

April 6, 1999

Mr. Chris Saari Wisconsin Dept. of Natural Resources P.O. Box 125 6250 South Ranger Road Brule, WI 54820-0125

Re:

Ouearm Oil Site, Ashland, Wisconsin WDNR UID No. 02-02-000105 and 03-02-000975 BRULE D.N.R Dear Mr. Saari:

The purpose of this correspondence is to address some of the items presented to Mr. Fred Gygi, Gygi Heating Company in correspondence dated February 19, 1999. Detailed below are specific items that have been completed.

- 1. North Star Environmental Construction (North Star) is responsible for demonstrating that the contaminated soil landspread in October 1998 has met applicable closure criteria. North Star representatives have indicated that confirmation samples will be collected in the fall of 1999, approximately one year after the soil was landspread. North Star will submit appropriate landspreading site closure documentation to the Wisconsin Dept. of Natural Resources (WDNR).
- 2. It is understood that a deed restriction will not be required to identify the residual soil contamination present at the site as the concentration of contaminants are below the new "clay site protocols". The residual contamination will be addressed in the final closure letter provided by WDNR hereby providing appropriate notification to the City of Ashland, potential utility contractors and future land owners.
- 3. Attached are monitoring well abandonment forms for the site's wells. MSA Professional Services, Inc. (MSA) has not been able to locate monitoring wells MW-1, MW-2 and MW-4 since we became involved in this project in 1997. Monitoring well MW-3 was located and groundwater samples collected during the performance of remedial activities. Monitoring well MW-2 was over excavated and abandoned during the soil excavation activities.

Please contact me if you have any questions.

Sincerely,

MSA Professional Services, Inc.

Brian J. Hegge Project Manage

BJH:jcp

enc cc:

Fred Gygi, Gygi Heating Company, Ironwood, MI

Fran Washington, North Star Environmental Construction, Chetek, WI

Baraboo, Wisconsin

Beaver Dam, Wisconsin

Friendship, Wisconsin

Madison, Wisconsin

Galena, Illinois

1999

(I) GENERAL INFORMATION	(2) FACILITY NAME								
Well/Drillhole/Borehole County	Original Well Owner (If Known)								
Location Ashland	Quearm Oil Company								
	z   Tracent Well Owner								
(If applicable)  Gov't Lot Grid Number	Street or Route 105 West Leth Street								
Grid Location	City, State, Zip Code  RShland WI 54806  Facility Well No. and/or Name (If Applicable) WI Unique Well No.  MW-1								
ft.									
Street Address of Well									
_ 105 West both Street	Reason For Abandonment No Longer Required								
City, Village Ashland	Date of Abandonment								
WELL/DRILLHOLE/BOREHOLE INFORMATION									
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet)								
(Daie) <u>B/26/92</u>	Pump & Piping Removed? Yes No No Applicable								
M	Liner(s) Removed? Yes No Not Applicable								
Monitoring Well   Construction Report Available?	Screen Removed?  Yes No Not Applicable Casing Left in Place?  Yes No								
☐ Water Well ☐ Yes ☐ No ☐ Drillhole	If No. Explain Well could not be located. Appears								
☐ Borehole	to have been destroyed during construction								
· · · · · · · · · · · · · · · · · · ·	Was Casing Cut Off Below Surface? Ses No activities								
Construction Type:	Did Sealing Material Rise to Surface? Yes X No								
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Yes X No								
Other (Specify)	If Yes, Was Hole Retopped? Yes 🔀 No								
Formation Type:	(5) Required Method of Placing Sealing Material								
Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped								
	Dump Bailer Other (Explain)								
Total Well Depth (ft.) 1 Casing Diameter (ins.)	(6) Sealing Materials For monitoring wells and								
(From groundsurface)	Near Cement Grout monitoring well boreholes only								
Casing Depth (ft.)	Sand-Cement (Concrete) Grout Concrete !  Bentonite Pellets								
	Clay-Sand Slurry Granular Bentonite								
Was Well Annular Space Grouted?									
If Yes, To What Depth? Feet	Chipped Bentonite								
(7) Sealing Material Used	From (FL) To (FL) Sacks Sealant Mix Ratio or Mud Weight								
	or Volume								
	Surface								
(8) Comments:									
(T) COMMINION									
Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY								
MSA Professional Services INC	Date Received/Inspected District/County								
Signature of Person Doing Work   Date Signed									
Buttere 4-5-99	Reviewer/Inspector:								
Street or Route Co									
1835 N. Stevens St. (715)362-3244 City, State, Zip Code	Follow-up Necessary								
Rhinelander WI 54501									

(I) GENERAL INFORMATION			(2) FACILITY NAME							
Well/Drillbole/Borehole County			Onginal Weil Owner (If Known)							
Location Ashland			Quearm Oil Company							
	5 6 6 6		Present	Well Owner		<u> </u>	- Value	1		
	<u>SE 1/4 of SW1/4 of Sec. 3</u>	<u> コ: T. T D M: R.                                  </u>	Quearm Oil Company							
	(If applicable)		Street or Route							
	Gov't Lot	Grid Number		<u> 105</u>	Wes-	t leth	<u>stree</u>	et		
	Grid Location		City, S	tate. Zip Cod						
	ft. \[ \] N. \[ \] S., Civil Town Name	ft.		Ashl	and	WI	548			
	_ •	1	racuity	Weil No. and			) WI Unique	Well No.		
_	Street Address of Well	Company	MW-2							
		- Si L	Reason For Abandonment							
	City, Village	n street	No Longer Reavired  Date of Abandonment							
	Ashland		Date of	Adanconmen	12/1	100				
w	ELL/DRILLHOLE/BOREHOLE	INFORMATION	<u> </u>		141	19.7				
(3)			(4) Depth t	o Water (Feet	) 15					
•	(Date) 8/27/0		1.,	=			I Mr. EN Mr.			
	(Dat)	1 —		k Piping Remored?	oved:	☐ Yes ☐		Applicable		
	Monitoring Well	Construction Report Available?	1	Removed?		☐ Yes ☐		Applicable		
	Water Well	XYe DNo		Left in Place?		H Yes	No Not.	Applicable		
	Drillhole	(A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	1 -	If No. Explain Abandon Ed during Soil						
	Borehole		LYCAU	ation.	Well	duy ou	+0	<del></del>		
			Was Ca	sing Cut Off	Below Surfa	ace?OK				
	Construction Type:		Did Sea	ling Material	Rise to Sur	-				
		(Sandpoint) Dug	Did Ma	terial Settle A	fter 24 Hou	rs?	Yes 🔀 No			
	Other (Specify)		If Yes	, Was Hole R	etopped?		Yes 🔲 No			
	_ `		(5) Required Method of Placing Sealing Material							
	Formation Type:	<b>5</b>	Conductor Pipe-Gravity Conductor Pipe-Pumped							
	Unconsolidated Formation	☐ Bedrock	Dump Bailer  (6) Sealing Materials				Other (Explain)  For monitoring wells and			
	Total Well Depth (ft.) 20	Casing Diameter (ins.)								
	(From groundsurface)		☐ Neat Cement Grout			monitoring well boreholes only				
			☐ Sano	i-Cement (Cor	ncrete) Gro					
	Casing Depth (ft.)		Concrete Clay-Sand Slurry Unknown Bentonite-Sand Slurry			! □ B	Bentonite Pellets Granular Bentonite			
						G				
	Was Well Annular Space Grouted?	☐ Yes ☐ No ☐ Unknown					entonite - Ceme	ant Grout		
	If Yes, To What Depth?	Feet				ı	1			
ഗ=			<u>'                                    </u>	T T	No. Yar	ds,	-			
• •	Sealing Materi	al Used	From (FL)	To (FL)	Sacks Sea or Volum		Ratio or Mud	Weight		
_			Surface				,			
			Juliac							
_			<u> </u>							
			ł			1				
_			<u></u>							
(8)	Comments:			<u> </u>	<u> </u>					
•••										
(9)	Name of Person or Firm Doing Seal	ing Work	(10)	FOR	»DNR»O	RECOUNTY	WUSE ONLY	7		
~/	MSA Professiona			Received/Insp			strict/County			
	Signature of Person Doing Work	Date Signed					<b>-</b>			
	Bear Horse Street or Route	4-5-99	Revi	ewer/Inspector						
_		Telephone Number								
18	335 N. Stevens St.	1715)362-3244	Follo	w-up Necessa	a.y.					
	City, State, Zip Code	- (117.1								
	Rhinelander W	I 5450/								

(I) GENERAL INFORMATION			(2) FACILITY NAME								
Well/Drillhole/Borehole County			Onginal Well Owner (If Known)								
Location Ashland				Quear	M OIL	. Company					
<	5E 1/4 of SW 1/4 of Sec. 3	3 _48 ↓ □:	Present '	Well Owner		. (					
		<u> 3 ; T. T D N. R.                                </u>									
	(If applicable) Gov't Lot	Grid Number	Street or Route 105 West Leth Street								
	Grid Location	GIATTUILO.	City, St	ate, Zip Code		THE SHEET					
	ft.   N.   S.,	ft.   E.   W.	Facility Weil No. and/or Name (It Applicable) WI Unique Well No.  MW-3  Reason For Abandonment								
	Civil Town Name	<u> </u>									
-	Quearm Dil	Company									
	Street Address of Well	لم ' ہ									
	City, Village	1 Street	No Longer Reguired  Date of Abandonment								
	Ashland		Jan 01.	12/1/	97						
WE	LL/DRILLHOLE/BOREHOLE	INFORMATION	<u> </u>								
(3)	Original Well/Drillhole/Borehole C	onstruction Completed On	(4) Depth to	Water (Feet)	10						
	(Date) 8/27/92			Piping Remo	oved?	es 🔲 No 🔀 Not Applicable					
				Removed?		les No Not Applicable					
	Monitoring Well	Construction Report Available?	f	lemoved?		S Not Applicable					
	Water Well	X <sub>Ys</sub> D <sub>No</sub>	Casing Left in Place? Yes No If No. Explain Well destroyed during Soil								
	☐ Drillhole ☐ Borehole				IND ble to						
	borenoie				Below Surface?	Yes No					
	Construction Type:		1	•	Rise to Surface?	☐ Y≈ ☐ №					
		(Sandpoint) Dug			iter 24 Hours?	Yes No					
	Other (Specify)		If Yes,	, Was Hole Re	☐ Yes ☐ No						
			(5) Required	i Method of P	lacing Sealing M	laterial					
	Formation Type:	the control of the co			☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped						
	Unconsolidated Formation			p Bailer		Other (Explain)					
		Casing Diameter (ins.)	(6) Sealing	For monitoring wells and							
	(From groundsurface)		Sand-Cement (Concrete) Grout Concrete Clay-Sand Slurry Granul Inknown Bentonite-Sand Slurry Benton			monitoring well boreholes only					
	Carina Danah (fr.)					Bentonite Pellets					
	Casing Depth (ft.)					Granular Bentonite					
	Was Well Annular Space Grouted?	☐ Yes ☐ No ☐ Unknown				Bentonite - Cement Grout					
	If Yes, To What Depth?	Feet									
<u>₩</u>			<del></del>	<u> </u>	No. Yards,						
(/)	Sealing Mater	rial Used	From (FL)	To (FL)	Sacks Sealant or Volume	Mix Ratio or Mud Weight					
			Surface								
			04.22								
	<u> </u>										
				<u> </u>	<u> </u>						
(8)	Comments:		·								
	Manager and Driver	line Work	Fe10v	FOD	«DNP«OP»e	OUNTY USE ONLY					
(9)	Name of Person or Firm Doing Sea MSA Professiona			Received/Insp		District/County					
	Signature of Person Doing Work	Date Signed									
	Bu Have	4-5-99	Revi	ewer/Inspecto	C.						
	Street or Route	Telephone Number	1 [								
18	335 N. Stevens St.	(715)362-3244	Folk	w-up Necess	ary						
	City, State, Zip Code	IE 54501			_						
	Rhinelander W	IE 54501	j								

## State of Wisconsin ,Department of Natural Resources

## WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 8-89

(1)	GENERAL INFORMATION		(2) FA	ACILI	TY NAME						
-	Well/Drillhole/Borehole	County			Well Owner	(If Known)					
	Location Ashland				Quear	M 01	L Con	MPANY			
_	<u>56</u> 1/4 of <u>5W</u> 1/4 of Sec. <u>3</u>	3 : T.48 N.R. 4 3 #	Pre	sent '	Well Owner		_	ompany			
	(If applicable)  Gov't Lot	Grid Number	Sœ	eet or	Route	West	leth	. 0			
	Grid Location		Ci	ty, Št	ate, Zip Cod		W(1)	SHEEC			
	ft. N. S.,	ft E W.			Ashl	and	WI	54806			
	Civil Town Name	1	Factury Well No. and/or Name (It Applicable) WI Unique Well No.  MW - 4  Reason For Abandonment								
	Street Address of Well	Company									
	105 West 6H	n Street	No Long-er Regul Red  Date of Abandonment								
	City, Village										
	Ashland										
(3)	ELL/DRILLHOLE/BOREHOLE Original Well/Drillhole/Borehole C	INFORMATION	(40 D-		W(C						
(-)	(Date) 8/27/92		1, ,	•	Water (Feet		V., [7] }	7. NOW YOUR AND THE STREET			
	(Date) 8121142				Piping Rem Removed?	oved?	_	Not Applicable			
1	Monitoring Well	Construction Report Available?	1		emoved?	片	Yes   1	Not Applicable Not Applicable			
	Water Well	Yes D No			eft in Place?		Yes     N	ъ			
	Drillhole		IEV	io, Ex	cplain <b>Less</b>	ntedly - c	lestroy	ed when new			
	☐ Borehole	•	المي	<u>ild</u>	ikey fou	Nda HON	Was 'e	onstructed.			
	Construction Type:				_	Below Surface Rise to Surface		a No			
		(Sandpoint) Dug	1		-	fter 24 Hours?					
	Other (Specify)	(buildpoint)	If Yes, Was Hole Retopped? Yes No								
			(5) R∞	uired	Method of P	lacing Sealing	Material				
	Formation Type:		Conductor Pipe-Gravity Conductor Pipe-Pumped								
	•	Unconsolidated Formation Bedrock			Dump Bailer Other (Explain)						
	Total Well Depth (ft.) 20 Casing Diameter (ins.)			(6) Sealing Materials For monitoring wells and							
	(From groundsurface)		☐ Neat Cernent Grout monitoring well boreholes onl ☐ Sand-Cernent (Concrete) Grout								
	Casing Depth (ft.)			Concr	-	icrete) Grout	! Bentonite Pellets				
					Sand Slurry	! ==	nular Bentonite				
	Was Well Annular Space Grouted?	☐ Yes ☐ No ☐ Unknown					,	Bentonite - Cement Grout			
	If Yes, To What Depth?	Feet		Chip	ped Bentonite	<b>;</b>	i —				
<u>(7)</u>	Sealing Mater	ial Head	From (	Ţ., \	To (FL)	No. Yards, Sacks Sealan	Mix R	atio or Mud Weight			
	0.411.5		110111		10 (1 11)	or Volume					
			Surfa	ce							
				$\dashv$							
								_			
		<del></del>	<del> </del>								
				-							
(8)	Comments:										
(9)	Name of Person or Firm Doing Seal	ling Work		(10)				USE ONLY			
	MSA Professiona	L Services Inc		Date F	Received/Insp	ected	Distr	ict/County			
_	Signature of Person Doing Work	Date Signed 4-5-99	H	Revie	wer/Inspector		<u> </u>				
•	Street or Route	Telephone Number		·	_,,						
18	335 N. Stevens St.	(715)362-3244		Follo	w-up Necessa	ıry					
	City, State, Zip Code										
	Knieldlaumille 11	, netan ,					_				