

Rec'd WDNRI/SER  
08/18/09



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Pamela Mylotta  
Wisconsin Department of Natural Resources  
2300 North Dr. Martin Luther King, Jr. Drive  
Milwaukee, Wisconsin 53212-0436

PIID 241 68 3150

Subject:

Supplemental Investigation Results, Former Hoffman's Valet Cleaners, 7215 West Center Street, Wauwatosa, Wisconsin. BRRTS No. 02-41-307576

ENVIRONMENT

Dear Ms. Mylotta:

ACTION: 37  
COMMENT: SUPPLEMENTAL SI RESULTS

In accordance with a request from the Wisconsin Department of Natural Resources (WDNR), ARCADIS prepared a scope of work for conducting supplemental investigation activities at the subject property. The scope of work, dated February 21, 2008, included the collection of soil and vapor samples from adjacent properties to the east and west. An access agreement was executed with the owner of the west adjacent property owner. Despite numerous attempts, access could not be obtained from the owner of the east adjacent property. ARCADIS developed an alternate scope of work to address investigation activities to the east.

Date:  
August 17, 2009

Contact:  
Ed Buc

Phone:  
414.276.7742

Email:  
[ebuc@arcadis-us.com](mailto:ebuc@arcadis-us.com)

The WDNR approved the alternate scope of work in a letter dated April 1, 2009. The WDNR letter requested that supporting documentation regarding access requests for the east adjacent property and the supplemental investigation results be submitted to WDNR for review. This letter transmits the data collected during the supplemental investigation. ARCADIS believes the investigation activities completed to date indicate that limited impacts are present in the subject property, and that site closure should be granted. In accordance with the April 1, 2009 WDNR letter, ARCADIS will prepare a formal request for closure once WDNR provides a response to this letter.

Our ref:  
WI000943.0003

### Requests for Access

In previous communications, the WDNR requested that borings be advanced on the adjacent property to the west (7219 West Center Street) and east (7209 West Center Street). Access to the west adjacent property was obtained; however, ARCADIS was unsuccessful at obtaining access to the east adjacent property. No phone number is listed for the property owner. ARCADIS visited the property on several occasions in an attempt to speak with the owner, but nobody answered the door on these visits. Two letters were sent to the property owner, dated July 9, 2008 and December 15, 2008, with the second letter being sent via registered mail. ARCADIS received a return receipt, indicating the second letter was received, but ARCADIS received no further response. Copies of the letters are enclosed.

Imagine the result

As stated earlier, an access agreement was executed with the west adjacent property owner (Cindy Johnson). ARCADIS completed the soil borings outside the building, as described in the February 21, 2008 scope of work. However, when ARCADIS attempted to advance a subslab vapor probe inside the building on the west adjacent property, the property owner declined further access. At first, the west adjacent property owner indicated that they lived outside of Milwaukee, and asked that we contact them occasionally to determine when they would be in the area. We contacted the adjacent property owner at least seven times between April and June 2009, and could not obtain access. The property owner later stated that they were declining access due to a dispute that has arisen with the current owner of the dry cleaner over unapproved use of the dumpster belonging to the west adjacent property owner. The ongoing investigation is being conducted by the former owner of the dry cleaner, not the current owner.

Because access could not be obtained, no subslab vapor samples could be collected during this phase of investigation.

### Source Areas

As stated in the February 21, 2008 scope of work, ARCADIS contacted Mr. Ralph Hoffman, the former property owner and dry cleaner operator, to obtain additional information to locate potential sources of the constituents identified at the subject property. Mr. Hoffman indicated that the dry cleaning machine has always been in the southern portion of the building. Process equipment, chemicals or waste products were not stored in other areas of the building. The previous investigations included three borings in the vicinity of the dry cleaning machine.

It is noted that the property only occupies an area of about 5,100 square feet, and that the building occupies about 3,600 square feet. To date, 11 borings have been advanced on the subject property, and five additional borings have been advanced on adjacent properties.

### Investigation Data

The field activities for the supplemental investigation were completed in May 2009. These activities included:

- Placement of one Geoprobe boring (GP-106) on a property to the east.
- Placement of two Geoprobe borings (GP-107 and GP-108) on the west adjacent property.

- Placement of two Geoprobe borings (GP-109 and GP-110) in the alley south of the subject property.
- Collection of soil samples from the Geoprobe borings.

The attached information presents the results of the supplemental investigation. Figure 1 depicts the boring locations. Table 1 summarizes the soil analytical results. No chlorinated hydrocarbons were detected. Xylene was detected in the sample from GP-106, advanced to the east. This property was reportedly occupied by a gasoline service station. Supporting documentation, including boring logs, borehole abandonment forms, and laboratory reports are attached.

The goal of the supplemental investigation was to evaluate soil conditions in a sand layer located at a depth of approximately 10 feet. ARCADIS has prepared updated cross sections (Figures 5, 6 and 7) to illustrate findings from the May 2009 borings. The borings indicate that the sand layer is limited in extent along the north side of the property (cross section represented by GP-107/MW-1/GP-106).

### Closing

Based on the results of the supplemental investigation, the extent of impacts in the sand unit has been defined. The investigation results to date indicate that impacts at the subject property are relatively limited. Vapor sampling was previously conducted on the subject property; however, adjacent property owners have refused access for additional subslab vapor sampling.

Please review the attached information at your convenience. As requested, ARCADIS will not conduct additional work until the WDNR provides comments. If you have any questions or require additional information, please contact us at your convenience.

Sincerely,

ARCADIS



Edmund A. Buc, PE, CHMM  
Principal Engineer

Copy:  
Ralph Hoffman



## ARCADIS

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL		SSL	GP-1	GP-2	GP-101		GP-102		GP-103	
Sample Depth (ft bls)	SSL	Vapor	Groundwater	6-8	4-6	7-11	11-15	4-8	12-16	8-12	12-16
Sample Date	Ingestion	Inhalation	Protection	02/07/02	02/07/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02	09/12/02
VOCs											
cis-1,2-Dichloroethene	156,000	1,300,000	27	53	<10	<25	<25	<25	<25	<25	<25
Ethylbenzene	--	--	2,900	<10	<10	<25	<25	<25	<25	<25	<25
Fluorotrichloromethane	4,690,000	410,000	9,200	NA	NA	<25	<25	<25	<25	<25	<25
Methylene Chloride	8,520	2,700	0.98	21 Q	14 Q	<25	<25	<25	<25	<25	<25
Naphthalene	313,000	68,000	340	NA	NA	50 Q	<25	<25	<25	<25	<25
Tetrachloroethene	1,230	2,100	4.1	51	240	<25	<25	150	<25	400	<25
Xylenes, Total	--	--	4,100	<20	<20	<50	<50	<50	<50	<50	<50

Constituent concentrations are reported in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ).

Concentration exceeds the Soil Screening Level for the protection of groundwater.

**Concentration exceeds the soil screening level for vapor inhalation and ingestion.**

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.



Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL		SSL Groundwater	GP-104		GP-105		MW-1	MW-2	MW-3
	Sample Depth (ft bls)	Vapor		4-6	8-9	8-12	12-16	10-12	10-12	10-12
Sample Date	Ingestion	Inhalation	Protection	09/12/02	09/12/02	09/12/02	09/12/02	01/19/05	01/19/05	01/19/05
VOCs										
cis-1,2-Dichloroethene	156,000	1,300,000	27	<25	<25	<25	<25	<29	<28	<31
Ethylbenzene	--	--	2,900	<25	<25	<25	<25	<29	<28	<31
Fluorotrichloromethane	4,690,000	410,000	9,200	61	<25	<25	<25	<29	<28	<31
Methylene Chloride	8,520	2,700	0.98	<25	<25	<25	<25	72	96	<62
Naphthalene	313,000	68,000	340	<25	<25	<25	<25	<29	<28	<31
Tetrachloroethene	1,230	2,100	4.1	41 Q	45 Q	130	<25	2,800	3,720	<31
Xylenes, Total	--	--	4,100	<50	<50	<50	<50	<58	<56	<62

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

  Concentration exceeds the Soil Screening Level for the protection of groundwater.

**Bold** Concentration exceeds the soil screening level for vapor inhalation and ingestion.

ft bls Feet below land surface.

ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.

Table 1. Soil Analytical Results, Hoffman's Valet Cleaners, 7215 W. Center Street, Wauwatosa, Wisconsin.

Sample ID	SSL		SSL	GP-3		GP-106	GP-107	GP-108	GP-109	GP-110
Sample Depth (ft bls)	SSL	Vapor	Groundwater	8-10	10-12	10-12	12-14	14-16	12-14	14-16
Sample Date	Ingestion	Inhalation	Protection	01/08/07	01/08/07	05/01/09	05/01/09	05/01/09	05/01/09	05/01/09
VOCs										
cis-1,2-Dichloroethene	156,000	1,300,000	27	<35	<54	<26	<28	<28	<28	<29
Ethylbenzene	--	--	2,900	80	130	<26	<28	<28	<28	<29
Fluorotrichloromethane	4,690,000	410,000	9,200	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	8,520	2,700	0.98	<69	<110	<53	<56	<56	<56	<57
Naphthalene	313,000	68,000	340	<69	<110	<53	<56	<56	<56	<57
Tetrachloroethene	1,230	2,100	4.1	<b>2,500</b>	<b>5,200</b>	<26	<28	<28	<28	<29
Xylenes, Total	--	--	4,100	320	550	100	<95	<95	<96	<98

Constituent concentrations are reported in micrograms per kilogram (µg/kg).

**□** Concentration exceeds the Soil Screening Level for the protection of groundwater.

**Bold** Concentration exceeds the soil screening level for vapor inhalation and ingestion.

ft bls Feet below land surface.

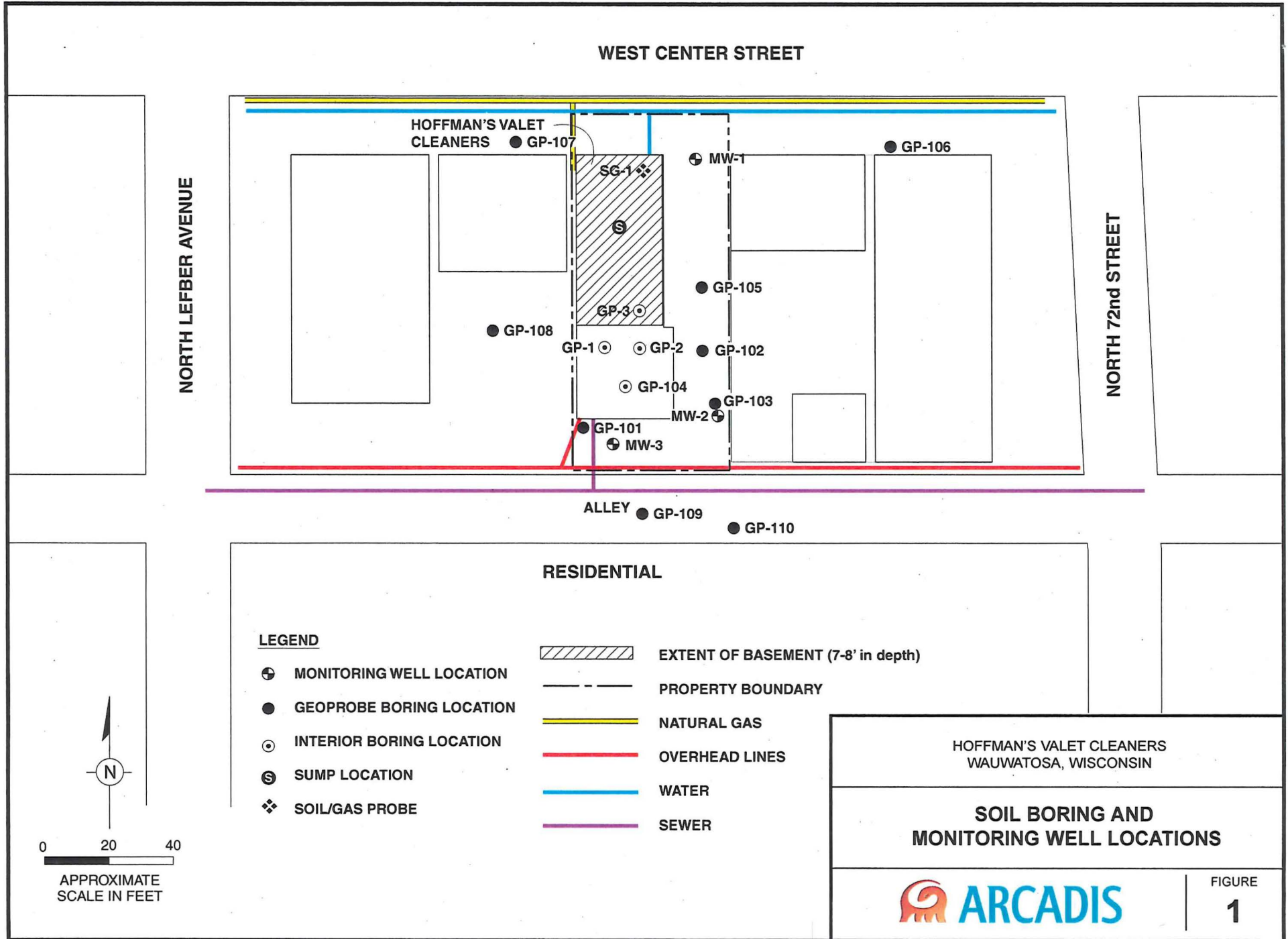
ID Identification.

NA Not analyzed.

SSL Soil Screening Level.

Q Analyte detected between the Limit of Detection and the Limit of Quantitation.

VOCs Volatile organic compounds.





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

Facility/Project Name <b>Hoffman Cleaners</b>			License/Permit/Monitoring Number		Boring Number <b>GP-106</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name _____ Last Name _____ Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>04/23/09</b>	Date Drilling Completed <b>04/23/09</b>	Drilling Method <b>Geoprobe</b>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2</b> inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/> Lat _____ <input type="checkbox"/> N <input type="checkbox"/> E _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ <input checked="" type="checkbox"/> E <input type="checkbox"/> W Long _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			Local Grid Location			

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/or Village <b>Wauwatosa</b>
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Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	31		0	0-4/ 0-3.5" Topsoil: Silt, dark brown, smooth, crumbly, trace organics roots/grass, moist, grades over 7" into below. 3.5-31" Silt/Clay: Yellow brown (10 YR 5/6) smooth and slightly grainy, crumbly, trace fine to coarse sand and gravel up to 1-1/2" subround to subangular, moist.				0-2						
			7.4											
2	NR		2	4-8/ Gravel up to 3/4" angular to subangular and silt/clay as above in tip of sampler.				2-4						
			7.5											
3	44		4	8-12/ 0-4" Silt/Clay: Brown (10 YR 5/3), smooth cohesive, plastic, trace gravel up to 1/2" subround to subangular, moist. 4-27" Clay: Grayish brown (10 YR 5/2), smooth, cohesive, plastic, trace gravel up to 1/2", moist, from 19-23" is grainy silt, same color, sorted, loose, moist.				4-6						
			NR											
			6					6-8						
			NR											
			8					8-10						
			8.2											
			10					10-12						
			7.9											

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

Signature 	Firm <b>ARCADIS</b> 126 N. Jefferson St., Suite 400 Milwaukee, WI (414) 276-7742
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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	(PID)/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	46		12	27-42" Sand: Fine grain, trace medium to coarse, well sorted, loose, moist. 42-44" Clay: Grayish brown (10 YR 5/2) smooth, cohesive, plastic, moist to wet.										
			12-14	12-16/ 0-46" Clay: As above, from 33-35" includes little sand fine to medium grain and grainy silt.				12-14 7.5						
			14-16					14-16 7.0						
			16	EOB @ 16'										
			18											
			20											
			22											
			24											
			26											
			28											

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

Facility/Project Name <b>Hoffman Cleaners</b>		License/Permit/Monitoring Number		Boring Number <b>GP-107</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name _____ Last Name _____ Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>05/01/09</b>	Date Drilling Completed <b>05/01/09</b>	Drilling Method <b>Geoprobe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/> Lat _____ _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ <input checked="" type="checkbox"/> E <input type="checkbox"/> W Long _____			Local Grid Location _____ Feet <input type="checkbox"/> N <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/or Village <b>Wauwatosa</b>
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Sample Number and Type	Length All & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	35		0	0-4/ 0-4" Concrete. 4-35" Silt/Clay: Yellow brown (10 YR 5/6), smooth crumbly at first, cohesive and plastic when worked, trace medium to coarse sand and gravel up to 1/2" subround to subangular, trace organics (roots) from 0-18 more crumbly, moist.				0-2						
			7.1											
2	42		2	4-8/ 0-40" Silt/Clay: As above. 40-42" Clay/Silt: Brown (10 YR 5/3) smooth, cohesive, plastic, trace fine to medium grain. sand, moist to wet.				2-4						
			7.2											
3	32		4	8-12/ 0-23" Silt: Light yellowish brown (10 YR 6/4), crumbly, some clay, little to trace fine to coarse sand and gravel up to 1" subround to subangular, moist. 23-32" Clay: Grayish brown (10 YR 5/2) crumbly at first, cohesive and plastic when worked, trace to little gravel up to 1.5" subround to subangular				4-6						
			7.1											
			6					6-8						
			8					7.2						
			10					8-10						
								7.2						
								10-12						
								7.6						

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

Signature 	Firm <b>ARCADIS</b> 126 N. Jefferson St., Suite 400 Milwaukee, WI (414) 276-7742
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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (ft)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
				and trace to little sand fine to medium, becomes silty (grainy) in places.										
4	40		12	12-16/ 0-8" Clay: Grayish brown, some sand fine to coarse crumbly, moist, wet. 8-35" Clay: As above. 35-40" Silt/Clay: Gray (10 YR 6/1) smooth to grainy, cohesive, plastic, trace to little medium coarse sand, trace gravel up to 1.5" angular to subangular, wet to moist.				12-14 7.4						
			14					14-16 8.0						
5	40		16	16-20/ 0-24" Clay: As above. 24-31" Clay: As above, little to some sand fine to medium. 31-40" Clay: Dark grayish brown (10 YR 4/3), smooth, cohesive, plastic, little sand fine to coarse and gravel up to 1" subround to subangular, moist.				16-18 8.8						
			18											
			20	EOB @ 20'										
			22											
			24											
			26											
			28											

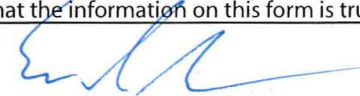
Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Hoffman Cleaners</b>		License/Permit/Monitoring Number		Boring Number <b>GP-108</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name _____ Last Name _____ Firm <b>Giles Engineering Associates</b>		Date Drilling Started <b>05/01/09</b>	Date Drilling Completed <b>05/01/09</b>	Drilling Method <b>Geoprobe</b>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> /C <input type="checkbox"/> /N <input type="checkbox"/> Lat _____ _____ 1/4 of _____ 1/4 of Section _____, T _____ N,R _____ <input checked="" type="checkbox"/> E _____ _____ <input type="checkbox"/> W Long _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			Local Grid Location _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/or Village <b>Wauwatosa</b>
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Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	17		0	0-4/ 0-3.5" Crushed asphalt. 3-17" Silt/Clay: Brown (10 YR 4/3) smooth, crumbly at first, cohesive and plastic when worked, trace fine to coarse sand and gravel up to 1" subround to subangular, moist.				0-2 7.7						
			2-4 8.1											
2	38		4	4-8/ 0-21.5" Clay: Grayish brown (10 YR 5/2), smooth, cohesive, plastic, moist, trace medium to coarse sand and gravel up to 1/2" subround to subangular. 21.5-38" Clay: Light yellowish brown (10 YR 6/4) crumbly at first, cohesive, plastic when worked some silt, trace fine to coarse sand and gravel up to 1.5" subangular to subangular, moist.				4-6 7.6						
			6-8 8.5											
3	42		8	8-12/ 0-8" Clay: As above. 8-26" Clay: grayish brown (10 YR 5/2) smooth, cohesive, plastic, moist, trace sand fine to coarse grain, gravel up to 1/2" subround to subangular. 26-28" Silt/Sand/Gravel: Color as above, grainy, fine grain, up to 1/2" subround to subangular, poorly sorted, somewhat loose.				8-10 9.7						
			10-12 10.2											

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

Signature 	Firm <b>ARCADIS</b> 126 N. Jefferson St., Suite 400 Milwaukee, WI (414) 276-7742
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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (ft)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	46		12	28-40" Clay: Grayish brown (10 YR 5/2) smooth, cohesive, plastic, trace to little fine sand and gravel up to 1/2" subround to subangular, moist to wet. 40-42" Sand: Yellow brown (10 YR 5/4) fine grain, well sorted, loose, moist.										
			12-16/	0-24" Silt/Clay: Grayish brown (10 YR 5/2), smooth to grainy somewhat cohesive to somewhat crumbly, some fine sand in places (20-21") moist, trace gravel up to 3/4" subround to subangular.				12-14 9.3						
			14-16	24-33" Sand: Dark yellowish brown (10 YR 4/2) fine grain, trace to little medium to coarse grain, some grainy silt, sorted, loose, wet. 33-46" Clay: Grayish brown (10 YR 5/2), smooth to grainy, trace to little medium to coarse sand and gravel up to 1" subround to subangular cohesive, plastic when worked.				14-16 7.8						
			16	EOB @ 16'										
			18											
			20											
			22											
			24											
			26											
			28											



Route to: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other  \_\_\_\_\_


Page 1 of 2

Facility/Project Name <b>Hoffman Cleaners</b>		License/Permit/Monitoring Number		Boring Number <b>GP-109</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Keith</b> Last Name _____ Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>05/01/09</b>	Date Drilling Completed <b>05/01/09</b>	Drilling Method <b>Geoprobe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL	Borehole Diameter <b>2</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/> _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____			Local Grid Location _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E <input checked="" type="checkbox"/> E <input type="checkbox"/> W _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W		

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/or Village <b>Wauwatosa</b>
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Sample Number and Type	Length All & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	37		0	0-4/ 0-6" Concrete. 6-33" Silt/Clay: Brown (10 YR 5/3) crumbly, cohesive and little plastic when worked, trace to medium coarse sand and gravel up to 1-1/2" subround to subangular, moist.				0-2						
			7.9											
2	26		2	4-8/ 0-26" Silt/Clay: As above, in places sandy (some to much fine sand).				2-4						
			7.4											
3	36		4	8-12/ 0-11" Silt/Clay: As above (sandy). 11-36" Clay: Gray (10 YR 5/1) very cohesive and very plastic, smooth, moist to wet, looks as if sand fell out of base of sleeve (fine grain).				4-6						
			7.4											
			6					6-8						
			8					7.3						
			10					10-12						
								7.4						

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

Signature 	Firm <b>ARCADIS</b> 126 N. Jefferson St., Suite 400 Milwaukee, WI (414) 276-7742
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Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
4	46		12	12-14/ 0-13" Clay: As above, with little sand fine to medium. 13-24" Sandy Silt: Yellowish brown (10 YR 5/6), smooth to grainy, sand fine, trace gravel up to 1/2" subround to subangular, wet, gravel/rock in tip.				12-14 7.4						
			14	Refusal @ 14'										
			16											
			18											
			20											
			22											
			24											
			26											
			28											

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

Facility/Project Name <b>Hoffman Cleaners</b>			License/Permit/Monitoring Number		Boring Number <b>GP-110</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name <b>Keith</b> Last Name Firm <b>Giles Engineering Associates</b>			Date Drilling Started <b>05/01/09</b>	Date Drilling Completed <b>05/01/09</b>	Drilling Method <b>Geoprobe</b>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level _____ Feet	Surface Elevation _____ Feet MSL		Borehole Diameter <b>2</b> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E S <input type="checkbox"/> / C <input type="checkbox"/> / N <input type="checkbox"/> Lat _____ _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ <input checked="" type="checkbox"/> E <input type="checkbox"/> W Long _____			Local Grid Location _____ Feet <input type="checkbox"/> N _____ Feet <input type="checkbox"/> E _____ Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W			

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/or Village <b>Wauwatosa</b>
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Sample Number and Type	Length All. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
1	25		0	0-4/ 0-8" Concrete crushed.				0-2 8.8						
			2	8-22" Silt/Clay: Brown (10 YR 5/3) smooth to grainy, trace fine to coarse sand, crumbly at first, cohesive and plastic when worked, moist. 22-25" Silt/Clay: Dark brown to black, smooth, cohesive, plastic, moist to wet.				2-4 7.1						
2	27		4	4-8/ 0-6" Silt/Clay: Dark brown to black, as above.				4-6 6.7						
			6	6-25" Sandy Clay: Dark yellowish brown (10 YR 4/4) smooth, slight cohesive and plastic, sand is fine, trace gravel up to 1/2" subround to subangular, moist to wet. 25-27" Silt: Brownish yellow (10 YR 6/6) grainy, crumbly, boarderline with very fine sand, moist to wet.				6-8 6.7						
3	36		8	8-12/ 0-8" Clay: Dark brown cohesive, plastic, moist, trace medium to coarse sand and gravel up to 1/2"				8-10 6.9						
			10	8-20" Sandy Clay/Silt: Brown (10 YR 4/3) smooth to grainy, slight cohesive, plastic, moist to wet. 20-42" Silt/Clay: Grayish brown (10 YR 5/2) smooth to grainy, slight cohesive, plastic, trace fine to				10-12 6.9						

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

Signature  Firm **ARCADIS**  
126 N. Jefferson St., Suite 400  
Milwaukee, WI (414) 276-7742




Sample		Blow Counts	Depth in Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
Number and Type	Length All. & Recovered (in)								Compressive Strength	Moisture Content	Liquid Limit	Plastic Limit	P 200	
				medium sand and gravel up to 1/2" subround to subangular.										
4	38		12	12-16/ 0-28" Silt/Clay: As above. 28-34" Sand: Dark yellow brown (10 YR 4/4), fine grain, well sorted, loose, moist to wet. 34-38" Silt/Clay: Light yellow brown (10 YR 6/4) smooth, cohesive, plastic, saturated.				12-14 6.7						
			14				14-16 6.7							
			16	EOB @ 16'										
			18											
			20											
			22											
			24											
			26											
			28											

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, 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.

**Route to:**

Drinking Water  Watershed/Wastewater  Waste Management  Remediation/Redevelopment  Other: \_\_\_\_\_

<b>1. Well Location Information</b>				<b>2. Facility / Owner Information</b>							
County		WI Unique Well No. Removed Well		Hicap #		Facility Name <b>Hoffman Cleaners</b>		Common Well Name <b>GP-109</b>			
Latitude / Longitude (Degrees and Minutes)				Method Code (see instructions)							
____ ° ____ ' ____ " N		____ ° ____ ' ____ " W		____		____		____			
1/4 / 1/4		1/4		Section		Township		Range <input type="checkbox"/> E <input type="checkbox"/> W			
or Gov't Lot #		N									
Well Street Address <b>7215 W. Center Street</b>				Original Well Owner							
Well City, Village or Town <b>Wauwatosa</b>				Present Well Owner							
Subdivision Name				Well ZIP Code							
Lot #				Mailing Address of Present Owner							
Reason For Removal From Service <b>Investigative boring</b>				WI Unique Well # of Replacement Well							
<b>3. Well/Drillhole/Borehole Information</b>				<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>							
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>04/23/2009</b>		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
Construction Type:				Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A					
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Dug		Was casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>						Did sealing material rise to surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		Did material settle after 24 hours?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)				If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.)				If bentonite chips were used, were they hydrated with water from a known safe source?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Was well annular space grouted?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Required Method of Placing Sealing Material					
If yes, to what depth (feet)?		Depth to Water (feet)				<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): _____			
<b>5. Material Used to Fill Well / Drillhole</b>				Sealing Materials		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)					
Baroid holeplug 3/8" chips				<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "					
				<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips					
				<input type="checkbox"/> Concrete							
				For Monitoring Wells and Monitoring Well Boreholes Only:							
				<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout					
				<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry					
<b>6. Comments</b>				From (ft.)		To (ft.)		No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight	
				Surface		14		<1/2 bag			
<b>7. Supervision of Work</b>				<b>DNR Use Only</b>							
Name of Person or Firm Doing Filling & Sealing <b>ARCADIS</b>		License #		Date of Filling & Sealing (mm/dd/yyyy) <b>04/23/2009</b>		Date Received		Noted By			
Street or Route <b>126 N. Jefferson Street, Suite 400</b>		Telephone Number <b>414.276.7742</b>		Signature of Person Doing Work 		Comments		Date Signed <b>8/17/09</b>			
City <b>Milwaukee</b>		State <b>WI</b>		ZIP Code <b>53202</b>							



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**Route to:**

Drinking Water    Watershed/Wastewater    Waste Management    Remediation/Redevelopment    Other: \_\_\_\_\_

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

County		WI Unique Well No. Removed Well	Hicap #	Facility Name <b>Hoffman Cleaners</b>		Common Well Name <b>GP-108</b>	
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)				
_____ ° _____ ' N _____ ° _____ ' W							
1/4 / 1/4	1/4	Section	Township	Range	<input type="checkbox"/> E <input type="checkbox"/> W		
or Gov't Lot #		N		Original Well Owner			
Well Street Address <b>7215 W. Center Street</b>				Present Well Owner			
Well City, Village or Town <b>Wauwatosa</b>				Mailing Address of Present Owner			
Subdivision Name				Well ZIP Code		City of Present Owner   State   ZIP Code	
Lot #							

**3. Well/Drillhole/Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Removal From Service <b>Investigative boring</b>		WI Unique Well # of Replacement Well		Pump and 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
				Required Method of Placing Sealing Material			
				<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): _____			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input 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**


Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)		
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)		
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	16	<1/2 bag	

**6. Comments**

Baroid holeplug 3/8" chips

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>ARCADIS</b>		License #	Date of Filling & Sealing (mm/dd/yyyy) <b>04/23/2009</b>	Date Received	Noted By
Street or Route <b>126 N. Jefferson Street, Suite 400</b>		Telephone Number <b>414.276.7742</b>		Comments	
City <b>Milwaukee</b>	State <b>WI</b>	ZIP Code <b>53202</b>	Signature of Person Doing Work 	Date Signed <b>8/17/09</b>	

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**Route to:**

Drinking Water    Watershed/Wastewater    Waste Management    Remediation/Redevelopment    Other: \_\_\_\_\_


1. Well Location Information				2. Facility / Owner Information			
County		WI Unique Well No. Removed Well	Hicap #	Facility Name <b>Hoffman Cleaners</b>		Common Well Name <b>GP-107</b>	
Latitude / Longitude (Degrees and Minutes)			Method Code (see instructions)				
___ ° ___ ' ___ " N ___ ° ___ ' ___ " W							
1/4 / 1/4	1/4	Section	Township	Range	<input type="checkbox"/> E <input type="checkbox"/> W		
or Gov't Lot #				Original Well Owner			
Well Street Address <b>7215 W. Center Street</b>				Present Well Owner			
Well City, Village or Town <b>Wauwatosa</b>			Well ZIP Code				
Subdivision Name			Lot #		Mailing Address of Present Owner		
				City of Present Owner		State	ZIP Code

3. Well/Drillhole/Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
Reason For Removal From Service <b>Investigative boring</b>		WI Unique Well # of Replacement Well			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>04/23/2009</b>			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.			
<input checked="" type="checkbox"/> Borehole / Drillhole		Pump and 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:		Required Method of Placing Sealing Material			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Formation Type:		Sealing Materials			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
Total Well Depth From Groundsurface (ft.)		For Monitoring Wells and Monitoring Well Boreholes Only:			
Casing Diameter (in.)		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
Lower Drillhole Diameter (in.)		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
Casing Depth (ft.)					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
If yes, to what depth (feet)?					
Depth to Water (feet)					

5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Baroid holeplug 3/8" chips</b>				Surface	20	<1/2 bag	

**6. Comments**

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7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>ARCADIS</b>		License #	Date of Filling & Sealing (mm/dd/yyyy) <b>04/23/2009</b>	Date Received	Noted By
Street or Route <b>126 N. Jefferson Street, Suite 400</b>		Telephone Number <b>414.276.7742</b>		Comments	
City <b>Milwaukee</b>		State <b>WI</b>	ZIP Code <b>53202</b>	Signature of Person Doing Work 	
				Date Signed <b>8/17/09</b>	



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**Route to:**

Drinking Water    Watershed/Wastewater    Waste Management    Remediation/Redevelopment    Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information					
County		WI Unique Well No. Removed Well		Hicap #		Facility Name <b>Hoffman Cleaners</b>		Common Well Name <b>GP-106</b>	
Latitude / Longitude (Degrees and Minutes)				Method Code (see instructions)					
_____ ° _____ ' N _____ ° _____ ' W				_____ _____					
1/4 / 1/4		Section		Township		Range		License/Permit/Monitoring #	
or Gov't Lot #				N		<input type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner	
Well Street Address <b>7215 W. Center Street</b>				Present Well Owner					
Well City, Village or Town <b>Wauwatosa</b>				Mailing Address of Present Owner					
Subdivision Name				Well ZIP Code		City of Present Owner		State   ZIP Code	
Reason For Removal From Service <b>Investigative boring</b>				WI Unique Well # of Replacement Well		<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>  Pump and 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A  Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
3. Well/Drillhole/Borehole Information									
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <b>04/23/2009</b>		If a Well Construction Report is available, please attach.					
Construction Type:				Required Method of Placing Sealing Material					
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>				<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): _____					
Formation Type:				<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Sealing Materials			
Total Well Depth From Groundsurface (ft.)		Casing Diameter (in.)		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips					
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.)		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown									
If yes, to what depth (feet)?		Depth to Water (feet)							
5. Material Used to Fill Well / Drillhole				From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight		
<b>Baroid holeplug 3/8" chips</b>				Surface	16	<1/2 bag			
6. Comments									

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>ARCADIS</b>		License #	Date of Filling & Sealing (mm/dd/yyyy) <b>04/23/2009</b>	Date Received	Noted By
Street or Route <b>126 N. Jefferson Street, Suite 400</b>		Telephone Number <b>414.276.7742</b>		Comments	
City <b>Milwaukee</b>		State <b>WI</b>	ZIP Code <b>53202</b>	Signature of Person Doing Work 	
				Date Signed <b>8/17/09</b>	



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**Route to:**

Drinking Water  Watershed/Wastewater  Waste Management  Remediation/Redevelopment  Other: \_\_\_\_\_

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

County	WI Unique Well No. Removed Well	Hicap #	Facility Name <b>Hoffman Cleaners</b>	Common Well Name <b>GP-110</b>
Latitude / Longitude (Degrees and Minutes)			Facility ID (FID or PWS)	
_____ ° _____ ' N _____ ° _____ ' W			License/Permit/Monitoring #	
1/4 / 1/4	1/4	Section	Township	Range
or Gov't Lot #			N	<input type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>7215 W. Center Street</b>			Original Well Owner	
Well City, Village or Town <b>Wauwatosa</b>			Present Well Owner	
Subdivision Name			Mailing Address of Present Owner	
Lot #			City of Present Owner	
			State	
			ZIP Code	

**3. Well/Drillhole/Borehole Information** **4. Pump, Liner, Screen, Casing & Sealing Material**

Reason For Removal From Service <b>Investigative boring</b>	WI Unique Well # of Replacement Well	Pump and 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Original Construction Date (mm/dd/yyyy) <b>04/23/2009</b>		Required Method of Placing Sealing Material <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): _____
If a Well Construction Report is available, please attach.		
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		
Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)	Sealing Materials
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet)	For Monitoring Wells and Monitoring Well Boreholes Only: <input 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**

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Baroid holeplug 3/8" chips	Surface	16	<1/2 bag	

**6. Comments**

**7. Supervision of Work** **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>ARCADIS</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>04/23/2009</b>	Date Received	Noted By
Street or Route <b>126 N. Jefferson Street, Suite 400</b>			Comments	
City Milwaukee			Date Signed <b>8/17/09</b>	
State WI		ZIP Code 53202	Signature of Person Doing Work 	