

RECEIVED DNR SPOONER Phone: 715.234.7008 Fax: 715.234.1025

e-mail: info@cooperengineering.net

An Employee Owned Company

'03 AUG 13 AM 10 50

310 West South Street, P.O. Box 230 Rice Lake, WI 54868-0230

August 12, 2003

Mr. Jamie Dunn Wisconsin DNR 810 West Maple Street Spooner, WI 54801

Re: Monitoring and Well Abandonment Washburn County Fairgrounds Purchase Order #NKD00000055

haran J. March

Dear Jamie:

Enclosed are abandonment forms for the monitoring wells that were removed on July 8, 2003. We have attached available construction forms also. The enclosed invoice is the only one you will receive for this project. Copies of outside invoices for laboratory analysis and environmental driller costs are included. Please feel free to call if you have any questions or require additional information.

Sincerely,

Sharon J. Masek, P.G., P.H.

Project Manager

ho G:\2003-proj\03373003\Dunn 030812.doc

Enclosure

Chippewa Falls, Wl 54729

State of Wisconsin Department of Natural Resources 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.						NDONMENT Rev. 12-91	
(1) GENERAL INFORMATION	o, see instructions on back.	(2)	FΔCI	LITY NAM	F	<u>"</u>	
Well/Drillhole/Borehole Location	County	(2)		l Well Owner			
Washburn County Fairgrounds	Washburn		Rawn	Co., Inc.			
to the state of th	E			Well Owner			
SE 1/4 of SW 1/4 of Sec.	31 ; T. <u>39</u> N; R. <u>12</u> 🛛 W		Wash	burn County	у		
(If Applicable)			Street	or Route		· · · · · · · · · · · · · · · · · · ·	
Gov't Lot	Grid Number		South	River Stree	et (STH 63)		
Grid Location			City, S	tate, Zip Code			
ft. N. S.	ft. □ E. □ W.		Spoor	ner, Wiscon	sin 54801		
Civil Town Name			Facilit	y Well No. and	l/ or Name (If A _l	plicable)	WI Unique Well No.
Spooner			AP-1				_
Street Address of Well			Reason	for Abandonr	nent		
Washburn County Fairgrounds							
City, Village			Date o	f Abandonmen	t		
Spooner, Wisconsin			7-8-0	3			
WELL/DRILLHOLE/BOREHO	LE INFORMATION	l	***				
(3) Original Well/Drillhole/Borehole Constr	uction Completed On	(4)	Depth	to Water (Feel	21.5		
(Date)			Pump	& Piping Rem	oved?	es No 🛛	N/A
	······································		Liner(s) Removed?		es 🗌 No 🏻	
Monitoring Well	Construction Report Available?		Screen	Removed?		es 🛛 No 🗌	
Water Well	Yes 💹 No		Casing	Left in Place	? 🛛 Y	es No	N/A
Drillhole			If No,	Explain			
Borehole			XXI		D. 1. G. 6. 6.	[X] ₁₇ [7,,
					Below Surface?		_ No
Drilled Driven (Sandpoint) Dug	Did Sealing Material Rise to Surface? Yes No Did Material Settle After 24 Hours? Yes No					
☐ Driven (Sandpoint) ☐ Dug ☐ Other (Specify)				Yes, Was Hol		Yes [
Formation Type:		(5)	Requi	red Method of	Placing Sealing	Material	
☐ Unconsolidated Formation ☐ Bedrock			⊠c	onductor Pipe	- Gravity 🔲 C	Conductor Pipe	- Pumped
	2.0						
Total Well Depth (ft.) 50.0 (From Groundsurface)	Casing Diameter (in.) 2"	Dump Bailer Other (Explain)					
(From Orbuidsurface)		(6) Sealing Materials For monitoring wells and					oring wells and
			П.,			monitoring	g well boreholes only
Casing Depth (ft.) 50.0				eat Cement Gr	out Concrete) Grout	☐ Banta	nite Pellets
Casing Deput (11.)			_	oncrete	Concrete) Grout	1 —	ilar Bentonite
Was Well Annular Space Grouted?	Yes No Unknown			lay - Sand Slu	ary.		nite - Cement Grout
			□в	entonite - Sand	1 Slurry		
If Yes, To What Depth?	Feet	1	⊠ c	hipped Benton	ite	•	
(7)					Number o	f	Mix Ratio or
Scaling Mater	ial Used	From	(Ft.)	To (Ft.)	☐ Yards 🛛 S		Mud Weight
Native Soil Patch		Surface 0.5					
3/8 inch Bentonite Chips		0.5 50.0 1.5					
<u> </u>							
		<u> </u>					
(8) Comments:					D 0D 007=	TTT T T T T T T T T T T T T T T T T T	
Name of Person or Firm Doing Sealing	Work		(10)	FOR DI	TR OR COUN	TTY USE OF	NLY
Midwest Engineering Services,	lnc.		Date	Received/Insp	ected	District/C	County
Signature of Person Doing Work	Date Signed						
(Jak Mund	7-23.03		Revie	wer/Inspector		Com	plying Work
Street or Route	Telephone Number	1	Ī	-			complying Work
1692 State Highway, Suite 2	(715) 830-0770		Follo	w-up Necessar	v		
City, State, Zip Code	V J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-	1 3110	up raccosar	,		
ong, butto, sup cont		1				L	

	State of Wisconsin Department of Natural Resources pandonment work shall be performed n. Code, whichever is applicable. Al-	in accordance with the provisions of Chapte so, see instructions on back	rs NR 11		Similar to	LHOLE/BORE Form 3300-5B 1, Wis.	EHOLE ABA	NDONMENT Rev. 12-91
	GENERAL INFORMATION	30, 300 morraotions on ador.	(2)	FAC	LITY NAN	IE		
`	Well/Drillhole/Borehole Location	County			al Well Owner			
	Washburn County Fairgrounds	Washburn	<u> </u>	Rawr	Co., Inc.			
		E		Presen	t Well Owner			
	SE 1/4 of SW 1.4 of Sec.	31 ; T. 39 N; R. 12 🛛 W			ıburn Count	у		
	(If Applicable)				or Route			
	Gov't Lot	Grid Number	<u> </u>	South	River Stre	et (STH 63)		
	Grid Location			City, S	State, Zip Code	•		
	n. N. S.	ft. E. W.			ner, Wiscon			
	Civil Town Name				y Well No. an	d/ or Name (If Ap	plicable)	WI Unique Well No.
	Spooner		<u> </u>	AP-4				
	Street Address of Well			Reason	n for Abandom	nent		
	Washburn County Fairgrounds City, Village		<u> </u>	Data	f Abandonmer			
		•		7-8-0		ıt		
	Spooner, Wisconsin			7-8-0	3			
-	WELL/DRILLHOLE/BOREHO		1	T	. 177	. 00.0		
(3)	Original Well/Drillhole/Borehole Const	ruction Completed On	(4)		to Water (Fee			
	(Date)				& Piping Rem		es No 🛭	
	Monitoring Well	Construction Report Available?		,	s) Removed? n Removed?		es 🗌 No 🏻 es 🕅 No 🗀	
	Water Well	Yes No	1		g Left in Place		es No	
	Drillhole				Explain	_		•
	Borehole							
						Below Surface?	Yes	No
	Drilled Driven	(Sandpoint) Dug			•	l Rise to Surface? After 24 Hours?	Yes	
	Other (Specify)	(Sandpoint) Dug	1		Yes, Was Ho		Yes	
	Formation Type:		(5)	Requi	red Method of	Placing Sealing I	Material	
	Unconsolidated Formation	Bedrock		\boxtimes c	onductor Pipe	- Gravity 🔲 C	onductor Pipe	- Pumped
	Total Well Depth (ft.) 50.0	Casing Diameter (in.) 2"			ump Bailer		Other (Ex	ulain)
	(From Groundsurface)	Casting Diameter (iii.)			amp Danci		Other (Ex	prant)
			(6)	Sealir	g Materials			oring wells and
				ПΝ	eat Cement G	out	monitorin	g well boreholes only
	Casing Depth (ft.) 5().()			=		Concrete) Grout	Bente	onite Pellets
					oncrete		Gran	ular Bentonite
	Was Well Annular Space Grouted?	Yes No Unknown			lay - Sand Slu		Bento	onite - Cement Grout
	KV T- What Dad 0	F4			entonite - San hipped Bentor		1	
	If Yes, To What Depth?	Feet	_		mpped Bentor	**	·····	
(7)	C. E. M.	.:	From	ı (Ft.)	T- (E()	Number of ☐ Yards 🏿 Sa		Mix Ratio or Mud Weight
	Native Soil Patch	Hai Osea	Sur		To (Ft.)	☐ Talus ☑ Sa	icks 🔲 voi.	Mud Weight
			0.5	iacc		1.5		
	3/8 inch Bentonite Chips		0.5		50.0	1.3		
			_					
(8)	Comments:							
	Name of Person or Firm Doing Scaling	Work		(10)	FOR Di	VR OR COUN	TY USE O	NLY
	Midwest Engineering Services,			Date	Received/Insp	ected	District/0	County
_	Signature of Person Doing Work	Date Signed	1					
	(X th. ()	7-23-03		Revi	ewer/Inspector		Псот	plying Work
	Street or Route	Telephone Number	-	1,000	vii Hapeettii		_	complying Work
		(715) 830-0770		77. 0	37		L Non	complying work
	1692 State Highway, Suite 2	(113) 030-0770	4	rono	w-up Necessar	y		
	City, State, Zip Code			L				
	Chippewa Falls, WI 54729		- 1					

State of Wisconsin

Department of Natural Resources
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.

Admin. Code, whichever is applicable. Also, see instructions on back.							
(1) GENERAL INFORMATION	_ ` ,		ITY NAM				
Well/Drillhole/Borehole Location County		_	Well Owner	(If Known)			
Washburn County Fairgrounds Washburn		Rawn C					
E			Vell Owner				
SE 1/4 of SW 1/4 of Sec. 31; T. 39 N; R. 12 🛛 W			ırn County				
(If Applicable)		Street or					
Gov't Lot Grid Number		South R	River Stree	t (STH 63)			
Grid Location		City, Stat	te, Zip Code				
		• .	r, Wiscons				
Civil Town Name				or Name (If Ap	oplicable)	WI Unique Well No.	
Spooner		B9-A			r/		
Street Address of Well			or Abandonn	ient		<u>I</u>	
Washburn County Fairgrounds							
City, Village		Date of A	Abandonment				
Spooner, Wisconsin	l	7-8-03					
WELL/DRILLHOLE/BOREHOLE INFORMATION	<u> </u>	***************************************					
(3) Original Well/Drillhole/Borehole Construction Completed On	(4)	Denth to	Water (Feet)	\			
•	(4)	_				1574	
(Date) 10-20-86			Piping Remo Removed?		es No 🛭 es No 🔯		
Monitoring Well Construction Report Available?			Kemoved? temoved?		es No C		
Water Well			eft in Place?		es No		
Drillhole		If No, Ex				- '	
Borehole	ĺ	•					
			-	Below Surface?	Yes [
			U	Rise to Surface			
Drilled Driven (Sandpoint) Dug				After 24 Hours?	Yes		
Other (Specify)		н Ү	es, Was Hole	: Ketopped?	Yes	I/0	
Formation Type:	(5)	Required	Method of	Placing Sealing	Material		
M. Haramari State of France (See Section 1987)		Conductor Pipe - Gravity Conductor Pipe - Pumped					
☐ Unconsolidated Formation ☐ Bedrock		KZI Con	auctor Pipe -	· Gravity 🔲 C	onductor Pipe	- Lambea	
Total Well Depth (ft.) 75.0 Casing Diameter (in.) 2"		Dun	np Bailer		Other (Ex	plain)	
(From Groundsurface)	(6)	Casti			F	oring wells and	
	(0)	Searing 1	waterials			g well boreholes only	
		Neat	t Cement Gro	out	1_		
Casing Depth (ft.) 75.0		$\overline{}$		Concrete) Grout		onite Pellets	
		Concrete Granular Bent					
Was Well Annular Space Grouted? Yes No Unknown			y - Sand Slur tonite - Sand		Bento	onite - Cement Grout	
If Yes, To What Depth?			tonite - Sand pped Bentoni		1		
			- Por Doutolli				
(7) Scaling Material Used	From	(Et.)	To (Ft.)	Number o □ Yards 🛛 S		Mix Ratio or Mud Weight	
Native Soil Patch	Surfa		0.5	Tarns M 9	U YUI.	1VIGG TY CIGHT	
	 	-		<u> </u>			
3/8 inch Bentonite Chips	0.5		75.0	2			
	<u> </u>						
	<u> </u>						
(8) Comments:							
Name of Person or Firm Doing Sealing Work		(10)	FOR DN	R OR COUN	TY USE O	NLY	
Midwest Engineering Services, Inc.	 	Date Re	ceived/Inspe	cted	District/(County	
Signatury of Person Doing Work Date Signed	1	1-				·	
	 	Davis	er/Inspector		Пс	plying Work	
7-23-03	1 1	Keview	or/mspector		_		
Street or Route Telephone Number	1 -				∐ None	complying Work	
1692 State Highway, Suite 2 (715) 830-0770	<u> </u>	Follow-	up Necessary	′			
City, State, Zip Code	L						
Chippewa Falls, WI 54729							

State of Wisconsin Department of Natural Resources Il abandonment work shall be performed Idmin. Code, whichever is applicable. A	d in accordance with the provisions of Chap	ters NR 1		Similar to	Form 3300-5B	EHOLE ABA	ANDONMENT Rev. 12-91	
1) GENERAL INFORMATION		(2)	FAC	LITY NAM	ΙE			
Well/Drillhole/Borchole Location	County			ıl Well Owner				
Washburn County Fairgrounds	Washburn		Rawn	Co., Inc.				
	☐ E			Well Owner				
SE 1/4 of SW 1/4 of Sec.	_			burn Count	v			
SE 1/4 of SW 1/4 of Sec. (If Applicable)		_		or Route	,			
Gov't Lot	Grid Numbe		South	River Stree	et (STH 63)			
Grid Location				tate, Zip Code				
			-	•				
	s ft.			ner, Wiscon				
Civil Town Name				y Well No. an	d/ or Name (If A	pplicable)	WI Unique Well No.	
Spooner			ED-1					
Street Address of Well			Reason	for Abandon	nent			
Washburn County Fairgrounds								
City, Village			Date o	f Abandonmer	nt			
Spooner, Wisconsin			7-8-0	3				
WELL/DRILLHOLE/BOREH	IOLE INFORMATION				**	-		
(3) Original Well/Drillhole/Borehole Con		(4)	Denth	to Water (Fee	21.5			
1.000	эм сомражи он	(.,	_			 Yes	71 27/4	
(Date) 11-8-88			_	& Piping Rem s) Removed?		res No 2		
Monitoring Well	Construction Report Available?		•	Removed?		Yes No [
Water Well	Yes No			Left in Place		res No [
Drillhole	103 (110			Explain	. 23	.03110	_ 14/12	
Borehole			111.0,	2.q/iiiii				
			Was C	asing Cut Off	Below Surface?	X Yes	No	
					l Rise to Surface			
Drilled Driver	☐ Driven (Sandpoint) ☐ Dug				After 24 Hours?		N₀	
Other (Specify)	Other (Specify)		If	Yes, Was Ho	e Retopped?	Yes	☐ No	
Formation Type:			Domi	rad Mathad of	Dissing Sealing	Material		
Formation Type:			(5) Required Method of Placing Sealing Material					
Unconsolidated Formation	✓ Unconsolidated Formation ☐ Bedrock		Conductor Pipe - Gravity Conductor Pipe - Pumped					
Total Well Depth (ft.) 26.5	Casing Diameter (in.) 2"	.	\Box D	ump Bailer		Other (E	oplain)	
(From Groundsurface)		(0)	a +	7		г.		
		(6)	Seann	g Materials			toring wells and ng well boreholes only	
			□N	eat Cement G	out	1	ing west boromores only	
Casing Depth (ft.) 26.5			☐ sa	ınd - Cement (Concrete) Grout	Bent	onite Pellets	
			ОС	oncrete		Gran	ular Bentonite	
Was Well Annular Space Grouted?	Yes No Unknown			lay - Sand Slu		Bent	tonite - Cement Grout	
				entonite - San				
If Yes, To What Depth?	Feet		X C	hipped Bentor	nite			
(7)					Number o	of	Mix Ratio or	
Scaling Ma	terial Used	Fror	ı (Ft.)	To (Ft.)	☐ Yards 🛛 S		Mud Weight	
Native Soil Patch		Sur	face	0.5				
3/8 inch Bentonite Chips		0.5		26.5	1			
oro men ponemine emp.		-		20.5				
							1	
(8) Comments:				L	<u> </u>			
Name of Person or Firm Doing Scalin	w Work		(10)	FOR D	NR OR COU	ALA TISE C	NT.Y	
•	-					r		
Midwest Engineering Services			Date	Received/Insp	ected	District/	County	
Signature of Person Doing Work	Date Signed	1						
(BEXTURNE)	7-23-03	J	Revie	wer/Inspector		Cor	nplying Work	
Street or Reute	Telephone Number					I —	complying Work	
			F 11	NI		<u> </u>	ry	
1602 State Highway Suits 2	1 (715) 8300770	Follow-up Necessary						
1692 State Highway, Suite 2 City, State, Zip Code	(715) 830-0770		Folio	w-up Necessai	У			

eder associates consulting engineers, p.c.

ALL DEPTHS MEASURED

	FROM GROUND SURFACE	MONITORING WELL CONSTRUCTION INFORMATION
alev. 1081.37	•	JOB No. 559-1 CLIENT RAWN COMPANY
5LEV. 1081.36	→	LOCATION Spooner, WI (fairgrounds)
		DATE 11/8/88 WELL No. ED-1
ELEV. 1078.75		HYDROGEOLOGIST Clair Ruenger
**********	(8)	DRILLING CONTRACTOR Wisconsin Test Drilling
(6)		1.) SCREEN TYPE 'PVC (Schedule 40)
J		SLOTTED LENGTH 10 ft.
	2	SLOT SIZE 0.010 in.
		2.) SOLID PIPE TYPE PVC (Schedule 40)
		SOLID PIPE LENGTH 18.8 ft.
		PIPE & SCREEN DIA. 2 in.
		JOINT TYPE - SLIP/GLUED THREADED X
		3.) TYPE OF BACKFILL AROUND SCREEN
	5	Flint Sand
		4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch)
		5,) TYPE OF BACKFILL Bentonite/Cement Grout
		HOW INSTALLED Tremie Plpe
рерти 12.2		6.) TYPE OF SURFACE SEAL (IF INSTALLED)
оертн 14.2		7.) PROTECTIVE CASING - YES X NO NO
	1:::	LOCKING CAP YES X NO
		8.) CONCRETE SEAL - YES X NO
	1	9.) DRILLING METHOD Hollow Stem Auger
	3	10.) ADDITIVES USED (IF ANY)
рертн 26.2		
		11.) TYPE OF BACKFILL Natural WATER LEVEL CHECKS *
рерти 26.5		

* FROM TOP OF WELL CASING

State of Wisconsin

Department of Natural Resources

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/Borchole Location County	Original Well Owner (If Known)
Washburn County Fairgrounds Washburn	Rawn Co., Inc.
E	Present Well Owner
SE 1/4 of SW 1.4 of Sec. 31; T. 39 N; R. 12 W	Washburn County
(If Applicable)	Street or Route
Gov't Lot Grid Number	South River Street (STH 63)
Grid Location	City, State, Zip Code
ft. N. S. ft. E. W.	Spooner, Wisconsin 54801
Civil Town Name	Facility Well No. and/ or Name (If Applicable) WI Unique Well No.
	1
Spooner Street Address of Well	ED-1A Reason for Abandonment
	Reason tof Apautionintent
Washburn County Fairgrounds City, Village	Date of Abandonment
Spooner, Wisconsin	7-8-03
-	7-0-03
WELL/DRILLHOLE/BOREHOLE INFORMATION	
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 21.0
(Date) 11-8-88	Pump & Piping Removed? Yes No N/A
M	Liner(s) Removed?
Monitoring Well Construction Report Available?	Screen Removed? Yes No N/A Casing Left in Place? Yes No N/A
☐ Water Well ☐ Yes ☐ No ☐ Drillhole	Casing Left in Place? Yes No N/A If No, Explain
Borehole	II IV, EAPIGII
	Was Casing Cut Off Below Surface? Yes No
	Did Scaling Material Rise to Surface? Yes No
☐ 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
romation 1 ype:	(3) Required Method of Flacing Searing Material
☐ Bedrock	Conductor Pipe - Gravity Conductor Pipe - Pumped
T (W D	
Total Well Depth (ft.) 75.3 Casing Diameter (in.) 2" (From Groundsurface)	Dump Bailer Other (Explain)
(x total otomicon need)	(6) Sealing Materials For monitoring wells and
	monitoring well boreholes only Neat Cement Grout
Casing Depth (ft.) 75.3	Sand - Cement (Concrete) Grout Bentonite Pellets
Casing Depth (i.i.)	Concrete Granular Bentonite
Was Well Annular Space Grouted? Yes No Unknown	Clay - Sand Slurry Bentonite - Cement Grout
	Bentonite - Sand Slurry
If Yes, To What Depth?	Chipped Bentonite
(7)	Number of Mix Ratio or
Scaling Material Used	From (Ft.) To (Ft.)
Native Soil Patch	Surface 0.5
3/8 inch Bentonite Chips	0.5 75.3 2.5
(8) Comments:	
Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
Midwest Engineering Services, Inc.	Date Received/Inspected District/County
Signature of Person Doing Work Date Signed	7
1-23-63	Reviewer/Inspector Complying Work
Street or Route Telephone Number	Noncomplying Work
•	
1692 State Highway, Suite 2 (715) 830-0770	Follow-up Necessary
City, State, Zip Code	
Chippewa Falls, WI 54729	

	ALL DEPTHS MEASURED FROM GROUND SURFACE	eder associates consulting engineers, p.c.
ELEV. 1081.18	THOM GROUND JOIN NOL	MONITORING WELL CONSTRUCTION INFORMATION
FLEV. 1081.16	(7)	JOB No. 559-1 CLIENT RAWN COMPANY
		LOCATION Spooner, Wisconsin (fairgrounds)
ELEV. 1078.85		DATE 11/8/88 WELL No. ED-1A
- 1212(2 8 8)		HYDROGEOLOGIST Clair Ruenger
×.	-8	DRILLING CONTRACTOR Wisconsin Test Drilling
6		1.) SCREEN TYPE 'PVC (Schedule 40)
		SLOTTED LENGTH 5 ft.
	2	SLOT SIZE .010 in.
		2.) SOLID PIPE TYPE PVC (Schedule 40)
		SOLID PIPE LENGTH 72.6 ft.
		PIPE & SCREEN DIA. 2 in.
		JOINT TYPE - SLIP/GLUEDTHREADED_X
		3.) TYPE OF BACKFILL AROUND SCREEN
	(5)	Flint Sand
		4.) TYPE OF LOWER SEAL (IF INSTALLED)
		5.) TYPE OF BACKFILL Bentonite/Cement Grout
		HOW INSTALLED Tremie Pipe
DEPTH		6.) TYPE OF SURFACE SEAL (IF INSTALLED)
реетн 59.3	4	7.) PROTECTIVE CASING - YES X NO
		LOCKING CAP YES X NO
		B.) CONCRETE SEAL - YES X NO
		9.) DRILLING METHOD Mud Rotary
		ory branches we may be a second of the secon
	3	10.) ADDITIVES USED (IF ANY) Quik-gel
рертн 75.3		N. A
		11.) TYPE OF BACKFILL Natural WATER LEVEL CHECKS *
рертн <u> 76.5</u>	DATE DATE	
A. 1. C.		
PIEZOMETER		
	. <u>{</u> * FI	ROM TOP OF WELL CASING

State of Wisconsin Department of Natural Resources All abandonment work shall be performed in accordance with the provisions of Chapters Admin. Code, whichever is applicable. Also, see instructions on back.	s NR 1′		Similar to	LHOLE/BOR Form 3300-5B 1, Wis.	EHOLE ABA	NDONMENT Rev. 12-91
(1) GENERAL INFORMATION	(2)	FAC	LITY NAM	E		
Well/Drillhole/Borehole Location County		Origin	ıl Well Owner	(If Known)		
Washburn County Fairgrounds Washburn		Rawn	Co., Inc.			
□ E			Well Owner			
SE 1/4 of SW 1.4 of Sec. 31; T. 39 N; R. 12 W	ļ		burn Count	y		
(If Applicable)				+ (CTU 62)		
Gov't Lot Grid Number				et (STH 63)		
Grid Location		•	tate, Zip Code			
ft.	 		ner, Wiscon		1:1:1->	WELL ! WALLEN
		ED-2	y wen no. an	d/ or Name (If Ap	эрисаоте)	WI Unique Well No.
Spooner Street Address of Well	 		for Abandon	nent		
Washburn County Fairgrounds		rcusor	TOT AUMIGOR	HOIL		
City, Village		Date o	f Abandonmer	ıt		
Spooner, Wisconsin		7-8-0				
WELL/DRILLHOLE/BOREHOLE INFORMATION						
(3) Original Well/Drillhole/Borehole Construction Completed On	(4)	Depth	to Water (Fee	t) 23.7		
(Date) 11-9-88	l	-	& Piping Rem		es No 🗵	N/A
		-	s) Removed?		es No 🗵	
Monitoring Well Construction Report Available?		Screen	Removed?		es 🛛 No 🗌	
☐ Water Well ☐ Yes ☐ No		-	Left in Place	? 🛚 🔀 Y	es No	N/A
☐ Drillhole ☐ Borehole		If No,	Explain			
Boleliole		Was C	asing Cut Off	Below Surface?	X Yes	No
	1		~	l Rise to Surface		
Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours?					
Other (Specify)		If	Yes, Was Hol	e Retopped?	Yes	No
Formation Type:	(5)	Requi	red Method of	Placing Sealing	Material	
□ Unconsolidated Formation □ Bedrock		Мс	onductor Pine	- Gravity 🔲 C	lonductor Pine	- Pumned
			•	o,	_	•
Total Well Depth (ft.) 27.2 Casing Diameter (in.) 2" (From Groundsurface)			ump Bailer		Other (Ex	plain)
(,	(6)	Sealin	g Materials			oring wells and
		\square_N	eat Cement Gr	rout	monitorin	g well boreholes only
Casing Depth (ft.) 27.2		=		Concrete) Grout	Bento	onite Pellets
	Concrete		· ·	Granular Bentonite		
Was Well Annular Space Grouted? Yes No Unknown			lay - Sand Slu		Bente	onite - Cement Grout
TOWN TO WILLIAM TO A STATE OF THE STATE OF T	1	∐ B	entonite - San hipped Bentor	d Slurry	l	
If Yes, To What Depth? Feet			mppea Bentor	nite		
(7) Scaling Material Used	From	ı (Ft.)	To (Ft.)	Number o ☐ Yards 🛛 S		Mix Ratio or Mud Weight
Native Soil Patch	Sur		0.5	L Tarus 23 0	acks voi.	Widd Wolgin
3/8 inch Bentonite Chips	0.5		27.2	1		
sto then bentome emps	10.5		21.2	1		
	-			<u> </u>		
				<u></u>		
(8) Comments:						
Name of Person or Firm Doing Scaling Work		(10)	FOR Di	VR OR COUN	TY USE O	NLY
Midwest Engineering Services, Inc.		Date	Received/Insp	ected	District/0	County
Signature of Person Pointy Work Date Signed	1					
7-23-03		Revie	wer/Inspector		Com	plying Work
Street or Route Telephone Number	1		•		_	complying Work
1692 State Highway, Suite 2 (715) 830-0770		Follo	w-up Necessar	-v		F-18 v***
City, State, Zip Code	-	1.0110	up raccosar	J		

FROM GROUND SURFACE MONITORING WELL CONSTRUCTION INFORMA JOB No. 559-1 CLIENT RAWN COMPAN LOCATION Spooner, Wisconsin (fairgroup DATE 11/9/88 WELL No. ED-2 HYDROGEOLOGIST Cleir Ruenger DRILLING CONTRACTOR Wisconsin Test Dri 1.) SCREEN TYPE PVC (Schedule 40) SLOTTED LENGTH 10 SLOT SIZE 0.010 2.) SOLID PIPE TYPE PVC (Schedule 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN — Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 1.) PROTECTIVE CASING - YES X NO 1.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY)	ers, p.c.
LOCATION Specier, Wisconsin (fairgrout DATE11/9/88	
DATE 11/9/88 WELL NO, ED-2 HYDROGEOLOGIST Clair Ruenger DRILLING CONTRACTOR Wisconsin Test Dri 1.) SCREEN TYPE PVC (Schedule 40) SLOTTED LENGTH 10 SLOT SIZE 0.010 2.) SOLID PIPE TYPE PVC (Schedule 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 9.) DRILLING METHOD HOLLOW Stem Auger 10.) ADDITIVES USED (IF ANY)	
BEEV 1079,65 (B) DRILLING CONTRACTOR Wisconsin Tast Driver PVC (Schedule 40) SLOTTED LENGTH 10 SLOT SIZE 0.010 2.) SOLID PIPE TYPE PVC (Schedule 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4 7.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 9.) DRILLING METHOD HOLIOW Stem Auger	
B DRILLING CONTRACTOR Wisconsin Test Dri 1.) SCREEN TYPE PVC (Schedule 40) SLOTTED LENGTH 10 SLOT SIZE 9.010 2.) SOLID PIPE TYPE PVC (Schedule 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tromie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 9.) DRILLING METHOD HOLIOW Stom Auger	
1.) SCREEN TYPE PVC (Schedule 40) SLOTTED LENGTH 10 SLOT SIZE 0.010 2.) SOLID PIPE TYPE PVC (Schedule 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL - YES X NO 9.) DRILLING METHOD HOLLOW Stem Auger	
SLOTTED LENGTH 10 SLOT SIZE 0.010 2.) SOLID PIPE TYPE PVC (Schedule 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL - YES X NO 9.) DRILLING METHOD HOLLOW Stem Auger	·
SLOT SIZE	ft.
2.) SOLID PIPE TYPE PVC (Schedula 40) SOLID PIPE LENGTH 19.3 PIPE & SCREEN DIA. 2 JOINT TYPE — SLIP/GLUED THREAD 3.) TYPE OF BACKFILL AROUND SCREEN — Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4. 7.) PROTECTIVE CASING — YES X NO — LOCKING CAP YES X NO — 1. CONCRETE SEAL — YES X NO — 9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY).—	
SOLID PIPE LENGTH	
DEPTH 15.1 PIPE & SCREEN DIA. 2 JOINT TYPE - SLIP/GLUEDTHREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING - YES _X NO LOCKING CAP YES _X NO 8.) CONCRETE SEAL - YES _X NO 9.) DRILLING METHODHOLIOW Stem Auger 10.) ADDITIVES USED (IF ANY)	ft.
JOINT TYPE — SLIP/GLUEDTHREAD 3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING — YES _X _ NO LOCKING CAPYES _X NO 9.) DRILLING METHODHOLLOW Stem Auger 10.) ADDITIVES USED (IF ANY)	
3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING — YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL — YES X NO 9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY)	
Flint Sand 4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING — YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL — YES X NO 9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY)	
4.) TYPE OF LOWER SEAL (IF INSTALLED) Bentonite Pellets (1/4 inch) 5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING — YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL — YES X NO 9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY)	
5.) TYPE OF BACKFILL Bentonite/Cement G HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL - YES X NO 9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY).	
HOW INSTALLED Tremie Pipe 6.) TYPE OF SURFACE SEAL (IF INSTALLED) 7.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO 8.) CONCRETE SEAL - YES X NO 9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY)	court
6.) TYPE OF SURFACE SEAL (IF INSTALLED) DEPTH 15.1 4 7.) PROTECTIVE CASING - YES X NO LOCKING CAP YES X NO SOLUTION STEM AUGER 9.) DRILLING METHOD HOLLOW STEM AUGER 10.) ADDITIVES USED (IF ANY).	
LOCKING CAP YES X NO	
LOCKING CAP YES X NO	
8.) CONCRETE SEAL — YES X NO	
9.) DRILLING METHOD Hollow Stem Auger 10.) ADDITIVES USED (IF ANY).	
3 10.) ADDITIVES USED (IF ANY)	
DEPTH 27.1	
11.) TYPE OF BACKFILL Natural WATER LEVEL CHECKS *	
DEPTH 27.1 DATE TIME DEPTH TO WATER REMARKS	
* FROM TOP OF WELL CASING	

State of Wisconsin

Department of Natural Resources

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)	FAC	LITY NAM	IE		
Well/Drillhole/Borehole Location	County		Origin	al Well Owner	(If Known)		
Washburn County Fairgrounds	Washburn		Rawn	Co., Inc.			
	☐ E			t Well Owner			
SE 1/4 of SW 1 4 of Sec. (If Applicable)	31; T. <u>39</u> _ N; R. <u>12</u> _ 🛛 W			burn Count	у		
	Grid Number	ĺ		or Route	+ (CTL 62)		
Gov't Lot	Grid Number	<u> </u>		River Stree			
Grid Location			•	tate, Zip Code			
ft. N. S.	ft.	 		ner, Wiscon	SIN 34801 d/ or Name (If Ap	-ulicable)	WILLIAM WALLNA
		1	ED-2	-	n oi name (n Aț	opiicable)	WI Unique Well No.
Spooner Street Address of Well		ļ		r 1 for Abandoni	nent		
Washburn County Fairgrounds							
City, Village			Date o	f Abandonmer	nt	····	
Spooner, Wisconsin			7-8-0	3			
WELL/DRILLHOLE/BOREHO	LE INFORMATION	.1					
(3) Original Well/Drillhole/Borehole Constru	iction Completed On	(4)	Depth	to Water (Feet	i) <u>22.0</u>		
(Date) 11-1()-88			Pump	& Piping Rem	oved? Y	es No 🛭	N/A
			,	s) Removed?		es 🔲 No 🏻	
Monitoring Well	Construction Report Available?			Removed?		es No	
Water Well Drillhole	🔀 Yes 🗌 No			g Left in Place' Explain	/ WY	es No	N/A
Borehole			n No,	Бартан			
_			Was C	asing Cut Off	Below Surface?	X Yes	
7				· ·	Rise to Surface		
Drilled Driven (S Other (Specify)	andpoint) Dug			laterial Settle . 'Yes, Was Hol	After 24 Hours?	☐ Yes [☐ Yes [
				i es, was rioi	e Ketopped?		
Formation Type:		(5)	Requi	red Method of	Placing Sealing	Material	
☐ Unconsolidated Formation	Bedrock		⊠ c	onductor Pipe	- Gravity 🔲 C	Conductor Pipe	- Pumped
	_	1		_	,	_	-
Total Well Depth (ft.) 7(1.1) (From Groundsurface)	Casing Diameter (in.) 2"		∐D	ump Bailer		Other (Exp	olain)
(x rom Groundournes)		(6)	Sealin	g Materials			oring wells and
			Пм	eat Cement Gr	rout	monitorin	g well boreholes only
Casing Depth (ft.) 76.0		1			Concrete) Grout	Bento	nite Pellets
				oncrete	,	1 —	ılar Bentonite
Was Well Annular Space Grouted?	Yes No Unknown						nite - Cement Grout
ICV T WI (D d)				entonite - Sand hipped Benton			
If Yes, To What Depth?	Feet		Z Z J C	трреа Бенкоп			
(7) Scaling Materi	al Used	From	(Et.)	To (Ft.)	Number o ☐ Yards 🏻 S		Mix Ratio or Mud Weight
Native Soil Patch	iii Osed	Surf		0.5	L Talus Ex C	acks 🔲 voi.	Ivida Weight
3/8 inch Bentonite Chips		0.5		76.0	2.5		
S. o Mon Bellome Sill A.		10.5		7,7,7	2.5		
		+					
(0) (3							
(8) Comments:		1	1	EOD DI	TD OD COVE	WW. 110E 0	77.77
Name of Person or Firm Doing Scaling V			(10)		IR OR COUN		
Midwest Engineering Services, In		4	Date	Received/Insp	ected	District/C	County
Signature of Person Daing Work	Date Signed						
Je Mund	7-23-03	4	Revie	wer/Inspector		Com	plying Work
	Telephone Number		<u> </u>			None	omplying Work
1692 State Highway, Suite 2	(715) 830-0770		Follo	w-up Necessar	у		1
City, State, Zip Code		1					
Chippewa Falls, WI 54729		1					

	ALL DEPTHS MEASURED FROM GROUND SURFACE	MONITORING WELL CONCERNS CONSTITUTE OF THE CONCERNS CONCERNS OF THE CONCERNS CONCERNS CONCERNS OF THE CONCERNS CONCERNS OF THE
ELEV. 1081.90	FROM GROUND SURFACE	MONITORING WELL CONSTRUCTION INFORMATION
ELEV. 1081.83		JOB No. 559-1 CLIENT RAWN COMPANY
HEV. TUBL. 63	9	LOCATION Spooner, Wisconsin (fairgrounds)
1070 50 4		DATE 11/10/88 WELL No. ED-2A
ELEV. 1079.50		HYDROGEOLOGIST Clair Ruenger
	B	DRILLING CONTRACTOR Wisconsin Test Drilling
6——		1.) SCREEN TYPE PVC (Schedule 40)
		SLOTTED LENGTH5ft.
	2	SLOT SIZE 0.010
		2,) SOLID PIPE TYPE PVC (Schedule 40)
		SOLID PIPE LENGTH 73.3 H.
		PIPE & SCREEN DIA. 2 in.
		JOINT TYPE - SLIP/GLUEDTHREADED_X
		3.) TYPE OF BACKFILL AROUND SCREEN
	(5)	Natural and Flint Sand
		4.) TYPE OF LOWER SEAL (IF INSTALLED)
		5.) TYPE OF BACKFILL Bentonite/Cement Grout
		HOW INSTALLED Tremie Pipe
реетн		6.) TYPE OF SURFACE SEAL (IF INSTALLED)
регтн 62	4	7.) PROTECTIVE CASING - YES X NO
		LOCKING CAP YES X NO
		8.) CONCRETE SEAL - YES X NO
		9.) DRILLING METHOD Mud Rotary
76.0	3	10.) ADDITIVES USED (IF ANY) Oulk-gel
регун 76.0		44) TYPE OF BACKER! Notice!
		11.) TYPE OF BACKFILL Natural WATER LEVEL CHECKS *
рарти 76.0		
DEF 14 70:0		
PIEZOMETER		
FICAUMETER		
•		
	· L * 1	FROM TOP OF WELL CASING

State of Wisconsin

Department of Natural Resources

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 County	Original Well Owner (If Known)						
Washburn County Fairgrounds Washburn	Rawn Co., Inc.						
E	Present Well Owner						
SE 1/4 of SW 1 4 of Sec. 31 ; T. 39 N; R. 12 W	Washburn County						
(If Applicable)	Street or Route						
Gov't Lot Grid Number	South River Street (STH 63)						
Grid Location	City, State, Zip Code						
	• • • •						
	Spooner, Wisconsin 54801						
Civil Town Name	Facility Well No. and/ or Name (If Applicable) WI Unique Well No.						
Spooner	ED-2B						
Street Address of Well	Reason for Abandonment						
Washburn County Fairgrounds							
City, Village	Date of Abandonment						
Spooner, Wisconsin	7-8-03						
WELL/DRILLHOLE/BOREHOLE INFORMATION							
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 22.0						
(Date) 1-1()-89	Pump & Piping Removed? Yes No X N/A						
<u> </u>	Liner(s) Removed? Yes No N/A						
Monitoring Well Construction Report Available?	Screen Removed?						
☐ Water Well ☐ Yes ☐ No	Casing Left in Place? X Yes No No N/A						
Drillhole	If No, Explain						
Borehole							
	Was Casing Cut Off Below Surface?						
☐ Driven (Sandpoint) ☐ Dug	Did Sealing Material Rise to Surface?						
Other (Specify)	If Yes, Was Hole Retopped? Yes No						
Office (specify)	11 100, Was Hotel Recorptor. 1105 1100						
Formation Type:	(5) Required Method of Placing Sealing Material						
☐ Unconsolidated Formation ☐ Bedrock	Conductor Pipe - Gravity Conductor Pipe - Pumped						
Total Well Depth (ft.) 50.0 Casing Diameter (in.) 2"	Dump Bailer Other (Explain)						
(From Groundsurface)	(6) Sealing Materials For monitoring wells and						
	monitoring well boreholes only						
	Neat Cement Grout						
Casing Depth (ft.) 50.0	Sand - Cement (Concrete) Grout Bentonite Pellets						
	Concrete Granular Bentonite						
Was Well Annular Space Grouted? Yes No Unknown	Clay - Sand Slurry Bentonite - Cement Grout Bentonite - Sand Slurry						
If Yes, To What Depth?	Chipped Bentonite						
(7)	Number of Mix Ratio or						
Scaling Material Used	From (Ft.) To (Ft.) Yards Sacks Vol. Mud Weight						
Native Soil Patch	Surface 0.5						
3/8 inch Bentonite Chips	0.5 50.0 2						
(8) Comments:							
	(10) FOR DNR OR COUNTY USE ONLY						
Name of Person or Firm Doing Scaling Work							
Midwest Engineering Services, Inc.	Date Received/Inspected District/County						
Signature of Person Doing Work Date Signed							
(JE Mun) 2-23-03	Reviewer/Inspector Complying Work						
Street or Route Telephone Number	Noncomplying Work						
1692 State Highway, Suite 2 (715) 830-0770	Follow-up Necessary						
	- 1 1 1000 up 10000mm;						
City, State, Zip Code Chippewa Falls, WL 54729							
Chimpanya kalla AREST/10							

		ALL DEPTHS MEASURED FROM GROUND SURFACE	each associates consulting engineers, p.c.
ĐEY.	1082.06	•	MONITORING WELL CONSTRUCTION INFORMATION
ELŻV.	1081.99	(7)	JOB No. 559-1A CLIENT Rown Co., Inc.
			LOCATION Spooner, WI (Fairgrounds)
	1079.70		DATE 1/10/89 WELL No. ED-28
ELEV,	<i>17.</i> 27.27.20	TANK KARA	HYDROGEOLOGIST Clair E. Ruenger
		B	DRILLING CONTRACTOR Wisconsin Test Drilling
	6		1.) SCREEN TYPE PVC (Schedule 40)
			SLOTTED LENGTH 10 ft.
		2	SLOT SIZE 0.010 in.
			2.) SOLID PIPE TYPE PVC (Schedule 40)
			SOLID PIPE LENGTH 42.3 ft.
			PIPE & SCREEN DIA. 2 in.
			JOINT TYPE - SLIP/GLUEDTHREADEDX
		(5)	3.) TYPE OF BACKFILL AROUND SCREEN Flint Sand
			4.) TYPE OF LOWER SEAL (IF INSTALLED) 1/4" Bentonite Pellets
			5.) TYPE OF BACKFILL Cement/Bentonite
			HOW INSTALLED Tremie Pipe
<u>H</u> L430	36.0		6.) TYPE OF SURFACE SEAL (IF INSTALLED)
нгеза	38.0	4	7.) PROTECTIVE CASING - YES X NO
	`		LOCKING CAP YES X NO
			B.) CONCRETE SEAL - YES X NO
		0	9.) DRILLING METHOD Mud Rotary
			Outk-Got
DEPTH	50.0	3	10.) ADDITIVES USED (IF ANY) Quik-Get
-			11.) TYPE OF BACKFILL
			WATER LEVEL CHECKS *
DEPTH	50.0	DATE	TIME DEPTH TO WATER REMARKS
		W. M.	
		•	
	3		
		* FR	ROM TOP OF WELL CASING



Phone: 715.234.7008

Fax: 715.234.1025

e-mail: info@cooperengineering.net

310 West South Street, P.O. Box 230 Rice Lake, WI 54868-0230

Invoice No:

23695

Invoice Date:

August 12, 2003

Invoice

To:

Attn:

WDNR Region Finance

514 Service Road

Spooner, WI 54801-0309

Client I.D.

C0600

Project:

03373003

2003 Miscellaneous Billings - Sharon Masek

Manager Sharon Masek

Professional Services through the Period: 8/2/2003

RE: PROFESSIONAL SERVICES TO MONITOR AND

ABANDON EIGHT (8) GROUNDWATER MONITORING

WELLS AT SPOONER FAIRGROUNDS:

Sharon J. Masek 11.00 Hrs. @ \$85.00 per hr. \$935.00 17.25 Hrs. @ \$45.00 per hr. Kristina Rehling 776.25 10.00 Hrs. @ \$45.00 per hr. Eric Konop 450.00 Field Supplies 137.60 Mileage 121 Miles @ \$0.45 per mile 54.45 Northern Lake Services 877.45 Midwest Engineering Services 1,489.25

Total Due This Period:

\$4,720.00

PLEASE REMIT COPY WITH PAYMENT

INVOICE DUE NET 15 DAYS

A 1.0% monthly Late Fee will be assessed on all account balances over 30 days old

Invoice

518 " "

Invoice No:

23695

Invoice Date: August 12, 2003

To:

Attn:

WDNR Region Finance

514 Service Road

Spooner, WI 54801-0309

Client I.D.

C0600

Project:

03373003

2003 Miscellaneous Billings - Sharon Masek



Manager Sharon Masek

Professional Services through the Period: 8/2/2003

RE: PROFESSIONAL SERVICES TO MONITOR AND ABANDON EIGHT (8) GROUNDWATER MONITORING

WELLS AT SPOONER FAIRGROUNDS:

TILLED III OI OC	TIER TIMEGROOTED.	
Sharon J. Masek	11.00 Hrs. @ \$85.00 per hr.	\$935.00
Kristina Rehling	17.25 Hrs. @ \$45.00 per hr.	776.25
Eric Konop	10.00 Hrs. @ \$45.00 per hr.	450.00
Field Supplies		137.60
Mileage 121 M	iles @ \$0.45 per mile	54.45
Northern Lake Serv	vices	877.45
Midwest Engineeri	ng Services	1.489.25

Total Due This Period:

\$4,720.00

PLEASE REMIT COPY WITH PAYMENT

INVOICE DUE NET 15 DAYS

A 1.0% monthly Late Fee will be assessed on all account balances over 30 days old

Office Performing Work:

MIDWEST ENGINEERING SERVICES, INC. 1692 STH 53 CHIPPEWA FALLS 715-830-0770



Ms. Sharon Masek
Cooper Engineering Company
310 W. South Street
Rice Lake WI 54868-2420

INVOICE

PAGE: 1

Remit in 15 Days to:

midwest engineering services, inc. 1507 East Sunset Drive, Suite 125 Waukesha, WI 53189-8213 FID No. 39-1633553

MES Project No. 4-33074
Well Abandonment
Washburn County Fairgrounds
Spooner
WI

CLIENT NO.	CLIENT		/OICE DATE 7/31/03	43	INVOICE 30741			DUE DAT	
		DESCRIPTION				QUANTITY	TINU	RATE	TOTAL
							78.5		
Monitoring	Well	Abandonment	on a lump	sum bas	is	1.00	LUMP	1,295.00	1,295.00
		91	# 1				100		
			Part						
							اد		
				OK Goo!		ئن			
					Ŕ	bee 3	اص. ا		
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				JA (35	را ^م ''			
				- <u>F</u>	A	J			
				148 10 148 13 148					

ACCOUNT STATUS							
CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS	THIS INVOICE		
1,295.00	.00	.00	.00	.00	1,295.00		

INVOICE: NORTHERN LAKE SERVICE, INC.

Description: Spooner - DNR Wells

Title: 03373003

Contact: Sharon Masek

COC: 104199

Date sent: 11-JUL-03

Quote#: MCG

Phone: 715-234-7008 Fax: 715-234-1025 Invoice: 112011

Project: 74773

Client: 06724 PO#:

Note: GW Samples received on 07/02/03.

Bill to:

Cooper Engineering Company Inc. 310 West South Street P O Box 230 Rice Lake, WI 54868

Client:

Cooper Engineering Company Inc 310 West South Street Rice Lake, WI 54868 0230

<u>Qty</u>	<u>Test</u>	<u>Price</u>	Extended
7	VOCs (water) by EPA 8021	109.00	763.00
1	Trip blank	.00	.00
		Balance Due:	<u>\$763.00</u>



Please Remit to: NORTHERN LAKE SERVICE, INC. 400 North Lake Avenue Crandon, WI 54520 Ph: 715-478-2777

THANK YOU

TERMS: 30 days net. 1.5% per month on overdue accounts. QUANTITY DISCOUNTS apply only when full payment is received within 30 days of invoice date and will become void thereafter. All invoices subject to \$25 minimum.

Page 1 of 1



Phone: 715.234.7008

Fax: 715.234.1025 e-mail: info@cooperengineering.net

310 West South Street, P.O. Box 230

Rice Lake, WI 54868-0230

Invoice No:

Invoice Date: August 12, 2003

23695

Invoice

To:

Attn:

WDNR Region Finance

514 Service Road

Spooner, WI 54801-0309

Client I.D.

C0600

Project:

03373003

2003 Miscellaneous Billings - Sharon Masek

Manager Sharon Masek

Professional Services through the Period: 8/2/2003

RE: PROFESSIONAL SERVICES TO MONITOR AND ABANDON EIGHT (8) GROUNDWATER MONITORING

WELLS AT SPOONER FAIRGROUNDS:

Sharon J. Masek 11.00 Hrs. @ \$85.00 per hr. \$935.00 Kristina Rehling 17.25 Hrs. @ \$45.00 per hr. 776.25 Eric Konop 10.00 Hrs. @ \$45.00 per hr. 450.00 Field Supplies 137.60 Mileage 121 Miles @ \$0.45 per mile 54.45 Northern Lake Services 877.45 Midwest Engineering Services 1,489.25

Total Due This Period:

\$4,720.00

PLEASE REMIT COPY WITH PAYMENT

INVOICE DUE NET 15 DAYS

A 1.0% monthly Late Fee will be assessed on all account balances over 30 days old

Invoice

Invoice No: 23695

Invoice Date: August 12, 2003

To:

Attn:

WDNR Region Finance

514 Service Road

Spooner, WI 54801-0309

Client I.D.

C0600

Project:

03373003

2003 Miscellaneous Billings - Sharon Masek



Manager Sharon Masek

Professional Services through the Period: 8/2/2003

RE: PROFESSIONAL SERVICES TO MONITOR AND ABANDON EIGHT (8) GROUNDWATER MONITORING

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Kristina Rehling	17.25 Hrs. @ \$45.00 per hr.	776.25
Eric Konop	10.00 Hrs. @ \$45.00 per hr.	450.00
Field Supplies		137.60
Mileage 121 M	files @ \$0.45 per mile	54.45
Northern Lake Ser	vices	877.45
Midwest Engineer	ing Services	1.489.25

Total Due This Period:

\$4,720.00

PLEASE REMIT COPY WITH PAYMENT

INVOICE DUE NET 15 DAYS

A 1.0% monthly Late Fee will be assessed on all account balances over 30 days old

Office Performing Work:

MIDWEST ENGINEERING SERVICES, INC. 1692 STH 53 CHIPPEWA FALLS 715-830-0770



Ms. Sharon Masek
Cooper Engineering Company
310 W. South Street
Rice Lake WI 54868-2420

INVOICE

PAGE: 1

Remit in 15 Days to:

midwest engineering services, inc. 1507 East Sunset Drive, Suite 125 Waukesha, WI 53189-8213 FID No. 39-1633553

MES Project No. 4-33074
Well Abandonment
Washburn County Fairgrounds
Spooner
WI

CLIENT NO.	CLIENT P.O.	1NVOICE DATE 07/31/03	433074		DUE DAT	
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ACCOUNT STATUS								
CURRENT	30 DAYS	60 DAYS	90 DAYS	120 DAYS	THIS INVOICE			
1,295.00	.00	.00	.00	.00	1,295.00			

NORTHERN LAKE SERVICE, INC. INVOICE:

Description: Spooner - DNR Wells

Date sent: 11-JUL-03

Invoice: 112011

Title: 03373003

Quote#: MCG

Project: 74773

Contact: Sharon Masek

Phone: 715-234-7008

Client: 06724

COC: 104199

Fax: 715-234-1025

PO#:

Note:

GW Samples received on 07/02/03.

Bill to:

Client:

Cooper Engineering Company Inc 310 West South Street

Cooper Engineering Company Inc

P O Box 230 Rice Lake, WI 54868

310 West South Street Rice Lake, WI 54868 0230

<u>Qty</u>	<u>Test</u>	<u>Price</u>	<u>Extended</u>
7	VOCs (water) by EPA 8021	109.00	763.00
1	Trip blank	.00	.00
		Balance Due:	\$763.00



Please Remit to:

NORTHERN LAKE SERVICE, INC. 400 North Lake Avenue Crandon, WI 54520

Ph: 715-478-2777

THANK YOU

TERMS: 30 days net. 1.5% per month on overdue accounts. QUANTITY DISCOUNTS apply only when full payment is received within 30 days of invoice date and will become void thereafter. All invoices subject to \$25 minimum.

Page 1 of 1



RECEIVED DNR SPOONER

Phone: **715.234.7008** Fax: 715.234.1025

e-mail: cecinc@charter.net

310 West South Street, P.O. Box 230

103 JUN 10 AM 10 25

Rice Lake, WI 54868-0230

June 9, 2003

Mr. Jamie Dunn WDNR 810 West Maple Street Spooner, WI 54801

Re: Proposal for Well Monitoring/Abandonment at Spooner, Wisconsin

Dear Jamie:

Cooper Engineering Company, Inc., is pleased to provide this proposal for groundwater monitoring services. We have based our proposal on there being six wells (three well nests) on site. The water table wells are assumed to be approximately 20 feet deep and the piezometers 40 feet deep.

We propose to collect one round of groundwater samples from the wells and have them analyzed for volatile organic compounds by EPA Method 8021. Standard monitoring procedures as outlined in WDNR Groundwater Sampling Publications DG-03796 and DG-03896 will be followed. No field analysis (i.e., pH) is proposed. We will request fast turnaround on the laboratory results (1-2 days). Results will be faxed to you on receipt. If the results are acceptable, we will schedule and supervise abandonment of some or all of the wells, at your direction. Well abandonment forms will be completed and submitted to you.

The estimated total cost per well for the proposed monitoring and well abandonment is summarized below.

	Cost Per Well	Number of Wells	Total Cost
Well monitoring	\$120.00	6	\$ 720.00
Lab analysis	125.35	6	752.10
Well abandonment	75.00	6	450.00
Environmental driller	230.00	6	1,380.00
	\$3,302.10		

As we understand, you require samples to be collected on July 1, 2003. The laboratory can possibly have results to us on the 3rd or, at the latest, the 7th. After your review of the results and notice to proceed, we will schedule the well abandonment for July 8 or 9. As we understand, the goal is to have the wells removed prior to the beginning of the Spooner Rodeo on July 10.

Mr. Jamie Dunn June 9, 2003 Page 2

Please review this proposal and feel free to contact us if you have any questions or require revisions. We're looking forward to hearing from you.

Sincerely,

Sharon J. Masek, P.G., P.H.

Shoran , Masch

Project Manager

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ACCESS PERMISSION FORM

I hereby give my permission to the Wisconsin Department of Natural Resources and its employees, duly authorized representatives, agents and contractors, to enter upon and have access at reasonable times to [that portion of the] property [indicated on the attached map] that is owned by Washburn County in the City of Spooner, Washburn County, Wisconsin known as the Washburn County Fair Grounds, for the following purposes. So that the Department of Natural Resources may:

- (1) Sample and have analyzed for Volatile Organic Compounds, groundwater from 8 groundwater monitoring wells, and
 - (2) properly abandon monitoring wells were the groundwater does not exceed and enforcement standard under chapter NR 140, or
 - (3) change the protective covers on wells which exceed the enforcement standard (NR 140) to flush mount protective

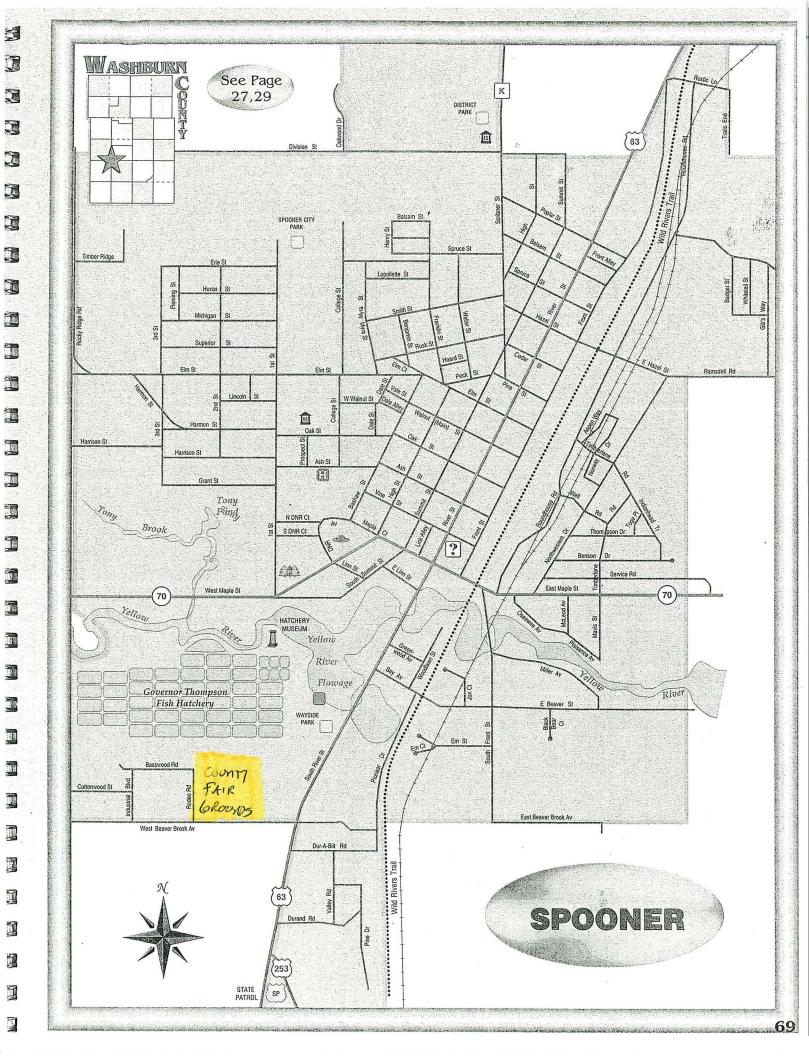
The permission that is granted herein shall remain in effect until July 9, 2003.

IN WITNESS WHEREOF:

Mr. Michael Miller

Washburn County Administrator

Date





An Employee Owned Company

Phone: **715.234.7008**Fax: 715.234.1025

e-mail: cecinc@charter.net

310 West South Street, P.O. Box 230 Rice Lake, WI 54868-0230

June 26, 2003

Mr. Jamie Dunn WDNR 810 West Maple Street Spooner, WI 54801

Re: Proposal for Well Monitoring/Abandonment at Spooner, Wisconsin

Dear Jamie:

Cooper Engineering Company, Inc., is pleased to provide this proposal for groundwater monitoring services. We have based our proposal on there being eight wells on site. The water table wells are approximately 26 feet deep and the piezometers range from 50 to 76 feet deep.

We propose to collect one round of groundwater samples from the wells and have them analyzed for volatile organic compounds by EPA Method 8021. Standard monitoring procedures as outlined in WDNR Groundwater Sampling Publications DG-03796 and DG-03896 will be followed. As we understand, the wells have not been sampled since 1988 so they will need to be developed. Purge water will be collected into barrels and will be left on site pending laboratory results. The City will haul and dispose of those barrels which are shown to contain contaminated water. Clean water will be dumped out on site. No field analysis (i.e., pH) is proposed. We will request fast turnaround on the laboratory results (1-2 days). Results will be faxed to you on receipt. If the results are acceptable, we will schedule and supervise abandonment of some or all of the wells, at your direction. Well abandonment forms will be completed and submitted to you. Wells that are not abandoned will be converted to flush mount protective casings.

The estimated total cost per well for the proposed monitoring and well abandonment is summarized below.

***************************************	Cost Per Well	Number of Wells	Total Cost
Administration	\$ 25.00	8	\$ 200.00
Well monitoring	165.00	8	1,320.00
Lab analysis	125.35	8	1,002.80
Well abandonment	75.00	8	600.00
Environmental driller	230.00	8	1,840.00
	\$4,962.80		

Mr. Jamie Dunn June 26, 2003 Page 2

As we understand, you require samples to be collected on July 1, 2003. The laboratory can possibly have results to us on the 3rd or, at the latest, the 7th. After your review of the results and notice to proceed, we will schedule the well abandonment for July 8 or 9. As we understand, the goal is to have the wells removed prior to the beginning of the Spooner Rodeo on July 10.

Please review this proposal and feel free to contact us if you have any questions or require revisions. We're looking forward to hearing from you.

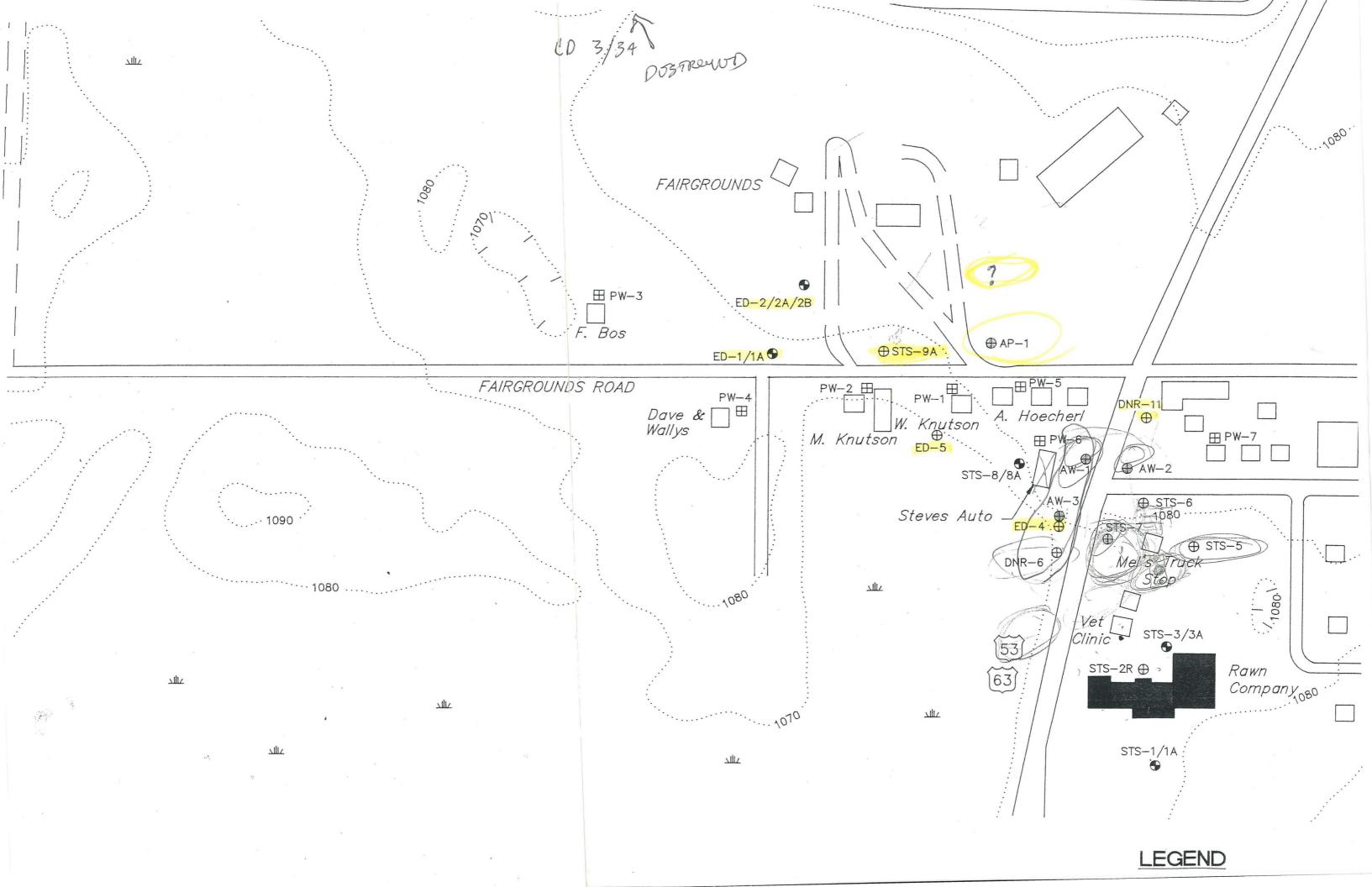
Sincerely,

Sharon J. Masek, P.G., P.H.

Project Manager

ho

G:\2003-proj\Proposals\Dunn-DNR 030626.doc





RECEIVED DNR SPOONER **Phone: 715.234.7008** Fax: 715.234.1025

e-mail: cecinc@charter.net

310 West South Street, P.O. Box 230

103 JUN 27 AM 10 56

Rice Lake, WI 54868-0230

June 26, 2003

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Please review this proposal and feel free to contact us if you have any questions or require revisions. We're looking forward to hearing from you.

Sincerely,

Sharon J. Masek, P.G., P.H.

Tharan J. Masch

Project Manager

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STATE OF WISCONSIN ENTER TYPE CODE PURCHASE ORDER NUMBER SEND INVOICE IN TRIPLICATE TO: 1 - Regular PURCHASE ORDER NKD00000055 2 - Change Previous DEPT. OF NATURAL RESOURCES 3 - Cancel Previous 5 - Blanket-Non Contract SHOW THIS NUMBER ON ALL SHIPMENTS NORTHERN CO-REGION FINANCE 8 - Blanket-Contract CORRESPONDENCE AND INVOICES 514 SERVICE RD SPOONER, WI 54801-0309 PD 370 USE VENDOR NUMBER DATE: 06/26/03 391038510 PAGE: 1 SHIP TO: VENDOR: COOPER ENGINEERING CO INC ... JAMIE DUNN SHARON MASEK DEPT. OF NATURAL RESOURCES PO BOX 230 NORTHERN REGION RICE LAKE WI 54868-0230 810 WEST MAPLE ST SPOONER, WI 54801 FOB Terms Delivery Reference Agency Bid No .: SBOP Bulletin No. NET 30 07/30/03 SHIP POINT Unit **Unit Price** Item Quantity Commodity Code Total 1.000 EACH 962-96-00-0000 5,000,000000 5,000.00 1 WELL ABANDONMENT - SPOONER WI TEST AND ABANDON FOR INSTALL FLUSH MOUNTS) ON 8 GROUNDWATER MONITORING WELLS LOCATED ON THE SOUTH SIDE OF SPOONER WI PER 6/23/2003 PROPOSAL, DNR CONTRACT ADMINISTRATOR JAMIE DUNN 715-635-4049 TOTAL ORDER IS NOT TO EXCEED \$5,000.00 TOTAL: 5,000.00 ----- FOR STATE USE ONLY ------LN FUND AGY ORG/SUB APPR ACTV FUNC OBJ/SUB JOB NUM CAT TOTAL 3300/ 01 274 370 RRFP/ 2 75 4 REBV 5,000.00 TOTAL: 5,000.00 Complete the following and return to Spooner Finance when merchandise / service is received. Date Received: Complete Partial Inventory Tyes ___ No ___ Model No. Serial No. inventory to Signature. Agrana Tara REGISTER INV. OR INVOICE OR CASH DATE INV. **NET AMOUNT** BALANCE NUMBER VOUCHER NO. VOU. DATE DISCOUNT **FORWARDED** JAMIE DUNN (715) 635-4049 Ack: Their Number: Shipping: Traced:

TO:SUPERIOR DNR

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Supervisory Approval

Division Administrator

Secretary
Assigned To:

COOPER ENGINEERING COMPANY, INC.

LETTER OF TRANSMITTAL

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REMARKS

SIGNED: Thousand, M.

COPY TO.

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services

400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

Client:

Cooper Engineering Company Inc

Attn: Sharon Masek 310 West South Street

P O Box 230

Rice Lake,WI 54868

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460

WDATCP Laboratory Certification No. 105 000330 EPA Laboratory ID No. WI00034

Printed: 07/03/03 Code: S

Page 1 of 2

NLS Project: NLS Customer:

74773 06724

Fax: 715 234 1025 Phone: 715 234 7008

Project:	Spooner - DNR Wells 03373003	By	
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Ref. Line COC 104199 ED-2A Matrix: GW Collected: 07/01/03 15:00 Received: 07/02/03 Parameter VOCs (water) by EPA 8021	Result see attached	Units		Dilution	LOD	LOQ	Analyzed 07/02/03	Method SW846 8021	Lab 721026460
Ref. Line COC 104199 ED-2B Matrix: GW Collected: 07/01/03 15:15 Received: 07/02/03 Parameter VOCs (water) by EPA 8021	Result see attached	Units		Dilution	LOD	LOQ	Analyzed 07/02/03	Method SW846 8021	Lab 721026460
AP-1 NLS ID: 313946 Ref. Line COC 104199 AP-1 Matrix: GW Collected: 07/01/03 11:45 Received: 07/02/03 Parameter VOCs (water) by EPA 8021	Result see attached	Units		Dilution	LOD	LOQ	Analyzed 07/02/03	Method SW846 8021	Lab 721026460
AP-4 NLS ID: 313947 Ref. Line COC 104199 AP-4 Matrix: GW Collected: 07/01/03 11:15 Received: 07/02/03 Parameter VOCs (water) by EPA 8021	Result see attached	Units		Dilution	LOD	LOQ	Analyzed 07/02/03	Method SW846 8021	Lab 721026460
Trip Blank NLS ID: 313948 Ref. Line COC 104199 Trip Blank Matrix: TB Collected: 07/01/03 00:00 Received: 07/02/03 Parameter VOCs (water) by EPA 8021	Result see attached	Units		Dilution	LOD	LOQ	Analyzed 07/02/03	Method SW846 8021	Lab 721026460

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520

Ph: (715)-478-2777 Fax: (715)-478-3060

Client:

Cooper Engineering Company Inc

MCL = Maximum Contaminant Levels for Drinking Water Samples

Attn: Sharon Masek 310 West South Street

P O Box 230

Rice Lake, WI 54868

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105 000330 EPA Laboratory ID No. WI00034

Printed: 07/03/03 Code: S

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NLS Project:

NLS Customer:

74773 06724

Fax: 715 234 1025

Phone: 715 234 7008

Spooner - DNR Wells 03373003 Project:

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection DWB = Dry Weight Basis LOQ = Limit of Quantitation

NA = Not Applicable

ND = Not Detected

%DWB = (mg/kg DWB) / 10000

1000 ug/L = 1 mg/L

Reviewed by:

Authorized by: R. T. Krueger

President

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2000) ring Company Inc NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313941 ED-1	Collected: 07/01/03	Ana	lyzed: 07	7/02/03			
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ		
Benzene	ND	ug/L	1	0.29	0.97		
Bromobenzene	ND	ug/L	1	0.10	0.37		
Bromochloromethane	ND	ug/L	1	0.27	0.89		
Bromodichloromethane	ND	ug/L	1	0.32	1.1		
Bromoform	ND	ug/L	1	0.28	0.92		
Bromomethane	ND	ug/L	1	0.39	1.3		
n-Butylbenzene	ND	ug/L	1	0.31	1.0		
sec-Butylbenzene	ND	ug/L	1	0.33	1.1		
tert-Butylbenzene	ND	ug/L	1	0.31	1.0		
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98		
Chlorobenzene	ND	ug/L	1	0.21	0.70		
Chloroethane	ND	ug/L	1	1.7	5.7		
Chloroform	ND	ug/L	1	0.30	0.99		
Chloromethane	ND	ug/L	1	0.24	0.75		
2-Chlorotoluene	ND	ug/L	1	0.39	1.3		
4-Chlorotoluene	ND	ug/L	1	0.37	1.2		
Dibromochloromethane	ND	ug/L	1	0.29	0.97		
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1		
1.2-Dibromoethane	ND	ug/L	1	0.30	1.0		
Dibromomethane	ND	ug/L	1	0.32	1.1		
1,2-Dichlorobenzene	ND	ug/L	<u>-</u>	0.28	0.93		
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79		
1.4-Dichlorobenzene	ND	ug/L	<u> </u>	0.23	0.78		
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63		
1,1-Dichloroethane	ND	ug/L	<u> </u>	0.30	0.99		
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1		
1,1-Dichloroethene	ND	ug/L	1	0.41	1.4		
cis-1,2-Dichloroethene	ND	ug/L	1	0.40	1.3		
trans-1,2-Dichloroethene	ND	ug/L	<u>-</u>	0.35	1.2		
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2		
1,3-Dichloropropane	ND	ug/L	1	0.34	1.7		
2,2-Dichloropropane	ND ND	ug/L	<u>_</u>	0.44	1.5	A CONTRACTOR OF THE CONTRACTOR	
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1		
cis-1,3-Dichloropropene	ND	ug/L	<u> </u>	0.27	0.89		
trans-1,3-Dichloropropene	ND ND	ug/L	1	0.32	1.1		
Ethylbenzene	ND ND	ug/L	1	0.26	0.87		
Hexachlorobutadiene	ND	ug/L	<u>.</u>	0.41	1.4		
Isopropylbenzene	ND ND	ug/L		0.36	1.2		
p-Isopropyltoluene	ND	ug/L	1	0.30	1.0		
Methylene chloride	ND	ug/L	1	0.43	1.4		
Naphthalene	ND ND	ug/L	1	0.39	1.3		
n-Propylbenzene	ND ND	ug/L ug/L	1	0.34	1.1		
ortho-Xylene	ND ND	ug/L ug/L	1	0.27	0.89		
Styrene	ND ND	ug/L ug/L	1	0.27	1.1		
1,1,1,2-Tetrachloroethane	ND	ug/L ug/L	1	0.28	0.94		
1,1,2-Tetrachioroethane	ND ND	ug/L ug/L	1	0.28	1.1		
Tetrachloroethene	ND ND	ug/L ug/L	1	0.31	1.0		
Toluene	ND	ug/L ug/L		0.34	1.1		
1,2,3-Trichlorobenzene	ND ND	ug/L ug/L	1	0.36	1.2		
1,2,4-Trichlorobenzene	ND	ug/L ug/L	1	0.37	1.2		
1,2,4-1 richlorobenzene 1,1,1-Trichloroethane	ND ND	ug/L ug/L	1	0.37	0.88		
		·		0.42		and the second s	
1,1,2-Trichloroethane	ND	ug/L	11	0.42	1.4		

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NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313941 ED-1	Collected: 07/01/03	Ana	alyzed: 0	7/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	95%					
Toluene-d8 (SURR**)	100%					
1-Bromo-4-Fluorobenzene (SURR**)	101%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 NLS Project: 74773

Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313942 ED-1A	Collected: 07/01	/03 An	alyzed: 07	7/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Benzene	ND	ug/L	1	0.29	0.97	
Bromobenzene	ND	ug/L	1	0.10	0.37	
Bromochloromethane	ND	ug/L	1	0.27	0.89	
Bromodichloromethane	ND	ug/L	1	0.32	1.1	
Bromoform	ND	ug/L	1	0.28	0.92	
Bromomethane	ND	ug/L	1	0.39	1.3	
n-Butylbenzene	ND	ug/L	1	0.31	1.0	
sec-Butylbenzene	ND	ug/L	1	0.33	1.1	
tert-Butylbenzene	ND	ug/L	1	0.31	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98	
Chlorobenzene	ND	ug/L	1	0.21	0.70	
Chloroethane	ND	ug/L	<u> </u>	1.7	5.7	
Chloroform	ND	ug/L	<u> </u>	0.30	0.99	
Chloromethane	ND	ug/L	1	0.24	0.75	
2-Chlorotoluene	ND	ug/L	1	0.39	1.3	
4-Chlorotoluene	ND	ug/L	1	0.37	1.2	
Dibromochloromethane	ND	ug/L	1	0.29	0.97	
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1	
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0	
Dibromomethane	ND ND	ug/L	<u> </u>	0.32	1.1	
,2-Dichlorobenzene	ND ND	ug/L	i	0.28	0.93	
,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79	
4-Dichlorobenzene	ND	ug/L	1	0.23	0.78	
ichlorodifluoromethane	ND	ug/L	1	0.18	0.63	
1-Dichloroethane	ND ND	ug/L	1	0.30	0.99	
2-Dichloroethane	ND ND	ug/L	1	0.34	1.1	
2-Dichloroethane 1-Dichloroethene	ND ND	ug/L	1	0.41	1.4	· · · · · · · · · · · · · · · · · · ·
is-1.2-Dichloroethene	ND ND	ug/L	1	0.40	1.3	
ans-1,2-Dichloroethene	ND ND	ug/L		0.35	1.2	
ans-1,2-Dichloropropane	ND ND	ug/L	1	0.35	1.2	
	ND ND	ug/L ug/L	1	0.34	1.1	
,3-Dichloropropane	ND ND	ug/L	1	0.44	1.5	
,1-Dichloropropene	ND ND	ug/L	1	0.32	1.1	
	ND	ug/L	1	0.32	0.89	
rans-1,3-Dichloropropene	ND ND	ug/L ug/L	<u> </u>	0.32	1.1	
	ND ND		1	0.26	0.87	
Ethylbenzene Hexachlorobutadiene	ND	ug/L	1	0.26	1.4	
The state of the s	ND ND	ug/L ug/L	1	0.36	1.2	
sopropylbenzene	ND ND		1	0.30	1.0	
o-Isopropyltoluene	ND ND	ug/L				
lethylene chloride		ug/L	1	0.43	1.4	
aphthalene	ND ND	ug/L	1	0.39	1.3	
Propylbenzene	ND ND	ug/L		0.34	1.1	
tho-Xylene	ND	ug/L	1	0.27	0.89	
yrene	ND ND	ug/L	1	0.32	1.1	
1,1,2-Tetrachloroethane	ND ND	ug/L		0.28	0.94	
1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1	
etrachloroethene	ND ND	ug/L	1	0.31	1.0	
oluene	ND ND	ug/L		0.34	1.1	
,2,3-Trichlorobenzene	ND	ug/L	1	0.36	1.2	
,2,4-Trichlorobenzene	ND ND	ug/L		0.37	1.2	, the transfer of the second s
,1,1-Trichloroethane	ND	ug/L	1	0.27	0.88	
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4	

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NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313942 ED-1A	Collected: 07/01/03		Analyzed	07/02/03		
ANALYTE NAME	RESULT I	JNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	are a second
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	97%					
Toluene-d8 (SURR**)	93%					
1-Bromo-4-Fluorobenzene (SURR**)	90%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

Sample: 313943 ED-2	Collected: 07/01/03	Ana	alyzed: 07	/02/03			
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ		
Benzene	ND	ug/L	1	0.29	0.97		
Bromobenzene	ND	ug/L	1	0.10	0.37		
Bromochloromethane	ND	ug/L	1	0.27	0.89		
Bromodichloromethane	ND	ug/L	1	0.32	1.1		
Bromoform	ND	ug/L	1	0.28	0.92		
Bromomethane	ND	ug/L	1	0.39	1.3		
n-Butylbenzene	ND	ug/L	1	0.31	1.0		
sec-Butylbenzene	ND	ug/L	1	0.33	1.1		
tert-Butylbenzene	ND	ug/L	1	0.31	1.0		
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98		
Chlorobenzene	ND	ug/L	1	0.21	0.70		
Chloroethane	ND	ug/L	1	1.7	5.7		
Chloroform	ND	ug/L	1	0.30	0.99		
Chloromethane	ND	ug/L	1	0.24	0.75		
2-Chlorotoluene	ND	ug/L	1	0.39	1.3		
4-Chlorotoluene	ND	ug/L	11	0.37	1.2		
Dibromochloromethane	ND	ug/L	11	0.29	0.97		
1,2-Dibromo-3-Chloropropane	ND	ug/L	11	0.33	1.1		
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0		
Dibromomethane	ND ND	ug/L	11	0.32	1.1		
1,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93		
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79		
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78		
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63		
1,1-Dichloroethane	ND	ug/L	1	0.30	0.99		
1,2-Dichloroethane	ND ·	ug/L	1	0.34	1.1		
1,1-Dichloroethene	ND	ug/L	11	0.41	1.4		
cis-1,2-Dichloroethene	ND	ug/L	11	0.40	1.3		
trans-1,2-Dichloroethene	ND ND	ug/L	1	0.35	1.2		
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2		
1,3-Dichloropropane	ND	ug/L	1	0.34	1.1		
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5		
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1	,	
cis-1,3-Dichloropropene	ND ND	ug/L	1	0.27	0.89		
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1		
Ethylbenzene	ND ND	ug/L	1	0.26	0.87		
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4		
Isopropylbenzene	ND	ug/L	1	0.36	1.2		
p-Isopropyltoluene	ND	ug/L	11	0.30	1.0		
Methylene chloride	ND	ug/L	11	0.43	1.4		
Naphthalene	ND	ug/L	11	0.39	1.3		
n-Propylbenzene	ND	ug/L	11	0.34	1.1		
ortho-Xylene	ND	ug/L	1	0.27	0.89		
Styrene	ND	ug/L	11	0.32	1.1		
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.28	0.94	A CONTRACTOR OF THE CONTRACTOR	
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1		
Tetrachloroethene	ND	ug/L	11	0.31	1.0		
Toluene	ND	ug/L	1	0.34	1.1		_
1,2,3-Trichlorobenzene	ND	ug/L	1	0.36	1.2		
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	ananos en	
1,1,1-Trichloroethane	ND	ug/L	1	0.27	0.88		
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4		

NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313943 ED-2	Collected: 07/01/03	Ana	lyzed: 0	7/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	107%					
Toluene-d8 (SURR**)	103%					7
1-Bromo-4-Fluorobenzene (SURR**)	100%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

Sample: 313944 ED-2A	Collected: 07/01	/03 Ar	alyzed: (07/02/03			
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ		
Benzene	ND	ug/L	1	0.29	0.97	V 4 CV With an arrange and a second	
Bromobenzene	ND	ug/L	1	0.10	0.37		
Bromochloromethane	ND	ug/L	1	0.27	0.89		
Bromodichloromethane	ND	ug/L	1	0.32	1.1		
Bromoform	ND	ug/L	1	0.28	0.92		
Bromomethane	ND	ug/L	1	0.39	1.3		
n-Butylbenzene	ND	ug/L	1	0.31	1.0		
sec-Butylbenzene	ND	ug/L	1	0.33	1.1		
tert-Butylbenzene	ND	ug/L	1	0.31	1.0		-
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98		
Chlorobenzene	ND	ug/L	1	0.21	0.70		wanterface to
Chloroethane	ND	ug/L	1	1.7	5.7		
Chloroform	ND	ug/L	1	0.30	0.99		
Chloromethane	ND	ug/L	1	0.24	0.75		ALL PLANTS AND ADDRESS OF THE PARTY AND ADDRES
2-Chlorotoluene	ND	ug/L	1	0.39	1.3		
4-Chlorotoluene	ND	ug/L	1	0.37	1.2		
Dibromochloromethane	ND	ug/L	1	0.29	0.97		
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1		
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0		
Dibromomethane	ND	ug/L	1	0.32	1.1		
1,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93		
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79		
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78		
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63	7	war marin
1.1-Dichloroethane	ND	ug/L	1	0.30	0.99		
1,2-Dichloroethane	ND	ug/L	1	0.34	1.1		
1,1-Dichloroethene	ND	ug/L	1	0.41	1.4		
cis-1.2-Dichloroethene	ND	ug/L	1	0.40	1.3	THE STATE OF THE S	
trans-1,2-Dichloroethene	ND	ug/L	1	0.35	1.2		
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2		
1,3-Dichloropropane	ND	ug/L	1	0.34	1.1		
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5		
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1		
cis-1,3-Dichloropropene	ND	ug/L	<u>i</u>	0.27	0.89		
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1		
Ethylbenzene	ND	ug/L	1	0.26	0.87		
Hexachlorobutadiene	ND	ug/L	1	0.41	1,4		
Isopropylbenzene	ND	ug/L	1	0.36	1.2		
p-Isopropyltoluene	ND	ug/L	1	0.30	1.0		
Methylene chloride	ND	ug/L	1	0.43	1.4		***************************************
Naphthalene	ND	ug/L	1	0.39	1.3		
n-Propylbenzene	ND	ug/L	1	0.34	1.1		
ortho-Xylene	ND	ug/L	<u> </u>	0.27	0.89		
Styrene	ND	ug/L	<u> </u>	0.32	1.1	The second secon	
1,1,1,2-Tetrachloroethane	ND	ug/L	<u>i</u>	0.28	0.94		
1,1,2,2-Tetrachioroethane	ND	ug/L	1	0.33	1.1	**************************************	
Tetrachloroethene	ND	ug/L	1	0.31	1.0		
Toluene	ND	ug/L	<u> </u>	0.34	1.1		
1,2,3-Trichlorobenzene	ND	ug/L	1	0.36	1.2		
1.2.4-Trichlorobenzene	ND	ug/L	<u> </u>	0.37	1.2		
	ND	ug/L	1	0.27	0.88		
1,1,1-Trichloroethane							

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

NLS Project: 74773

Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313944 ED-2A	Collected: 07/01	/03	Analyzed:	07/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	100%					
Toluene-d8 (SURR**)	93%					
1-Bromo-4-Fluorobenzene (SURR**)	95%				The state of the s	

High level of 1,1,2-Trichlorotrifluoroethane present.

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^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

NALYTE NAME	Sample: 313945 ED-2B		Collected: 07/01/	03 Ar	nalyzed: (07/02/03			
Stromocherzone	ANALYTE NAME		RESULT	UNITS	DIL	LOD	LOQ		
Bromochomethane	Benzene		ND	ug/L	1	0.29	0.97		
Bromochloromethane									
Bromorfem			ND		1	0.27			
Bromomethane ND ug/L 0.39 1.3 1.0	Bromodichloromethane		ND	ug/L	1		1.1		Maria Control
Bromomethane ND ug/L 0.39 1.3 1.0		-	ND		1	0.28			
Sec-Bulylbenzene ND			ND		1				
Sec-Bulylbenzene ND	n-Butylbenzene	1,000	ND	ug/L	1	0.31			
Carbon Tetrachloride ND			ND		1				MANUFACTOR CO.D. (1970)
Chilorobenzene ND	tert-Butylbenzene		ND	ug/L	1	0.31	1.0		
Chlorobenzene ND	Carbon Tetrachloride		ND	ug/L	1	0.30	0.98		
Chloroform			ND		1				
Chioromethane	Chloroethane		ND		1	1.7	5.7		
2-Chlorotoluene	Chloroform		ND	ug/L	1	0.30	0.99		
2-Chiorotoluene	Chloromethane		ND		1	0.24	0.75		
4-Chlorofoluene ND				ug/L	1	0.39			
Dibromochtoromethane	4-Chlorotoluene	AMERICAN PROPERTY AND AND ADMINISTRATION OF THE PROPERTY ADMINISTRATION OF THE PROPERTY AND ADMINISTRATION OF THE PROPERT		ug/L	1	0.37	1.2		SERVING AND PROPERTY AND
1.2-Dibromo-S-Chieropropane ND ug/L 1 0.33 1.1 1.2-Dibromoethane ND ug/L 1 0.30 1.0 1.2-Dibromoethane ND ug/L 1 0.32 1.1 1.2-Dibromoethane ND ug/L 1 0.32 0.33 1.3 1.3 1.2 1.2-Dibromoethane ND ug/L 1 0.28 0.93 1.3-Dibrobenzene ND ug/L 1 0.24 0.79 1.4-Dibrobenzene ND ug/L 1 0.23 0.78 1.4-Dibrobenzene ND ug/L 1 0.23 0.78 1.4-Dibroroethane ND ug/L 1 0.18 0.63 1.1-Dibroroethane ND ug/L 1 0.30 0.99 1.1-Dibroroethane ND ug/L 1 0.30 0.99 1.1-Dibroroethane ND ug/L 1 0.34 1.1 1.1-Dibroroethane ND ug/L 1 0.35 1.2 1.2-Dibroroethane ND ug/L 1 0.35 1.2 1.2-Dibroroethane ND ug/L 1 0.35 1.2 1.2-Dibroroptopane ND ug/L 1 0.34 1.1 1.2-Dibroroptopane ND ug/L 1 0.34 1.1 1.2-Dibroroptopane ND ug/L 1 0.34 1.1 1.2-Dibroroptopane ND ug/L 1 0.32 1.1 1.3-Dibroroptopane ND ug/L 1 0.33 1.1 1.3-Dibroroptopane ND ug/L 1 0.33 1.3 1.3-Dibroroptopane ND ug/L 1 0.33 1.1 1.3-Dibroroptopane ND ug/L 1 0.33 1.1 1.3-Dibroropt	Dibromochloromethane		ND		1	0.29	0.97		
Dibromomethane	1,2-Dibromo-3-Chloropropane				1	0.33	1.1		
Dibromomethane	1,2-Dibromoethane		ND .	ug/L	1	0.30	1.0		
1.3-Dichlorobenzene	Dibromomethane		ND		1	0.32	1.1		
1.4-Dichlorobenzene ND ug/L 1 0.23 0.78	1,2-Dichlorobenzene		ND		1	0.28	0.93		
1.4-Dichlorobenzene ND ug/L 1 0.23 0.78	1,3-Dichlorobenzene		ND	ug/L	1	0.24	0.79		
1.1-Dichloroethane	1,4-Dichlorobenzene		ND		1	0.23	0.78		
1,2-Dichloroethane	Dichlorodifluoromethane		ND	ug/L	1	0.18	0.63		
1,2-Dichloroethane	1,1-Dichloroethane		ND	ug/L	1	0.30	0.99		
cis-1,2-Dichloroethene ND ug/L 1 0.40 1.3 trans-1,2-Dichloropethene ND ug/L 1 0.35 1.2 1,2-Dichloropropane ND ug/L 1 0.35 1.2 1,3-Dichloropropane ND ug/L 1 0.34 1.1 2,2-Dichloropropane ND ug/L 1 0.44 1.5 1,1-Dichloropropene ND ug/L 1 0.44 1.5 1,1-Dichloropropene ND ug/L 1 0.32 1.1 cis-1,3-Dichloropropene ND ug/L 1 0.32 1.1 Ethylbenzene ND ug/L 1 0.32 1.1 Ethylbenzene ND ug/L 1 0.26 0.87 Hexachlorobutadiene ND ug/L 1 0.44 1.4 Isopropylbenzene ND ug/L 1 0.36 1.2 Isopropylbenzene ND ug/L 1 0.33	1,2-Dichloroethane		ND		1	0.34	1.1		
trans-1,2-Dichloroethene ND ug/L 1 0.35 1.2 1,2-Dichloropropane ND ug/L 1 0.35 1.2 1,3-Dichloropropane ND ug/L 1 0.34 1.1 2,2-Dichloropropane ND ug/L 1 0.44 1.5 1,1-Dichloropropene ND ug/L 1 0.32 1.1 cis-1,3-Dichloropropene ND ug/L 1 0.27 0.89 trans-1,3-Dichloropropene ND ug/L 1 0.28 0.87 trans-1,3-Dichloropropene ND ug/L 1 0.34 1.1 Isopropylearene ND <th< td=""><td>1,1-Dichloroethene</td><td></td><td>ND</td><td>ug/L</td><td>1</td><td>0.41</td><td></td><td></td><td></td></th<>	1,1-Dichloroethene		ND	ug/L	1	0.41			
1.2-Dichloropropane	cis-1,2-Dichloroethene		ND	ug/L	1		1.3		
1,3-Dichloropropane ND	trans-1,2-Dichloroethene		ND	ug/L	1	0.35			
1,3-Dichloropropane ND	1,2-Dichloropropane		ND	ug/L	1	0.35	1.2	***************************************	
1,1-Dichloropropene ND ug/L 1 0.32 1.1 cis-1,3-Dichloropropene ND ug/L 1 0.27 0.89 trans-1,3-Dichloropropene ND ug/L 1 0.32 1.1 Ethylbenzene ND ug/L 1 0.36 0.87 Hexachlorobutadiene ND ug/L 1 0.41 1.4 Isopropylbenzene ND ug/L 1 0.36 1.2 p-isopropyltoluene ND ug/L 1 0.33 1.4 Naphthalene ND ug/L 1 0.33 1.4 Naphthalene ND ug/L 1 0.34 1.	1,3-Dichloropropane		ND	ug/L	1	0.34	1.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
cis-1,3-Dichloropropene ND ug/L 1 0.27 0.89 trans-1,3-Dichloropropene ND ug/L 1 0.32 1.1 Ethylbenzene ND ug/L 1 0.26 0.87 Hexachlorobutadiene ND ug/L 1 0.41 1.4 Isopropylbenzene ND ug/L 1 0.36 1.2 p-Isopropyltoluene ND ug/L 1 0.36 1.2 p-Isopropyltoluene ND ug/L 1 0.30 1.0 Methylene chloride ND ug/L 1 0.33 1.4 Naphthalene ND ug/L 1 0.33 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 n-Propylbenzene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.32 1.1 1,1,1,2-Tetrachloroethane ND ug/L 1 0.32 1	2,2-Dichloropropane	and the second s	ND	ug/L	1	0.44	1.5		
trans-1,3-Dichloropropene ND ug/L 1 0.32 1.1 Ethylbenzene ND ug/L 1 0.26 0.87 Hexachlorobutadiene ND ug/L 1 0.41 1.4 Isopropylbenzene ND ug/L 1 0.36 1.2 p-Isopropyltoluene ND ug/L 1 0.30 1.0 Methylene chloride ND ug/L 1 0.43 1.4 Naphthalene ND ug/L 1 0.43 1.4 Naphthalene ND ug/L 1 0.39 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.32 1.1 1,1,1,2-Tetrachloroethane ND ug/L 1 0.32 1.1 1,1,2,2-Tetrachloroethane ND ug/L 1 0.33 1.1	1,1-Dichloropropene		ND	ug/L	1		1.1		
Ethylbenzene ND ug/L 1 0.26 0.87 Hexachlorobutadiene ND ug/L 1 0.41 1.4 Isopropylbenzene ND ug/L 1 0.36 1.2 p-Isopropyltoluene ND ug/L 1 0.30 1.0 Methylene chloride ND ug/L 1 0.43 1.4 Naphthalene ND ug/L 1 0.39 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.34 1.1 styrene ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethene ND ug/L 1 0.33 1.1 Toluene ND ug/L 1 0.34 1.1	cis-1,3-Dichloropropene		ND	ug/L	1	0.27	0.89		
Hexachlorobutadiene ND	trans-1,3-Dichloropropene		ND	ug/L	1	0.32	1.1		
Isopropylbenzene	Ethylbenzene				1	0.26	0.87		
p-Isopropyltoluene ND ug/L 1 0.30 1.0 Methylene chloride ND ug/L 1 0.43 1.4 Naphthalene ND ug/L 1 0.39 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 n-Propylbenzene ND ug/L 1 0.34 1.1 n-Propylbenzene ND ug/L 1 0.34 1.1 n-Propylbenzene ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethane ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2			ND	ug/L	1	0.41	1.4		
Methylene chloride ND ug/L 1 0.43 1.4 Naphthalene ND ug/L 1 0.39 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.27 0.89 Styrene ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.28 0.94 1,1,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethane ND ug/L 1 0.33 1.1 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.34 1.1 1,2,4-Trichlorobenzene ND ug/L 1 0.36 1.2 1,1,1-Trichloroethane ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88	Isopropylbenzene		ND	ug/L	1	0.36	1.2		
Naphthalene ND ug/L 1 0.39 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.27 0.89 Styrene ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.28 0.94 1,1,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethane ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88	p-Isopropyltoluene			ug/L	1		1.0	The second secon	
Naphthalene ND ug/L 1 0.39 1.3 n-Propylbenzene ND ug/L 1 0.34 1.1 ortho-Xylene ND ug/L 1 0.27 0.89 Styrene ND ug/L 1 0.32 1.1 1,1,2-Tetrachloroethane ND ug/L 1 0.28 0.94 1,1,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethane ND ug/L 1 0.33 1.1 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88	Methylene chloride			ug/L	1				
ortho-Xylene ND ug/L 1 0.27 0.89 Styrene ND ug/L 1 0.32 1.1 1,1,1,2-Tetrachloroethane ND ug/L 1 0.28 0.94 1,1,2,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethene ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88				ug/L	1		1.3		
Styrene ND ug/L 1 0.32 1.1 1,1,1,2-Tetrachloroethane ND ug/L 1 0.28 0.94 1,1,2,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethane ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88									
1,1,1,2-Tetrachloroethane ND ug/L 1 0.28 0.94 1,1,2,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethene ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88							The state of the s		
1,1,2,2-Tetrachloroethane ND ug/L 1 0.33 1.1 Tetrachloroethene ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88	Styrene				1				
Tetrachloroethene ND ug/L 1 0.31 1.0 Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88						0.28			
Toluene ND ug/L 1 0.34 1.1 1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88									
1,2,3-Trichlorobenzene ND ug/L 1 0.36 1.2 1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88				ug/L					
1,2,4-Trichlorobenzene ND ug/L 1 0.37 1.2 1,1,1-Trichloroethane ND ug/L 1 0.27 0.88									
1,1,1-Trichloroethane ND ug/L 1 0.27 0.88				ug/L_					
				ug/L	1				
				ug/L	AND THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA				
1,1,2-Trichloroethane ND ug/L 1 0.42 1.4	1,1,2-Trichloroethane		ND	ug/L	1	0.42	1.4	A 10 Ac 1985 4	

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2000) ring Company Inc NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313945 ED-2B	Collected: 07/01	/03	Analyzed:	07/02/03	-	
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	A PART OF THE PROPERTY OF THE
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	The second secon
Isopropyl Ether	ND ·	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	96%					
Toluene-d8 (SURR**)	98%					
1-Bromo-4-Fluorobenzene (SURR**)	96%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

Sample: 313946 AP-1	Collected: 07/01/03	Ana	lyzed: 07	//02/03			
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ		
Benzene	ND	ug/L	1	0.29	0.97		
Bromobenzene	ND	ug/L	1	0.10	0.37		_
Bromochloromethane	ND	ug/L	1	0.27	0.89		=
Bromodichloromethane	ND	ug/L	1	0.32	1.1		
Bromoform	ND	ug/L	1	0.28	0.92		
Bromomethane	ND	ug/L	1	0.39	1.3		
n-Butylbenzene	ND	ug/L	1	0.31	1.0	Application of the state of the	
sec-Butylbenzene	ND	ug/L	1	0.33	1.1		
tert-Butylbenzene	ND	ug/L	1	0.31	1.0		
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98		
Chlorobenzene	ND	ug/L	1	0.21	0.70		
Chloroethane	. ND	ug/L	1	1.7	5.7		
Chloroform	ND	ug/L	11	0.30	0.99		
Chloromethane	ND	ug/L	1	0.24	0.75		
2-Chlorotoluene	ND	ug/L	1	0.39	1.3		
4-Chlorotoluene	ND	ug/L	1	0.37	1.2		
Dibromochloromethane	ND	ug/L	1	0.29	0.97		are a
1,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1		
1,2-Dibromoethane	ND	ug/L	1	0.30	1.0		and the same of th
Dibromomethane	ND	ug/L	1	0.32	1.1		
1,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93	The state of the s	
1,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79		
1,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78		
Dichlorodifluoromethane	ND ND	ug/L	1	0.18	0.63		
1,1-Dichloroethane	ND ND	ug/L	1	0.30	0.99		-
1,2-Dichloroethane	ND ND	ug/L	1	0.34 0.41	1.1		_
1,1-Dichloroethene cis-1,2-Dichloroethene	ND ND	ug/L ug/L	1	0.41	1.4 1.3		_
trans-1,2-Dichloroethene	ND ND	ug/L ug/L	1	0.40	1.2		
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2		
1,3-Dichloropropane	ND	ug/L ug/L	1	0.34	1.1		_
2,2-Dichloropropane	ND ND	ug/L	1	0.44	1.5		
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1		
cis-1,3-Dichloropropene	ND	ug/L	 i	0.27	0.89		
trans-1,3-Dichloropropene	ND	ug/L	<u> </u>	0.32	1.1		
Ethylbenzene	ND	ug/L	1	0.26	0.87		ore .
Hexachlorobutadiene	ND	ug/L	1	0.41	1.4		
Isopropylbenzene	ND	ug/L	1	0.36	1.2		
p-lsopropyltoluene	ND	ug/L	1	0.30	1.0		-
Methylene chloride	ND	ug/L	1	0.43	1.4		
Naphthalene	ND	ug/L	1	0.39	1.3		-
n-Propylbenzene	ND	ug/L	1	0.34	1.1		
ortho-Xylene	ND	ug/L	1	0.27	0.89		
Styrene	ND	ug/L	1	0.32	1.1		
1,1,1,2-Tetrachloroethane	ND	ug/L	1	0.28	0.94		
1,1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1		
Tetrachloroethene	ND	ug/L	1	0.31	1.0		
Toluene	ND	ug/L	1	0.34	1.1		
1,2,3-Trichlorobenzene	ND	ug/L	1	0.36	1.2		
1,2,4-Trichlorobenzene	ND	ug/L	1	0.37	1.2		
1,1,1-Trichloroethane	ND	ug/L	11	0.27	0.88		
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4		

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 NLS Project: 74773

Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313946 AP-1	Collected: 07/01/03	Ana	alyzed: 07	7/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	100
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	107%					
Toluene-d8 (SURR**)	104%		-			
1-Bromo-4-Fluorobenzene (SURR**)	102%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

Sample: 313947 AP-4	Collected: 07/01/03	Analyzed: 07/02/03		7/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Benzene	ND	ug/L	1	0.29	0.97	ANA AND AND AND AND AND AND AND AND AND
Bromobenzene	ND	ug/L	1	0.10	0.37	
Bromochloromethane	ND	ug/L	1	0.27	0.89	
Bromodichloromethane	ND	ug/L	1	0.32	1.1	
Bromoform	ND	ug/L	1	0.28	0.92	
Bromomethane	ND	ug/L	1	0.39	1.3	
n-Butylbenzene	ND	ug/L	1	0.31	1.0	
sec-Butylbenzene	ND	ug/L	1	0.33	1.1	
tert-Butylbenzene	ND	ug/L	1	0.31	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98	
Chlorobenzene	ND	ug/L	1	0.21	0.70	
Chloroethane	ND	ug/L	1	1.7	5.7	
Chloroform	ND	ug/L	1	0.30	0.99	
Chloromethane	ND	ug/L	1	0.24	0.75	
2-Chlorotoluene	ND	ug/L	1	0.39	1.3	
4-Chlorotoluene	ND	ug/L	1	0.37	1.2	
Dibromochloromethane	ND	ug/L	1	0.29	0.97	
I,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1	The second rate states and the second representations of the second representation of the second repres
.2-Dibromoethane	ND	ug/L	1	0.30	1.0	
Dibromomethane	ND	ug/L	1	0.32	1.1	The state of the s
I,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93	
.3-Dichlorobenzene	ND	ug/L	1	0.24	0.79	-
,4-Dichlorobenzene	ND	ug/L	1	0.23	0.78	
Dichlorodifluoromethane	ND	ug/L	1	0.18	0.63	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
I.1-Dichloroethane	ND	ug/L	1	0.30	0.99	
I.2-Dichloroethane	ND	ug/L	1	0.34	1.1	
1,1-Dichloroethene	ND	ug/L	1	0.41	1.4	
cis-1,2-Dichloroethene	ND	ug/L	1	0.40	1.3	
rans-1,2-Dichloroethene	ND	ug/L	1	0.35	1.2	
1,2-Dichloropropane	ND	ug/L	1	0.35	1.2	A STATE OF THE STA
1,3-Dichloropropane	ND	ug/L	<u> </u>	0.34	1.1	
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5	
1,1-Dichloropropene	ND ND	ug/L	1	0.32	1.1	
cis-1,3-Dichloropropene	ND ND	ug/L	i	0.27	0.89	
rans-1,3-Dichloropropene	ND ND	ug/L	1	0.32	1.1	
Ethylbenzene	ND	ug/L	1	0.26	0.87	
Hexachlorobutadiene	ND ND	ug/L	1	0.41	1.4	
sopropylbenzene	ND ND	ug/L ug/L		0.36	1.2	A STATE OF THE PARTY OF THE PAR
-Isopropyltoluene	ND ND	ug/L ug/L	1	0.30	1.0	
Nethylene chloride	ND ND	ug/L ug/L	1	0.43	1.4	A STATE OF THE PARTY OF THE PAR
Vachtylene chloride Vachthalene	ND ND	ug/L ug/L	1	0.43	1.3	
	ND ND	ug/L ug/L	1	0.39	1.1	and the state of t
-Propylbenzene	ND ND	ug/L ug/L	1	0.27	0.89	
rtho-Xylene	ND ND	ug/L ug/L	1	0.27	1.1	
Styrene	ND ND		1	0.32	0.94	
,1,1,2-Tetrachloroethane	ND ND	ug/L ug/L	1	0.28	1.1	Manyanana - Ma
,1,2,2-Tetrachloroethane	ND ND		1	0.33	1.0	manager
Tetrachloroethene	ND ND	ug/L	1	0.31		
Toluene	ND ND	ug/L	1	0.34	1.1 1.2	
1,2,3-Trichlorobenzene	ND ND	ug/L	1		1.2	
1,2,4-Trichlorobenzene		ug/L		0.37		Market 11 Line Control of the Contro
1,1,1-Trichloroethane	ND ND	ug/L	1	0.27	0.88	
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4	

ANALYTICAL RESULTS: VOC 8021 list by GC/MS - Water - (Saturn 2000) ring Company Inc NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313947 AP-4	Collected: 07/01/03	Ana	lyzed: 07	7/02/03		
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	The second of the second secon
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	101%					
Toluene-d8 (SURR**)	97%					
1-Bromo-4-Fluorobenzene (SURR**)	97%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003

Sample: 313948 Trip Blank	Collected: 0	7/01/03	Analyz	ed: 07/02/0)3	
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Benzene	ND	ug/L	1	0.29	0.97	
Bromobenzene	ND	ug/L	1	0.10	0.37	
Bromochloromethane	ND	ug/L	1	0.27	0.89	
Bromodichloromethane	ND	ug/L	1	0.32	1.1	
Bromoform	ND	ug/L	1	0.28	0.92	
Bromomethane	ND	ug/L	1	0.39	1.3	
n-Butylbenzene	ND	ug/L	1	0.31	1.0	
sec-Butylbenzene	ND	ug/L	1	0.33	1.1	
tert-Butylbenzene	ND	ug/L	1	0.31	1.0	
Carbon Tetrachloride	ND	ug/L	1	0.30	0.98	
Chlorobenzene	ND	ug/L	1	0.21	0.70	
Chloroethane	ND	ug/L	1	1.7	5.7	
Chloroform	ND	ug/L	1	0.30	0.99	
Chloromethane	ND	ug/L	1	0.24	0.75	
2-Chlorotoluene	ND	ug/L	1	0.39	1.3	
1-Chlorotoluene	ND	ug/L	1	0.37	1.2	
Dibromochloromethane	ND	ug/L	1	0.29	0.97	
,2-Dibromo-3-Chloropropane	ND	ug/L	1	0.33	1.1	
,2-Dibromoethane	ND	ug/L	1	0.30	1.0	
Dibromomethane Dibromomethane	ND	ug/L	1	0.32	1.1	
,2-Dichlorobenzene	ND	ug/L	1	0.28	0.93	
,3-Dichlorobenzene	ND	ug/L	1	0.24	0.79	
.4-Dichlorobenzene	ND	ug/L	1	0.23	0.78	
)ichlorodifluoromethane	ND	ug/L	1	0.18	0.63	
.1-Dichloroethane	ND	ug/L	1	0.30	0.99	
,2-Dichloroethane	ND	ug/L	1	0.34	1.1	
.1-Dichloroethene	ND	ug/L	1	0.41	1.4	
is-1,2-Dichloroethene	ND	ug/L	1	0.40	1.3	
rans-1,2-Dichloroethene	ND	ug/L	1	0.35	1.2	
,2-Dichloropropane	ND	ug/L	1	0.35	1.2	
,3-Dichloropropane	ND	ug/L	1	0.34	1.1	
2,2-Dichloropropane	ND	ug/L	1	0.44	1.5	
1,1-Dichloropropene	ND	ug/L	1	0.32	1.1	
is-1,3-Dichloropropene	ND	ug/L	1	0.27	0.89	
trans-1,3-Dichloropropene	ND	ug/L	1	0.32	1.1	
thylbenzene	ND	ug/L	1	0.26	0.87	
-lexachlorobutadiene	ND	ug/L	1	0.41	1.4	
sopropylbenzene	ND	ug/L	1	0.36	1.2	
o-Isopropyltoluene	ND	ug/L	1	0.30	1.0	
Methylene chloride	ND	ug/L	1	0.43	1.4	
laphthalene	ND	ug/L	1	0.39	1.3	
-Propylbenzene	ND	ug/L	1	0.34	1.1	
rtho-Xylene	ND	ug/L	1	0.27	0.89	
Styrene	ND	ug/L	1	0.32	1.1	
.1.1.2-Tetrachloroethane	ND	ug/L	1	0.28	0.94	
1,2,2-Tetrachloroethane	ND	ug/L	1	0.33	1.1	
etrachloroethene	ND	ug/L	1	0.31	1.0	
Foluene	ND	ug/L	1	0.34	1.1	
I.2.3-Trichlorobenzene	ND	ug/L	1	0.36	1.2	
.2.4-Trichlorobenzene	ND	ug/L	1	0.37	1.2	
1,1,1-Trichloroethane	ND	ug/L	1	0.27	0.88	
1,1,2-Trichloroethane	ND	ug/L	1	0.42	1.4	

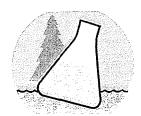
NLS Project: 74773

Customer: Cooper Engineering Company Inc Project Description: Spooner - DNR Wells Project Title: 03373003 Template: SATW8021 Printed: 07/03/2003 09:24

Sample: 313948 Trip Blank	Collected: (Collected: 07/01/03		ed: 07/02/0)3	<u> </u>
ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	
Trichloroethene	ND	ug/L	1	0.25	0.82	
Trichlorofluoromethane	ND	ug/L	1	0.38	1.3	
1,2,3-Trichloropropane	ND	ug/L	1	0.44	1.5	
1,2,4-Trimethylbenzene	ND	ug/L	1	0.31	1.0	
1,3,5-Trimethylbenzene	ND	ug/L	1	0.39	1.3	
Vinyl chloride	ND	ug/L	1	0.11	0.38	
meta,para-Xylene	ND	ug/L	1	0.62	2.1	
MTBE	ND	ug/L	1	0.31	1.0	
Isopropyl Ether	ND	ug/L	1	0.35	1.2	
Dibromofluoromethane (SURR**)	103%					
Toluene-d8 (SURR**)	100%					
1-Bromo-4-Fluorobenzene (SURR**)	99%					

^{**} Surrogates are used to evaluate a method's Quality Control.

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NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

400 North Lake Avenue • Crandon, WI 54520-1298 Tel: (715) 478-2777 • Fax: (715) 478-3060

NO. 104199

SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD Underground Storage Tank Projects Wisconsin Lab Cert. No. 721026460

	FORM WITH SAMPLES.								ENTER (OTHER I	PARAM	ETERS	-CHECK	BELOW	IF FIELD I
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313942	ED-IA	2:00 G	W			$x \perp$									
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SAMPLE TYPE	GW=groundwater, WW=waste water, DW=		EASE	- nv	1000	<u> </u>		V 6	~~						
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- 1. TO MEET REGULATORY REQUIREMENTS, THIS FORM MUST BE COMPLETED IN DETAIL AND INCLUDED IN THE SHIPPER CONTAINING THE SAMPLES DESCRIBED.
- 2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE.
- 3. RETURN THIS FORM WITH SAMPLES CLIENT MAY KEEP PINK COPY.

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