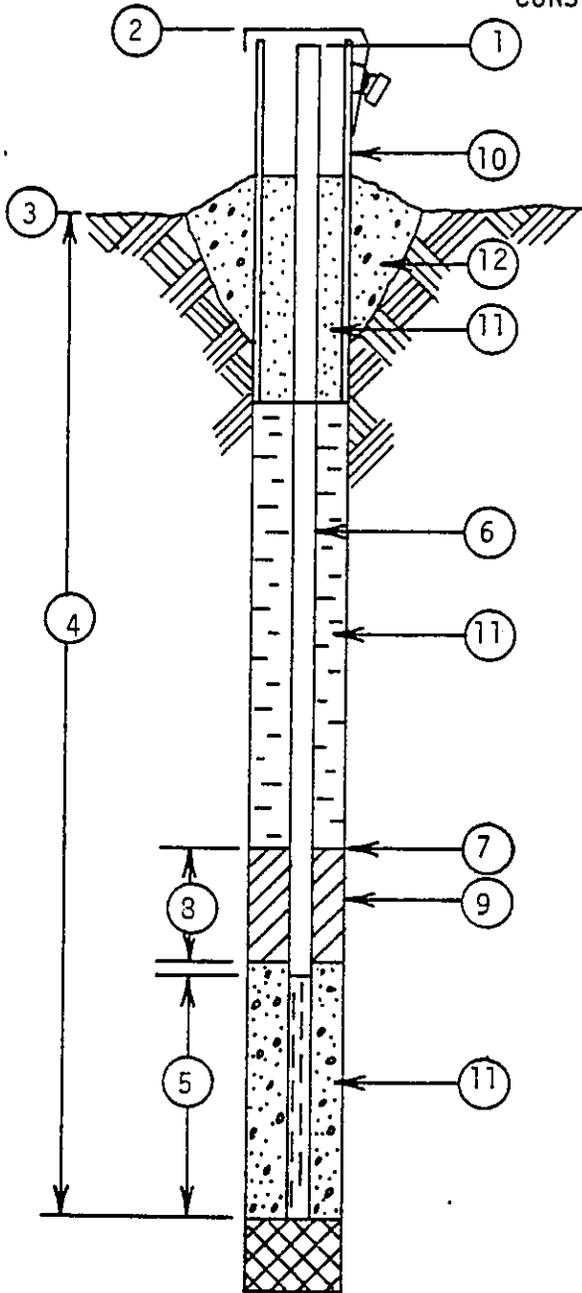
DATE 4/29/85

DRILLER M.P. of Wis. Test Drilling

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS



MONITORING WELL DH-23
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 914.77 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 912.23 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 51.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 882.23 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flintsand 45/55
DRILL HOLE Bent. Cement Grout
IN PROTECTIVE TOP Bent. Cement Grout
- 12 CONCRETE CAP? YES NO

LOCATION 24+01 N, 15+40 E

JOB NO. 4731.00

DATE 4-16-85

DRILLER T.K. for W.T.O.

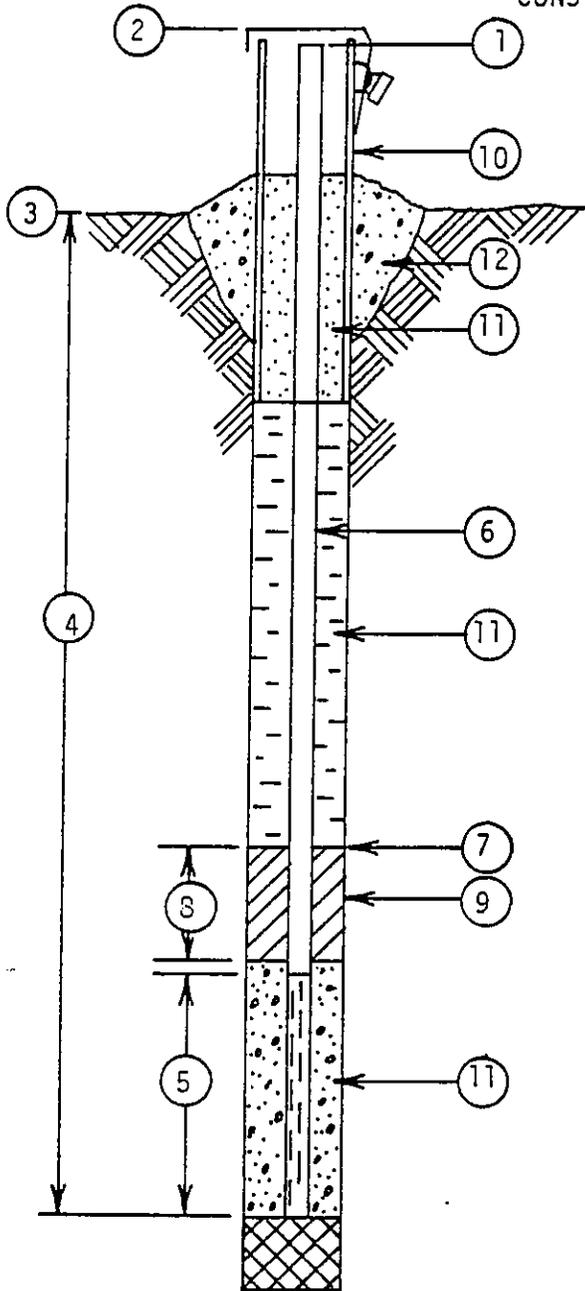
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		36.75	878.02	1.0 hour after drilling



MONITORING WELL DH-23A
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 915.18 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 912.2 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 74.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 847.2 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES x NO
LOCKING CAP? YES y NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Grout
IN PROTECTIVE TOP Grout
- 12 CONCRETE CAP? YES y NO

LOCATION 23+93 N, 15+44 E
JOB NO. 4731.00
DATE 5-1-85
DRILLER M.P. for W.T.D.

WATER LEVEL CHECKS

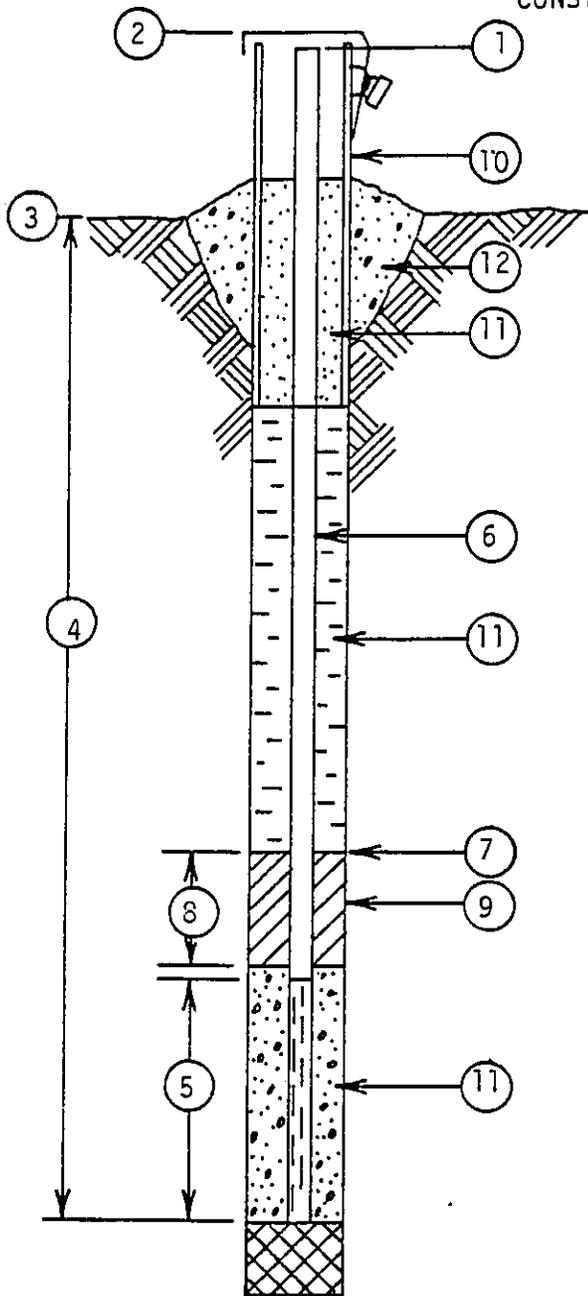
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		37.2	878.0	7 hr. after drilling



MONITORING WELL DH-23 B

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 915.03 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 912.2 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 94.5 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 3.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 826.7 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flintsand
DRILL HOLE Gravel
IN PROTECTIVE TOP Gravel
- 12 CONCRETE CAP? YES NO

LOCATION 21+95 N, 15+32 E

JOB NO. 4731.00

DATE 5-2-85

DRILLER M.P. for W.T.O.

WATER LEVEL CHECKS

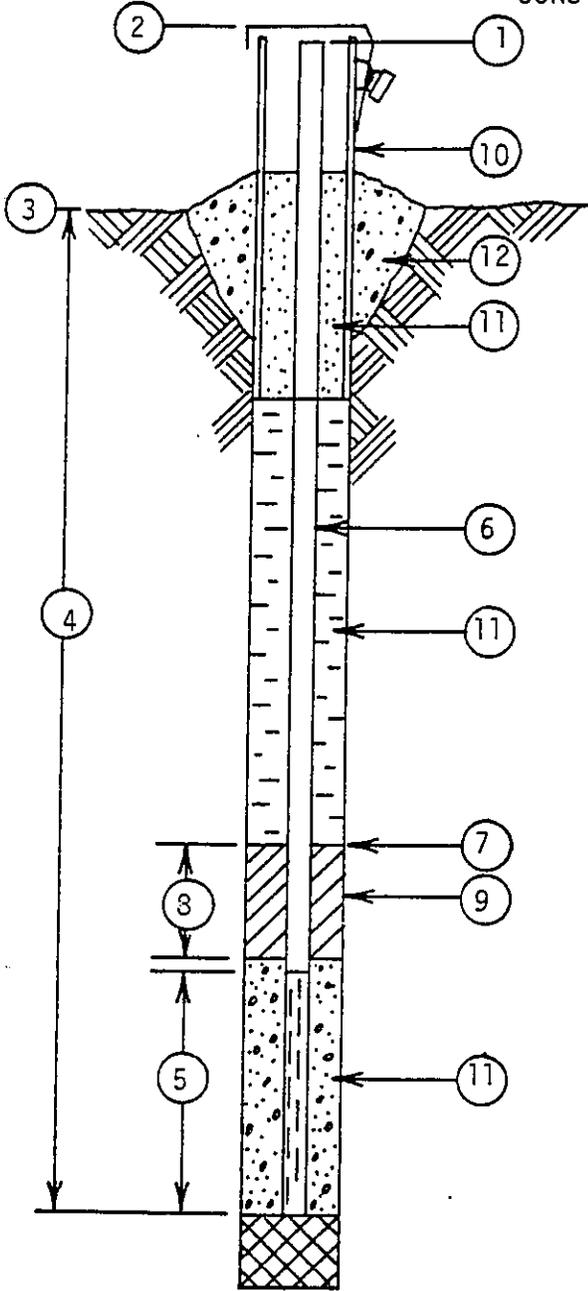
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		37.00	878.00	



MONITORING WELL DH-23C

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 914.97 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 912.22 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 20.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 10.0' FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 910.22 FEET
- 8 THICKNESS OF SEAL: 6.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Flint sand & Bentonite
IN PROTECTIVE TOP Flint sand & Bentonite
- 12 CONCRETE CAP? YES NO

LOCATION 23+94 N, 15+39 E
 JOB NO. 4731.00
 DATE 4-30-85
 DRILLER M.P. for W.T.O.

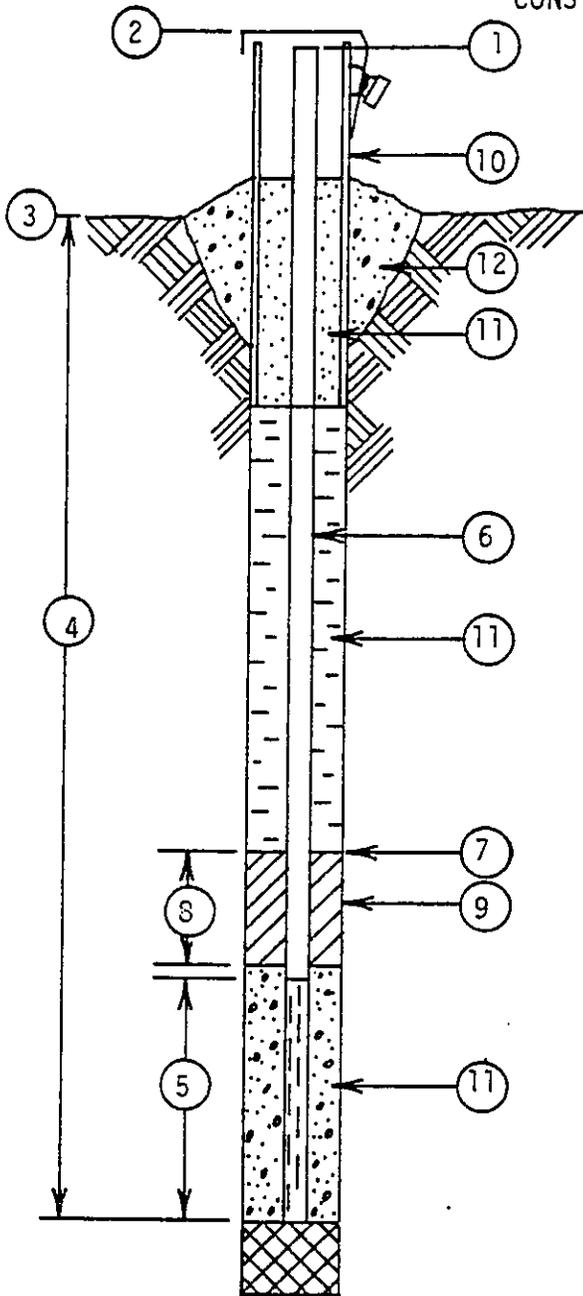
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS



MONITORING WELL DH-24
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 923.65 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 920.6 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 53.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- * 7 ELEVATION OF TOP OF SEAL: 878.6 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES X NO
LOCKING CAP? YES X NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Auger Cuttings & Bentonite
IN PROTECTIVE TOP Auger Cuttings, Bent.
- 12 CONCRETE CAP? YES X NO

* Apparent overlap of seal & screen.

LOCATION 26+50N, 21+80E

JOB NO. 4731.06

DATE 4-16-85

DRILLER M.P. for W.T.D.

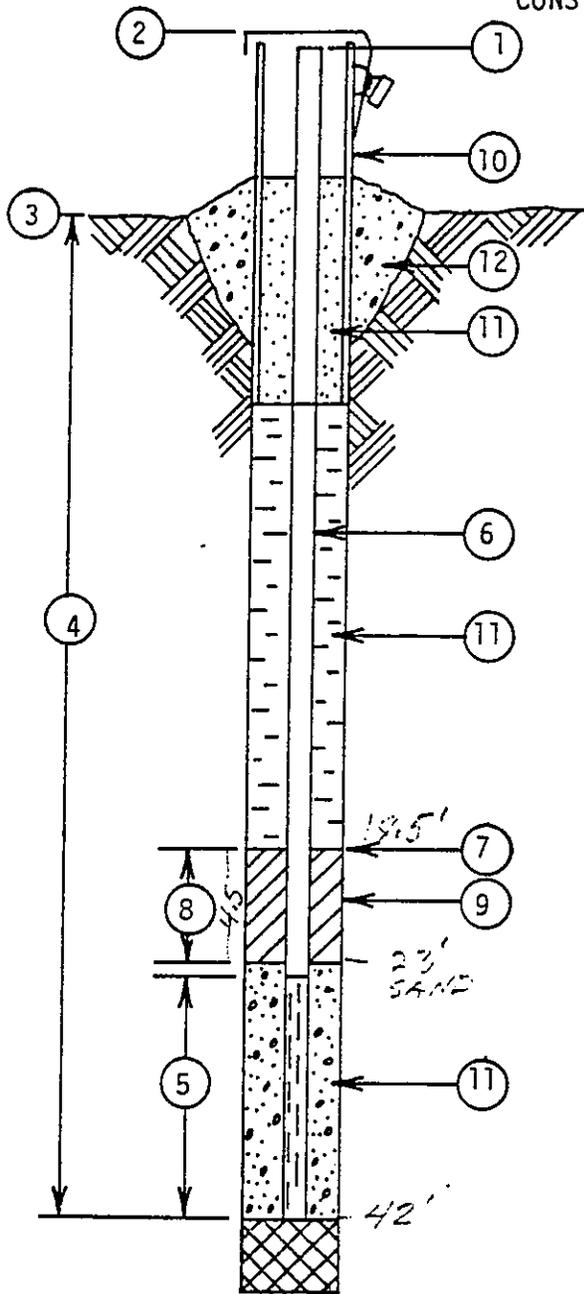
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
		41.02	882.63	From H ₂ O Sample Log



MONITORING WELL DH 25
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 899.63 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 897.6 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 42 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 15' FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 18.5 FEET
- 8 THICKNESS OF SEAL: 4.5' FEET
- 9 TYPE OF SEAL: BENTONITE PELLETS
- 10 PROTECTIVE CASING? YES _____ NO _____
LOCKING CAP? YES _____ NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN SAND
DRILL HOLE CEMENT-BENTONITE
IN PROTECTIVE TOP SAND Grout 4:1
- 12 CONCRETE CAP? YES X NO _____

LOCATION 8+75.4N & 21+53.5E

WATER LEVEL CHECKS

JOB NO. 4731.01

From Reference Elevation

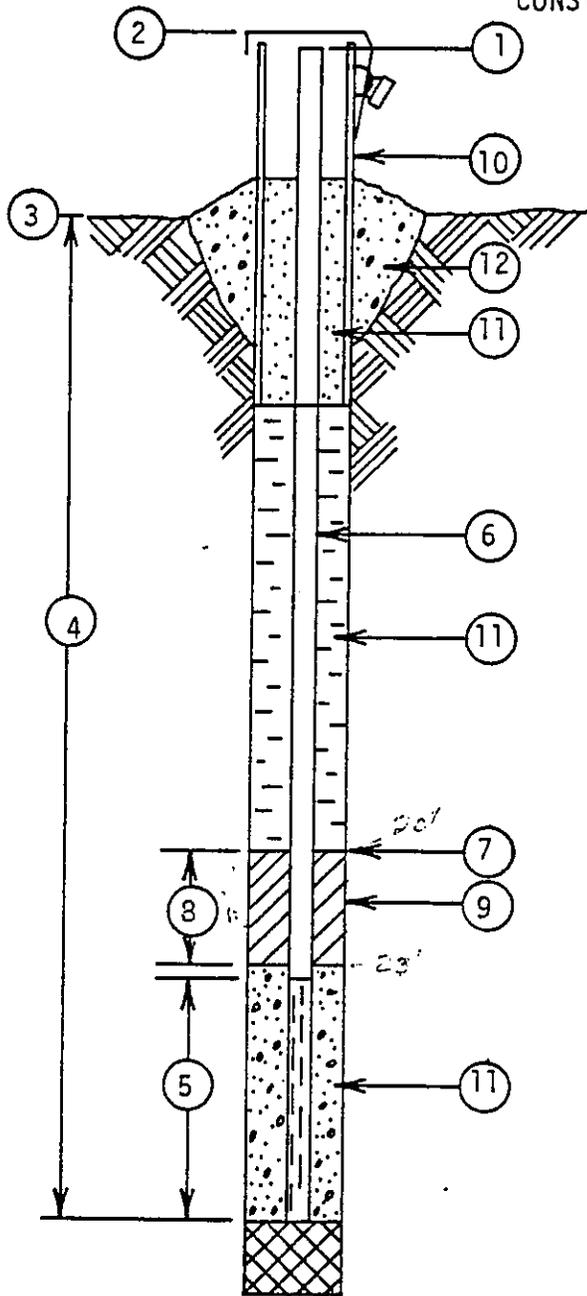
DATE 8-21-85

DRILLER L. ERDMAN
P. DICKERSON

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
8/25/85	4:30 PM	26.7 BF	872.93 -	Stayed Dirty
	4:50 PM	26.9 LF		Barrel would Pass 34' level

WIS TEST DRILLING

MONITORING WELL DH 26
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 894.83 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 892.85 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 47' FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15' FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 20' FEET
- 8 THICKNESS OF SEAL: 3 FEET
- 9 TYPE OF SEAL: 3 BENTONITE
- 10 PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN SAND
DRILL HOLE CEMENT-POWDERED BEA
IN PROTECTIVE TOP SAND
- 12 CONCRETE CAP? YES NO _____

LOCATION 11+06.5N 10+29.6E SEYMOUR LF.

WATER LEVEL CHECKS

JOB NO. 4731101

From Reference Elevation

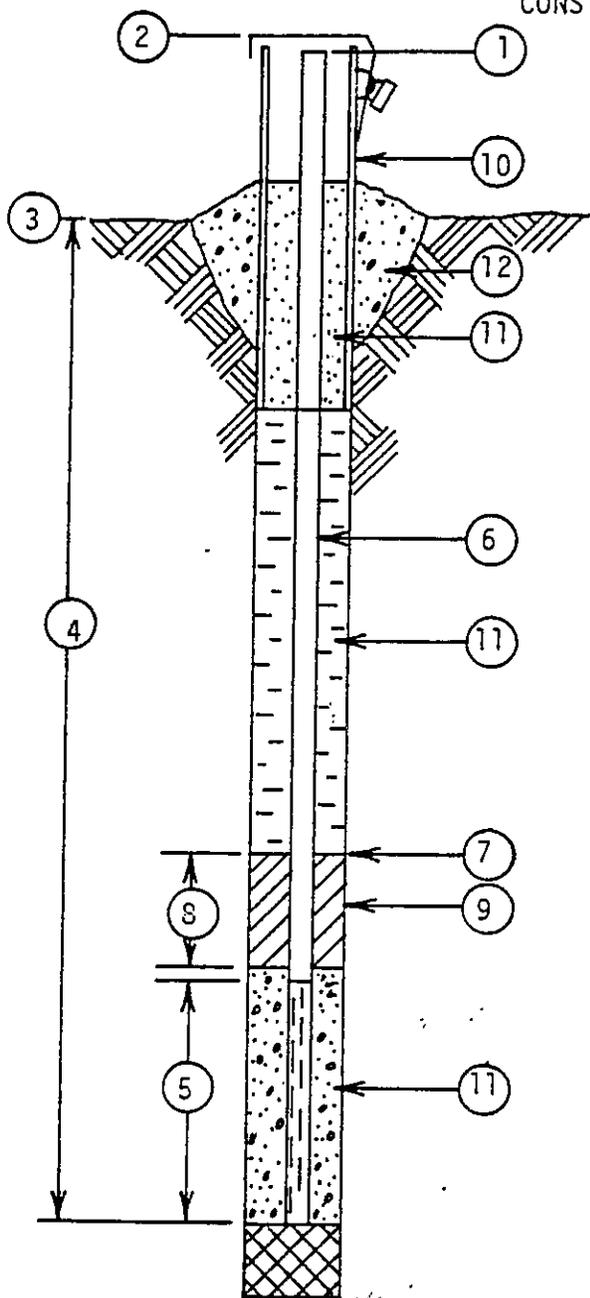
DATE 8-22-85

DRILLER L. EPDMAN

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
8/25/85	9:45	33.25'	61.58	Dirty bed & after bailing
	9:50	43.50'		
	10:00	40.00'	854.8	

MONITORING WELL DH 27

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 897.70 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 895.5 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 44 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 15 FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 22.1 FEET
- 8 THICKNESS OF SEAL: 3.3 FEET
- 9 TYPE OF SEAL: BENTONITE POINT.
- 10 PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN SAND
DRILL HOLE GROUT
IN PROTECTIVE TOP FINE-POULVERED BENTONITE
- 12 CONCRETE CAP? YES NO _____

LOCATION SEYMOUR L.F.

JOB NO. 4731.01

DATE 8-17-51

DRILLER WIS. TEST DRILLING
T. Pesy
R. Thalacher

WATER LEVEL CHECKS

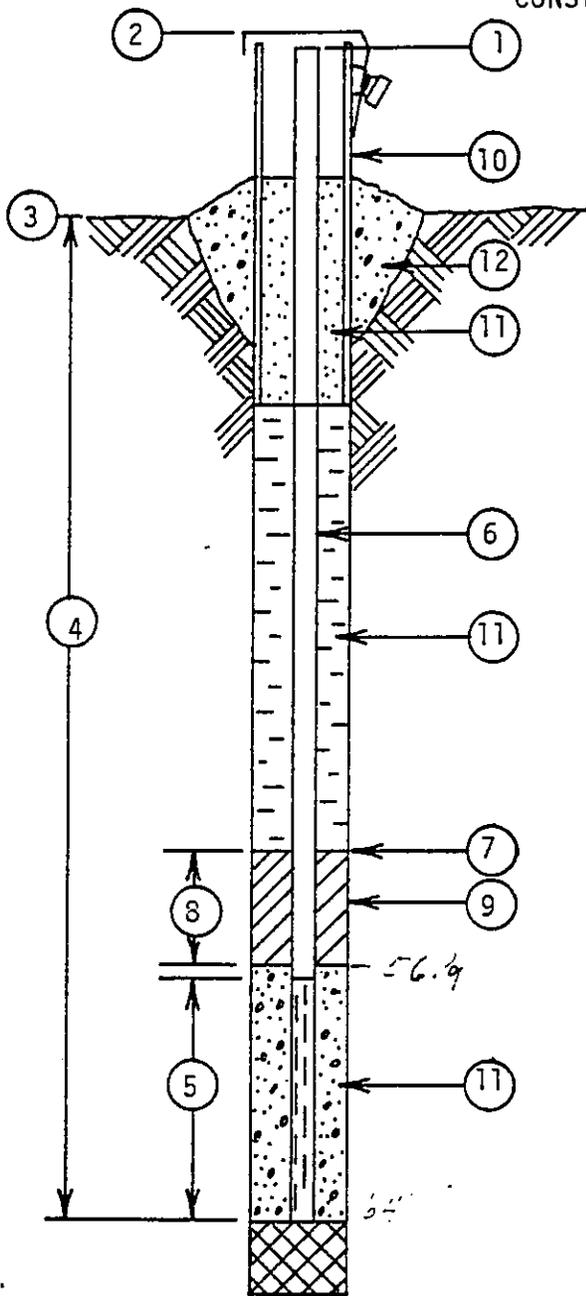
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
8/17/51	10:00 a.m.	33.2'	864.5	Creaking at Screen



MONITORING WELL DH 27A

CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 897.22 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 895.2 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 6.4 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE: 3 FEET
- 6 SIZE OF PIPE: 2" IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 53.6 FEET
- 8 THICKNESS OF SEAL: 3.3 FEET
- 9 TYPE OF SEAL: BENTONITE PELLETS
- 10 PROTECTIVE CASING? YES X NO _____
LOCKING CAP? YES X NO _____
- 11 TYPE OF BACKFILL:
AROUND SCREEN SAND
DRILL HOLE BENTONITE-CEMENT GROUT
IN PROTECTIVE TOP SAND.
- 12 CONCRETE CAP? YES X NO _____

LOCATION 0+14.54 & 9+21.25

WATER LEVEL CHECKS

JOB NO. 4731.01

From Reference Elevation

DATE 8-15-85

DRILLER WIS. TEST DRILLING
T. Kes
R. Thraetler

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
	3:00 PM	25.4'		Before B
8/15/85	3:50 PM	65.2		AFTER B
	4:15 PM	64.6	832.6	

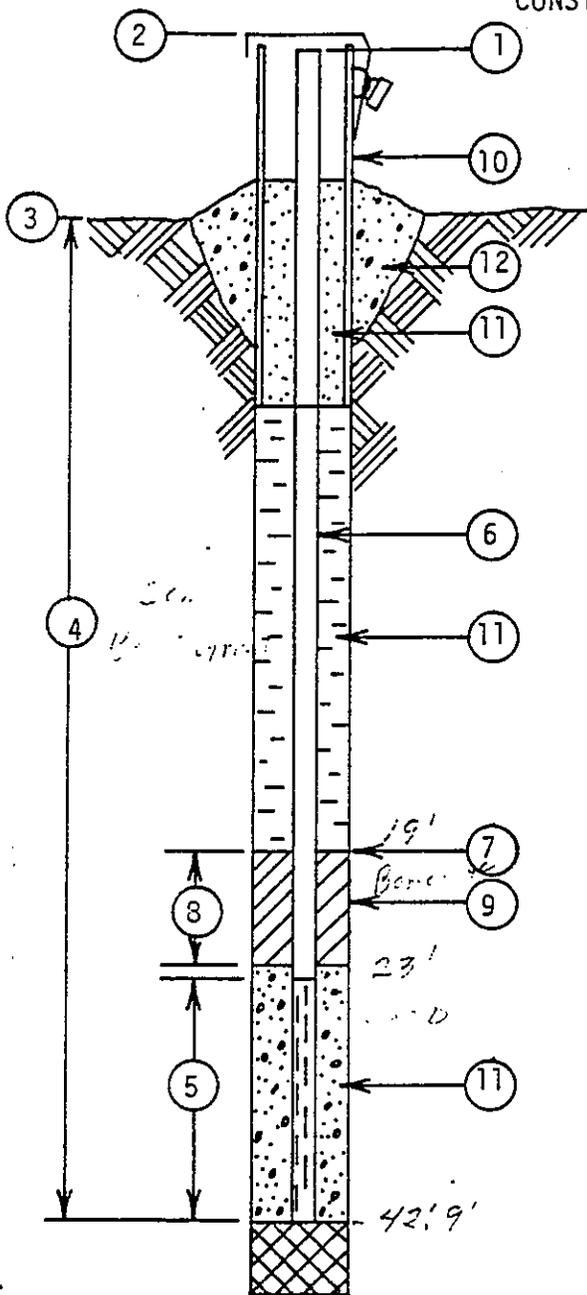
Probably high because of flushing when completed 8/14

AYRES
ASSOCIATES

Engineers
Architects
Planners
Surveyors



MONITORING WELL DH 28
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 895.09 FEET
- 2 CAP ELEVATION: _____ FEET
- 3 GROUND SURFACE ELEVATION: 892.09 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 42.9 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15' FEET
- 6 SIZE OF PIPE: 2 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 19' FEET
- 8 THICKNESS OF SEAL: 4' FEET
- 9 TYPE OF SEAL: BENTONITE PELLETS
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN SAND
DRILL HOLE CEMENT - Bentonite Grout 4:1
IN PROTECTIVE TOP SAND
- 12 CONCRETE CAP? YES NO

LOCATION 10+47.3N & 16+95.3E

WATER LEVEL CHECKS

JOB NO. 4731.01

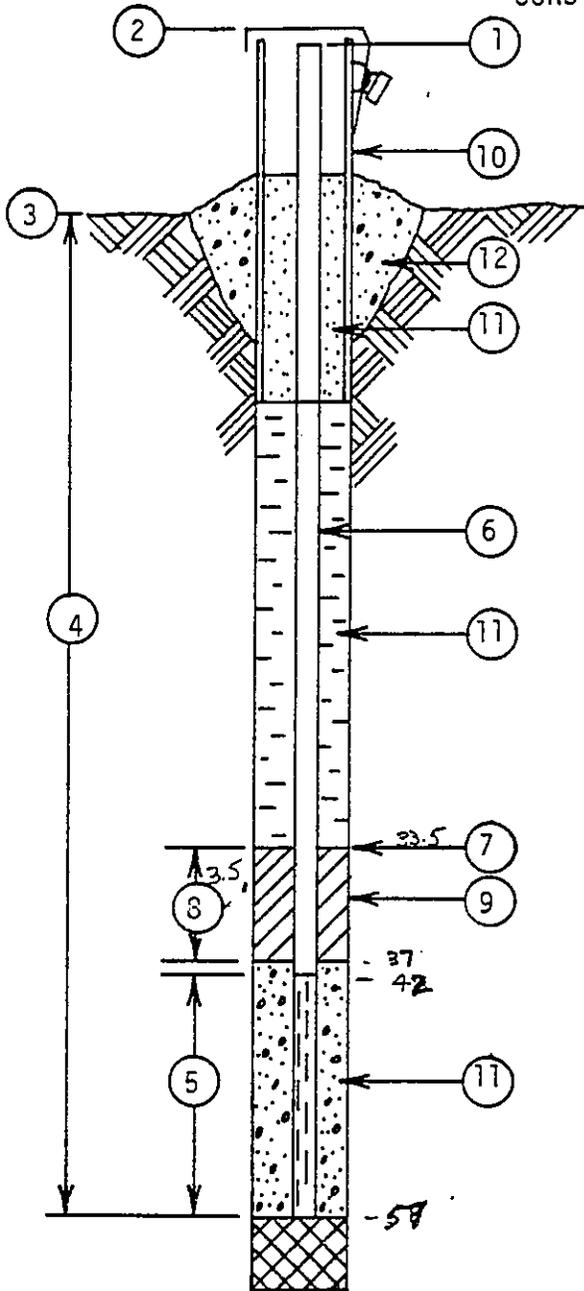
From Reference Elevation

DATE 8-21-85

DRILLER L. ERDMAN

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
8/22/85	7:40 AM	23.9		Water odor
	8:20 AM	25.5		
	4:00 PM	25.5	869.59	

MONITORING WELL DH-29
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 910.01 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 907.90 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 57 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 33.5 FEET
- 8 THICKNESS OF SEAL: 3.5 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN FLINT SAND - 60-65
DRILL HOLE Borax + Sand - Conc. Grout
IN PROTECTIVE TOP sand
- 12 CONCRETE CAP? YES NO

* Trouble - extracting - HSA,
Retainer hold up PVC - Packed
lock down w/ rig.

To Blm from Ref. 589

LOCATION 0+00 N 15.00 F
JOB NO. _____
DATE 2-26-86
DRILLER L.E for WTD

WATER LEVEL CHECKS

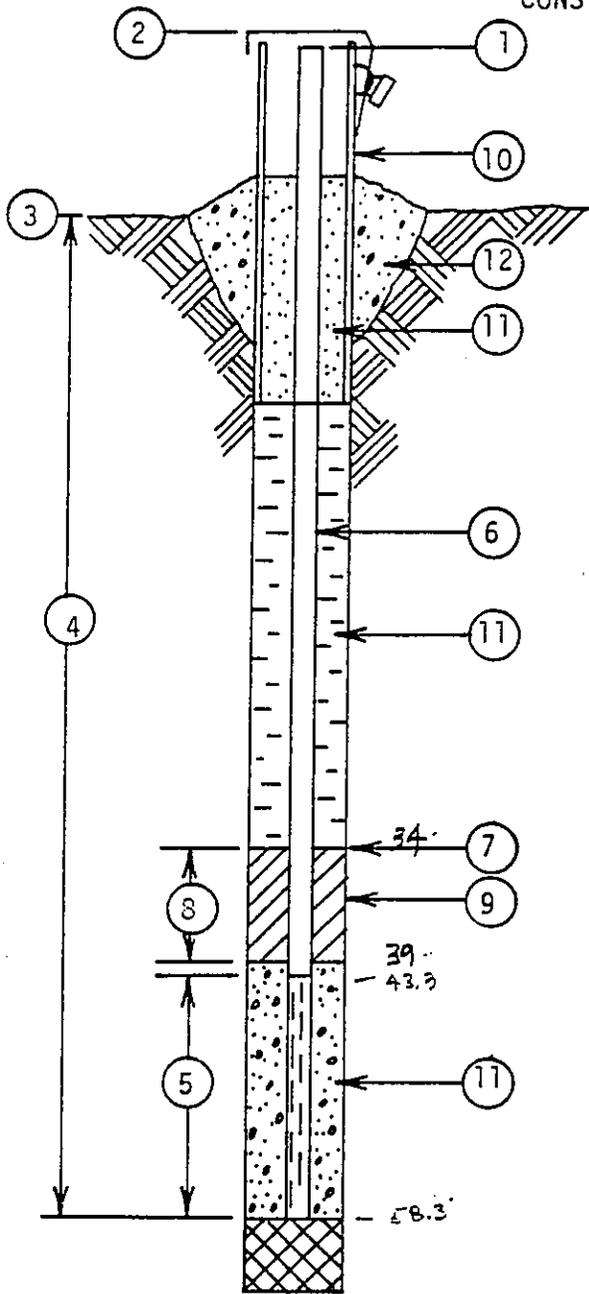
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
2-26	1/2 hr.	45.4		Very muddy
	1:15	47.9		
	2:00	46.8		
2-27	8:30 AM	47.0	863.01	cloudy
2-27	5:30	47.0		
3-7	AM	47.0 (SAD) 47		
3-11	11:00 AM	47.01		

AYRES
ASSOCIATES

Engineers
Architects
Planners
Surveyors

MONITORING WELL DH-30
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 911.94 FEET
- 2 CAP ELEVATION: N/A FEET
- 3 GROUND SURFACE ELEVATION: 909.58 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 58.3 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 34 FEET
- 8 THICKNESS OF SEAL: 5 FEET
- 9 TYPE OF SEAL: Bentonite Pellets
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint Sand
DRILL HOLE Coarse & Bentonite Grout
IN PROTECTIVE TOP Sand
- 12 CONCRETE CAP? YES NO

LOCATION 1400N, 2140E
JOB NO. _____
DATE 2-26
DRILLER L.E.

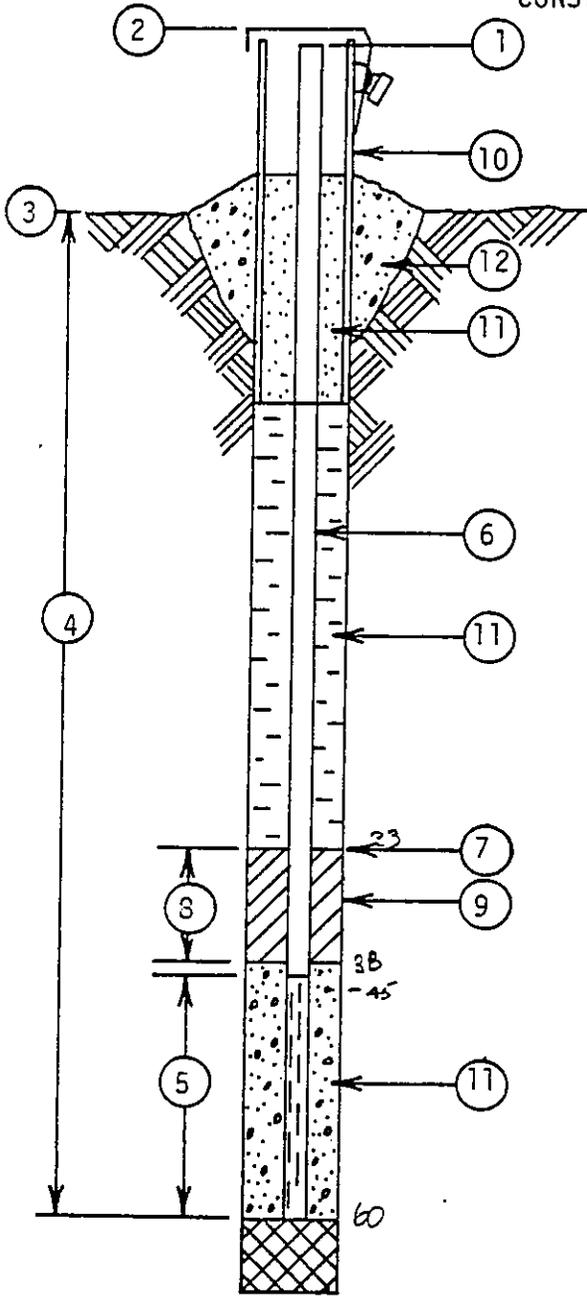
WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
2-27	10:04	47.3'		cloudy - 5.0 gal
"	12:30	47.3 - 47.6		cloudy 8.0 gal
"	2:30	47.3	864.64	10.0 gal

3-7	A.M.	47.5 - 47.5	(60 F)	15 gal
3-11	11:00 AM	47.42	864.52	

MONITORING WELL DH-31
CONSTRUCTION DETAILS



- 1 REFERENCE ELEVATION: 909.05 FEET
- 2 CAP ELEVATION: NA FEET
- 3 GROUND SURFACE ELEVATION: 906.6 FEET
- 4 DEPTH OF WELL FROM GROUND SURFACE: 60.0 FEET
- 5 LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15.0 FEET
- 6 SIZE OF PIPE: 2.0 IN. DIA.
- 7 ELEVATION OF TOP OF SEAL: 33 FEET
- 8 THICKNESS OF SEAL: 5.0 FEET
- 9 TYPE OF SEAL: Bentonite
- 10 PROTECTIVE CASING? YES NO
LOCKING CAP? YES NO
- 11 TYPE OF BACKFILL:
AROUND SCREEN Flint sand
DRILL HOLE Benzol-Corr. Grout
IN PROTECTIVE TOP Sand
- 12 CONCRETE CAP? YES NO

LOCATION _____

JOB NO. _____

DATE 2-27-86

DRILLER L.E. for WTD

WATER LEVEL CHECKS

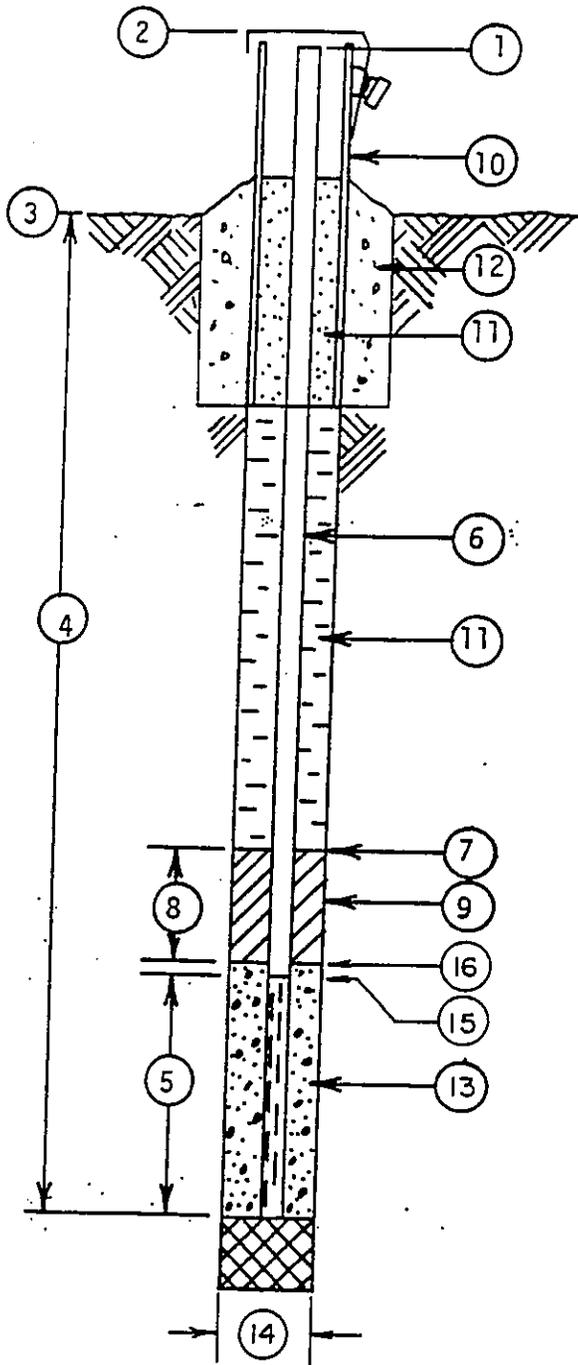
From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS
3-9-86	7:20	45'	864.05	10 gal. removed.
3-7-86	A.M.	45.2-45.05-44.9		15 gal
7-11/86	11:00 AM	44.92	864.13	



MONITORING WELL MW-32

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 901.22 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 898.9 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 36.3 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 884.6 FEET
8. THICKNESS OF SEAL: 2 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT / BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP -
13. FILTER PACK SPECIFICATIONS FUNTSAND #30
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 877.6 FEET
16. ELEV. TOP OF FILTER PACK 882.6 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 13+97N, 17+50E

JOB NO. 8462.00

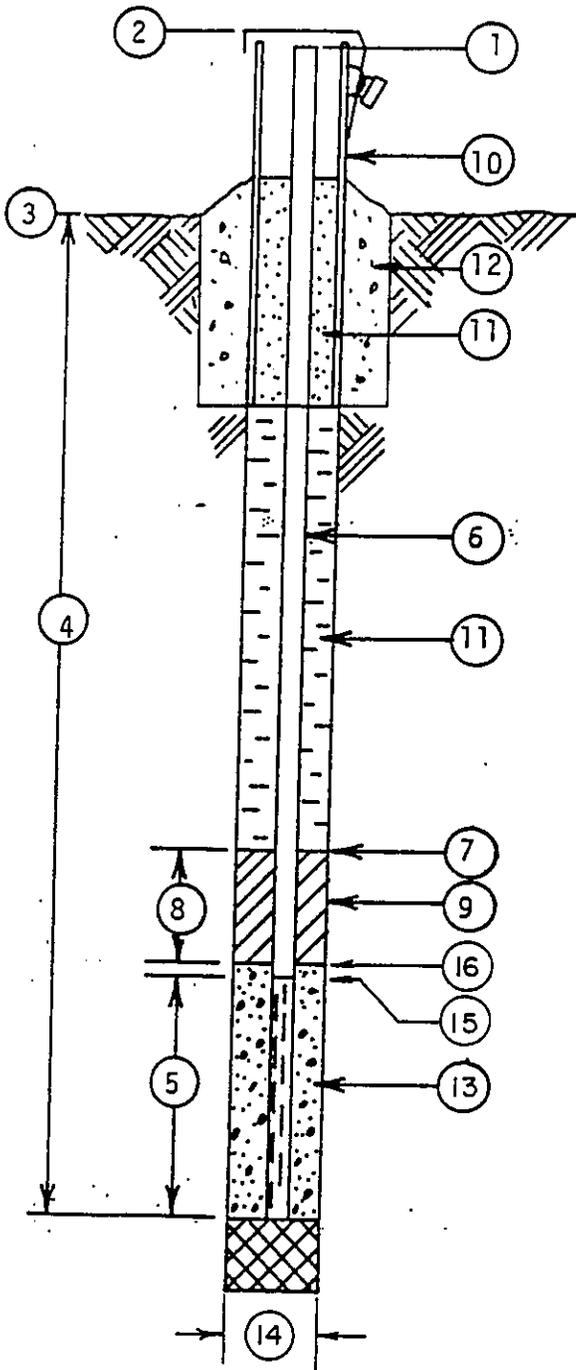
DATE 9/27/88

RILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-33

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 899.63 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 897.9 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 42.1 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. OIA.
7. ELEVATION OF TOP OF SEAL: 877.8 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT/BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP _____
13. FILTER PACK SPECIFICATIONS FLINT SAND #30
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-3 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 870.8 FEET
16. ELEV. TOP OF FILTER PACK 875.8 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

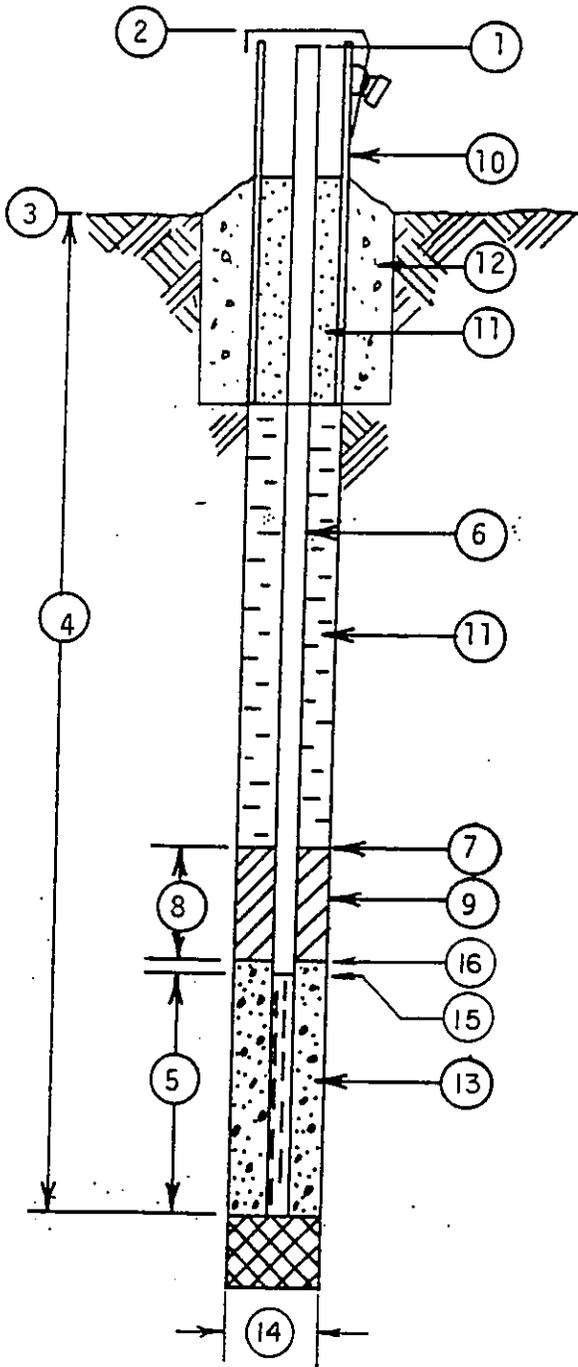
DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 13+73N, 14+00E
 JOB NO. 8462.00
 DATE 9/28/88
 DRILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-33A

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 899.55 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 897.9 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 65.3 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 5 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 844.7 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT/BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP -
13. FILTER PACK SPECIFICATIONS FLINT SAND #30
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 837.7 FEET
16. ELEV. TOP OF FILTER PACK 842.7 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 13+73N, 14+00E

JOB NO. 8462.00

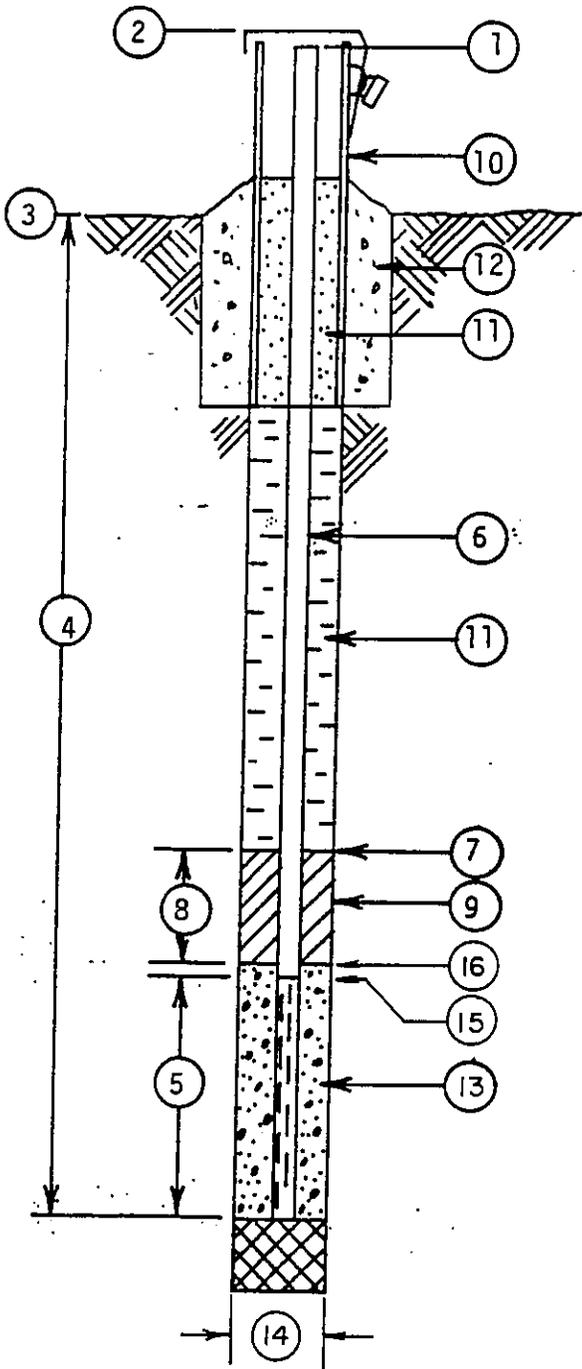
DATE 9/29/88

DRILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-34

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 897.45 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 895.3 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 44.4 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 873.0 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES X NO _____
LOCKING CAP? YES X NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT / BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP -
13. FILTER PACK SPECIFICATIONS FLINT SAND #3
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 866.0 FEET
16. ELEV. TOP OF FILTER PACK 871.0 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

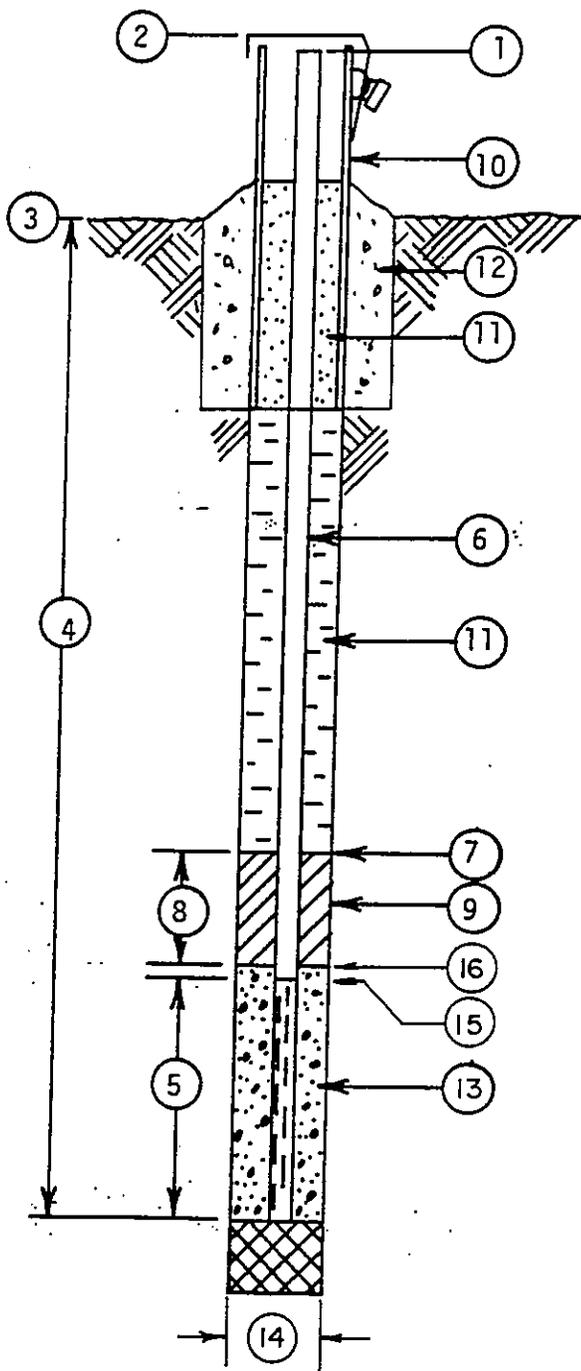
DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 13+49N, 10+50E
 JOB NO. 8462.00
 DATE 9/30/88
 DRILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-35

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 900.53 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 898.3 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 54.8 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 865.5 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT / BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP _____
13. FILTER PACK SPECIFICATIONS FLINTSAND #30
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 858.5 FEET
16. ELEV. TOP OF FILTER PACK 863.5 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 14+20N 7+00E

JOB NO. 8462.00

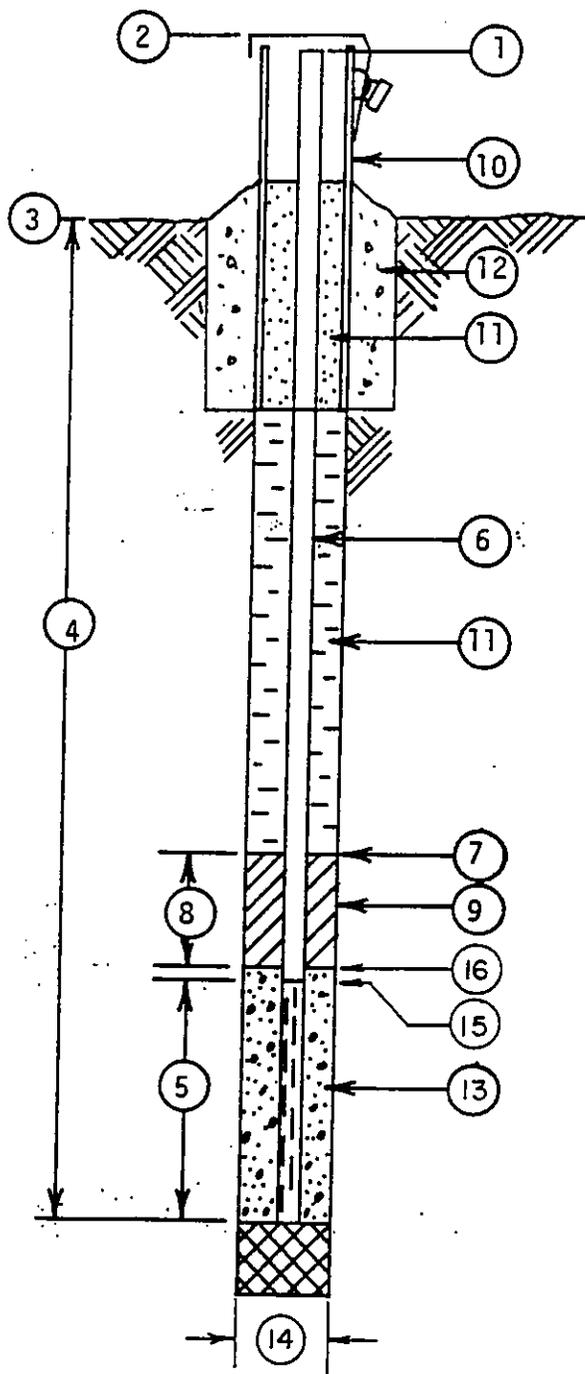
DATE 10/3/88

DRILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-35A

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 900.32 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 898.3 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 82.1 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 5 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 828.2 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT / BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP -
13. FILTER PACK SPECIFICATIONS FLINTSAND #3
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 821.2 FEET
16. ELEV. TOP OF FILTER PACK 826.2 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

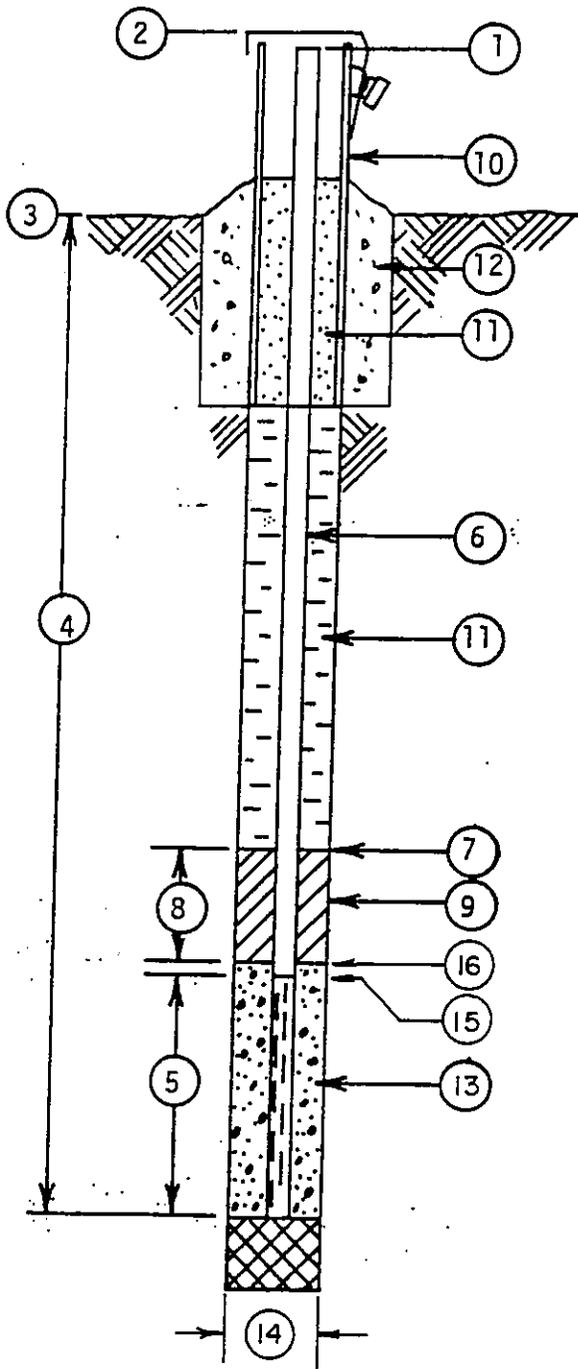
DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 14+20N, 7+00E
 JOB NO. 8462.00
 DATE 10/4/88
 DRILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-36

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 902.35 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 899.9 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 58.8 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
SCREEN SLOT SIZE .010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 863.2 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES X NO _____
LOCKING CAP? YES X NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT/BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP -
13. FILTER PACK SPECIFICATIONS FLINTSAND #30
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 856.2 FEET
16. ELEV. TOP OF FILTER PACK 861.2 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 14+67N, 4+00E

JOB NO. 8462.00

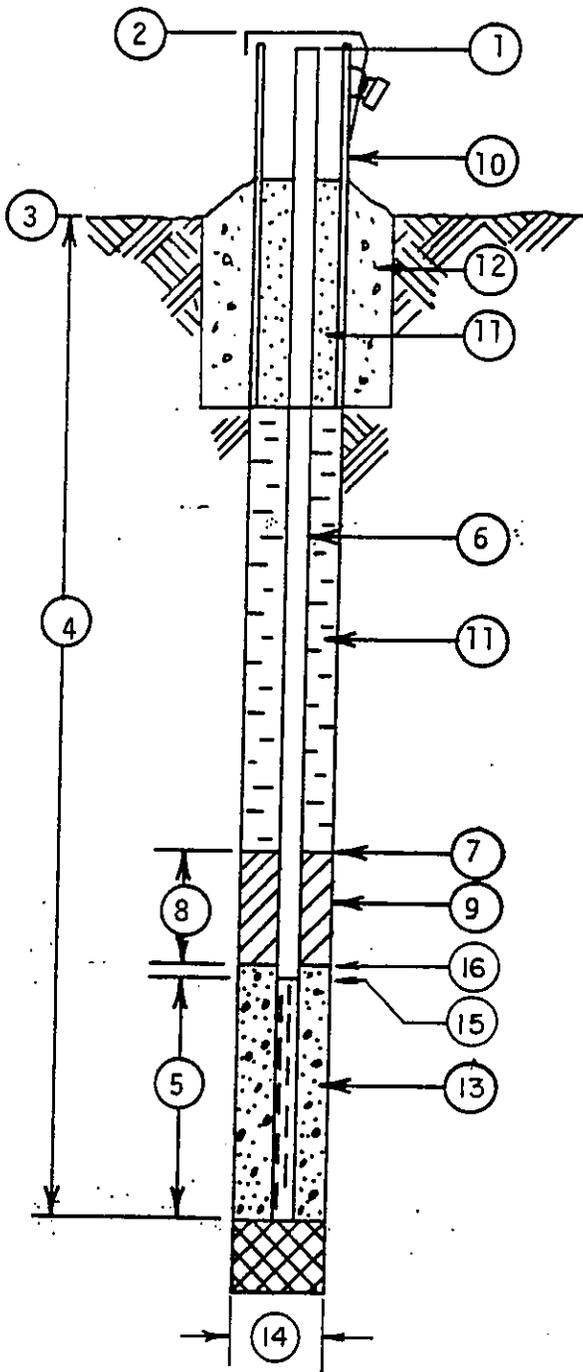
DATE 10/4/88

DRILLER WISCONSIN TEST DRILLING



MONITORING WELL MW-33

CONSTRUCTION DETAILS



1. REFERENCE ELEVATION: 905.43 FEET T.O.C.
2. CAP ELEVATION: _____ FEET
3. GROUND SURFACE ELEVATION: 903.6 FEET
4. DEPTH OF WELL FROM GROUND SURFACE: 64.9 FEET
5. LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE: 15 FEET
SCREEN SLOT SIZE .1010 INCHES
6. SIZE OF PIPE: 2.0 IN. DIA.
7. ELEVATION OF TOP OF SEAL: 860.7 FEET
8. THICKNESS OF SEAL: 2.0 FEET
9. TYPE OF SEAL: BENTONITE PELLETS
10. PROTECTIVE CASING? YES NO _____
LOCKING CAP? YES NO _____
11. TYPE OF IMPERMEABLE BACKFILL:
DRILL HOLE CEMENT/BENTONITE GROUT
IN PROTECTIVE TOP BENTONITE
12. CONCRETE CAP YES
BENTONITE CAP _____
13. FILTER PACK SPECIFICATIONS FLINT SAND
14. BOREHOLE DIAMETER
ABOVE BEDROCK 7-8 INCHES
BELOW BEDROCK SAME
15. ELEV. TOP OF SCREEN 853.7 FEET
16. ELEV. TOP OF FILTER PACK 859.7 FEET
17. DRILLING METHOD
ABOVE BEDROCK 4 1/4" HSA
BELOW BEDROCK SAME

WATER LEVEL CHECKS

From Reference Elevation

DATE	TIME	DEPTH TO WATER	WATER ELEVATION	REMARKS

LOCATION 6+00N. 12+00E
 JOB NO. 8462.00
 DATE 10/5/88
 DRILLER WISCONSIN TEST DRILLING



2003 Monitoring Well Information
(From 2014 FR)

**TABLE 4
 ONYX SEVEN MILE CREEK LANDFILL--SECTOR 2 HORIZONTAL AND VERTICAL EXPANSION
 EXISTING GEOTECHNICAL PROGRAM MONITORING WELL INFORMATION**

Well Location	Current Status	Ground Surface Elevation (ft. m.s.l)	TOC Elevation (ft. m.s.l)	Top of Screen Elevation (ft. m.s.l)	Bottom of Screen Elevation (ft. m.s.l)	Depth of Well Bottom (ft.)	Screen Length (ft.)	Distance From Waste Limits (ft.)
North Expansion Areas								
DH-1	Active	920.30	923.66	875.30	865.30	55.00	10.00	In future waste area
DH-2	Active	908.90	911.85	863.90	853.90	55.00	10.00	In future waste area
DH-2A	Active	908.20	910.81	843.20	838.20	70.00	10.00	In future waste area
DH-24	Active	920.60	923.65	876.60	867.60	53.00	10.00	>150/<300
DH-39	Active	924.73	927.31	885.73	875.73	49.00	10.00	85
DH-39A	Active	924.72	927.19	855.72	850.72	74.00	10.00	78
DH-40	Active	924.14	926.88	885.14	875.14	49.00	10.00	62
DH-41	Active	906.65	909.41	971.65	861.65	45.00	10.00	129
DH-43	Active	907.58	910.16	874.58	864.58	43.00	10.00	173
DH-43A	Active	907.58	910.01	844.58	839.58	68.50	10.00	173
DH-44	Active	916.70	919.36	879.70	869.70	47.00	10.00	In future waste area
DH-44A	Active	916.56	919.28	849.56	844.56	72.00	10.00	In future waste area
DH-45	Active	909.91	912.56	879.91	869.91	40.00	10.00	168
East Expansion Areas								
DH-24	Active	920.60	923.65	876.60	867.60	53.00	10.00	>150/<300
DH-20	Active	910.60	913.40	876.30	866.30	44.30	10.00	>150/<300
DH-20A	Active	910.60	913.23	860.60	855.60	55.00	10.00	>150/<300
DH-32	Active	898.90	901.22	877.60	861.90	37.00	10.00	<150
DH-46	Active	933.34	935.79	911.34	896.34	37.00	10.00	156
DH-46A	Active	933.25	935.93	876.25	871.25	62.00	10.00	161
DH-47	Active	923.18	925.71	910.18	900.18	23.00	10.00	158
DH-47A	Active	922.91	925.25	879.91	874.91	48.00	10.00	151
DH-48	Active	914.21	916.80	902.21	887.21	27.00	10.00	184
DH-49	Active	909.97	912.51	885.47	875.47	35.00	10.00	98
DH-49A	Active	909.97	912.74	854.97	849.97	60.00	10.00	101
DH-50	Active	907.28	910.02	897.28	882.28	25.00	10.00	In future waste area

End of Table 4

Facility Name Onyx Seven Mile Creek Landfill				Facility ID Number 618045450		License, Permit or Monitoring No. 3097				Date 1/10/03		Completed By (Name and Firm) Lori Rosemore- Ayres Associates						
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WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir.		Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Enf. Stds.	Gradient	Distance to Waste
				N	S		Diam.	Type	Top of Well Casing	Ground Surface	MSL	Site Datum	Screen Top	Initial Groundwater	Well Depth						
PE154	DH-39	200	3746.589	X		11/6/02	2	P	927.31	924.73	X		39	45	49	10	11/mw	A		U	123
			2160.532	X																	
PE155	DH-39A	202	3739.790	X		11/6/02	2	P	927.19	924.72	X		69	45	74	5	12/pz	A		U	118
			2159.398	X																	
PE156	DH-40	204	3289.332	X		11/5/02	2	P	926.88	924.14	X		39	44	49	10	11/mw	A		U	125
			2190.129	X																	
PE106	DH-41	206	2875.582	X		11/12/02	2	P	909.41	906.65	X		35	40	45	10	11/mw	A		D	128
			704.780	X																	
PE157	DH-43	208	3298.687	X		11/4/02	2	P	910.16	907.58	X		33	35	43	10	11/mw	A		D	173
			897.877	X																	
PE158	DH-43A	210	3294.428	X		11/5/02	2	P	910.01	907.58	X		63	35	68	5	12/pz	A		D	173
			894.677	X																	
PE159	DH-44	212	3282.941	X		11/11/02	2	P	919.36	916.70	X		37	40	47	10	11/mw	A		*	*
			1649.835	X																	
PE160	DH-44A	214	3283.260	X		11/11/02	2	P	919.28	916.56	X		67	40	72	5	12/pz	A		*	*
			1643.800	X																	
PE185	DH-45	216	3836.338	X		11/13/02	2	P	912.56	909.91	X		30	34	40	10	11/mw	A		S	168
			1295.481	X																	
PE172	DH-46	218	2706.687	X		11/19/02	2	P	935.79	933.34	X		22	39	37	15	11/mw	A		U	164
			2805.754	X																	
PE173	DH-46A	220	2706.469	X		11/20/02	2	P	935.93	933.25	X		57	39	62	5	12/pz	A		U	169
			2812.797	X																	

Location Coordinates Are: <input type="checkbox"/> State Plane Coordinate <input type="checkbox"/> Northern <input type="checkbox"/> Central <input type="checkbox"/> Southern		<input checked="" type="checkbox"/> Local Grid System		Grid Origin Location: (check if estimated: <input type="checkbox"/>) Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or St. Plane _____ ft. N. _____ ft. E. S/C/N Zone		Remarks: * Center of proposed waste fill area	
--	--	---	--	--	--	---	--

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is used by the Department for the purposes related to the waste management program.

Facility Name				Facility ID Number		License, Permit or Monitoring No.			Date		Completed By (Name and Firm)											
Onyx Seven Mile Creek Landfill				618045450		3097			1/10/03		Lori Rosemore- Ayres Associates											
WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir.		Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Enf. Stds.	Grad- ient	Distance to Waste	
				N E	S W		Diam.	Type	Top of Well Casing	Ground Surface	MSL	Site Datum	Screen Top	Initial Groundwater	Well Depth							
PE174	DH-47	222	2053.010	X		11/25/02	2	P	925.71	923.18	X		13	15	23	10	11/mw	A		U	158	
			2850.443	X																		
PE175	DH-47A	224	2054.131	X		11/25/02	2	P	925.25	922.91	X		43	15	48	5	12/pz	A		U	151	
			2843.323	X																		
PE171	DH-48	226	1444.427	X		11/16/02	2	P	916.80	914.21	X		12	19	27	15	11/mw	A		S	185	
			2836.010	X																		
PE187	DH-49	228	1461.012	X		11/13/02	2	P	912.51	909.97	X		24.5	35	34.5	10	11/mw	A		D	98	
			2131.413	X																		
PE188	DH-49A	230	1458.098	X		11/13/02	2	P	912.74	909.97	X		55	35	60	5	12/pz	A		D	101	
			2135.998	X																		
PE200	DH-50	232	2104.234	X		11/18/02	2	P	910.02	907.28	X		10	15	25	15	11/mw	A		*	*	
			2205.254	X																		

Location Coordinates Are:

State Plane Coordinate Local Grid System

Northern Central Southern

Grid Origin Location: (check if estimated:)

Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or

St. Plane _____ ft. N. _____ ft. E. S/C/N Zone

Remarks: * Center of proposed waste fill area

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is used by the Department for the purposes related to the waste management program.

Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 6-97

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3746.589 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2160.532 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-39
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 154 DNR Well Number
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/06/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) D. Morris
Distance Well Is From Waste/Source Boundary 123 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 927.31 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 7.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/>
C. Land surface elevation 924.7 ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: 3" Bumper Post
D. Surface seal, bottom 889.7 ft. MSL or 35.0 ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
12. USC 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 checked="" 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"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3 0 Other <input checked="" type="checkbox"/> #40 Badger
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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. 11.14 Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8
14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/>
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 type="checkbox"/> 9 9	7. Fine sand material: Manufacturer, product name and mesh size a. #7 Badger b. Volume added 0.64 ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. #40 Badger b. Volume added 4.87 ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2 4 Other <input type="checkbox"/>
E. Bentonite seal, top 924.5 ft. MSL or 0.2 ft.	10. Screen material: PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/>
F. Fine sand, top 889.7 ft. MSL or 35.0 ft.	b. Manufacturer Boart Longyear c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
G. Filter pack, top 887.7 ft. MSL or 37.0 ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/>
H. Screen joint, top 885.7 ft. MSL or 39.0 ft.	
I. Well bottom 875.7 ft. MSL or 49.0 ft.	
J. Filter pack, bottom 872.7 ft. MSL or 52.0 ft.	
K. Borehole, bottom 872.7 ft. MSL or 52.0 ft.	
L. Borehole, diameter 8.0 in.	
M. O.D. well casing 2.37 in.	
N. I.D. well casing 1.94 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Frank Maenner Firm: Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste ___ Waste Water ___
Env. Response & Repair ___ Underground Tanks ___ Other ___

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill		County Name Eau Claire	Well Name DH-39
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number PE 154
		DNR Well Number	
1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed _____ 1 surged with bailer and pumped <input checked="" type="checkbox"/> 61 surged with block and bailed _____ 42 surged with block and pumped _____ 62 surged with block, bailed and pumped _____ 70 compressed air _____ 20 bailed only _____ 10 pumped only _____ 51 pumped slowly _____ 50 Other _____		Before Development 11. Depth to Water (from top of well casing) a. <u>45.40</u> ft. Date b. <u>11 / 22 / 02</u> mm dd yy Time c. <u>9:30</u> <input checked="" type="checkbox"/> a.m. p.m.	
3. Time spent developing well <u>55</u> min. 4. Depth of well (from top of well casing) <u>51.30</u> ft. 5. Inside diameter of well <u>1.94</u> in. 6. Volume of water in filter pack and well <u>5.01</u> gal. 7. Volume of water removed from well <u>60</u> gal. 8. Volume of water added (if any) <u>N/A</u> gal. 9. Source of water added <u>N/A</u>		After Development 11. Depth to Water (from top of well casing) <u>45.44</u> ft. Date <u>11 / 22 / 02</u> mm dd yy Time <u>10:25</u> <input checked="" type="checkbox"/> a.m. p.m. 12. Sediment in well bottom <u>2</u> inches 13. Water clarity Clear _____ 10 Turbid <input checked="" type="checkbox"/> 15 Describe Light Brown _____ High _____ Clear _____ Low _____	
10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)		Fill in if drilling fluids were used and well is at solid waste facility: 14. Total suspended solids _____ mg/l <u>10.0</u> mg/l 15. COD _____ mg/l _____ mg/l	

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	15	5.4	150	Light Brown / High	No
10	12	5.4	150	Light Brown / Medium	No
20	12	5.4	140	Light Brown / Medium	No
30	12	5.1	140	Light Brown / Medium Low	No
40	11	4.9	140	Tan / Medium Low	No
50	12	4.9	140	Clear / Low	No
60	11	4.9	140	Clear / Low	No

Well developed by: Person's Name and Firm

Name: Paul Dickenson
Firm: Boart Longyear
101 Alderson St., Schofield, WI 54476

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

Signature: Frank W. Maenner
Print Initials: F.W.M.
Firm: Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3739.79 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2159.398 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-39A
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. / DNR Well Number PE 155
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/07/2002
Type of Well Well Code 12/pz	Section Location of Waste/Source NE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) D. Morris
Distance Well Is From Waste/Source Boundary 118 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 927.19 ft. MSL
- C. Land surface elevation 924.7 ft. MSL
- D. Surface seal, bottom 920.7 ft. MSL or 4.0 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

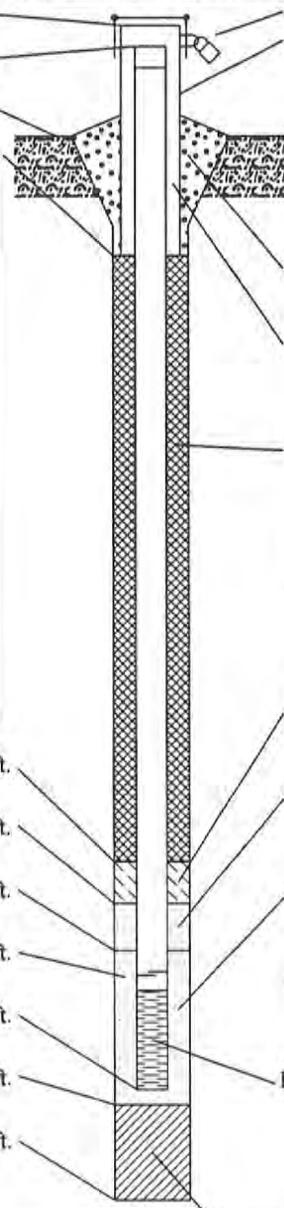
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4.0 in.
 - b. Length: 7.0 ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: 3" Bumper Post
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
#40 Badger Other
- 5. Annular space seal:
 - a. Granular Bentonite 3 3
 - b. _____ Lbs/gal mud weight . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 - e. 20.7 Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
 a. #7 Badger
 b. Volume added 0.64 ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 a. #40 Badger
 b. Volume added 2.58 ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: PVC
 - a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other
 - b. Manufacturer Boart Longyear
 - c. Slot size: 0.010 in.
 - d. Slotted length: 5.0 ft.
- 11. Backfill material (below filter pack): None 1 4
Other

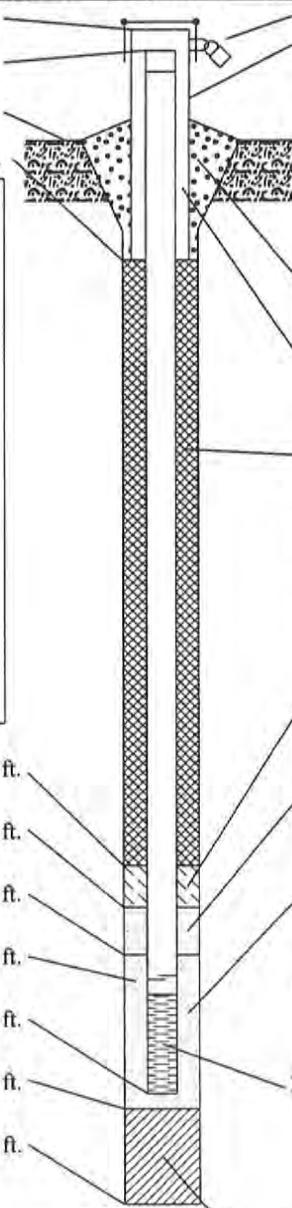
- E. Bentonite seal, top 889.7 ft. MSL or 35.0 ft.
- F. Fine sand, top 859.7 ft. MSL or 65.0 ft.
- G. Filter pack, top 857.7 ft. MSL or 67.0 ft.
- H. Screen joint, top 855.7 ft. MSL or 69.0 ft.
- I. Well bottom 850.7 ft. MSL or 74.0 ft.
- J. Filter pack, bottom 849.7 ft. MSL or 75.0 ft.
- K. Borehole, bottom 849.7 ft. MSL or 75.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: Frank Maenner Firm: Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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 Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3289.332 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2190.129 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-40
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 156 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/06/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) D. Morris
Distance Well Is From Waste/Source Boundary 125 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>926.88</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>924.1</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
D. Surface seal, bottom <u>889.1</u> ft. MSL or <u>35.0</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Other <input checked="" type="checkbox"/> #40 Badger
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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. <u>11.1</u> 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
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ 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 type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>7.30</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>923.9</u> ft. MSL or <u>0.2</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>889.1</u> ft. MSL or <u>35.0</u> ft.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>887.1</u> ft. MSL or <u>37.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>885.1</u> ft. MSL or <u>39.0</u> ft.	
I. Well bottom <u>875.1</u> ft. MSL or <u>49.0</u> ft.	
J. Filter pack, bottom <u>874.1</u> ft. MSL or <u>50.0</u> ft.	
K. Borehole, bottom <u>865.1</u> ft. MSL or <u>59.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>1.94</u> in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Frank Maenner Firm: Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 2875.582 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 704.78 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-41
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 106 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/12/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) P. Dickinson
Distance Well Is From Waste/Source Boundary 128 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 909.41 ft. MSL
- C. Land surface elevation 906.7 ft. MSL
- D. Surface seal, bottom 875.7 ft. MSL or 31.0 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

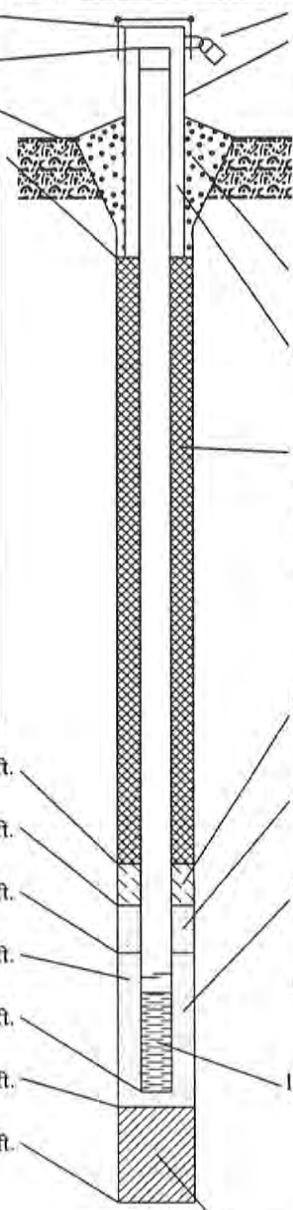
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4.0 in.
 - b. Length: 7.0 ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: 3" Bumper Post
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
Sand
- 5. Annular space seal:
 - a. Granular Bentonite 3 3
 - b. _____ Lbs/gal mud weight . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 - e. 9.55 Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
 a. #7 Badger
 b. Volume added 0.64 ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 a. #40 Badger
 b. Volume added 6.27 ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: PVC
 - a. Screen Type: Factory cut 1 1
Continuous slot 0 1
Other
 - b. Manufacturer Boart Longyear
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10.0 ft.
- 11. Backfill material (below filter pack): None 1 4
Other

- E. Bentonite seal, top 905.7 ft. MSL or 1.0 ft.
- F. Fine sand, top 875.7 ft. MSL or 31.0 ft.
- G. Filter pack, top 873.7 ft. MSL or 33.0 ft.
- H. Screen joint, top 871.7 ft. MSL or 35.0 ft.
- I. Well bottom 861.7 ft. MSL or 45.0 ft.
- J. Filter pack, bottom 854.7 ft. MSL or 52.0 ft.
- K. Borehole, bottom 854.7 ft. MSL or 52.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

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

Signature: Frank Maenner Firm: Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste ___ Waste Water ___
Env. Response & Repair ___ Underground Tanks ___ Other ___

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill		County Name Eau Claire	Well Name DH-41
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number PE 106
1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed _____ 1 surged with bailer and pumped <input checked="" type="checkbox"/> _____ 61 surged with block and bailed _____ 42 surged with block and pumped _____ 62 surged with block, bailed and pumped _____ 70 compressed air _____ 20 bailed only _____ 10 pumped only _____ 51 pumped slowly _____ 50 Other _____		11. Depth to Water (from top of well casing) a. <u>40.94</u> ft. Before Development Date <u>11 / 15 / 02</u> Time <u>7:45</u> <input checked="" type="checkbox"/> a.m. / p.m. 12. Sediment in well bottom <u>1</u> inches 13. Water clarity Clear _____ 10 Turbid <input checked="" type="checkbox"/> _____ 15 Describe <u>Dark Brown</u> <u>High</u>	After Development <u>40.97</u> ft. <u>11 / 15 / 02</u> <u>9:15</u> <input checked="" type="checkbox"/> a.m. / p.m. <u>0</u> inches Clear <input checked="" type="checkbox"/> _____ 20 Turbid _____ 25 Describe <u>Clear</u> <u>Low</u>
3. Time spent developing well <u>90</u> min.		Fill in if drilling fluids were used and well is at solid waste facility:	
4. Depth of well (from top of well casing) <u>48.00</u> ft.		14. Total suspended solids _____ mg/l <u><4.00</u> mg/l	
5. Inside diameter of well <u>1.94</u> in.		15. COD _____ mg/l	
6. Volume of water in filter pack and well <u>6.6</u> gal.			
7. Volume of water removed from well <u>70</u> gal.			
8. Volume of water added (if any) <u>N/A</u> gal.			
9. Source of water added <u>N/A</u>			
10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)			

Additional comments on development:

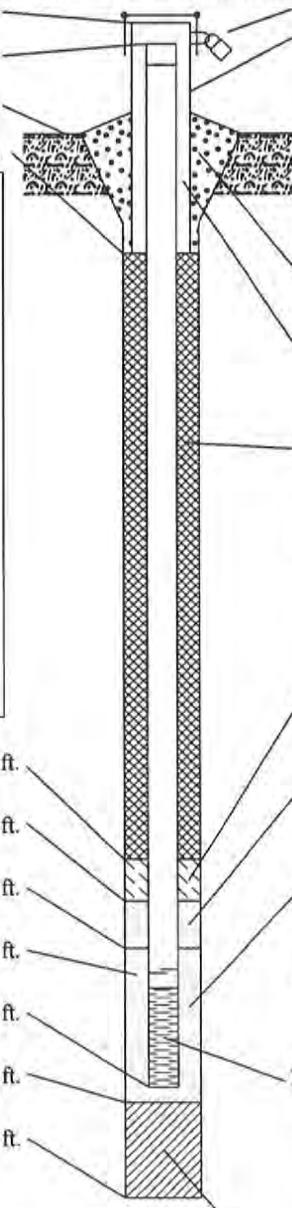
Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
10	8	6.0	145	Dark Brown / High	No
20	8	5.9	140	Brown / Medium High	No
30	8	5.7	150	Light Brown / Medium	No
40	9	5.7	150	Tan / Medium Low	No
50	9	5.6	150	Milky / Low	No
60	8	5.7	155	Clear / Low	No
70	8	5.6	155	Clear / Low	No

Well developed by: Person's Name and Firm Name: <u>Dave Morris</u> Firm: <u>Boart Longyear</u> <u>101 Alderson St., Schofield, WI 54476</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u>Frank W. Maenner</u> Print Initials: <u>F.W.M.</u> Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3298.687 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 897.877 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-43
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No/DNR Well Number PE 157
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/05/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) D. Morris
Distance Well Is From Waste/Source Boundary 173 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>910.16</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in.
C. Land surface elevation <u>907.6</u> ft. MSL	b. Length: <u>7.0</u> ft.
D. Surface seal, bottom <u>878.6</u> ft. MSL or <u>29.0</u> ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
12. USC 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 checked="" 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"/>	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>#40 Badger</u> Other <input checked="" type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99	5. Annular space seal: a. Granular 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. <u>9.23</u> 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
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis): _____	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
E. Bentonite seal, top <u>907.4</u> ft. MSL or <u>0.2</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>5.22</u> ft ³
F. Fine sand, top <u>878.6</u> ft. MSL or <u>29.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
G. Filter pack, top <u>876.6</u> ft. MSL or <u>31.0</u> ft.	10. Screen material: <u>PVC</u>
H. Screen joint, top <u>874.6</u> ft. MSL or <u>33.0</u> ft.	a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
I. Well bottom <u>864.6</u> ft. MSL or <u>43.0</u> ft.	b. Manufacturer <u>Boart Longyear</u>
J. Filter pack, bottom <u>860.6</u> ft. MSL or <u>47.0</u> ft.	c. Slot size: <u>0.010</u> in.
K. Borehole, bottom <u>860.6</u> ft. MSL or <u>47.0</u> ft.	d. Slotted length: <u>10.0</u> ft.
L. Borehole, diameter <u>8.0</u> in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>1.94</u> in.	



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

Signature Frank Maenner

Firm Ayres Associates

Tel:
Fax:

Route to: Solid Waste Haz. Waste ___ Waste Water ___
Env. Response & Repair ___ Underground Tanks ___ Other ___

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	County Name Eau Claire	Well Name DH-43
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number PE 157

<p>1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No</p> <p>2. Well Development method</p> <table style="width:100%;"> <tr><td>surged with bailer and bailed</td><td style="text-align: right;">1</td></tr> <tr><td>surged with bailer and pumped</td><td style="text-align: right;"><input checked="" type="checkbox"/> 61</td></tr> <tr><td>surged with block and bailed</td><td style="text-align: right;">___ 42</td></tr> <tr><td>surged with block and pumped</td><td style="text-align: right;">___ 62</td></tr> <tr><td>surged with block, bailed and pumped</td><td style="text-align: right;">___ 70</td></tr> <tr><td>compressed air</td><td style="text-align: right;">___ 20</td></tr> <tr><td>bailed only</td><td style="text-align: right;">___ 10</td></tr> <tr><td>pumped only</td><td style="text-align: right;">___ 51</td></tr> <tr><td>pumped slowly</td><td style="text-align: right;">___ 50</td></tr> <tr><td>Other _____</td><td style="text-align: right;">___</td></tr> </table> <p>3. Time spent developing well 51 min.</p> <p>4. Depth of well (from top of well casing) 45.55 ft.</p> <p>5. Inside diameter of well 1.94 in.</p> <p>6. Volume of water in filter pack and well 6.3 gal.</p> <p>7. Volume of water removed from well 70 gal.</p> <p>8. Volume of water added (if any) N/A gal.</p> <p>9. Source of water added N/A</p> <p>10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)</p>	surged with bailer and bailed	1	surged with bailer and pumped	<input checked="" type="checkbox"/> 61	surged with block and bailed	___ 42	surged with block and pumped	___ 62	surged with block, bailed and pumped	___ 70	compressed air	___ 20	bailed only	___ 10	pumped only	___ 51	pumped slowly	___ 50	Other _____	___	<p>11. Depth to Water (from top of well casing)</p> <p style="text-align: center;">Before Development</p> <p>a. 38.71 ft.</p> <p style="text-align: center;">After Development</p> <p style="text-align: center;">38.72 ft.</p> <p>Date b. 11 / 14 / 02 mm dd yy</p> <p>Time c. 1:45 <input checked="" type="checkbox"/> a.m. p.m.</p> <p>12. Sediment in well bottom 1 inches</p> <p>13. Water clarity</p> <table style="width:100%;"> <tr><td>Clear</td><td style="text-align: right;">___ 10</td></tr> <tr><td>Turbid</td><td style="text-align: right;"><input checked="" type="checkbox"/> 15</td></tr> <tr><td>Describe</td><td style="text-align: right;">___</td></tr> <tr><td>Dark Brown</td><td style="text-align: right;">___</td></tr> <tr><td>Very High</td><td style="text-align: right;">___</td></tr> <tr><td> </td><td style="text-align: right;">___</td></tr> <tr><td> </td><td style="text-align: right;">___</td></tr> </table> <p>Fill in if drilling fluids were used and well is at solid waste facility:</p> <p>14. Total suspended solids < 3.60 mg/l</p> <p>15. COD _____ mg/l</p>	Clear	___ 10	Turbid	<input checked="" type="checkbox"/> 15	Describe	___	Dark Brown	___	Very High	___		___		___	<p style="text-align: center;">After Development</p> <p style="text-align: center;">38.72 ft.</p> <p style="text-align: center;">11 / 14 / 02 mm dd yy</p> <p style="text-align: center;">2:36 <input checked="" type="checkbox"/> a.m. p.m.</p> <p style="text-align: center;">0 inches</p> <table style="width:100%;"> <tr><td>Clear</td><td style="text-align: right;"><input checked="" type="checkbox"/> 20</td></tr> <tr><td>Turbid</td><td style="text-align: right;">___ 25</td></tr> <tr><td>Describe</td><td style="text-align: right;">___</td></tr> <tr><td>Clear</td><td style="text-align: right;">___</td></tr> <tr><td>Low</td><td style="text-align: right;">___</td></tr> <tr><td> </td><td style="text-align: right;">___</td></tr> <tr><td> </td><td style="text-align: right;">___</td></tr> </table>	Clear	<input checked="" type="checkbox"/> 20	Turbid	___ 25	Describe	___	Clear	___	Low	___		___		___
surged with bailer and bailed	1																																																	
surged with bailer and pumped	<input checked="" type="checkbox"/> 61																																																	
surged with block and bailed	___ 42																																																	
surged with block and pumped	___ 62																																																	
surged with block, bailed and pumped	___ 70																																																	
compressed air	___ 20																																																	
bailed only	___ 10																																																	
pumped only	___ 51																																																	
pumped slowly	___ 50																																																	
Other _____	___																																																	
Clear	___ 10																																																	
Turbid	<input checked="" type="checkbox"/> 15																																																	
Describe	___																																																	
Dark Brown	___																																																	
Very High	___																																																	

Clear	<input checked="" type="checkbox"/> 20																																																	
Turbid	___ 25																																																	
Describe	___																																																	
Clear	___																																																	
Low	___																																																	

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
10	10	5.1	210	Dark Brown / Very High	No
20	9	5.0	210	Brown / High	No
30	9	5.0	210	Light Brown / Medium High	No
40	9	5.0	210	Tan / Medium	No
50	10	5.0	210	Milky / Medium Low	No
60	9	5.0	210	Clear / Low	No
70	10	4.9	210	Clear / Low	No

Well developed by: Person's Name and Firm Name: <u>Mike Mueller</u> Firm: <u>Boart Longyear</u> <u>101 Alderson St., Schofield, WI 54476</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u>Frank W. Maenner</u> Print Initials: <u>F.W.M.</u> Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3294.428 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 894.677 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-43A
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 158 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/05/2002
Type of Well Well Code 12/pz	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) D. Morris
Distance Well Is From Waste/Source Boundary 173 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 910.01 ft. MSL
- C. Land surface elevation 907.6 ft. MSL
- D. Surface seal, bottom 903.6 ft. MSL or 4.0 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

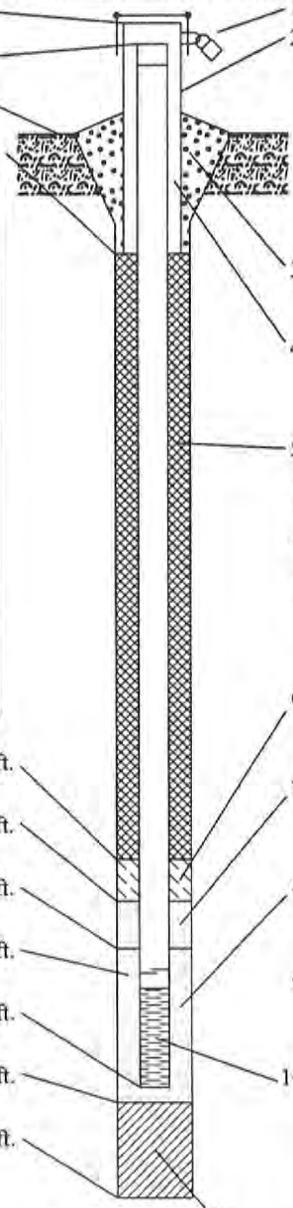
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4.0 in.
 - b. Length: 7.0 ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: 3" Bumper Post
- 3. Surface seal:
 - Bentonite 30
 - Concrete 01
 - Other
- 4. Material between well casing and protective pipe:
 - Bentonite 30
 - #40 Badger Other
- 5. Annular space seal:
 - a. Granular 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. 18.8 Ft³ 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 pellets 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
 - a. #7 Badger
 - b. Volume added 0.64 ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 - a. #40 Badger
 - b. Volume added 2.92 ft³
- 9. Well casing:
 - Flush threaded PVC schedule 40 23
 - Flush threaded PVC schedule 80 24
 - Other
- 10. Screen material: PVC
 - a. Screen Type:
 - Factory cut 11
 - Continuous slot 01
 - Other
 - b. Manufacturer Boart Longyear
 - c. Slot size: 0.010 in.
 - d. Slotted length: 5.0 ft.
- 11. Backfill material (below filter pack):
 - None 14
 - Other

- E. Bentonite seal, top 887.6 ft. MSL or 20.0 ft.
- F. Fine sand, top 848.6 ft. MSL or 59.0 ft.
- G. Filter pack, top 846.6 ft. MSL or 61.0 ft.
- H. Screen joint, top 844.6 ft. MSL or 63.0 ft.
- I. Well bottom 839.6 ft. MSL or 68.0 ft.
- J. Filter pack, bottom 837.6 ft. MSL or 70.0 ft.
- K. Borehole, bottom 837.6 ft. MSL or 70.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: Frank Maenner Firm: Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste Waste Water
Env. Response & Repair Underground Tanks Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill		County Name Eau Claire	Well Name DH-43A	
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number PE 158	DNR Well Number
1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed _____ 1 surged with bailer and pumped <input checked="" type="checkbox"/> 61 surged with block and bailed _____ 42 surged with block and pumped _____ 62 surged with block, bailed and pumped _____ 70 compressed air _____ 20 bailed only _____ 10 pumped only _____ 51 pumped slowly _____ 50 Other _____		11. Depth to Water (from top of well casing) a. <u>38.60</u> ft. Date <u>11 / 14 / 02</u> mm dd yy Time <u>2:40</u> <input checked="" type="checkbox"/> a.m. p.m.		After Development <u>38.62</u> ft. <u>11 / 14 / 02</u> mm dd yy <u>4:40</u> <input checked="" type="checkbox"/> a.m. p.m.
3. Time spent developing well <u>120</u> min.		12. Sediment in well bottom <u>1</u> inches		13. Water clarity Clear _____ 10 Turbid <input checked="" type="checkbox"/> 15 Describe _____
4. Depth of well (from top of well casing) <u>70.10</u> ft.		Dark Brown _____ High _____		Clear _____ Low _____
5. Inside diameter of well <u>1.94</u> in.		_____		_____
6. Volume of water in filter pack and well <u>6.6</u> gal.		_____		_____
7. Volume of water removed from well <u>60</u> gal.		_____		_____
8. Volume of water added (if any) <u>N/A</u> gal.		Fill in if drilling fluids were used and well is at solid waste facility:		
9. Source of water added <u>N/A</u>		14. Total suspended solids _____ mg/l		<u>17.1</u> mg/l
10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)		15. COD _____ mg/l		_____ mg/l

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	8	5.6	50	Dark Brown / Very High	No
10	8	5.3	50	Yellow Brown / High	No
20	7	5.2	50	Light Brown / Medium	No
30	8	5.2	50	Milky / Low	No
40	9	5.2	50	Light Brown / Medium	No
50	9	5.2	50	Clear / Low	No
60	9	5.1	50	Clear / Low	No

Well developed by: Person's Name and Firm

Name: Mike Mueller
Firm: Boart Longyear
101 Alderson St., Schofield, WI 54476

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

Signature: Frank W. Manner
Print Initials: F.W.M.
Firm: Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3282.941 ft. <input checked="" type="checkbox"/> N, <input type="checkbox"/> S, 1649.835 ft. <input checked="" type="checkbox"/> E, <input type="checkbox"/> W	Well Name DH-44
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 159 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N _____	Date Well Installed 11/11/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input checked="" type="checkbox"/> E, <input type="checkbox"/> W	Well Installed By: (Person's Name and Firm) P. Dickinson
Distance Well Is From Waste/Source Boundary 0 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 919.36 ft. MSL
- C. Land surface elevation 916.7 ft. MSL
- D. Surface seal, bottom 883.7 ft. MSL or 33.0 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

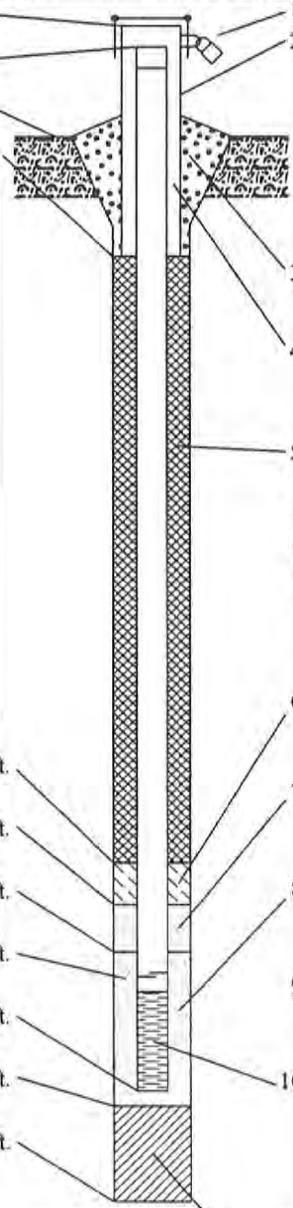
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4.0 in.
 - b. Length: 7.0 ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: 3" Bumper Post
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
Sand
- 5. Annular space seal:
 - a. Granular 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. 10.2 Ft³ 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 pellets 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
 a. #7 Badger
 b. Volume added 0.64 ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 a. #40 Badger
 b. Volume added 4.17 ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 - a. Screen Type: Factory cut 11
Continuous slot 01
Other
 - b. Manufacturer Boart Longyear
 - c. Slot size: 0.010 in.
 - d. Slotted length: 10.0 ft.
- 11. Backfill material (below filter pack): None 14
Other

- E. Bentonite seal, top 915.7 ft. MSL or 1.0 ft.
- F. Fine sand, top 883.7 ft. MSL or 33.0 ft.
- G. Filter pack, top 881.7 ft. MSL or 35.0 ft.
- H. Screen joint, top 879.7 ft. MSL or 37.0 ft.
- I. Well bottom 869.7 ft. MSL or 47.0 ft.
- J. Filter pack, bottom 868.7 ft. MSL or 48.0 ft.
- K. Borehole, bottom 868.7 ft. MSL or 48.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste ___ Waste Water ___
Env. Response & Repair ___ Underground Tanks ___ Other ___

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill		County Name Eau Claire	Well Name DH-44	
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number PE 159	DNR Well Number
1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed _____ 1 surged with bailer and pumped <input checked="" type="checkbox"/> 61 surged with block and bailed _____ 42 surged with block and pumped _____ 62 surged with block, bailed and pumped _____ 70 compressed air _____ 20 bailed only _____ 10 pumped only _____ 51 pumped slowly _____ 50 Other _____		11. Depth to Water (from top of well casing) a. <u>42.33</u> ft. Date <u>12 / 2 / 02</u> mm dd yy Time <u>12:30</u> <input checked="" type="checkbox"/> a.m. p.m. 12. Sediment in well bottom <u>1</u> inches 13. Water clarity Clear _____ 10 Turbid <input checked="" type="checkbox"/> 15 Describe _____ Dark Brown _____ High _____ _____		After Development <u>42.39</u> ft. <u>12 / 2 / 02</u> mm dd yy <u>2:00</u> <input checked="" type="checkbox"/> a.m. p.m. <u>0</u> inches Clear <input checked="" type="checkbox"/> 20 Turbid _____ 25 Describe _____ Clear _____ Low _____ _____
3. Time spent developing well <u>90</u> min.		Fill in if drilling fluids were used and well is at solid waste facility:		
4. Depth of well (from top of well casing) <u>50.00</u> ft.		14. Total suspended solids _____ mg/l <u>28.7</u> mg/l		
5. Inside diameter of well <u>1.94</u> in.		15. COD _____ mg/l		
6. Volume of water in filter pack and well <u>6.7</u> gal.				
7. Volume of water removed from well <u>67</u> gal.				
8. Volume of water added (if any) <u>N/A</u> gal.				
9. Source of water added <u>N/A</u>				
10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)				

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	10	5.8	110	Dark Brown / High	No
10	10	5.9	110	Brown / High	No
20	10	5.8	105	Light Brown / Medium High	No
30	10	5.8	105	Tan / Medium	No
40	10	5.8	100	Milky / Low	No
50	10	5.8	100	Clear / Low	No
60	10	5.8	105	Clear / Low	No
67	10	5.8	100	Clear / Low	No

Well developed by: Person's Name and Firm Name: <u>Mike Mueller</u> Firm: <u>Boart Longyear</u> <u>101 Alderson St., Schofield, WI 54476</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u>Frank W. Maenner</u> Print Initials: <u>F.W.M.</u> Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name <u>Onyx-Superior Seven Mile Creek Landfill</u>	Local Grid Location of Well 3283.26 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 1643.8 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>DH-44A</u>
Facility License, Permit or Monitoring No. <u>3097</u>	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>PE 160</u> DNR Well Number _____
Facility ID <u>618045450</u>	St. Plane _____ ft. N, _____ ft. E. S/C/N _____	Date Well Installed <u>11/11/2002</u>
Type of Well <u>Well Code 12/pz</u>	Section Location of Waste/Source <u>NE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>P. Dickinson</u>
Distance Well Is From Waste/Source Boundary <u>0</u> ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	<u>Boart Longyear</u>

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 <u>919.28</u> ft. MSL		2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
C. Land surface elevation <u>916.6</u> ft. MSL		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
D. Surface seal, bottom <u>853.6</u> ft. MSL or <u>63.0</u> ft.		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
12. USC 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 checked="" type="checkbox"/>		5. Annular space seal: a. Granular 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. <u>19.7</u> 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
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		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 pellets <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input type="checkbox"/> 99		8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>2.58</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
Describe _____		10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
17. Source of water (attach analysis): _____		b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>5.0</u> ft.
E. Bentonite seal, top <u>915.6</u> ft. MSL or <u>1.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>	
F. Fine sand, top <u>853.6</u> ft. MSL or <u>63.0</u> ft.		
G. Filter pack, top <u>851.6</u> ft. MSL or <u>65.0</u> ft.		
H. Screen joint, top <u>849.6</u> ft. MSL or <u>67.0</u> ft.		
I. Well bottom <u>844.6</u> ft. MSL or <u>72.0</u> ft.		
J. Filter pack, bottom <u>843.6</u> ft. MSL or <u>73.0</u> ft.		
K. Borehole, bottom <u>844.6</u> ft. MSL or <u>72.0</u> ft.		
L. Borehole, diameter <u>8.0</u> in.		
M. O.D. well casing <u>2.37</u> in.		
N. I.D. well casing <u>1.94</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste ___ Waste Water ___
Env. Response & Repair ___ Underground Tanks ___ Other ___

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	County Name Eau Claire	Well Name DH-44A	
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number PE 160	DNR Well Number
1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No	11. Depth to Water (from top of well casing) a. <u>42.56</u> ft. Before Development		After Development <u>42.71</u> ft.
2. Well Development method	Date	b. <u>12 / 2 / 02</u> mm dd yy	<u>12 / 2 / 02</u> mm dd yy
surged with bailer and bailed _____ 1	Time	c. <u>2:05</u> <input checked="" type="checkbox"/> a.m.	<u>4:00</u> <input checked="" type="checkbox"/> a.m.
surged with bailer and pumped <input checked="" type="checkbox"/> 61		p.m. _____ p.m.	
surged with block and bailed _____ 42	12. Sediment in well bottom	<u>3</u> inches	<u>1.5</u> inches
surged with block and pumped _____ 62	13. Water clarity	Clear _____ 10	Clear <input checked="" type="checkbox"/> 20
surged with block, bailed and pumped _____ 70	Turbid <input checked="" type="checkbox"/> 15	Describe _____	Turbid _____ 25
compressed air _____ 20	Dark Brown _____	_____	Clear _____
bailed only _____ 10	High _____	_____	Low _____
pumped only _____ 51	_____	_____	_____
pumped slowly _____ 50	_____	_____	_____
Other _____	_____	_____	_____
3. Time spent developing well <u>115</u> min.	Fill in if drilling fluids were used and well is at solid waste facility:		
4. Depth of well (from top of well casing) <u>74.85</u> ft.	14. Total suspended solids _____ mg/l	<u>4603</u> mg/l	
5. Inside diameter of well <u>1.94</u> in.	15. COD _____ mg/l	_____ mg/l	
6. Volume of water in filter pack and well <u>6.7</u> gal.			
7. Volume of water removed from well <u>67</u> gal.			
8. Volume of water added (if any) <u>N/A</u> gal.			
9. Source of water added <u>N/A</u>			
10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)			

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	9	5.9	100	Dark Brown / High	No
10	9	5.8	100	Dark Brown / High	No
20	10	5.8	95	Brown / Medium High	No
30	10	5.9	100	Tan / Medium	No
40	10	5.9	100	Milky / Low	No
50	10	5.9	100	Clear / Low	No
60	10	5.9	100	Clear / Low	No
67	10	5.9	100	Clear / Low	No

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Mike Mueller</u>	Signature: <u>Frank W. Maenner</u>
Firm: <u>Boart Longyear</u>	Print Initials: <u>F.W.M.</u>
<u>101 Alderson St., Schofield, WI 54476</u>	Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u>

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 3836.338 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 1295.481 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-45
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 185 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 11/13/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary 168 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>912.56</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>909.9</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
D. Surface seal, bottom <u>883.9</u> ft. MSL or <u>26.0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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 checked="" 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"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 #40 Badger Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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. <u>8.23</u> 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
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ 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 type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>7.67</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>909.7</u> ft. MSL or <u>0.2</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>883.9</u> ft. MSL or <u>26.0</u> ft.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>881.9</u> ft. MSL or <u>28.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>879.9</u> ft. MSL or <u>30.0</u> ft.	
I. Well bottom <u>869.9</u> ft. MSL or <u>40.0</u> ft.	
J. Filter pack, bottom <u>858.9</u> ft. MSL or <u>51.0</u> ft.	
K. Borehole, bottom <u>858.9</u> ft. MSL or <u>51.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>1.94</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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 conduit 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 Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 2706.687 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2805.754 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-46
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ " Long. _____ " or _____ " _____ "	Wis. Unique Well No. PE 172 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/19/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary 164 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 935.79 ft. MSL
- C. Land surface elevation 933.3 ft. MSL
- D. Surface seal, bottom 932.8 ft. MSL or 0.5 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

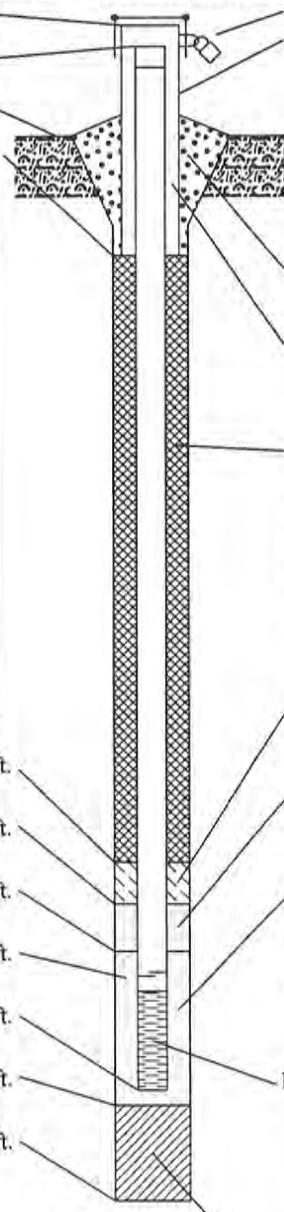
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Other _____

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4.0 in.
 - b. Length: 7.0 ft.
 - c. Material: Steel 0 4
Other _____
- d. Additional protection? Yes No
 If yes, describe: 3" Bumper Post
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other _____
- 4. Material between well casing and protective pipe: Bentonite 3 0
Sand _____ Other _____
- 5. Annular space seal:
 - a. Granular Bentonite 3 3
 - b. _____ Lbs/gal mud weight . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 - e. 5.57 Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 - c. _____ Other _____
- 7. Fine sand material: Manufacturer, product name and mesh size
 a. #7 Badger
 b. Volume added 0.64 ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 a. #40 Badger
 b. Volume added 6.46 ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 _____ Other _____
- 10. Screen material: PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 _____ Other _____
- b. Manufacturer Boart Longyear
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft.
- 11. Backfill material (below filter pack): None 1 4
 _____ Other _____

- E. Bentonite seal, top 932.8 ft. MSL or 0.5 ft.
- F. Fine sand, top 915.3 ft. MSL or 18.0 ft.
- G. Filter pack, top 913.3 ft. MSL or 20.0 ft.
- H. Screen joint, top 911.3 ft. MSL or 22.0 ft.
- I. Well bottom 896.3 ft. MSL or 37.0 ft.
- J. Filter pack, bottom 893.3 ft. MSL or 40.0 ft.
- K. Borehole, bottom 892.3 ft. MSL or 41.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste Waste Water
Env. Response & Repair Underground Tanks Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	County Name Eau Claire	Well Name DH-46
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Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number PE 172	DNR Well Number
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<p>1. Can this well be purged dry? <input checked="" type="checkbox"/> Yes ___ No</p> <p>2. Well Development method</p> <table style="width:100%;"> <tr><td>surged with bailer and bailed</td><td style="text-align: right;">1</td></tr> <tr><td>surged with bailer and pumped</td><td style="text-align: right;"><input checked="" type="checkbox"/> 61</td></tr> <tr><td>surged with block and bailed</td><td style="text-align: right;">___ 42</td></tr> <tr><td>surged with block and pumped</td><td style="text-align: right;">___ 62</td></tr> <tr><td>surged with block, bailed and pumped</td><td style="text-align: right;">___ 70</td></tr> <tr><td>compressed air</td><td style="text-align: right;">___ 20</td></tr> <tr><td>bailed only</td><td style="text-align: right;">___ 10</td></tr> <tr><td>pumped only</td><td style="text-align: right;">___ 51</td></tr> <tr><td>pumped slowly</td><td style="text-align: right;">___ 50</td></tr> <tr><td>Other _____</td><td style="text-align: right;">___</td></tr> </table> <p>3. Time spent developing well 130 min.</p> <p>4. Depth of well (from top of well casing) 39.50 ft.</p> <p>5. Inside diameter of well 1.94 in.</p> <p>6. Volume of water in filter pack and well 9.9 gal.</p> <p>7. Volume of water removed from well 48 gal.</p> <p>8. Volume of water added (if any) N/A gal.</p> <p>9. Source of water added N/A</p> <p>10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)</p>	surged with bailer and bailed	1	surged with bailer and pumped	<input checked="" type="checkbox"/> 61	surged with block and bailed	___ 42	surged with block and pumped	___ 62	surged with block, bailed and pumped	___ 70	compressed air	___ 20	bailed only	___ 10	pumped only	___ 51	pumped slowly	___ 50	Other _____	___	<p>11. Depth to Water (from top of well casing)</p> <p style="text-align: center;">Before Development</p> <p>a. 28.27 ft.</p> <p>Date b. 12 / 3 / 02 mm dd yy</p> <p>Time c. 10:30 <input checked="" type="checkbox"/> a.m. ___ p.m.</p> <p>12. Sediment in well bottom 0 inches</p> <p>13. Water clarity</p> <table style="width:100%;"> <tr><td>Clear</td><td style="text-align: right;">___ 10</td></tr> <tr><td>Turbid</td><td style="text-align: right;"><input checked="" type="checkbox"/> 15</td></tr> <tr><td>Describe</td><td style="text-align: right;">___</td></tr> <tr><td>Brown</td><td style="text-align: right;">___</td></tr> <tr><td>High</td><td style="text-align: right;">___</td></tr> <tr><td> </td><td style="text-align: right;">___</td></tr> <tr><td> </td><td style="text-align: right;">___</td></tr> </table> <p>Fill in if drilling fluids were used and well is at solid waste facility:</p> <p>14. Total suspended solids ___ mg/l 250 mg/l</p> <p>15. COD ___ mg/l ___ mg/l</p>	Clear	___ 10	Turbid	<input checked="" type="checkbox"/> 15	Describe	___	Brown	___	High	___		___		___	<p style="text-align: center;">After Development</p> <p style="text-align: center;">Dry ___ ft.</p> <p style="text-align: center;">12 / 3 / 02 mm dd yy</p> <p style="text-align: center;">12:40 <input checked="" type="checkbox"/> a.m. ___ p.m.</p> <p style="text-align: center;">0 inches</p> <p style="text-align: center;">Clear <input checked="" type="checkbox"/> 20 Turbid ___ 25 Describe ___</p> <p style="text-align: center;">Clear ___ Low ___</p> <p style="text-align: center;">___</p> <p style="text-align: center;">___</p>
surged with bailer and bailed	1																																			
surged with bailer and pumped	<input checked="" type="checkbox"/> 61																																			
surged with block and bailed	___ 42																																			
surged with block and pumped	___ 62																																			
surged with block, bailed and pumped	___ 70																																			
compressed air	___ 20																																			
bailed only	___ 10																																			
pumped only	___ 51																																			
pumped slowly	___ 50																																			
Other _____	___																																			
Clear	___ 10																																			
Turbid	<input checked="" type="checkbox"/> 15																																			
Describe	___																																			
Brown	___																																			
High	___																																			

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	10	6.3	70	Dark Brown / High	No
10	10	5.7	35	Dark Brown / High	No
20	10	5.8	35	Brown / Medium High	No
25	10	5.8	40	Milky / Medium Low	No
30	10	5.8	40	Milky / Medium Low	No
35	11	5.8	40	Milky / Medium Low	No
40	11	5.8	40	Low	No
48	11	5.8	40	Slightly Cloudy / Low	No

<p>Well developed by: Person's Name and Firm</p> <p>Name: <u>Mike Mueller</u></p> <p>Firm: <u>Boart Longyear</u> <u>101 Alderson St., Schofield, WI 54476</u></p>	<p>I hereby certify that the above information is true and correct to the best of my knowledge.</p> <p>Signature: <u>Frank W. Maenner</u></p> <p>Print Initials: <u>F.W.M.</u></p> <p>Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u></p>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 2706.469 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2812.797 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-46A
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 173 DNR Well Number _____
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/19/2002
Type of Well Well Code 12/pz	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary 164 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>935.93</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>933.3</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
D. Surface seal, bottom <u>932.8</u> ft. MSL or <u>0.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/>	
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Air _____ 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 type="checkbox"/> 99	
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	
17. Source of water (attach analysis): _____	
E. Bentonite seal, top <u>932.8</u> ft. MSL or <u>0.5</u> ft.	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Sand <input checked="" type="checkbox"/>
F. Fine sand, top <u>880.3</u> ft. MSL or <u>53.0</u> ft.	5. Annular space seal: a. Granular 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. <u>16.9</u> 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
G. Filter pack, top <u>878.3</u> ft. MSL or <u>55.0</u> ft.	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
H. Screen joint, top <u>876.3</u> ft. MSL or <u>57.0</u> ft.	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
I. Well bottom <u>871.3</u> ft. MSL or <u>62.0</u> ft.	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>2.93</u> ft ³
J. Filter pack, bottom <u>869.3</u> ft. MSL or <u>64.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
K. Borehole, bottom <u>869.3</u> ft. MSL or <u>64.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
L. Borehole, diameter <u>6.0</u> in.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>5.0</u> ft.
M. O.D. well casing <u>2.37</u> in.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
N. I.D. well casing <u>1.94</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste Waste Water
Env. Response & Repair Underground Tanks Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	County Name Eau Claire	Well Name DH-46A
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number PE 173

	Before Development	After Development
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11. Depth to Water (from top of well casing) a. <u>49.55</u> ft.	<u>49.62</u> ft.
2. Well Development method	Date b. <u>12 / 3 / 02</u> mm dd yy	<u>12 / 3 / 02</u> mm dd yy
surged with bailer and bailed <input type="checkbox"/> 1	Time c. <u>12:45</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>2:35</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
surged with bailer and pumped <input checked="" type="checkbox"/> 61	12. Sediment in well bottom <u>0</u> inches	<u>0</u> inches
surged with block and bailed <input type="checkbox"/> 42	13. Water clarity Clear <input type="checkbox"/> 10	Clear <input type="checkbox"/> 20
surged with block and pumped <input type="checkbox"/> 62	Turbid <input checked="" type="checkbox"/> 15	Turbid <input checked="" type="checkbox"/> 25
surged with block, bailed and pumped <input type="checkbox"/> 70	Describe _____	Describe _____
compressed air <input type="checkbox"/> 20	Light Brown _____	Clear _____
bailed only <input type="checkbox"/> 10	High _____	Low _____
pumped only <input type="checkbox"/> 51	_____	_____
pumped slowly <input type="checkbox"/> 50	_____	_____
Other <input type="checkbox"/> _____	_____	_____
3. Time spent developing well <u>110</u> min.	Fill in if drilling fluids were used and well is at solid waste facility:	
4. Depth of well (from top of well casing) <u>64.55</u> ft.	14. Total suspended solids _____ mg/l	<u>2.65</u> mg/l
5. Inside diameter of well <u>1.94</u> in.	15. COD _____ mg/l	_____ mg/l
6. Volume of water in filter pack and well <u>7.3</u> gal.		
7. Volume of water removed from well <u>73</u> gal.		
8. Volume of water added (if any) <u>N/A</u> gal.		
9. Source of water added <u>N/A</u>		
10. Analysis performed on water added? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach results)		

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	11	5.8	55	Light Brown / High	No
10	10	5.7	50	Cloudy / Medium Low	No
20	10	5.8	50	Milky / Medium Low	No
30	10	5.8	50	Slightly Milky / Medium Low	No
40	10	5.5	50	Clear / Low	No
50	10	5.5	50	Clear / Low	No
60	10	5.5	50	Clear / Low	No
70	10	5.5	50	Clear / Low	No
73	10	5.5	50	Clear / Low	No

Well developed by: Person's Name and Firm	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>Mike Mueller</u>	Signature: <u>Frank W. Maenner</u>
Firm: <u>Boart Longyear</u>	Print Initials: <u>F.W.M.</u>
<u>101 Alderson St., Schofield, WI 54476</u>	Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u>

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 2053.01 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2850.443 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-47
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No / DNR Well Number PE 174
Facility ID 618045450	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 11/25/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary 158 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>925.71</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: _____ Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>923.2</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
D. Surface seal, bottom <u>923.0</u> ft. MSL or <u>0.2</u> ft.	3. Surface seal: _____ Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 30 <u>#40 Badger</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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. <u>2.87</u> 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
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ 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 type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>4.00</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>923.0</u> ft. MSL or <u>0.2</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>914.2</u> ft. MSL or <u>9.0</u> ft.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>912.2</u> ft. MSL or <u>11.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>910.2</u> ft. MSL or <u>13.0</u> ft.	
I. Well bottom <u>900.2</u> ft. MSL or <u>23.0</u> ft.	
J. Filter pack, bottom <u>898.7</u> ft. MSL or <u>24.5</u> ft.	
K. Borehole, bottom <u>898.7</u> ft. MSL or <u>24.5</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>1.94</u> in.	

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

Signature Frank Macnner Firm Ayres Associates Tel: _____ Fax: _____

Route to: Solid Waste Haz. Waste Waste Water
Env. Response & Repair Underground Tanks Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	County Name Eau Claire	Well Name DH-47	
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number PE 174	DNR Well Number
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed <input type="checkbox"/> 1 surged with bailer and pumped <input checked="" type="checkbox"/> 61 surged with block and bailed <input type="checkbox"/> 42 surged with block and pumped <input type="checkbox"/> 62 surged with block, bailed and pumped <input type="checkbox"/> 70 compressed air <input type="checkbox"/> 20 bailed only <input type="checkbox"/> 10 pumped only <input type="checkbox"/> 51 pumped slowly <input type="checkbox"/> 50 Other <input type="checkbox"/>	11. Depth to Water (from top of well casing) a. <u>18.22</u> ft. Before Development b. <u>12 / 3 / 02</u> Date mm dd yy c. <u>3:00</u> <input checked="" type="checkbox"/> a.m. / p.m. 12. Sediment in well bottom <u>1</u> inches 13. Water clarity Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 Describe _____ Dark Brown _____ High _____ _____	After Development <u>18.52</u> ft. <u>12 / 3 / 02</u> mm dd yy <u>4:00</u> <input checked="" type="checkbox"/> a.m. / p.m. <u>0</u> inches Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 Describe _____ Clear _____ Low _____ _____	
3. Time spent developing well <u>60</u> min. 4. Depth of well (from top of well casing) <u>25.40</u> ft. 5. Inside diameter of well <u>1.94</u> in. 6. Volume of water in filter pack and well <u>6.8</u> gal. 7. Volume of water removed from well <u>70</u> gal. 8. Volume of water added (if any) <u>N/A</u> gal. 9. Source of water added <u>N/A</u> 10. Analysis performed on water added? <input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, attach results)	Fill in if drilling fluids were used and well is at solid waste facility: 14. Total suspended solids _____ mg/l <u>3.92</u> mg/l 15. COD _____ mg/l _____ mg/l		

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	10	5.8	30	Dark Brown / High	No
10	10	5.6	30	Brown / High	No
20	10	5.0	35	Light Brown / Medium	No
30	10	5.3	35	Milky / Medium Low	No
40	10	5.2	35	Milky / Low	No
50	10	5.2	30	Clear / Low	No
60	10	5.2	30	Clear / Low	No
70	10	5.2	30	Clear / Low	No

Well developed by: Person's Name and Firm

Name: Mike Mueller
Firm: Boart Longyear
101 Alderson St., Schofield, WI 54476

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

Signature: Frank W. Maenner
Print Initials: F.W.M.
Firm: Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 2054.131 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2843.323 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-47A
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. / DNR Well Number PE 175
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/25/2002
Type of Well Well Code 12/pz	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary 151 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>925.25</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 7.0 ft. c. Material: _____ Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
C. Land surface elevation <u>922.9</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
D. Surface seal, bottom <u>922.7</u> ft. MSL or <u>0.2</u> ft.	3. Surface seal: _____ Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: _____ Bentonite <input type="checkbox"/> 3.0 <u>#40 Badger</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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. <u>12.4</u> Ft ³ volume added for any of the above f. How installed: _____ Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 3.3 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/>
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 type="checkbox"/> 9.9	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>2.58</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2.4 Other <input type="checkbox"/>
E. Bentonite seal, top <u>922.7</u> ft. MSL or <u>0.2</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: _____ Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
F. Fine sand, top <u>883.9</u> ft. MSL or <u>39.0</u> ft.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: _____ 0.010 in. d. Slotted length: _____ 5.0 ft.
G. Filter pack, top <u>881.9</u> ft. MSL or <u>41.0</u> ft.	11. Backfill material (below filter pack): _____ None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/>
H. Screen joint, top <u>879.9</u> ft. MSL or <u>43.0</u> ft.	
I. Well bottom <u>874.9</u> ft. MSL or <u>48.0</u> ft.	
J. Filter pack, bottom <u>873.9</u> ft. MSL or <u>49.0</u> ft.	
K. Borehole, bottom <u>874.9</u> ft. MSL or <u>48.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>1.94</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature: Frank Maenner Firm: Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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 Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 1444.427 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2836.01 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W	Well Name DH-48
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No/DNR Well Number PE 171
Facility ID 618045450	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 11/26/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary 185 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 916.80 ft. MSL
- C. Land surface elevation 914.2 ft. MSL
- D. Surface seal, bottom 914.0 ft. MSL or 0.2 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

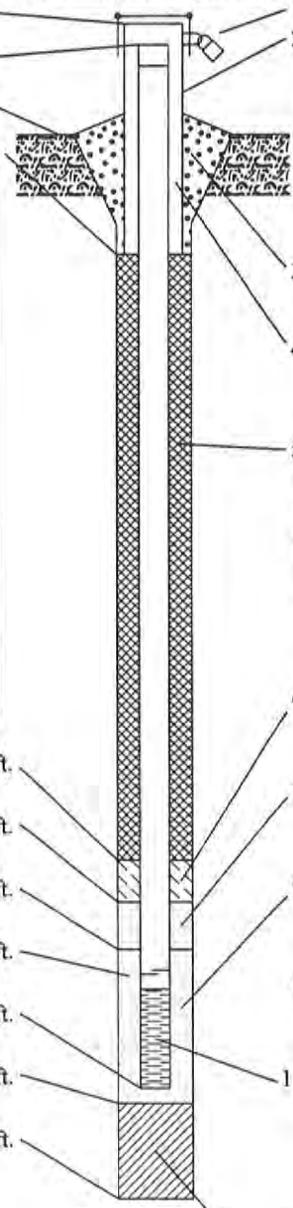
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis):



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4.0 in.
 - b. Length: 7.0 ft.
 - c. Material: Steel 04
Other
 - d. Additional protection? Yes No
If yes, describe: 3" Bumper Post
- 3. Surface seal: Bentonite 30
Concrete 01
Other
- 4. Material between well casing and protective pipe: Bentonite 30
#30 American Materials Other
- 5. Annular space seal:
 - a. Granular 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. 2.55 Ft³ 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 pellets 32
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name and mesh size
 a. #7 Badger
 b. Volume added 0.64 ft³
- 8. Filter pack material: Manufacturer, product name and mesh size
 a. #40 Badger
 b. Volume added 13.1 ft³
- 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
- 10. Screen material: PVC
 - a. Screen Type: Factory cut 11
 Continuous slot 01
 Other
 - b. Manufacturer Boart Longyear
 - c. Slot size: 0.010 in.
 - d. Slotted length: 15.0 ft.
- 11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top 914.0 ft. MSL or 0.2 ft.
- F. Fine sand, top 906.2 ft. MSL or 8.0 ft.
- G. Filter pack, top 904.2 ft. MSL or 10.0 ft.
- H. Screen joint, top 902.2 ft. MSL or 12.0 ft.
- I. Well bottom 887.2 ft. MSL or 27.0 ft.
- J. Filter pack, bottom 865.2 ft. MSL or 49.0 ft.
- K. Borehole, bottom 863.2 ft. MSL or 51.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste Waste Water
Env. Response & Repair Underground Tanks Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill		County Name Eau Claire		Well Name DH-48	
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number PE 171	DNR Well Number	
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed <input type="checkbox"/> 1 surged with bailer and pumped <input checked="" type="checkbox"/> 61 surged with block and bailed <input type="checkbox"/> 42 surged with block and pumped <input type="checkbox"/> 62 surged with block, bailed and pumped <input type="checkbox"/> 70 compressed air <input type="checkbox"/> 20 bailed only <input type="checkbox"/> 10 pumped only <input type="checkbox"/> 51 pumped slowly <input type="checkbox"/> 50 Other <input type="checkbox"/> 3. Time spent developing well 65 min. 4. Depth of well (from top of well casing) 29.65 ft. 5. Inside diameter of well 1.94 in. 6. Volume of water in filter pack and well 8.8 gal. 7. Volume of water removed from well 88 gal. 8. Volume of water added (if any) N/A gal. 9. Source of water added N/A 10. Analysis performed on water added? <input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, attach results)		11. Depth to Water (from top of well casing) a. 19.62 ft. Before Development b. 12 / 2 / 02 After Development mm dd yy c. 11:10 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. 12:15 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. 12. Sediment in well bottom 0 inches 13. Water clarity Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 Describe Dark Brown High _____ _____ _____		14. Total suspended solids 7.1 mg/l 15. COD _____ mg/l	

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	11	4.5	340	Dark Brown / High	No
10	10	4.6	390	Brown / Medium	No
20	10	4.5	380	Brown / Medium High	No
30	10	4.5	390	Light Brown / Medium	No
40	10	4.5	360	Tan / Medium Low	No
50	10	4.5	340	Milky / Low	No
60	10	4.6	390	Clear / Low	No
70	10	4.6	380	Clear / Low	No
80	10	4.6	380	Clear / Low	No
88	10	4.6	380	Clear / Low	No

Well developed by: Person's Name and Firm Name: <u>Mike Mueller</u> Firm: <u>Boart Longyear</u> <u>101 Alderson St., Schofield, WI 54476</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u>Frank W. Maenner</u> Print Initials: <u>F.W.M.</u> Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 1461.012 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2131.413 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-49
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PE 187 DNR Well Number
Facility ID 618045450	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed 11/13/2002
Type of Well Well Code 11/mw	Section Location of Waste/Source SE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) P. Dickinson
Distance Well Is From Waste/Source Boundary 98 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Boart Longyear

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 <u>912.51</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/>
C. Land surface elevation <u>910.0</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
D. Surface seal, bottom <u>889.5</u> ft. MSL or <u>20.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
12. USC 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 checked="" type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3.0 Sand <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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. <u>6.21</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
14. Drilling method used: Rotary <input type="checkbox"/> 5.0 Hollow Stem Auger <input checked="" type="checkbox"/> 4.1 Other <input type="checkbox"/>	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 pellets <input checked="" type="checkbox"/> 3.2 c. _____ Other <input type="checkbox"/>
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 type="checkbox"/> 9.9	7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>4.28</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2.4 Other <input type="checkbox"/>
E. Bentonite seal, top <u>909.0</u> ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/>
F. Fine sand, top <u>889.5</u> ft. MSL or <u>20.5</u> ft.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>887.5</u> ft. MSL or <u>22.5</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/>
H. Screen joint, top <u>885.5</u> ft. MSL or <u>24.5</u> ft.	
I. Well bottom <u>875.5</u> ft. MSL or <u>34.5</u> ft.	
J. Filter pack, bottom <u>874.2</u> ft. MSL or <u>35.8</u> ft.	
K. Borehole, bottom <u>873.0</u> ft. MSL or <u>37.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</u> in.	
N. I.D. well casing <u>1.94</u> in.	

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

Signature Frank Maenner

Firm Ayres Associates

Tel:
Fax:

Route to: Solid Waste Haz. Waste ___ Waste Water ___
Env. Response & Repair ___ Underground Tanks ___ Other ___

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill	County Name Eau Claire	Well Name DH-49
Facility License, Permit or Monitoring Number 3097	County Code ##	Wis. Unique Well Number PE 187

<p>1. Can this well be purged dry? ___ Yes <input checked="" type="checkbox"/> No</p> <p>2. Well Development method</p> <table style="width:100%;"> <tr><td>surged with bailer and bailed</td><td style="text-align: right;">1</td></tr> <tr><td>surged with bailer and pumped</td><td style="text-align: right;"><input checked="" type="checkbox"/> 61</td></tr> <tr><td>surged with block and bailed</td><td style="text-align: right;">___ 42</td></tr> <tr><td>surged with block and pumped</td><td style="text-align: right;">___ 62</td></tr> <tr><td>surged with block, bailed and pumped</td><td style="text-align: right;">___ 70</td></tr> <tr><td>compressed air</td><td style="text-align: right;">___ 20</td></tr> <tr><td>bailed only</td><td style="text-align: right;">___ 10</td></tr> <tr><td>pumped only</td><td style="text-align: right;">___ 51</td></tr> <tr><td>pumped slowly</td><td style="text-align: right;">___ 50</td></tr> <tr><td>Other _____</td><td style="text-align: right;">___</td></tr> </table> <p>3. Time spent developing well <u>70</u> min.</p> <p>4. Depth of well (from top of well casing) <u>37.55</u> ft.</p> <p>5. Inside diameter of well <u>1.94</u> in.</p> <p>6. Volume of water in filter pack and well <u>9.8</u> gal.</p> <p>7. Volume of water removed from well <u>13</u> gal.</p> <p>8. Volume of water added (if any) <u>N/A</u> gal.</p> <p>9. Source of water added <u>N/A</u></p> <p>10. Analysis performed on water added? ___ Yes ___ No (If yes, attach results)</p>	surged with bailer and bailed	1	surged with bailer and pumped	<input checked="" type="checkbox"/> 61	surged with block and bailed	___ 42	surged with block and pumped	___ 62	surged with block, bailed and pumped	___ 70	compressed air	___ 20	bailed only	___ 10	pumped only	___ 51	pumped slowly	___ 50	Other _____	___	<p>11. Depth to Water (from top of well casing)</p> <p style="text-align: center;">Before Development</p> <p>a. <u>26.82</u> ft.</p> <p style="text-align: center;">After Development</p> <p><u>Dry</u> ft.</p> <p>Date b. <u>11 / 15 / 02</u> mm dd yy</p> <p>Time c. <u>10:20</u> <input checked="" type="checkbox"/> a.m. p.m. <u>11:30</u> <input checked="" type="checkbox"/> p.m.</p> <p>12. Sediment in well bottom <u>0</u> inches</p> <p>13. Water clarity</p> <table style="width:100%;"> <tr><td>Clear</td><td style="text-align: right;">___ 10</td></tr> <tr><td>Turbid</td><td style="text-align: right;"><input checked="" type="checkbox"/> 15</td></tr> <tr><td>Describe</td><td>_____</td></tr> <tr><td>Dark Brown</td><td>_____</td></tr> <tr><td>High</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </table> <p>Clear <u>0</u> inches</p> <table style="width:100%;"> <tr><td>Clear</td><td style="text-align: right;">___ 20</td></tr> <tr><td>Turbid</td><td style="text-align: right;"><input checked="" type="checkbox"/> 25</td></tr> <tr><td>Describe</td><td>_____</td></tr> <tr><td>Brown</td><td>_____</td></tr> <tr><td>High</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td></tr> </table> <p>Fill in if drilling fluids were used and well is at solid waste facility:</p> <p>14. Total suspended solids <u>2,620</u> mg/l</p> <p>15. COD _____ mg/l</p>	Clear	___ 10	Turbid	<input checked="" type="checkbox"/> 15	Describe	_____	Dark Brown	_____	High	_____	_____	_____	_____	_____	Clear	___ 20	Turbid	<input checked="" type="checkbox"/> 25	Describe	_____	Brown	_____	High	_____	_____	_____	_____	_____
surged with bailer and bailed	1																																																
surged with bailer and pumped	<input checked="" type="checkbox"/> 61																																																
surged with block and bailed	___ 42																																																
surged with block and pumped	___ 62																																																
surged with block, bailed and pumped	___ 70																																																
compressed air	___ 20																																																
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pumped only	___ 51																																																
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Other _____	___																																																
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Describe	_____																																																
Brown	_____																																																
High	_____																																																
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Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5 (Bailed Dry)	7	5.5	500	Dark Brown / High	No
(Recharge 15 min.) 10	8	5.4	505	Brown / High	No
13 (Pumped Dry)	8	5.3	505	Brown / High	No

<p>Well developed by: Person's Name and Firm</p> <p>Name: <u>Mike Mueller</u></p> <p>Firm: <u>Boart Longyear</u> <u>101 Alderson St., Schofield, WI 54476</u></p>	<p>I hereby certify that the above information is true and correct to the best of my knowledge.</p> <p>Signature: <u>Frank W. Manner</u></p> <p>Print Initials <u>F.W.M.</u></p> <p>Firm: <u>Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702</u></p>
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NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Facility/Project Name <u>Onyx-Superior Seven Mile Creek Landfill</u>	Local Grid Location of Well 1458.098 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2135.998 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>DH-49A</u>
Facility License, Permit or Monitoring No. <u>3097</u>	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>PE 188</u> DNR Well Number _____
Facility ID <u>618045450</u>	St. Plane _____ ft. N. _____ ft. E. S/C/N _____	Date Well Installed <u>11/13/2002</u>
Type of Well <u>Well Code 12/pz</u>	Section Location of Waste/Source <u>SE 1/4 of SE 1/4 of Sec. 8, T. 27 N, R. 8</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) <u>P. Dickinson</u>
Distance Well Is From Waste/Source Boundary <u>101 ft.</u>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	<u>Boart Longyear</u>

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 <u>912.74</u> ft. MSL		2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0.4 Other <input type="checkbox"/> _____ d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3" Bumper Post</u>
C. Land surface elevation <u>910.0</u> ft. MSL		3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3.0 Concrete <input type="checkbox"/> 0.1 Other <input type="checkbox"/> _____
D. Surface seal, bottom <u>859.0</u> ft. MSL or <u>51.0</u> ft.		4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 3.0 Sand <input checked="" type="checkbox"/> _____ Other <input type="checkbox"/> _____
12. USC 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 checked="" type="checkbox"/>		5. Annular space seal: a. Granular 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. <u>15.9</u> Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0.1 Tremie pumped <input type="checkbox"/> 0.2 Gravity <input checked="" type="checkbox"/> 0.8
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes <input 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 pellets <input checked="" type="checkbox"/> 3.2 c. _____ 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"/> _____		7. Fine sand material: Manufacturer, product name and mesh size a. <u>#7 Badger</u> b. Volume added <u>0.64</u> ft ³
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 type="checkbox"/> 9.9		8. Filter pack material: Manufacturer, product name and mesh size a. <u>#40 Badger</u> b. Volume added <u>2.58</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____		9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2.3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2.4 Other <input type="checkbox"/> _____
17. Source of water (attach analysis): _____		10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1.1 Continuous slot <input type="checkbox"/> 0.1 Other <input type="checkbox"/> _____ b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>5.0</u> ft.
E. Bentonite seal, top <u>909.0</u> ft. MSL or <u>1.0</u> ft.		11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1.4 Other <input type="checkbox"/> _____
F. Fine sand, top <u>859.0</u> ft. MSL or <u>51.0</u> ft.		
G. Filter pack, top <u>857.0</u> ft. MSL or <u>53.0</u> ft.		
H. Screen joint, top <u>855.0</u> ft. MSL or <u>55.0</u> ft.		
I. Well bottom <u>850.0</u> ft. MSL or <u>60.0</u> ft.		
J. Filter pack, bottom <u>849.0</u> ft. MSL or <u>61.0</u> ft.		
K. Borehole, bottom <u>849.0</u> ft. MSL or <u>61.0</u> ft.		
L. Borehole, diameter <u>8.0</u> in.		
M. O.D. well casing <u>2.37</u> in.		
N. I.D. well casing <u>1.94</u> in.		

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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 Onyx-Superior Seven Mile Creek Landfill	Local Grid Location of Well 2104.234 ft. <input checked="" type="checkbox"/> N. <input type="checkbox"/> S. 2205.254 ft. <input checked="" type="checkbox"/> E. <input type="checkbox"/> W.	Well Name DH-50
Facility License, Permit or Monitoring No. 3097	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E. S/C/N	Wis. Unique Well No/DNR Well Number PE 200
Facility ID 618045450	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Date Well Installed 11/18/2002
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 checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) P. Dickinson
Distance Well Is From Waste/Source Boundary 0 ft.		Boart Longyear

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 910.02 ft. MSL
- C. Land surface elevation 907.3 ft. MSL
- D. Surface seal, bottom 900.3 ft. MSL or 7.0 ft.

12. USC classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

13. Sieve analysis attached? Yes No

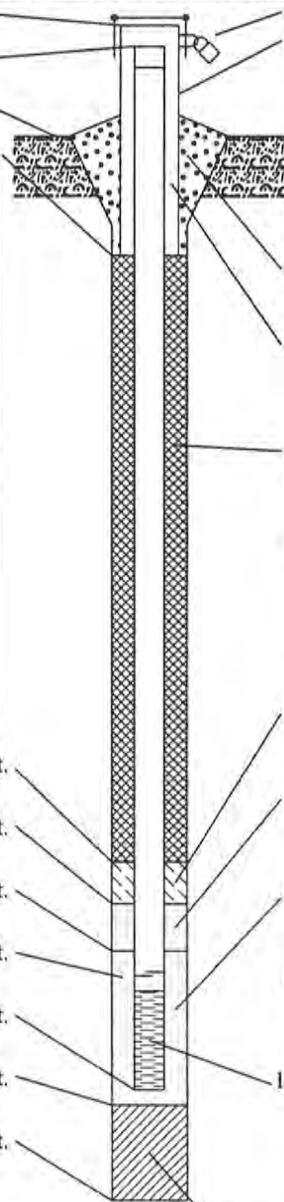
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis): _____



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 7.0 ft.
 c. Material: Steel 0 4
 Other
- d. Additional protection? Yes No
 If yes, describe: 3" Bumper Post
3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other
4. Material between well casing and protective pipe:
 Bentonite 3 0
 Sand
5. Annular space seal:
 a. Granular Bentonite 3 3
 b. _____ Lbs/gal mud weight . Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 d. _____ % Bentonite . . . Bentonite-cement grout 5 0
 e. 2.23 Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8
6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite pellets 3 2
 c. _____ Other
7. Fine sand material: Manufacturer, product name and mesh size
 a. #7 Badger
 b. Volume added 0.64 ft³
8. Filter pack material: Manufacturer, product name and mesh size
 a. #40 Badger
 b. Volume added 11.4 ft³
9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
10. Screen material: PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other
- b. Manufacturer Boart Longyear
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft.
11. Backfill material (below filter pack): None 1 4
 Other

- E. Bentonite seal, top 907.3 ft. MSL or 0.0 ft.
- F. Fine sand, top 900.3 ft. MSL or 7.0 ft.
- G. Filter pack, top 899.3 ft. MSL or 8.0 ft.
- H. Screen joint, top 897.3 ft. MSL or 10.0 ft.
- I. Well bottom 882.3 ft. MSL or 25.0 ft.
- J. Filter pack, bottom 865.3 ft. MSL or 42.0 ft.
- K. Borehole, bottom 865.3 ft. MSL or 42.0 ft.
- L. Borehole, diameter 8.0 in.
- M. O.D. well casing 2.37 in.
- N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Frank Maenner Firm Ayres Associates Tel: _____ Fax: _____

Please complete both Forms 4400-113A and 4400-113B and return 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.

Route to: Solid Waste Haz. Waste Waste Water
Env. Response & Repair Underground Tanks Other

Facility/Project Name Onyx-Superior Seven Mile Creek Landfill		County Name Eau Claire	Well Name DH-50
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number PE 200
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 2. Well Development method surged with bailer and bailed <input type="checkbox"/> 1 surged with bailer and pumped <input checked="" type="checkbox"/> 61 surged with block and bailed <input type="checkbox"/> 42 surged with block and pumped <input type="checkbox"/> 62 surged with block, bailed and pumped <input type="checkbox"/> 70 compressed air <input type="checkbox"/> 20 bailed only <input type="checkbox"/> 10 pumped only <input type="checkbox"/> 51 pumped slowly <input type="checkbox"/> 50 Other <input type="checkbox"/> 3. Time spent developing well 75 min. 4. Depth of well (from top of well casing) 27.90 ft. 5. Inside diameter of well 1.94 in. 6. Volume of water in filter pack and well 7.5 gal. 7. Volume of water removed from well 75 gal. 8. Volume of water added (if any) N/A gal. 9. Source of water added N/A 10. Analysis performed on water added? <input type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach results)		11. Depth to Water (from top of well casing) a. 19.18 ft. Before Development Date 12 / 2 / 02 After Development mm dd yy 12 / 2 / 02 Time 9:40 <input checked="" type="checkbox"/> a.m. 10:55 <input checked="" type="checkbox"/> a.m. p.m. p.m. 12. Sediment in well bottom 0 inches 13. Water clarity Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 Describe _____ Brown _____ High _____ _____ Clear _____ Low _____ 	
		Fill in if drilling fluids were used and well is at solid waste facility: 14. Total suspended solids _____ mg/l 2.0 mg/l 15. COD _____ mg/l _____ mg/l	

Additional comments on development:

Volume Removed (gallons)	Temperature Degrees Celcius	pH	Conductivity uMHOS / cm	Color / Turbidity	Odor
5	10	5.1	80	Brown / High	No
10	10	4.8	50	Brown / High	No
20	10	4.8	40	Light Brown / Medium High	No
30	10	4.8	45	Light Brown / Medium	No
40	10	4.9	50	Tan / Medium Low	No
50	10	5.0	45	Milky / Low	No
60	10	4.8	50	Milky / Low	No
70	10	4.8	50	Clear / Low	No
75	10	4.8	50	Clear / Low	No

Well developed by: Person's Name and Firm

Name: Mike Mueller
 Firm: Boart Longyear
101 Alderson St., Schofield, WI 54476

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

Signature: Frank W. Maenner
 Print Initials: F.W.M.
 Firm: Ayres Associates, 3433 Oakwood Hills Parkway, Eau Claire, WI 54702

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Abandonment Logs
(From 2014 FR)

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 Location 7-Mile Creek Landfill - Eau Claire	County Eau Claire	Original Well Owner (If Known)	
NE 1/4 of SE 1/4 of Sec. 8; T. 27 N; R. 8 W (If Applicable)		Present Well Owner Veolia Environmental Services	
Gov't Lot	Grid Number	Street or Route 8001 Olson Drive	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S. ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Eau Claire, Wisconsin 54703	
Civil Town Name Eau Claire	Facility Well No. and/or Name (If Applicable) MW-2 (CDH-2)		WI Unique Well No. 8W941
Street Address of Well		Reason for Abandonment	
City, Village Town of Seymour, WI		Date of Abandonment 6-9-11	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____	(4) Depth to Water (Feet) 34.9
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If No, Explain _____
Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	(5) Required Method of Placing Sealing Material
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
Total Well Depth (ft.) 50.0 Casing Diameter (in.) 2" (From Groundsurface)	(6) Sealing Materials
Casing Depth (ft.) 50.0	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand - Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay - Sand Slurry <input type="checkbox"/> Bentonite - Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Number of <input type="checkbox"/> Yards <input checked="" type="checkbox"/> Sacks <input type="checkbox"/> Vol.	Mix Ratio or Mud Weight
	Native Soil Patch	Surface	0.5	
	3/8 inch Bentonite Chips	0.5	50.0	1.5

(8) Comments:

Name of Person or Firm Doing Sealing Work Midwest Engineering Services, Inc.	
Signature of Person Doing Work 	Date Signed 6-9-11
Street or Route 12839 30th Avenue, Suite A	Telephone Number (715) 738-2770
City, State, Zip Code Chippewa Falls, WI 54729	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

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 Location 7-Mile Creek Landfill - Eau Claire	County Eau Claire	Original Well Owner (If Known)	
NE <u>1/4</u> of SE <u>1/4</u> of Sec. <u>8</u> ; T. <u>27</u> N; R. <u>8</u> W (If Applicable)		Present Well Owner Veolia Environmental Services	
Gov't Lot	Grid Number	Street or Route 8001 Olson Drive	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Eau Claire, Wisconsin 54703	
Civil Town Name Eau Claire		Facility Well No. and/or Name (If Applicable) MW-2A (DH-2A)	WI Unique Well No. EH387
Street Address of Well		Reason for Abandonment	
City, Village Town of Seymour, WI		Date of Abandonment 6-9-11	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____		(4) Depth to Water (Feet) <u>37.9</u>	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If No, Explain _____	
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		(5) Required Method of Placing Sealing Material	
Total Well Depth (ft.) <u>70.0</u> Casing Diameter (in.) <u>2"</u> (From Groundsurface)		<input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Baller <input type="checkbox"/> Other (Explain) _____	
Casing Depth (ft.) <u>70.0</u> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials	
		For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand - Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay - Sand Slurry <input type="checkbox"/> Bentonite - Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Number of		Mix Ratio or Mud Weight
			<input type="checkbox"/> Yards	<input checked="" type="checkbox"/> Sacks	
Native Soil Patch	Surface	0.5			
3/8 inch Bentonite Chips	0.5	70.0		2	

(8) Comments:

Name of Person or Firm Doing Sealing Work Midwest Engineering Services, Inc.	
Signature of Person Doing Work 	Date Signed 6-9-11
Street or Route 12839 30th Avenue, Suite A	Telephone Number (715) 738-2770
City, State, Zip Code Chippewa Falls, WI 54729	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Seven Mile Landfill	
Well/Drillhole/Borehole Location DH-4	County Eau Claire	Original Well Owner (If Known)	
____ 1/4 of ____ 1/4 of Sec. ____ ; T. ____ N; R. ____ (If Applicable)		Present Well Owner Seven Mile Landfill	
____ Gov't Lot	____ Grid Number	Street or Route	
Grid Location ____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Eau Claire, WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) DH-4	WI Unique Well No. PB404
Street Address of Well		Reason For Abandonment Expansion Project	
City, Village Eau Claire		Date of Abandonment 03/07/02	

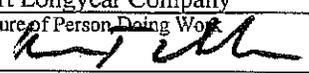
WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____		(4) Depth to Water (Feet) 48.1	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If No, Explain _____
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Total Well Depth (ft) _____ Casing Diameter (in.) 2.06 (From ground surface) Casing Depth (ft.) 55.3	Lower Drillhole Diameter (in.) _____	(5) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	55.3	2 Bags

(8) Comments Could not overdrill. Had a concrete culvert around the well which was below grade about 3.5 feet.

(9) Name of Person or Firm Doing Sealing Work
Boart Longyear Company

Signature of Person Doing Work: 

Date Signed: 03-13-02

Street or Route: 101 Alderson Street

City, State, Zip Code: Schofield, WI 54476

Telephone Number: 715-359-7090

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected: _____ District/County: _____

Reviewer/Inspector: _____ Complying Work
 Noncomplying Work

Follow-up Necessary: _____

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

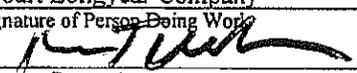
(1) GENERAL INFORMATION		(2) FACILITY NAME Seven Mile Landfill	
Well/Drillhole/Borehole Location MW-20	County Eau Claire	Original Well Owner (If Known)	
1/4 of 1/4 of Sec. _____; T. _____ N; R. _____ (If Applicable)		Present Well Owner Seven Mile Landfill	
Gov't Lot _____ Grid Number _____		Street or Route	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Eau Claire, WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) MW-20 (CDH-20)	WI Unique Well No.
Street Address of Well		Reason For Abandonment Landfill Expansion	
City, Village Eau Claire		Date of Abandonment 04/06/05	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____</p> <p><input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft) <u>44.0</u> Casing Diameter (in.) <u>2.00</u> (From ground surface) Casing Depth (ft.) _____</p> <p>Lower Drillhole Diameter (in.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>33.5</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Overdrilled</u></p> <hr/> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Neat Cement Grout</td> <td><input type="checkbox"/> Bentonite Pellets</td> </tr> <tr> <td><input type="checkbox"/> Sand-Cement (Concrete) Grout</td> <td><input type="checkbox"/> Granular Bentonite</td> </tr> <tr> <td><input type="checkbox"/> Concrete</td> <td><input checked="" type="checkbox"/> Bentonite-Cement Grout</td> </tr> <tr> <td><input type="checkbox"/> Clay-Sand Slurry</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Bentonite-Sand Slurry</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Chipped Bentonite</td> <td></td> </tr> </table>	<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Pellets	<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite-Cement Grout	<input type="checkbox"/> Clay-Sand Slurry		<input type="checkbox"/> Bentonite-Sand Slurry		<input type="checkbox"/> Chipped Bentonite	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Bentonite Pellets												
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Granular Bentonite												
<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite-Cement Grout												
<input type="checkbox"/> Clay-Sand Slurry													
<input type="checkbox"/> Bentonite-Sand Slurry													
<input type="checkbox"/> Chipped Bentonite													

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	45.0	80 Gallons

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Boart Longyear Company
 Signature of Person Doing Work: 
 Date Signed: 04-23-05
 Street or Route: 101 Alderson Street
 Telephone Number: 715-359-7090
 City, State, Zip Code: Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME <u>Seven Mile Landfill</u>	
Well/Drillhole/Borehole Location <u>MW-20A</u>	County <u>Eau Claire</u>	Original Well Owner (If Known)	
1/4 of _____ 1/4 of Sec. _____; T. _____ N; R. _____ (If Applicable)		Present Well Owner <u>Seven Mile Landfill</u>	
Gov't Lot _____ Grid Number _____		Street or Route	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code <u>Eau Claire, WI</u>	
Civil Town Name		Facility Well No. and/or Name (If Applicable) <u>MW-20A (LDH-20A)</u>	WI Unique Well No.
Street Address of Well		Reason For Abandonment <u>Landfill Expansion</u>	
City, Village <u>Eau Claire</u>		Date of Abandonment <u>04/06/05</u>	

WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) Depth to Water (Feet) <u>33.2</u>	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____ <input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain <u>Overdrilled</u>	
		Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock Total Well Depth (ft) <u>55.6</u> Casing Diameter (in.) <u>2.00</u> (From ground surface) Casing Depth (ft.) _____ Lower Drillhole Diameter (in.) _____ Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)	
		(6) Sealing Materials For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	55.6	135 Gallons	

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work <u>Boart Longyear Company</u>	
Signature of Person Doing Work 	Date Signed <u>04-28-05</u>
Street or Route <u>101 Alderson Street</u>	Telephone Number <u>715-359-7090</u>
City, State, Zip Code <u>Schofield, WI 54476</u>	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

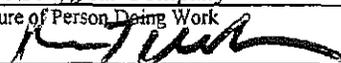
(1) GENERAL INFORMATION		(2) FACILITY NAME Seven Mile Landfill	
Well/Drillhole/Borehole Location MW-24	County Eau Claire	Original Well Owner (If Known)	
1/4 of _____ 1/4 of Sec. _____ ; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Present Well Owner Seven Mile Landfill	
(If Applicable) Gov't Lot _____ Grid Number _____		Street or Route	
Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Eau Claire, WI	
Civil Town Name _____		Facility Well No. and/or Name (If Applicable) MW-24	WI Unique Well No.
Street Address of Well _____		Reason For Abandonment Landfill Expansion	
City, Village Eau Claire		Date of Abandonment 04/06/05	

WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On (Date) _____</p> <p><input type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole</p> <p>Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____</p> <p>Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock</p> <p>Total Well Depth (ft) <u>53.0</u> Casing Diameter (in.) <u>2.00</u> (From ground surface) Casing Depth (ft.) _____</p> <p>Lower Drillhole Diameter (in.) _____</p> <p>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet</p>	<p>(4) Depth to Water (Feet) <u>43.0</u></p> <p>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If No, Explain _____</p> <p>Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(5) Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)</p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite</p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	53.0	140 Gallons	

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Boart Longyear Company
Signature of Person Doing Work  Date Signed 04-23-05
Street or Route Telephone Number
101 Alderson Street 715-359-7090
City, State, Zip Code
Schofield, WI 54476

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location 7-Mile Creek Landfill - Eau Claire	County Eau Claire	Original Well Owner (if Known)	
NE <u>1/4</u> of SE <u>1/4</u> of Sec. <u>8</u> ; T. <u>27</u> N; R. <u>8</u> W (If Applicable)		Present Well Owner Veolia Environmental Services	
Gov't Lot _____ Grid Number _____		Street or Route 8001 Olson Drive	
Grid Location ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, State, Zip Code Eau Claire, Wisconsin 54703	
Civil Town Name Eau Claire	Facility Well No. and/ or Name (if Applicable) MW-44	WI Unique Well No. PE159	
Street Address of Well	Reason for Abandonment Landfill Expansion		
City, Village Town of Seymour, WI	Date of Abandonment 11-13-12		

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>11-13-12</u>	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth (ft.) <u>48.0</u> Casing Diameter (in.) <u>7"</u> (From Groundsurface)	
Casing Depth (ft.) <u>48.0</u>	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	
(4) Depth to Water (Feet) <u>40.3</u>	
Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If No, Explain <u>Well was overdrilled</u>	
Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	
(5) Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____	
(6) Sealing Materials	
For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand - Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay - Sand Slurry <input type="checkbox"/> Bentonite - Sand Slurry <input type="checkbox"/> Chipped Bentonite	
<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input checked="" type="checkbox"/> Bentonite - Cement Grout	

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Number of <input type="checkbox"/> Yards <input type="checkbox"/> Sacks <input checked="" type="checkbox"/> Vol.	Mix Ratio or Mud Weight
	Native Soil Patch	Surface	0.5	
Bentonite - Cement Grout	0.5	48.0	13R	

(8) Comments:

Name of Person or Firm Doing Sealing Work Midwest Engineering Services, Inc.	
Signature of Person Doing Work 	Date Signed <u>11-13-12</u>
Street or Route 12839 30 th Avenue, Suite A	Telephone Number (715) 738-2770
City, State, Zip Code Chippewa Falls, WI 54729	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location 7-Mile Creek Landfill - Eau Claire	County Eau Claire	Original Well Owner (If Known) Present Well Owner Veolia Environmental Services	
NE <u> </u> 1/4 of SE <u> </u> 1/4 of Sec. <u>8</u> ; T. <u>27</u> N.; R. <u>8</u> W. <input checked="" type="checkbox"/> W (If Applicable)		Street or Route 8001 Olson Drive	
Gov't Lot _____ Grid Number _____		City, State, Zip Code Eau Claire, Wisconsin 54703	
Grid Location a. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Facility Well No. and/or Name (If Applicable) MW-44A	
Civil Town Name Eau Claire		WI Unique Well No.	
Street Address of Well _____		Reason for Abandonment Landfill Expansion	
City, Village Town of Seymour, WI		Date of Abandonment 11-13-12	

WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>11-13-12</u>	(4) Depth to Water (Feet) <u>41.0</u>
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If No, Explain _____ Well was overdrilled
Construction Report Available? <input type="checkbox"/> Yes <input type="checkbox"/> No	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____	(5) Required Method of Placing Sealing Material
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	<input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
Total Well Depth (ft.) <u>72.0</u> Casing Diameter (in.) <u>7"</u> (From Groundsurface)	(6) Sealing Materials
Casing Depth (ft.) <u>72.0</u>	For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand - Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay - Sand Slurry <input type="checkbox"/> Bentonite - Sand Slurry <input type="checkbox"/> Chipped Bentonite
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	<input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Granular Bentonite <input checked="" type="checkbox"/> Bentonite - Cement Grout

(7) Sealing Material Used	From (Ft.)	To (Ft.)	Number of <input type="checkbox"/> Yards <input checked="" type="checkbox"/> Sacks <input type="checkbox"/> Vol.	Mix Ratio or Mud Weight
Native Soil Patch	Surface	0.5		
Bentonite - Cement Grout	0.5	72.0	19ft	

(8) Comments:

Name of Person or Firm Doing Sealing Work Midwest Engineering Services, Inc.	
Signature of Person Doing Work 	Date Signed 11-13-12
Street or Route 12839 30 th Avenue, Suite A	Telephone Number (715) 738-2770
City, State, Zip Code Chippewa Falls, WI 54729	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACILITY NAME Seven Mile Landfill	
Well/Drillhole/Borehole Location DH-50	County Eau Claire	Original Well Owner (If Known)	
1/4 of _____ 1/4 of Sec. _____ ; T. _____ N; R. _____ <input type="checkbox"/> E <input type="checkbox"/> W (If Applicable)		Present Well Owner Seven Mile Landfill	
_____ Gov't Lot _____ Grid Number _____ Grid Location _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S., _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		Street or Route	
Civil Town Name		City, State, Zip Code Eau Claire, WI	
Street Address of Well		Facility Well No. and/or Name (If Applicable) DH-50	WI Unique Well No.
City, Village Eau Claire		Reason For Abandonment Landfill Expansion	
		Date of Abandonment 04/06/05	

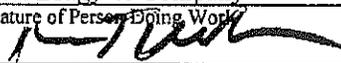
WELL/DRILLHOLE/BOREHOLE INFORMATION

<p>(3) Original Well/Drillhole/Borehole Construction Completed On _____ (Date)</p> <p> <input checked="" type="checkbox"/> Monitoring Well Construction Report Available? <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Drillhole <input type="checkbox"/> Borehole </p> <p> Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____ </p> <p> Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock </p> <p> Total Well Depth (ft) <u>26.0</u> Casing Diameter (in.) <u>2.00</u> (From ground surface) Casing Depth (ft.) _____ </p> <p> Lower Drillhole Diameter (in.) _____ </p> <p> Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet </p>	<p>(4) Depth to Water (Feet) <u>22.0</u></p> <p> Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable Screen Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </p> <p>If No, Explain <u>Overdrilled</u></p> <hr/> <p> Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No </p> <p>(5) Required Method of Placing Sealing Material</p> <p> <input type="checkbox"/> Conductor Pipe - Gravity <input checked="" type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____ </p> <p>(6) Sealing Materials For monitoring wells and monitoring well boreholes only</p> <p> <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Pellets <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Chipped Bentonite </p>
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(7) Sealing Material Used	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Bentonite-Cement Grout	Surface	26.0	60 Gallons

(8) Comments _____

(9) Name of Person or Firm Doing Sealing Work
Boart Longyear Company

Signature of Person Doing Work 	Date Signed 04-23-05
Street or Route 101 Alderson Street	Telephone Number 715-359-7090
City, State, Zip Code Schofield, WI 54476	

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	<input type="checkbox"/> Complying Work <input type="checkbox"/> Noncomplying Work
Follow-up Necessary	

Additional Well Construction Information
(From 2014 FR)

Route To:

Watershed/Wastewater
Remediation/Redevelopment

Waste Management
Other

Facility/Project Name Seven Mile Landfill	Local Grid Location of Well ft. <input type="checkbox"/> N, <input type="checkbox"/> S, <input type="checkbox"/> E, <input type="checkbox"/> W	Well Name DH-4R
Facility License, Permit or Monitoring No.	Grid Origin Location (Check if estimated: <input type="checkbox"/>) Lat. _____ Long. _____ or _____	Wis. Unique Well No. PB 404 DNR Well Number
Facility ID 11204	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 03/07/2002
Type of Well Well Code 11/mw	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: (Person's Name and Firm) M. Mueller
Distance Well Is From Waste/Source Boundary ft.	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	Boart Longyear

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 <u>906.18</u> 2.50 ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>903.92</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom <u>862.42</u> ft. MSL or <u>41.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
12. USC 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"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 <u>#30 American Materials</u> Other <input checked="" type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular 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
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ 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 type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name and mesh size: a. <u>#7 Badger</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size: a. <u>#30 American Materials</u> b. Volume added _____ ft ³
17. Source of water (attach analysis): _____	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"/>
E. Bentonite seal, top <u>903.72</u> ft. MSL or <u>0.2</u> ft.	10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>862.42</u> ft. MSL or <u>41.5</u> ft.	b. Manufacturer <u>Boart Longyear</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>860.42</u> ft. MSL or <u>43.5</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>858.42</u> ft. MSL or <u>45.5</u> ft.	
I. Well bottom <u>848.42</u> ft. MSL or <u>55.5</u> ft.	
J. Filter pack, bottom <u>847.92</u> ft. MSL or <u>56.0</u> ft.	
K. Borehole, bottom <u>847.92</u> ft. MSL or <u>56.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.37</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 [Signature] Firm **Boart Longyear Company** Tel: 715-359-7090
101 Alderson Street Schofield, WI 54476 Fax: 715-355-5715

Please complete both Forms 4400-113A and 4400-113B and return 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 Superior 7-Mile Landfill		County Name Eau Claire		Well Name DH-4R			
License/Permit/Monitoring Number		County Code 18		Wisconsin Unique Well Number PB404		DNR Well Number	
1. Can this well be purged dry? <u> </u> Yes <u>X</u> No		2. Well Development method		11. Depth to Water (from top of well casing)		Before Development	
surged with bailer and bailed <u>X</u> 41		surged with bailer and pumped <u>X</u> 61		Date		After Development	
surged with block and bailed <u> </u> 42		surged with block and pumped <u> </u> 62		Time		51.08	
surged with block, bailed and pumped <u> </u> 70		compressed air <u> </u> 20		03/08/02		51.07	
bailed only <u> </u> 10		pumped only <u> </u> 51		mm dd yy		mm dd yy	
pumped slowly <u> </u> 50		Other <u> </u>		9:55 a.m.		11:50 a.m.	
3. Time spent developing well <u>115</u> min.		4. Depth of well (from top of well casing) <u>57.8</u> ft.		03/08/02		03/08/02	
5. Inside diameter of well <u>2.07</u> in.		6. Volume of water in filter pack and well <u>60</u> gal.		mm dd yy		mm dd yy	
7. Volume of water removed from well <u>60</u> gal.		8. Volume of water added (if any) <u>NA</u> gal.		Time		9:55 a.m.	
9. Source of water added <u>NA</u>		10. Analysis performed on water added? <u> </u> Yes <u>X</u> No		p.m.		11:50 a.m.	
				p.m.		p.m.	
				12. Sediment in well bottom		0.00 inches	
				13. Water clarity		0.00 inches	
				Clear		Clear	
				Turbid		Turbid	
				Describe		Describe	
				See Additional Comments Below			
				Fill in if drilling fluids were used and well is at solid waste facility			
				14. Total suspended solids		mg/l	
				15. COD		mg/l	

Additional comments on development:

VOLUME REMOVED (GAL)	CONDUCTIVITY (UMHOS/CM)	TEMPERATURE (OC)	pH	ODOR	COLOR	TURBIDITY	COMMENTS
5	135	10	6.2	None	Dark Brown	High	Bailed & Surged
10	110	10	5.8	None	Brown	High	Bailed & Surged
20	105	10	5.6	None	Tan	Medium	Pumped
30	102	10	5.6	None	Clear	Low	Pumped
40	100	10	5.6	None	Clear	Low	Pumped
50	100	10	5.6	None	Clear	Low	Pumped
60	99	10.5	5.5	None	Clear	Low	Pumped

Well developed by: Person's Name and Firm

Name: Jim Hicks

Firm: AYRES ASSOCIATES

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

Signature: *Jim Hicks*

Print Initials: JCH

Firm: AYRES ASSOCIATES

NOTE: Shaded areas are for DNR use only. See instructions for more information.

Facility /Project Name Onyx/Superior Seven Mile Creek Landfill	Local Grid Location of Well N. ___ E. ___ ft. ___ S. ___ ft. ___ W. ___	Well Name DH-11R
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. ___ Long. ___ or St. Plane ___ ft. N. ___ ft. E. ___	Wis. Unique Well Number PE 151
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source ft. NE 1/4 of SE 1/4 of Section 8, T 27 N, R 8 W	Date Well Installed 8 / 16 / 02
Distance Well Is From Waste/Source Boundary ft. ___	Location of Well Relative to Waste/Source u ___ Upgradient s ___ Sidegradient d ___ Downgradient n ___ Not Known	Well Installed By: (Person's Name and Firm) Boart Longyear Randy Radke

A. Protective Pipe, top elevation ft. MSL	B. Well casing, top elevation 898.80 ft. MSL	C. Land surface elevation 896.42 ft. MSL	D. Surface seal, bottom 862.42 ft. MSL or 34 ft.	1. Cap and Lock? <input checked="" type="checkbox"/> Yes ___ No	2. Protective cover pipe: a. Inside diameter: 4 in. b. Length: 7 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other ___ d. Additional protection? Yes ___ No If yes, describe ___
12. USCS classification of soil near screen: GP ___ GM ___ GC ___ GW ___ SW ___ SP <input checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC ___ ML ___ MH ___ CL ___ CH ___ Bedrock ___ (granite)				3. Surface seal: 3/8" Bentonite Chips <input checked="" type="checkbox"/> 30 Concrete ___ 01 Other ___	
13. Sieve analysis attached? ___ Yes <input checked="" type="checkbox"/> No				4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Annular Space Seal ___ Other ___	
14. Drilling method used: Air Rotary ___ 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other ___				5. Annular space seal: a. 3/8 inch chipped Bentonite <input checked="" type="checkbox"/> 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. ___ cubic ft volume added for any of the above f. How installed: Tremie ___ 01 Tremie pumped ___ 02 Gravity ___ 08	
15. Drilling fluid used: Air ___ 01 Water ___ 02 Drilling Mud ___ 03 None <input checked="" type="checkbox"/> 99				6. Bentonite seal: a. Bentonite granules 33 b. 1/4in. 3/8in. <input checked="" type="checkbox"/> 1/2in. Bentonite Pellets 32 c. Other ___	
16. Drilling additives used? ___ Yes <input checked="" type="checkbox"/> No Describe ___				7. Fine sand material: Manufacturer, product name and mesh size a. Unimin ___ b. Volume Added 0.65 cubic feet	
17. Source of water (attach analysis):				8. Filter pack material: Manufacturer, product name and mesh size a. Red Flint #30 ___ b. Volume Added 3.9 cubic feet	
E. Bentonite seal, top 896.42 ft. MSL or 0 ft.	F. Fine sand, top 862.42 ft. MSL or 34 ft.	G. Filter pack, top 860.42 ft. MSL or 36 ft.	H. Screen joint, top 858.42 ft. MSL or 38 ft.	I. Well bottom 848.42 ft. MSL or 48 ft.	J. Filter pack, bottom 848.42 ft. MSL or 48 ft.
K. Borehole, bottom 848.42 ft. MSL or 48 ft.	L. Borehole, diameter 8 in	M. O.D. well casing 2.07 in	N. I.D. well casing 2.0 in	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 ___ 24 Other ___	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot ___ 01 Other ___ b. Manufacturer ___ c. Slot size: 0.010 in. d. Slotted length: 10 ft.
				11. Backfill Material (below filter pack): None <input checked="" type="checkbox"/> 14 Other ___	

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

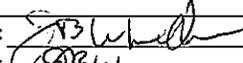
Signature *Frank Moennner* Firm **AYRES ASSOCIATES**

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147, and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instruction for more information including where the completed form should be sent.

Facility/Project Name Superior 7mile Creek Landfill		County Name Eau Claire		Well Name DH-11R	
License/Permit/Monitoring Number		County Code 18		Wisconsin Unique Well Number PB151	
				DNR Well Number 125	
				Before Development	
				After Development	
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				11. Depth to Water (from top of well casing) 41.65	
2. Well Development method				Date 8/20/02	
surged with bailer and bailed _____ 41				Time	
surged with bailer and pumped <input checked="" type="checkbox"/> 61				mm dd yy	
surged with block and bailed _____ 42				a.m.	
surged with block and pumped _____ 62				p.m.	
surged with block, bailed and pumped _____ 70				12:40	
compressed air _____ 20				2:00	
bailed only _____ 10				p.m.	
pumped only _____ 51				0.00 inches	
pumped slowly _____ 50				0.00 inches	
Other _____				12. Sediment in well bottom	
3. Time spent developing well <u>80</u> min.				13. Water clarity	
4. Depth of well (from top of well casing) <u>50.07</u> ft.				Clear Turbid Describe	
5. Inside diameter of well <u>2</u> in.				HIGH	
6. Volume of water in filter pack and well <u>73.8</u> gal.				Clear Turbid Describe	
7. Volume of water removed from well <u>80</u> gal.				LOW	
8. Volume of water added (if any) <u>NA</u> gal.				See Additional Comments Below	
9. Source of water added <u>NA</u>					
10. Analysis performed on water added? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, attach results)					
				Fill in if drilling fluids were used and well is at solid waste facility	
				14. Total suspended solids	
				mg/l	
				mg/l	
				15. COD	
				mg/l	
				mg/l	

Additional comments on development:

VOLUME REMOVED (GAL)	CONDUCTIVITY UMHOS/CM	ODOR	COLOR	TURBIDITY	COMMENTS
5	227	None	Tan	High	
10	102	None	Tan	High	
20	108	None	Lt. Tan	High	
30	92	None	Lt. Milky	Med./Low	
40	87	None	Lt. Tan/Milky	Low	
50	82	None	Lt. Milky/Clear	Low	
60	92	None	Clear	Low	
70	78	None	Clear	Low	
73.8	80	None	Clear	Low	
80	85	None	Clear	Low	

Well developed by: Person's Name and Firm Name: <u>J.B. Whelihan</u> Firm: <u>AYRES ASSOCIATES</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature:  Print Initials: <u>JBW</u> Firm: <u>AYRES ASSOCIATES</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information.

Local Grid Location of Well
 2191.32 N. 300.07 E.
 Grid Origin Location
 Lat. Long. or
 St. Plane r. N. r. E.
 Section Location of Waste/Source
 NE 1/4 of SE of Sec. 8, T 27 N, R. 8 W
 Location of Well Relative to Waste/Source
 u Upgradient s Sidegradient
 d Downgradient n Not Known

Well Name
 DH22R
 Wis. Unique Well Number: DNR Well Number
 P1929 157
 Date Well Installed
 9-29-11
 Well Installed By: (Person's Name and Firm)
 Joe Black
 Midwest Engineering Services, Inc.

Type of Well
 Water Table Observation Well 11
 Piezometer 12

Distance Well Is From Waste/Source Boundary
 240 ft.

Is Well A Point of Enforcement Std. Applic.?
 Yes No

A. Protective pipe, top elevation 903.68 ft. MSL
 B. Well casing, top elevation 903.45 ft. MSL
 C. Land surface elevation 901.10 ft. MSL
 D. Surface seal, bottom ft. MSL or ft.

1. Cap and lock? Yes No
 2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 5.0 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
 Annular space seal
 Other
 5. Annular space seal:
 a. Granular Bentonite 33
 b. Lbs/gal mud wt. Bentonite-sand slurry 35
 c. Lbs/gal mud weight Bentonite slurry 31
 d. % Bentonite Bentonite-cement grout 50
 e. 10.1 Ft³ 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. 1/2 in. 3/8 in. Bentonite pellets 32
 c. Other
 7. Fine sand material:
 a. Red Flint No. 45-55
 b. Volume added 0.7 ft³
 8. Filter pack material:
 a. Red Flint No. 40 RFWS - 34
 b. Volume added 5.6 ft³
 9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
 10. Screen material: Sch. 40 PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
 b. Manufacturer: Diedrich Drill
 c. Slot size: 0.010 in.
 d. Slotted length: 15.0 ft.
 11. Backfill material (below filter pack): None 14
 Other

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock
 13. Sieve analysis attached? Yes No
 14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other
 15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99
 16. Drilling additives used? Yes No
 Describe:
 17. Source of water (attach analysis):

E. Bentonite seal, top 901.10 ft. MSL or 0 ft.
 F. Fine sand, top 870.1 ft. MSL or 31.0 ft.
 G. Filter pack, top 868.10 ft. MSL or 33.0 ft.
 H. Screen joint, top 866.10 ft. MSL or 35.0 ft.
 I. Well bottom 851.10 ft. MSL or 50.0 ft.
 J. Filter pack, bottom 851.10 ft. MSL or 50.0 ft.
 K. Borehole, bottom 851.10 ft. MSL or 50.0 ft.
 L. Borehole, diameter 8.0 in.
 M. O.D. well casing 2.48 in.
 N. I.D. well casing 2.07 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature: *Joe Black* Firm: MIDWEST ENGINEERING SERVICES, INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility /Project Name Onyx/Superior Seven Mile Creek Landfill	Local Grid Location of Well _____ ft. _____ N. _____ ft. _____ S. _____ ft. _____ E. _____ ft. _____ W.	Well Name DH-42
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or _____ St. Plane _____ ft. N. _____ ft. E.	Well Unique Well Number PE 153
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer _____ 12	Section Location of Waste/Source NE 1/4 of SE 1/4 of Section 8, T 27 N, R 8 W	DNR Well Number
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u _____ Upgradient s _____ Sidegradient d _____ Downgradient n _____ Not Known	Date Well Installed 9 / 24 / 02
Is Well A Point of Enforcement Std. Application? <input checked="" type="checkbox"/> Yes _____ No		Well Installed By: (Person's Name and Firm) Boart Longyear Randy Radke

A. Protective Pipe, top elevation _____ ft. MSL	1. Cap and Lock? <input checked="" type="checkbox"/> Yes _____ No
B. Well casing, top elevation 899.45 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 7.0 ft.
C. Land surface elevation 897.30 ft. MSL	c. Material: Steel <input checked="" type="checkbox"/> 04 Other _____
D. Surface seal, bottom 885.3 ft. MSL or 12 ft.	d. Additional protection? Yes _____ No _____ If yes, describe _____
12. USCS classification of soil near screen: GP _____ GM _____ GC _____ GW _____ SW _____ SP <input checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC _____ ML _____ MH _____ CL _____ CH _____ Bedrock _____ (granite)	3. Surface seal: 3/8" Bentonite Chips <input checked="" type="checkbox"/> 30 Concrete _____ 01 Other _____
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes _____ No	4. Material between well casing and protective pipe: Bentonite _____ 30 Annular Space Seal _____ #40 Badger _____ Other _____
14. Drilling method used: Air Rotary _____ 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other _____	5. Annular space seal: a. 3/8 inch chipped Bentonite _____ 33 b. _____ Lbs/gal mud weight Bentonite-sand slurry _____ 35 c. 10.2 Lbs/gal mud weightBentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite.....Bentonite-cement grout _____ 50 e. 8.8 cubic ft volume added for any of the above f. How installed: Tremie _____ 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gravity _____ 08
15. Drilling fluid used: Air _____ 01 Water _____ 02 Drilling Mud _____ 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules _____ 33 b. 1/4in. 3/8in. <input checked="" type="checkbox"/> 1/2in. Bentonite Pellets _____ 32 c. Other _____
16. Drilling additives used? _____ Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name and mesh size a. #70 Badger _____ b. Volume Added 0.65 cubic feet
17. Source of water (attach analysis):	8. Filter pack material: Manufacturer, product name and mesh size a. #40 Badger _____ b. Volume Added 3.9 cubic feet
E. Bentonite seal, top 858.3 ft. MSL or 39 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 _____ 24 Other _____
F. Fine sand, top 853.3 ft. MSL or 44 ft.	10. Screen material: a. Screen type: PVC _____ Factory cut <input checked="" type="checkbox"/> 11 Continuous slot _____ 01 Other _____
G. Filter pack, top 851.3 ft. MSL or 46 ft.	b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
H. Screen joint, top 849.3 ft. MSL or 48 ft.	11. Backfill Material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
I. Well bottom 839.3 ft. MSL or 58 ft.	
J. Filter pack, bottom 839.3 ft. MSL or 58 ft.	
K. Borehole, bottom 839.3 ft. MSL or 58 ft.	
L. Borehole, diameter 8 in	
M. O.D. well casing 2.07 in	
N. I.D. well casing 2.0 in	

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

Signature Frank Maenner Firm **AYRES ASSOCIATES**

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147, and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instruction for more information including where the completed form should be sent.

Facility/Project Name Superior 7mile Creek Landfill		County Name Eau Claire		Well Name DH-42	
License/Permit/Monitoring Number		County Code 18		Wisconsin Unique Well Number PE153	
				DNR Well Number 156	
				Before Development	
				After Development	
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				11. Depth to Water (from top of well casing) 52.05	
2. Well Development method				Date 10/3/02	
surged with bailer and bailed <input checked="" type="checkbox"/> 41				mm dd yy 10 3 02	
surged with bailer and pumped _____ 61				Time 9:10 a.m.	
surged with block and bailed _____ 42				p.m. 12:30 p.m.	
surged with block and pumped _____ 62				12. Sediment in well bottom 0.00 inches	
surged with block, bailed and pumped _____ 70				13. Water clarity Clear Turbid HIGH Clear Turbid Med.	
compressed air _____ 20				Describe Describe	
bailed only _____ 10				See Additional Comments Below	
pumped only _____ 51					
pumped slowly _____ 50					
Other _____					
3. Time spent developing well 200 min.				Fill in if drilling fluids were used and well is at solid waste facility	
4. Depth of well (from top of well casing) 60.36 ft.				14. Total suspended solids 1,900 mg/l	
5. Inside diameter of well 2 in.				15. COD <15 mg/l	
6. Volume of water in filter pack and well 66.4 gal.					
7. Volume of water removed from well 60 gal.					
8. Volume of water added (if any) NA gal.					
9. Source of water added NA					
10. Analysis performed on water added? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, attach results)					

Additional comments on development:

VOLUME REMOVED (GAL)	CONDUCTIVITY UMHOS/CM	ODOR	COLOR	TURBIDITY	COMMENTS
5	235	None	Med. Brown	High	
10	235	None	Med. Brown	High	
20	210	None	Med. Brown	High	
30	220	None	Med. Brown	High	
40	210	None	Med. Brown	Med.	
50	240	None	Med. Brown	Med.	
60	240	None	Med. Brown	Med.	

Well developed by: Person's Name and Firm

Name: Gary Swiatko

Firm: AYRES ASSOCIATES

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

Signature: *Gary Swiatko*

Print Initials: GSS

Firm: AYRES ASSOCIATES

NOTE: Shaded areas are for DNR use only. See instructions for more information.

Facility /Project Name Onyx/Superior Seven Mile Creek Landfill	Local Grid Location of Well _____ ft. _____ N. _____ E. _____ ft. _____ S. _____ ft. _____ W.	Well Name DH-42A
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number PE 152
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input checked="" type="checkbox"/> 12	Section Location of Waste/Source NE 1/4 of SE 1/4 of Section 8, T 27 N, R 8 W	Date Well Installed 9 / 24 / 02
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u _____ Upgradient s _____ Sidegradient d _____ Downgradient n _____ Not Known	Well Installed By: (Person's Name and Firm) Boart Longyear Randy Radke

A. Protective Pipe, top elevation _____ ft. MSL	1. Cap and Lock? <input checked="" type="checkbox"/> Yes _____ No
B. Well casing, top elevation 899.39 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 7.0 ft.
C. Land surface elevation 897.08 ft. MSL	c. Material: Steel <input checked="" type="checkbox"/> 04 Other _____
D. Surface seal, bottom 885.08 ft. MSL or 12 ft.	d. Additional protection? Yes _____ No If yes, describe _____
12. USCS classification of soil near screen: GP _____ GM _____ GC _____ GW _____ SW _____ SP <input checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC _____ ML <input checked="" type="checkbox"/> MH _____ CL _____ CH _____ Bedrock _____ (granite)	3. Surface seal: 3/8" Bentonite Chips <input checked="" type="checkbox"/> 30 Concrete _____ 01 Other _____
13. Sieve analysis attached? <input checked="" type="checkbox"/> Yes _____ No	4. Material between well casing and protective pipe: Bentonite _____ 30 Annular Space Seal _____
14. Drilling method used: Air Rotary _____ 50 Hollow Stem Auger _____ 41 Mud Rotary _____ Other <input checked="" type="checkbox"/>	5. Annular space seal: a. 3/8 inch chipped Bentonite _____ 33 b. _____ Lbs/gal mud weight Bentonite-sand slurry _____ 35 c. 10.2 Lbs/gal mud weight.....Bentonite slurry <input checked="" type="checkbox"/> 31 d. _____ % Bentonite.....Bentonite-cement grout _____ 50 e. 26.5 cubic ft volume added for any of the above f. How installed: Tremie _____ 01 Tremie pumped <input checked="" type="checkbox"/> 02 Gevity _____ 08
15. Drilling fluid used: Air _____ 01 Water _____ 02 Drilling Mud <input checked="" type="checkbox"/> 03 None _____ 99	6. Bentonite seal: a. Bentonite granules _____ 33 b. 1/4in. 3/8in. <input checked="" type="checkbox"/> 1/2in. Bentonite Pellets _____ 32 c. _____ Other _____
16. Drilling additives used? _____ Yes <input checked="" type="checkbox"/> No Describe _____	7. Fine sand material: Manufacturer, product name and mesh size Badger #70 _____
17. Source of water (attach analysis): Seven Mile Landfill Potable Well Water	b. Volume Added 0.65 cubic feet
E. Bentonite seal, top 829.08 ft. MSL or 68 ft.	8. Filter pack material: Manufacturer, product name and mesh size Badger #40 _____
F. Fine sand, top 824.08 ft. MSL or 73 ft.	a. Volume Added 2.3 cubic feet
G. Filter pack, top 819.08 ft. MSL or 75 ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 _____ 24 Other _____
H. Screen joint, top 817.08 ft. MSL or 77 ft.	10. Screen material: PVC _____
I. Well bottom 812.08 ft. MSL or 82 ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot _____ 01 Other _____
J. Filter pack, bottom 811.08 ft. MSL or 83 ft.	b. Manufacturer _____
K. Borehole, bottom 811.08 ft. MSL or 83 ft.	c. Slot size: 0.010 in.
L. Borehole, diameter 10" to 60' & 6" from 60' to 83'	d. Slotted length: 5.0 ft.
M. O.D. well casing 2.07 in	11. Backfill Material (below filter pack): None <input checked="" type="checkbox"/> 14 Other _____
N. I.D. well casing 2.0 in	

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

Signature *Frank Maenner* Firm **AYRES ASSOCIATES**

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147, and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instruction for more information including where the completed form should be sent.

Facility/Project Name Superior 7mile Creek Landfill		County Name Eau Claire		Well Name DH-42A	
License/Permit/Monitoring Number		County Code 18		Wisconsin Unique Well Number PE152	
				DNR Well Number 158	
				Before Development	
				After Development	
1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		11. Depth to Water (from top of well casing)		52.03	
2. Well Development method		Date		10/3/02	
surged with bailer and bailed <input checked="" type="checkbox"/> 41		Time		mm dd yy	
surged with bailer and pumped _____ 61		11:00 a.m.		mm dd yy	
surged with block and bailed _____ 42		p.m.		2:00 p.m.	
surged with block and pumped _____ 62		12. Sediment in well bottom		0.00 inches	
surged with block, bailed and pumped _____ 70		13. Water clarity		0.00 inches	
compressed air _____ 20		Clear Turbid Describe		Clear Turbid Describe	
bailed only _____ 10		HIGH		Med.	
pumped only _____ 51		See Additional Comments Below			
pumped slowly _____ 50					
3. Time spent developing well <u>180</u> min.					
4. Depth of well (from top of well casing) <u>85</u> ft.					
5. Inside diameter of well <u>2</u> in.					
6. Volume of water in filter pack and well <u>263.76</u> gal.					
7. Volume of water removed from well <u>125</u> gal.					
8. Volume of water added (if any) <u>NA</u> gal.					
9. Source of water added <u>NA</u>					
10. Analysis performed on water added? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, attach results)		14. Total suspended solids		mg/l 157 mg/l	
		15. COD		mg/l <15 mg/l	

Fill in if drilling fluids were used and well is at solid waste facility

Additional comments on development:

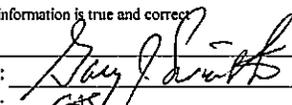
VOLUME REMOVED (GAL)	CONDUCTIVITY UMHOS/CM	ODOR	COLOR	TURBIDITY	COMMENTS
5	180	None	Lt. Grey	High	
10	200	None	Lt. Grey	High	
20	240	None	Lt. Grey	Med.	
50	220	None	Lt. Grey	Med.	
75	260	None	Lt. Grey	Med.	
100	260	None	Lt. Grey	Med.	
125	260	None	Lt. Grey	Med.	

Well developed by: Person's Name and Firm

Name: Gary Swiatko

Firm: AYRES ASSOCIATES

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

Signature: 

Print Initials: GS

Firm: AYRES ASSOCIATES

Facility/Project Name Seven Mile Creek Landfill - Eau Claire, WI	Local Grid Location of Well <input checked="" type="checkbox"/> N. <input checked="" type="checkbox"/> E. 3727.2 ft. <input type="checkbox"/> S. 1104.8 ft. <input type="checkbox"/> W.	Well Name OH-S2
Facility License, Permit or Monitoring Number 3097	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number: DNR Well Number PS 934
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source NE 1/4 of SE of Sec. 8, T.27 N, R. 8 <input checked="" type="checkbox"/> W	Date Well Installed 10-18-05
Distance Well Is From Waste/Source Boundary 175 ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input checked="" type="checkbox"/> Sidegradient d <input checked="" type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) Joe Black Midwest Engineering Services, Inc.
Is Well A Point of Enforcement Std. Applic.? <input type="checkbox"/> Yes <input type="checkbox"/> No		

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 <u>910.60</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>908.76</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No if yes, describe: _____
D. Surface seal, bottom <u>908.76</u> ft. MSL or <u>0.0</u> ft.	3. Surface seal: _____ Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
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"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Annular space seal <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud wt. 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. <u>8.5</u> 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
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 1/2 in. <input checked="" type="checkbox"/> 3/8 in. Bentonite pellets <input type="checkbox"/> 32 c. 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	7. Fine sand material: a. <u>Red Flint No. 45-55</u> b. Volume added <u>0.7</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: a. <u>Red Flint No. 40 RFW-34</u> b. Volume added <u>5.2</u> ft ³
17. Source of water (attach analysis): _____	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"/>
E. Bentonite seal, top <u>907.76</u> ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>Sch. 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>881.76</u> ft. MSL or <u>27.0</u> ft.	b. Manufacturer <u>Diedrich</u> c. Slot size: _____ 0.010 in. d. Slotted length: _____ 10.0 ft.
G. Filter pack, top <u>879.76</u> ft. MSL or <u>29.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>877.76</u> ft. MSL or <u>31.0</u> ft.	
I. Well bottom <u>867.76</u> ft. MSL or <u>41.0</u> ft.	
J. Filter pack, bottom <u>863.76</u> ft. MSL or <u>45.0</u> ft.	
K. Borehole, bottom <u>863.76</u> ft. MSL or <u>45.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.38</u> in.	
N. I.D. well casing <u>2.07</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature [Signature] Firm **MIDWEST ENGINEERING SERVICES, INC.**

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility/Project Name Seven Mile Creek Landfill - Eau Claire, WI	Local Grid Location of Well 4102.9 ft. <input checked="" type="checkbox"/> N. <input checked="" type="checkbox"/> E. <input type="checkbox"/> S. 1799.7 ft. <input type="checkbox"/> W.	Well Name DH-53
Facility License, Permit or Monitoring Number 3097	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number: DNR Well Number P1935
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source SE 1/4 of NE of Sec. 9, T. 27 N, R. 8 <input checked="" type="checkbox"/> W	Date Well Installed 10-18-05
Distance Well Is From Waste/Source Boundary 400 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By: (Person's Name and Firm) Joe Black Midwest Engineering Services, Inc.
Is Well A Point of Enforcement Std. Applic.? <input type="checkbox"/> Yes <input type="checkbox"/> No		

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 <u>919.66</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>917.29</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No if yes, describe: _____
D. Surface seal, bottom <u>917.29</u> ft. MSL or <u>0.0</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
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"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Annular space seal <input type="checkbox"/> Other <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud wt. 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. <u>9.2</u> Ft ³ volume added for any of the above f. How installed: Tremie pumped <input type="checkbox"/> 01 Tremie <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 1/2 in. <input checked="" type="checkbox"/> 3/8 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ 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	7. Fine sand material: a. <u>Red Flint No. 45-55</u> b. Volume added <u>0.7</u> ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: a. <u>Red Flint No. 40 RFWS-34</u> b. Volume added <u>3.9</u> ft ³
17. Source of water (attach analysis): _____	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"/>
E. Bentonite seal, top <u>916.29</u> ft. MSL or <u>1.0</u> ft.	10. Screen material: <u>Sch. 40 PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>888.29</u> ft. MSL or <u>29.0</u> ft.	b. Manufacturer <u>Diedrich</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top <u>886.29</u> ft. MSL or <u>31.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>884.29</u> ft. MSL or <u>33.0</u> ft.	
I. Well bottom <u>874.29</u> ft. MSL or <u>43.0</u> ft.	
J. Filter pack, bottom <u>874.29</u> ft. MSL or <u>43.0</u> ft.	
K. Borehole, bottom <u>874.29</u> ft. MSL or <u>43.0</u> ft.	
L. Borehole, diameter <u>8.0</u> in.	
M. O.D. well casing <u>2.38</u> in.	
N. I.D. well casing <u>2.07</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature [Signature] Firm MIDWEST ENGINEERING SERVICES, INC.

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Facility Name Superior Seven Mile Creek Landfill	Facility ID Number 618009260	License, Permit or Monitoring No. 2821	Date 9/18/02	Completed By (Name and Firm) Lori Rosemore- Ayres Associates
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WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir.		Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Enf. Stds.	Grad- ient	Distance to Waste
				N E	S W		Diam.	Type	Top of Well Casing	Ground Surface	MSL	Site Datum	Screen Top	Initial Groundwater	Well Depth						
	LY-1*	020															P				
		021																			
		022																			
	LY-2*	024															P				
		025																			
		026																			
	LY-3*	027															P				
		028																			
		029																			
	DH-11	017															P				
	DH-11R	125	780.2	N																	
			848.9	E	8/16/02		2	P	898.80	896.42	X		37	39.5	47	10	11RMW	A	X	U	90

Location Coordinates Are: <input type="checkbox"/> State Plane Coordinate <input type="checkbox"/> Northern <input type="checkbox"/> Central <input type="checkbox"/> Southern	<input type="checkbox"/> Local Grid System	Grid Origin Location: (check if estimated:) <input type="checkbox"/> Lat. ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ " or St. Plane ___ ft. N. ___ ft. E. S/C/N Zone	Remarks: * This is a multi-level well with three points ids. in one location. LY-1 = L1-L, L1-5, L1-20 LY-2 = L2-L, L2-5, L2-20 LY-3 = L3-L, L3-5, L3-20
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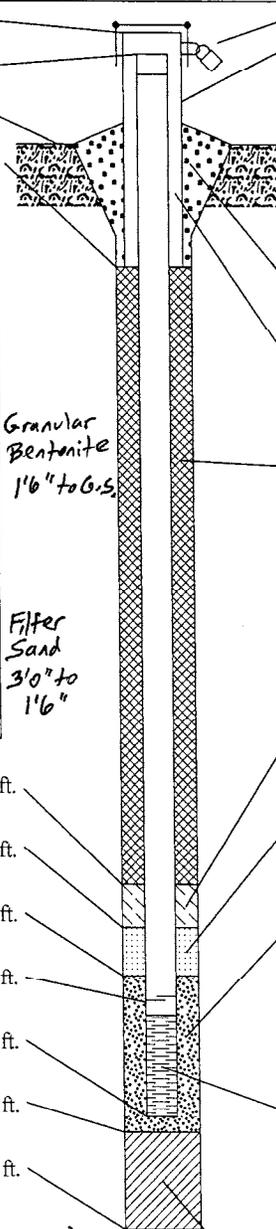
Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

**Additional Monitoring Well Construction and Abandonment
Information**

SES Project Number **507.24**

Facility/Project Name Seven Mile Creek Landfill		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name GP 10	
Facility License, Permit or Monitoring No.		Grid Origin Location <input type="checkbox"/> (estimated: <input type="checkbox"/>) Well Location <input type="checkbox"/>		Wis. Unique Well No. <input type="checkbox"/> DNR Well Number <input type="checkbox"/>	
Facility ID		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed <u>0 4 / 2 9 / 2 0 1 6</u> m m d d y y v v	
Type of Well Well Code 51 / gp		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 Kevin Z. Hargis	
Distance From Waste/Source _____ ft.		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		Gov. Lot Number _____	
Enf. Stds. Apply <input checked="" type="checkbox"/>				Soils & Engineering Services, Inc.	

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 <u>928.60</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>6.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>925.6</u> ft. MSL	d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3 bumper posts</u>
D. Surface seal, bottom <u>924.1</u> ft. MSL or <u>1.5</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/>
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 checked="" 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"/> OL/OH <input type="checkbox"/> PT <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis attached? <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. <u>0.46</u> 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
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ 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	7. Fine sand material: Manufacturer, product name and mesh size a. <u>none</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name and mesh size a. <u>Red Flint Sand and Gravel, #40 well slot</u> b. Volume added <u>13</u> ft ³
17. Source of water (attach analysis): _____	9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top <u>922.6</u> ft. MSL or <u>3.0</u> ft.	10. Screen material: <u>Flush threaded PVC schedule 80</u> a. Screen Type: <u>80</u> Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top <u>920.6</u> ft. MSL or <u>5.0*</u> ft.	b. Manufacturer <u>Johnson Screens</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>40.0</u> ft.
G. Filter pack, top <u>920.6</u> ft. MSL or <u>5.0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/>
H. Screen joint, top <u>919.6</u> ft. MSL or <u>6.0</u> ft.	
I. Well bottom <u>879.6</u> ft. MSL or <u>46.0</u> ft.	
J. Filter pack, bottom <u>878.6</u> ft. MSL or <u>47.0</u> ft.	
K. Borehole, bottom <u>878.6</u> ft. MSL or <u>47.0</u> ft.	
L. Borehole, diameter <u>7.6</u> in.	
M. O.D. well casing <u>1.32</u> in.	
N. I.D. well casing <u>0.94</u> in.	



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Craig M. Bower Firm Soils & Engineering Services, Inc. Tel: 608-274-7600
1102 Stewart Street, Madison, Wisconsin 53713 Fax: 608-274-7511

Please complete both Forms 4400-113A and 4400-113B and return 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.
Printed on 5/27/2016

SES Project Number **507.24**

Facility/Project Name

Seven Mile Creek Landfill

Local Grid Location of Well

ft. N. E. S. W.

Well Name

GP 11

Facility License, Permit or Monitoring No.

Grid Origin Location (estimated:) Well Location

Wis. Unique Well No. DNR Well Number

Facility ID

Lat. _____ Long. _____ or

Date Well Installed

0 4 / 2 9 / 2 0 1 6

Type of Well

Well Code **51 / gp**

St. Plane _____ ft. N, _____ ft. E. S/C/N

Well Installed By: Name (first,last) and Firm

Kevin Z. Hargis

Distance From Waste/Source _____ ft.

Enf. Stds. Apply

Section Location of Waste/Source _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ E W

Soils & Engineering Services, Inc.

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>930.08</u> ft. MSL</p> <p>C. Land surface elevation <u>927.1</u> ft. MSL</p> <p>D. Surface seal, bottom <u>925.6</u> ft. MSL or <u>1.5</u> ft.</p>	<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>6.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> _____ d. Additional protection? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: <u>3 bumper posts</u></p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> _____</p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/> _____</p> <p>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. <u>0.46</u> Ft³ 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</p> <p>6. Bentonite seal: a. Bentonite granules <input checked="" type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> _____</p> <p>7. Fine sand material: Manufacturer, product name and mesh size a. <u>none</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name and mesh size a. <u>Red Flint Sand and Gravel, #40 well slot</u> b. Volume added <u>13</u> ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 23 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 24 Other <input type="checkbox"/> _____</p> <p>10. Screen material: <u>Flush threaded PVC schedule 80</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____ h. Manufacturer <u>Johnson Screens</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>42.0</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> _____</p>
---	---

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock OL/OH PT

13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other _____

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top 924.1 ft. MSL or 3.0 ft.

F. Fine sand, top 922.1 ft. MSL or 5.0* ft.

G. Filter pack, top 922.1 ft. MSL or 5.0 ft.

H. Screen joint, top 921.1 ft. MSL or 6.0 ft.

I. Well bottom 879.1 ft. MSL or 48.0 ft.

J. Filter pack, bottom 878.1 ft. MSL or 49.0 ft.

K. Borehole, bottom 878.1 ft. MSL or 49.0 ft.

L. Borehole, diameter 7.6 in.

M. O.D. well casing 1.32 in.

N. I.D. well casing 0.94 in.

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

Signature Craig M. Lower

Firm **Soils & Engineering Services, Inc.**
1102 Stewart Street, Madison, Wisconsin 53713

Tel: 608-274-7600

Fax: 608-274-7511

Please complete both Forms 4400-113A and 4400-113B and return 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.

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Verification Only of Fill and Seal

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other:

SES Project Number 507.24

1. Well Location Information Boring Location Information **2. Facility / Owner Information**

County: **Dane** Boring Number: **DH 1**

Latitude / Longitude (Degrees and Minutes): _____ ° _____ ' N
 _____ ° _____ ' W

Method Code (see instructions): _____

1/4 / 1/4 1/4 Section Township Range E
 or Gov't Lot # W

Well Street Address: **8001 Olson Drive**

Well City, Village or Town: **City of Eau Claire** Well ZIP Code: _____

Subdivision Name: _____ Lot #: _____

Facility Name: **Seven Mile Creek Landfill**

Facility ID (FID or PWS): _____

License/Permit/Monitoring No: _____

Original Well Owner: _____

Present Well Owner: _____

Mailing Address of Present Owner: _____

City of Present Owner: _____ State: _____ Zip Code: _____

Reason For Removal From Service: **Soil Boring for GEOTECHNICAL sampling.**

WI Unique Well # of Replacement Well: **NA**

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy): **01/30/1976**

Water Well

Drillhole / Borehole If a Well Construction Report is available, please attach.

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): _____

Total Well Depth From Ground Surface (ft.): **61.0** Casing Diameter (in.): **2**

Lower Drillhole Diameter (in.): **5.6** Casing Depth (ft.): **45**

Sealings Materials:
 Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)
 Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "
 Concrete Bentonite Chips

Was well annular space grouted? **NA** Yes No Unknown

If yes, to what depth (feet)? Depth to Water (Feet): **40' 4"**

For monitoring wells and monitoring well boreholes only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (Ft.)	To (Ft.)	No. Yards Sacks Sealant or Volume (Circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	5.0	3 - 50 lb Bags	
Bentonite-Sand Slurry	5.0	25.0	45 - gallons	
Bentonite-Cement Grout	25.0	61.0	90 - gallons	

6. Comments
 NA = Not applicable to soil borings.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing			DNR Use Only	
SOILS & ENGINEERING SERVICES, INC.	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By
1102 Stewart Street		(608) 274-7600		
City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Madison	WI	53713	Craig M. Bower	05/10/2016

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information			2. Facility / Owner Information		
County Eau Claire	WI Unique Well # of Removed Well P 1 9 3 5	Hicap #	Facility Name Advanced Disposal Services Seven Mile Creek Landfill		

Latitude / Longitude (see instructions) 44.83747 N -91.36978 W	Format Code <input type="checkbox"/> DD <input checked="" type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) 618045450		
--	---	---	---------------------------------------	--	--

¼ / ¼ SE NE or Gov't Lot #	Section 8	Township 27 N	Range 8	Range <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Original Well Owner Onyx Seven Mile Creek Landfill	
-------------------------------	--------------	------------------	------------	---	---	--

Well Street Address 7900 Olson Dr.			Present Well Owner Advanced Disposal Services Seven Mile Creek Landfill, LLC		
Well City, Village or Town Eau Claire			Mailing Address of Present Owner 8001 Olson Dr.		
Subdivision Name			City of Present Owner Eau Claire		State WI
Well ZIP Code 54703			ZIP Code 54703		

Reason for Removal from Service Highway Construction	WI Unique Well # of Replacement Well				
---	--------------------------------------	--	--	--	--

3. Filled & Sealed Well / Drillhole / Borehole Information	
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 10/18/2005 If a Well Construction Report is available, please attach.

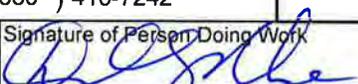
Construction Type:	
<input checked="" type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock

Total Well Depth From Ground Surface (ft.) 43.0	Casing Diameter (in.) 2.07	Required Method of Placing Sealing Material			
Lower Drillhole Diameter (in.) 8.0	Casing Depth (ft.) 43.0	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			

Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	Sealing Materials			
If yes, to what depth (feet)?	Depth to Water (feet) 37.9	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Haliburton Baroid Holeplug Bentonite Chips	Surface	43.0	1.4 ft ³	

6. Comments
 DH-53. Bentonite chips were screened and placed by hand into the well casing while being periodically hydrated. Well casing was exposed and cut off at 30" BGS. 2 - 50 lb bags of hydrated bentonite were placed in the excavation around the cut off well casing. The remainder of the excavation was backfilled with native soils.

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Cornerstone Environmental Group, LLC	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 08/03/2017	Date Received	Noted By
Street or Route 8413 Excelsior Dr. Suite 160		Telephone Number (630) 410-7242	Comments	
City Madison	State WI	ZIP Code 53717	Signature of Person Doing Work 	Date Signed 9-25-2017

months of March,
during the month of June.

Existing G.W. Wells

- | | |
|---------------------------------------|-------------------|
| DH-2 | DH-2A |
| DH-3 | DH-18A |
| DH-4 | DH-18B |
| DH-18 | DH-20A |
| DH-20 | DH-22A |
| DH-22 | DH-22B 14 |
| DH-23 abandoned
4/12/87 | DH-23A |
| DH-24 | DH-23B |
| | DH-23C |

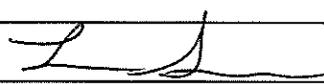
**December 2018 Monitoring Well Construction and
Development Logs and Well Information Form (WIF)**

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Seven Mile Creek Landfill		County Eau Claire		Well Name DH-60	
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number VU615		DNR Well Number

<p>1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Well development method:</p> <p> surged with bailer and bailed <input type="checkbox"/> 4 1</p> <p> surged with bailer and pumped <input type="checkbox"/> 6 1</p> <p> surged with block and bailed <input type="checkbox"/> 4 2</p> <p> surged with block and pumped <input checked="" type="checkbox"/> 6 2</p> <p> surged with block, bailed, and pumped <input type="checkbox"/> 7 0</p> <p> compressed air <input type="checkbox"/> 2 0</p> <p> bailed only <input type="checkbox"/> 1 0</p> <p> pumped only <input type="checkbox"/> 5 1</p> <p> pumped slowly <input type="checkbox"/> 5 0</p> <p> other _____ <input type="checkbox"/> _ _</p> <p>3. Time spent developing well _____ min.</p> <p>4. Depth of well (from top of well casing) 30 ft.</p> <p>5. Inside diameter of well 60.1 in.</p> <p>6. Volume of water in filter pack and well casing 5.1 gal.</p> <p>7. Volume of water removed from well 80.0 gal.</p> <p>8. Volume of water added (if any) 70.0 gal.</p> <p>9. Source of water added <u>Landfill Shop Well</u></p> <p>10. Analysis performed on water added? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach results)</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: center;">Before Development</th> <th style="text-align: center;">After Development</th> </tr> </thead> <tbody> <tr> <td rowspan="2">11. Depth to Water (from top of well casing)</td> <td>a.</td> <td style="text-align: center;">49.88 ft.</td> <td style="text-align: center;">49.85 ft.</td> </tr> <tr> <td>Date</td> <td style="text-align: center;">b. 12/21/2018</td> <td style="text-align: center;">12/21/2018</td> </tr> <tr> <td rowspan="2">Time</td> <td>c.</td> <td style="text-align: center;">07:34 <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.</td> <td style="text-align: center;">07:52 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.</td> </tr> <tr> <td>12. Sediment in well bottom</td> <td style="text-align: center;">1.0 inches</td> <td style="text-align: center;">0.0 inches</td> </tr> <tr> <td rowspan="2">13. Water clarity (Describe)</td> <td>Clear <input type="checkbox"/> 1 0</td> <td>Clear <input checked="" type="checkbox"/> 2 0</td> <td></td> </tr> <tr> <td>Turbid <input checked="" type="checkbox"/> 1 5</td> <td>Turbid <input type="checkbox"/> 2 5</td> <td></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">dark tan</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="4">Fill in if drilling fluids were used and well is at solid waste facility:</td> </tr> <tr> <td>14. Total suspended solids</td> <td></td> <td style="text-align: center;">mg/l</td> <td style="text-align: center;">161.0 mg/l</td> </tr> <tr> <td>15. COD</td> <td></td> <td style="text-align: center;">mg/l</td> <td style="text-align: center;">mg/l</td> </tr> <tr> <td colspan="4">16. Well developed by: Person's Name and Firm</td> </tr> <tr> <td colspan="4" style="text-align: center;">Travis Weisenbeck</td> </tr> <tr> <td colspan="4" style="text-align: center;">Cascade</td> </tr> </tbody> </table>			Before Development	After Development	11. Depth to Water (from top of well casing)	a.	49.88 ft.	49.85 ft.	Date	b. 12/21/2018	12/21/2018	Time	c.	07:34 <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	07:52 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	12. Sediment in well bottom	1.0 inches	0.0 inches	13. Water clarity (Describe)	Clear <input type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0		Turbid <input checked="" type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 2 5				dark tan	_____			_____	_____			_____	_____			_____	_____			_____	_____	Fill in if drilling fluids were used and well is at solid waste facility:				14. Total suspended solids		mg/l	161.0 mg/l	15. COD		mg/l	mg/l	16. Well developed by: Person's Name and Firm				Travis Weisenbeck				Cascade			
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Travis Weisenbeck																																																																						
Cascade																																																																						

17. Additional comments on development:
Pumped at 2.5 gallons per minute

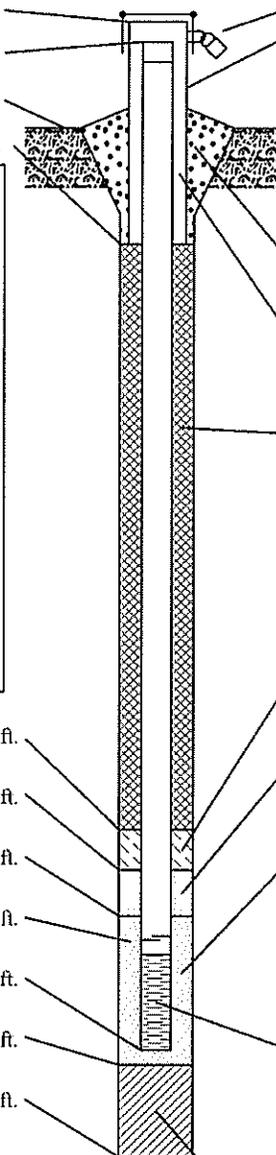
<p>Facility Address or Owner/Responsible Party Address</p> <p>Name: <u>John Blackmon</u></p> <p>Firm: <u>Advanced Disposal</u></p> <p>Street: <u>8001 Olson Drive</u></p> <p>City/State/Zip: <u>Eau Claire, WI 54703</u></p>	<p>I hereby certify that the above information is true and correct to the best of my knowledge.</p> <p>Signature: <u></u></p> <p>Print Name: <u>Luke Specketer</u></p> <p>Firm: <u>Cornerstone</u></p>
--	--

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

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

Facility/Project Name Seven Mile Creek Landfill		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name DH-60A	
Facility License, Permit or Monitoring No. 3097		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. VU616 DNR Well Number	
Facility ID 618045450		Lat. _____ Long. _____ or St. Plane 368,641 ft. N, 1,645,799 ft. E. S <input type="checkbox"/> N <input checked="" type="checkbox"/>		Date Well Installed 12/13/2018	
Type of Well Well Code 12/pz		Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W		Well Installed By: (Person's Name and Firm) Todd Schmalfeldt	
Distance from Waste/Source 125 ft.		Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number Cascade	

<p>A. Protective pipe, top elevation _____ 936.17 ft. MSL</p> <p>B. Well casing, top elevation _____ 936.21 ft. MSL</p> <p>C. Land surface elevation _____ 934.4 ft. MSL</p> <p>D. Surface seal, bottom _____ 914.4 ft. MSL or _____ 20.0 ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>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 checked="" type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 _____ Sonic _____ Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ Haliburton EZ Mud</p> <p>17. Source of water (attach analysis, if required): _____ Landfill Shop Well</p> </div> <p>E. Bentonite seal, top _____ 934.4 ft. MSL or _____ 0.0 ft.</p> <p>F. Fine sand, top _____ 855.4 ft. MSL or _____ 79.0 ft.</p> <p>G. Filter pack, top _____ 853.4 ft. MSL or _____ 81.0 ft.</p> <p>H. Screen joint, top _____ 851.4 ft. MSL or _____ 83.0 ft.</p> <p>I. Well bottom _____ 846.4 ft. MSL or _____ 88.0 ft.</p> <p>J. Filter pack, bottom _____ 845.4 ft. MSL or _____ 89.0 ft.</p> <p>K. Borehole, bottom _____ 845.4 ft. MSL or _____ 89.0 ft.</p> <p>L. Borehole, diameter _____ 6.0 in.</p> <p>M. O.D. well casing _____ 2.38 in.</p> <p>N. I.D. well casing _____ 1.91 in.</p>	 <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ 4.0 in. b. Length: _____ 7.0 ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 _____ 3/8" bentonite plug Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 _____ Red Flint #40 Sand Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ 4 Lbs/gal mud weight ... Bentonite slurry <input checked="" type="checkbox"/> 3 1 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ 8.94 Ft³ volume added for any of the above f. How installed: Tremie <input checked="" type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input type="checkbox"/> 0 8</p> <p>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"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. _____ Red Flint #7 b. Volume added _____ 0.33 ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. _____ Red Flint #40 b. Volume added _____ 1.36 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input checked="" type="checkbox"/> 2 4 _____ Other <input type="checkbox"/></p> <p>10. Screen material: _____ PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 _____ Other <input type="checkbox"/></p> <p>b. Manufacturer _____ Johnson c. Slot size: _____ 0.010 in. d. Slotted length: _____ 5.0 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 _____ Other <input type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Comerstone
 8413 Excelsior Dr. Madison, WI 53717
 Tel: 877-633-5520 Fax: _____

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.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Seven Mile Creek Landfill	County Eau Claire	Well Name DH-60A
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number VU616
		DNR Well Number

1. Can this well be purged dry? Yes No

2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____ _ _

3. Time spent developing well _____ min.

4. Depth of well (from top of well casing) **120** ft.

5. Inside diameter of well **91.3** in.

6. Volume of water in filter pack and well casing **20.8** gal.

7. Volume of water removed from well **208.0** gal.

8. Volume of water added (if any) **250.0** gal.

9. Source of water added Landfill Shop Well

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 48.86 ft.	48.81 ft.
Date	b. 12/18/2018	12/18/2018
Time	c. 03:40 <input checked="" type="checkbox"/> p.m.	05:40 <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>dark tan</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	13.2 mg/l
15. COD	mg/l	mg/l
16. Well developed by: Person's Name and Firm Adam Jochimsen Cascade		

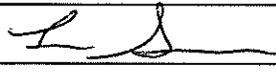
17. Additional comments on development:

Facility Address or Owner/Responsible Party Address	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: <u>John Blackmon</u>	Signature: 
Firm: <u>Advanced Disposal</u>	Print Name: <u>Luke Specketer</u>
Street: <u>8001 Olson Drive</u>	Firm: <u>Cornerstone</u>
City/State/Zip: <u>Eau Claire, WI 54703</u>	

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Seven Mile Creek Landfill		County Eau Claire	Well Name DH-61																																																																								
Facility License, Permit or Monitoring Number 3097		County Code 18	Wis. Unique Well Number VU618	DNR Well Number																																																																							
<p>1. Can this well be purged dry? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>2. Well development method:</p> <p> surged with bailer and bailed <input type="checkbox"/> 4 1</p> <p> surged with bailer and pumped <input type="checkbox"/> 6 1</p> <p> surged with block and bailed <input type="checkbox"/> 4 2</p> <p> surged with block and pumped <input checked="" type="checkbox"/> 6 2</p> <p> surged with block, bailed, and pumped <input type="checkbox"/> 7 0</p> <p> compressed air <input type="checkbox"/> 2 0</p> <p> bailed only <input type="checkbox"/> 1 0</p> <p> pumped only <input type="checkbox"/> 5 1</p> <p> pumped slowly <input type="checkbox"/> 5 0</p> <p> other _____ <input type="checkbox"/> ___</p> <p>3. Time spent developing well _____ min.</p> <p>4. Depth of well (from top of well casing) 30 ft.</p> <p>5. Inside diameter of well 59.0 in.</p> <p>6. Volume of water in filter pack and well casing 3.3 gal.</p> <p>7. Volume of water removed from well 45.0 gal.</p> <p>8. Volume of water added (if any) 340.0 gal.</p> <p>9. Source of water added <u>Landfill Shop Well</u></p> <p>10. Analysis performed on water added? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach results)</p>		<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th style="text-align: center;">Before Development</th> <th style="text-align: center;">After Development</th> </tr> </thead> <tbody> <tr> <td>11. Depth to Water (from top of well casing)</td> <td>a.</td> <td style="text-align: center;">52.18 ft.</td> <td style="text-align: center;">52.16 ft.</td> </tr> <tr> <td>Date</td> <td>b.</td> <td style="text-align: center;">12/18/2018</td> <td style="text-align: center;">12/18/2018</td> </tr> <tr> <td>Time</td> <td>c.</td> <td style="text-align: center;"><input type="checkbox"/> a.m. 02:45 <input checked="" type="checkbox"/> p.m.</td> <td style="text-align: center;"><input type="checkbox"/> a.m. 03:15 <input checked="" type="checkbox"/> p.m.</td> </tr> <tr> <td>12. Sediment in well bottom</td> <td></td> <td style="text-align: center;">1.6 inches</td> <td style="text-align: center;">0.0 inches</td> </tr> <tr> <td rowspan="2">13. Water clarity (Describe)</td> <td>Clear</td> <td><input type="checkbox"/> 1 0</td> <td>Clear <input checked="" type="checkbox"/> 2 0</td> </tr> <tr> <td>Turbid</td> <td><input checked="" type="checkbox"/> 1 5</td> <td>Turbid <input type="checkbox"/> 2 5</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">dark tan</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td colspan="4">Fill in if drilling fluids were used and well is at solid waste facility:</td> </tr> <tr> <td>14. Total suspended solids</td> <td></td> <td style="text-align: center;">mg/l</td> <td style="text-align: center;">5.0 mg/l</td> </tr> <tr> <td>15. COD</td> <td></td> <td style="text-align: center;">mg/l</td> <td style="text-align: center;">mg/l</td> </tr> <tr> <td colspan="4">16. Well developed by: Person's Name and Firm</td> </tr> <tr> <td colspan="4" style="text-align: center;">Adam Jochimsen</td> </tr> <tr> <td colspan="4" style="text-align: center;">Cascade</td> </tr> </tbody> </table>					Before Development	After Development	11. Depth to Water (from top of well casing)	a.	52.18 ft.	52.16 ft.	Date	b.	12/18/2018	12/18/2018	Time	c.	<input type="checkbox"/> a.m. 02:45 <input checked="" type="checkbox"/> p.m.	<input type="checkbox"/> a.m. 03:15 <input checked="" type="checkbox"/> p.m.	12. Sediment in well bottom		1.6 inches	0.0 inches	13. Water clarity (Describe)	Clear	<input type="checkbox"/> 1 0	Clear <input checked="" type="checkbox"/> 2 0	Turbid	<input checked="" type="checkbox"/> 1 5	Turbid <input type="checkbox"/> 2 5			dark tan	_____			_____	_____			_____	_____			_____	_____			_____	_____	Fill in if drilling fluids were used and well is at solid waste facility:				14. Total suspended solids		mg/l	5.0 mg/l	15. COD		mg/l	mg/l	16. Well developed by: Person's Name and Firm				Adam Jochimsen				Cascade			
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<p>Facility Address or Owner/Responsible Party Address</p> <p>Name: <u>John Blackmon</u></p> <p>Firm: <u>Advanced Disposal</u></p> <p>Street: <u>8001 Olson Drive</u></p> <p>City/State/Zip: <u>Eau Claire, WI 54703</u></p>	<p>I hereby certify that the above information is true and correct to the best of my knowledge.</p> <p>Signature: <u></u></p> <p>Print Name: <u>Luke Specketer</u></p> <p>Firm: <u>Cornerstone</u></p>
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NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

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

Facility/Project Name Seven Mile Creek Landfill		Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.		Well Name DH-62	
Facility License, Permit or Monitoring No. 3097		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>		Wis. Unique Well No. DNR Well Number VU617	
Facility ID 618045450		Lat. _____ ' _____ " Long. _____ ' _____ " or		Date Well Installed 12/12/2018	
Type of Well Well Code 11/mw		St. Plane 368,255 ft. N, 1,645,485 ft. E. S <input checked="" type="radio"/> N		Well Installed By: (Person's Name and Firm) Randy Radke	
Distance from Waste/Source 0 ft.		Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9, T. 27 N, R. 8 <input checked="" type="checkbox"/> W		Gov. Lot Number _____	
Enf. Stds. Apply <input type="checkbox"/>		Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Well Installed By: (Person's Name and Firm) Cascade	

A. Protective pipe, top elevation _____ 933.36 ft. MSL

B. Well casing, top elevation _____ 933.41 ft. MSL

C. Land surface elevation _____ 930.4 ft. MSL

D. Surface seal, bottom _____ 930.4 ft. MSL or _____ 0.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

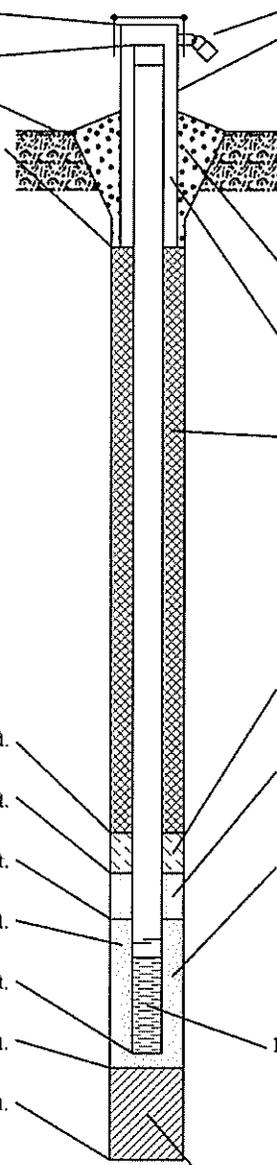
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 _____ Sonic Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ 4.0 in.
 b. Length: _____ 7.0 ft.
 c. Material: Steel 0 4
 Other

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 _____ 3/8" bentonite plug Other

4. Material between well casing and protective pipe:
 Bentonite 3 0
 Red Flint #40 Sand Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight ... Bentonite slurry 3 1
 d. _____ % Bentonite ... Bentonite-cement grout 5 0
 e. 6.13 Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Red Flint #7
 b. Volume added _____ 0.33 ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Red Flint #40
 b. Volume added _____ 3.01 ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 _____ Other

10. Screen material: PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 _____ Other

b. Manufacturer Johnson
 c. Slot size: _____ 0.010 in.
 d. Slotted length: _____ 15.0 ft.

11. Backfill material (below filter pack): None 1 4
 _____ Other

E. Bentonite seal, top _____ 930.4 ft. MSL or _____ 0.0 ft.

F. Fine sand, top _____ 893.4 ft. MSL or _____ 37.0 ft.

G. Filter pack, top _____ 891.4 ft. MSL or _____ 39.0 ft.

H. Screen joint, top _____ 889.4 ft. MSL or _____ 41.0 ft.

I. Well bottom _____ 874.4 ft. MSL or _____ 56.0 ft.

J. Filter pack, bottom _____ 874.4 ft. MSL or _____ 56.0 ft.

K. Borehole, bottom _____ 873.4 ft. MSL or _____ 57.0 ft.

L. Borehole, diameter _____ 6.0 in.

M. O.D. well casing _____ 2.38 in.

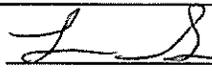
N. I.D. well casing _____ 2.05 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature _____ Firm Comerstone
 8413 Excelsior Dr. Madison, WI 53717 Tel: 877-633-5520 Fax: _____

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Remediation/Redevelopment Other

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11. Depth to Water (from top of well casing)	a.	49.02 ft.	49.02 ft.																																																							
	Date	b. 12/13/2018	12/13/2018																																																							
	Time	c. 09:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	02:00 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.																																																							
12. Sediment in well bottom		2.2 inches	0.0 inches																																																							
13. Water clarity (Describe)	Clear <input type="checkbox"/> 1 0	Clear <input type="checkbox"/> 2 0																																																								
	Turbid <input checked="" type="checkbox"/> 1 5	Turbid <input checked="" type="checkbox"/> 2 5																																																								
	<u>dark tan</u>	<u>light gray/tan</u>																																																								
Fill in if drilling fluids were used and well is at solid waste facility:																																																										
14. Total suspended solids		mg/l	1170.0 mg/l																																																							
15. COD		mg/l	mg/l																																																							
16. Well developed by: Person's Name and Firm																																																										
		Jeff Jehn																																																								
		Cascade																																																								
17. Additional comments on development: After development TSS results for DH-62 are reported in Round 1 of Baseline groundwater sampling on 12/28/2018 lab report since hold times were exceeded for the after development sample collected on 12/13/2018.																																																										

Facility Address or Owner/Responsible Party Address Name: <u>John Blackmon</u> Firm: <u>Advanced Disposal</u> Street: <u>8001 Olson Drive</u> City/State/Zip: <u>Eau Claire, WI 54703</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u></u> Print Name: <u>Luke Specketer</u> Firm: <u>Cornerstone</u>
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NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

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

Facility/Project Name <u>Seven Mile Creek Landfill</u>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <u>DH-62A</u>
Facility License, Permit or Monitoring No. <u>3097</u>	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. <u>WA400</u> DNR Well Number _____
Facility ID <u>618045450</u>	Lat. _____ " Long. _____ " or _____	Date Well Installed <u>12/20/2018</u>
Type of Well <u>Well Code 12/pz</u>	St. Plane <u>368,250</u> ft. N, <u>1,645,484</u> ft. E. S <input type="checkbox"/> N <input checked="" type="checkbox"/>	Well Installed By: (Person's Name and Firm) <u>Todd Schmalfeldt</u>
Distance from Waste/Source <u>0</u> ft. <input type="checkbox"/> Apply <input type="checkbox"/>	Section Location of Waste/Source NW <u>1/4</u> of SW <u>1/4</u> of Sec. <u>9</u> T. <u>27</u> N. R. <u>8</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Cascade
	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation 933.37 ft. MSL

B. Well casing, top elevation 933.31 ft. MSL

C. Land surface elevation 930.8 ft. MSL

D. Surface seal, bottom 930.8 ft. MSL or 0.0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

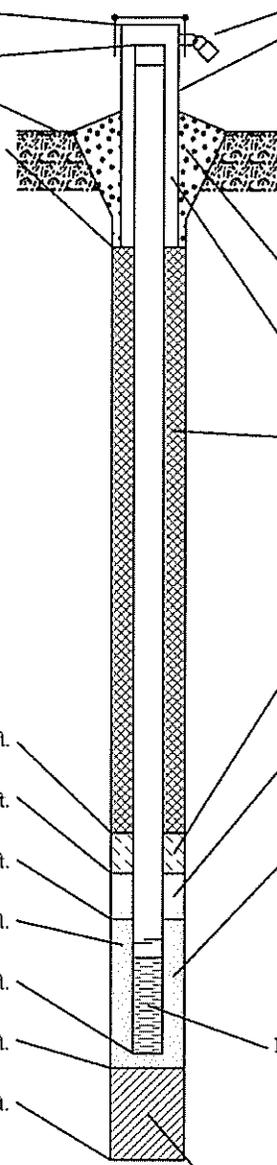
13. Sieve analysis attached? Yes No

14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
Sonic Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required):
Landfill Shop Well



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: 4.0 in.
 b. Length: 7.0 ft.
 c. Material: Steel 0 4
 Other

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 3 0
 Concrete 0 1
3/8" bentonite plug Other

4. Material between well casing and protective pipe: Bentonite 3 0
Red Flint #40 Sand Other

5. Annular space seal: a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 3 5
 c. 2.8 Lbs/gal mud weight ... Bentonite slurry 3 1
 d. _____ % Bentonite ... Bentonite-cement grout 5 0
 e. 22.60 Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal: a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Red Flint #7
 b. Volume added 0.64 ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Red Flint #40
 b. Volume added 2.58 ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other

10. Screen material: PVC
 a. Screen Type: Factory cut 1 1
 Continuous slot 0 1
 Other
 b. Manufacturer Johnson
 c. Slot size: 0.010 in.
 d. Slotted length: 5.0 ft.

11. Backfill material (below filter pack): None 1 4
 Other

E. Bentonite seal, top 930.8 ft. MSL or 0.0 ft.

F. Fine sand, top 854.8 ft. MSL or 76.0 ft.

G. Filter pack, top 852.8 ft. MSL or 78.0 ft.

H. Screen joint, top 850.8 ft. MSL or 80.0 ft.

I. Well bottom 845.8 ft. MSL or 85.0 ft.

J. Filter pack, bottom 844.8 ft. MSL or 86.0 ft.

K. Borehole, bottom 844.8 ft. MSL or 86.0 ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.38 in.

N. I.D. well casing 1.91 in.

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

Signature [Signature] Firm Cornerstone Tel: 877-633-5520
 8413 Excelsior Dr. Madison, WI 53717 Fax: _____

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.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Seven Mile Creek Landfill	County Eau Claire	Well Name DH-62A	
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number WA400	DNR Well Number

1. Can this well be purged dry? Yes No
2. Well development method:
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed, and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - other _____ _ _

3. Time spent developing well _____ min.
4. Depth of well (from top of well casing) **295 ft.**
5. Inside diameter of well **88.8 in.**
6. Volume of water in filter pack and well casing **31.1 gal.**
7. Volume of water removed from well **365.0 gal.**
8. Volume of water added (if any) **1250.0 gal.**
9. Source of water added Landfill Shop Well
10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 48.41 ft.	48.40 ft.
Date	b. 12/21/2018	12/21/2018
Time	c. 09:35 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	02:30 <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	0.1 inches	0.0 inches
13. Water clarity (Describe)	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 <u>light tan</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	mg/l	1.4 mg/l
15. COD	mg/l	mg/l

16. Well developed by: Person's Name and Firm
Travis Weisenbeck
Cascade

17. Additional comments on development:
Switched to new pump during development, old pump was broken.

Facility Address or Owner/Responsible Party Address

Name: John Blackmon

Firm: Advanced Disposal

Street: 8001 Olson Drive

City/State/Zip: Eau Claire, WI 54703

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

Signature: 

Print Name: Luke Specketer

Firm: Cornerstone

NOTE: See instructions for more information including a list of county codes and well type codes.

Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

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

Facility/Project Name Seven Mile Creek Landfill	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name DH-63
Facility License, Permit or Monitoring No. 3097	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input checked="" type="checkbox"/>	Wis. Unique Well No. VU619 DNR Well Number
Facility ID 618045450	Lat. _____ Long. _____ or St. Plane 367,909 ft. N, 1,645,549 ft. E. S <input checked="" type="checkbox"/> N	Date Well Installed 12/19/2018
Type of Well Well Code 11/mw	Section Location of Waste/Source NW 1/4 of SW 1/4 of Sec. 9 T. 27 N. R. 8 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: (Person's Name and Firm) Todd Schmalfeldt
Distance from Waste/Source 0 ft.	Location of Well Relative to Waste/Source u <input checked="" type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Cascade

<p>A. Protective pipe, top elevation <u>933.72</u> ft. MSL</p> <p>B. Well casing, top elevation <u>933.71</u> ft. MSL</p> <p>C. Land surface elevation <u>930.8</u> ft. MSL</p> <p>D. Surface seal, bottom <u>930.8</u> ft. MSL or <u>0.0</u> ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>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 checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input checked="" type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 <u>Sonic</u> Other <input checked="" type="checkbox"/></p> <p>15. Drilling fluid used: Water <input checked="" type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9</p> <p>16. Drilling additives used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe <u>Haliburton EZ Mud</u></p> <p>17. Source of water (attach analysis, if required): <u>Landfill Shop Well</u></p> </div> <p>E. Bentonite seal, top <u>930.8</u> ft. MSL or <u>0.0</u> ft.</p> <p>F. Fine sand, top <u>899.8</u> ft. MSL or <u>31.0</u> ft.</p> <p>G. Filter pack, top <u>897.8</u> ft. MSL or <u>33.0</u> ft.</p> <p>H. Screen joint, top <u>895.8</u> ft. MSL or <u>35.0</u> ft.</p> <p>I. Well bottom <u>880.8</u> ft. MSL or <u>50.0</u> ft.</p> <p>J. Filter pack, bottom <u>879.8</u> ft. MSL or <u>51.0</u> ft.</p> <p>K. Borehole, bottom <u>875.8</u> ft. MSL or <u>55.0</u> ft.</p> <p>L. Borehole, diameter <u>6.0</u> in.</p> <p>M. O.D. well casing <u>2.38</u> in.</p> <p>N. I.D. well casing <u>2.05</u> in.</p>		<p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>7.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 <u>3/8" bentonite plug</u> Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 <u>Red Flint #40 Sand</u> Other <input type="checkbox"/></p> <p>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. <u>5.13</u> Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8</p> <p>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"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint #7</u> b. Volume added <u>0.33</u> ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added <u>3.01</u> ft³</p> <p>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"/></p> <p>10. Screen material: <u>PVC</u> a. Screen Type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 _____ Other <input type="checkbox"/></p> <p>b. Manufacturer <u>Johnson</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15.0</u> ft.</p> <p>11. Backfill material (below filter pack): None <input type="checkbox"/> 1 4 <u>Native</u> Other <input checked="" type="checkbox"/></p>
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm **Cornerstone** Tcl: 877-633-5520
 8413 Excelsior Dr. Madison, WI 53717 Fax:

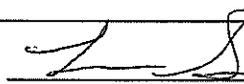
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Seven Mile Creek Landfill	County Eau Claire	Well Name DH-63	
Facility License, Permit or Monitoring Number 3097	County Code 18	Wis. Unique Well Number VU619	DNR Well Number

<p>1. Can this well be purged dry? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Well development method:</p> <p>surged with bailer and bailed <input type="checkbox"/> 4 1</p> <p>surged with bailer and pumped <input type="checkbox"/> 6 1</p> <p>surged with block and bailed <input checked="" type="checkbox"/> 4 2</p> <p>surged with block and pumped <input type="checkbox"/> 6 2</p> <p>surged with block, bailed, and pumped <input type="checkbox"/> 7 0</p> <p>compressed air <input type="checkbox"/> 2 0</p> <p>bailed only <input type="checkbox"/> 1 0</p> <p>pumped only <input type="checkbox"/> 5 1</p> <p>pumped slowly <input type="checkbox"/> 5 0</p> <p>other <u>Also surged with bailer and bailed</u></p> <p>3. Time spent developing well _____ min.</p> <p>4. Depth of well (from top of well casing) 145 ft.</p> <p>5. Inside diameter of well 53.0 in.</p> <p>6. Volume of water in filter pack and well casing 1.7 gal.</p> <p>7. Volume of water removed from well 5.0 gal.</p> <p>8. Volume of water added (if any) 1000.0 gal.</p> <p>9. Source of water added <u>Landfill Shop Well</u></p> <p>10. Analysis performed on water added? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, attach results)</p>	<table border="1"> <thead> <tr> <th></th> <th>Before Development</th> <th>After Development</th> </tr> </thead> <tbody> <tr> <td>11. Depth to Water (from top of well casing)</td> <td>a. 49.47 ft.</td> <td>49.50 ft.</td> </tr> <tr> <td>Date</td> <td>b. 12/21/2018</td> <td>12/21/2018</td> </tr> <tr> <td>Time</td> <td>c. 08:20 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.</td> <td>10:45 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.</td> </tr> <tr> <td>12. Sediment in well bottom</td> <td>0.5 inches</td> <td>0.0 inches</td> </tr> <tr> <td>13. Water clarity</td> <td>Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>dark tan</u></td> <td>Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>slightly turbid</u></td> </tr> </tbody> </table> <p>Fill in if drilling fluids were used and well is at solid waste facility:</p> <p>14. Total suspended solids mg/l 964.0 mg/l</p> <p>15. COD mg/l 92.7 mg/l</p> <p>16. Well developed by: Person's Name and Firm Travis Weisenbeck Cascade</p>		Before Development	After Development	11. Depth to Water (from top of well casing)	a. 49.47 ft.	49.50 ft.	Date	b. 12/21/2018	12/21/2018	Time	c. 08:20 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	10:45 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	12. Sediment in well bottom	0.5 inches	0.0 inches	13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>dark tan</u>	Clear <input type="checkbox"/> 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>slightly turbid</u>
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17. Additional comments on development:
Pumped dry twice, bailed dry 4 times, water started cleaning up after being bailed dry twice.

<p>Facility Address or Owner/Responsible Party Address</p> <p>Name: <u>John Blackmon</u></p> <p>Firm: <u>Advanced Disposal</u></p> <p>Street: <u>8001 Olson Drive</u></p> <p>City/State/Zip: <u>Eau Claire, WI 54703</u></p>	<p>I hereby certify that the above information is true and correct to the best of my knowledge.</p> <p>Signature: </p> <p>Print Name: <u>Luke Specketer</u></p> <p>Firm: <u>Cornerstone</u></p>
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NOTE: See instructions for more information including a list of county codes and well type codes.