Department of Natural Resources

02.64-000068

ENVIRONMENTAL REPAIR PROGRAM CASE TRACKING FORM FOR VER. 5 2.3 Form 4400-150

ing 1.00 8_68	re-scored-
1.008_68	due to S. W. contamination 3/1/93
District: NCD County: Vilas Co Site Name: C. M. Christiansen # 1 14 Mile NE of HWY 17 on HWY E Address: Phelps WI 54554 Legal Municipality: TV C Date of Discovery: 8 1 19 1 87	Case No.: \$70072314 Case No.: \$70072314 FID: Proj. Mgr: \$RP Support Person: Legal Desc: \$21/4 \$\omega\$ 1/4 Sec \$35\$, \$\text{T} \frac{42N}{2N} \text{R} \frac{11}{2N} \text{EMV} Lat: N
PRIORITY SCREENING: FUNDING SOURCE: X 1 = High X 1 = RP 3 = Low 2 = LTF 4 = Unknown 3 = BF 4 = SF PRE-SCORE 5 = None 6 = Other (Describe In Common Tensor Resp. 7 = EPA Emergency Resp.	ENFORCEMENT AUTHORITY: 1 = Spill Law s. 144.76, Wis. Stats. 2 = Envir Repair Law s. 144.442, Wis. Stats. 3 = Hazardous Waste Rules NR 600 Series 4 = Solid Waste Rules NR 500 Series 5 = CERCLA 6 = Abandoned Container s. 144.77, Wis. Stat. 7 = Other (Describe in Comments)
PROGRAMS INVOLVED: (L - LEAD S - SUPPOR NR 500 Solid W Spills NR 600 Hazardous Waste Superfund	•
RESPONSIBLE PARTY: Business Name: C.M. Christiansen Owner/Mgr.: P.C. Christiansen Address: P.O. Box 100 Phelps WI Phone: 715 1 545-2333 Contact Person:	Business Name: Owner/Mgr.: Address: Phone: / Contact Person:
KNOW No Threat Fire/Explosion threat (1) Contaminated Private Well (2) Contaminated Public Well (3) Groundwater Contamination (4) Soil Contamination (5) Direct Contact (10) Contaminated Surface Water (7) Contaminated Air (8) Other (6)	N IMPACTS (X) POTENTIAL IMPACTS (X)
CONSULTANT INFORMATION: Company: White Wafe Assoc. Contact Person: Address: L.D. Box 27 Amasa MT 49907 Phone: 906 1 822 - 7889 List additional on separate sheet & attach)	Company: Contact Person: Address: Phone:

78113	RECOVERED		STORED	DISPOSED	DISPOSAL	
39508						
			RP CASE	STATUS		
x as appropriate)	OATE INITATED (MM Y		DATE VPLETED (YY)		COMMENT	s
NO ACTION TAKEN EMERGENCY WORK PLAN APP FIELD INVEST I II REM DESIGN REM ACTION I O & M I REM ACTION II O & M I LONG TERM MONT ENFORCEMENT			- /		TIONAL)	
CONSULTANT		CONTRACT ORDER I	PURCHASE NUMBER	CONTRACT	AMOUNT PAID TO DATE	LAST INVOICE APPROVED DATE
· • •	·	•	\$_			//
.•			\$ \$ \$		-\$!!!

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I. A	GRO	UNDWATER ROUTE WORKSHEE				0-7
Rating Factor		Assigned Value (circle one)	Multiplier	Soore	Max. Score	Ref. Section
(1) Observed Release If observed release is given a score of 4:	o, proceed to line (4)	0 (45)		(45)	46	sub. (1)
If observed release is given a score of 0.	proceed to line (2).					1 (0)
(2) Route Characteristics		0 1 2 3	2		6	sub. (2)
Depth to Groundwater Infiltration Potential		0 1 2 3	Ī		3	
Permeability of the Unsaturated Zone		0 1 2 3 0 1 2 3	1 1		3	
Physical State		Total Route Characteristics Score			Ĭ	
(3) Containment (4) Waste Characteristics		0 1 2 3		^	3	sub. (3) sub. (4)
(4) Waste Characteristics Toxicity/Persistence		0 3 6 9 12 15 18	1	12	18	(-)
Leachaie Strength Waste Quantity/Hazardous Waste Qua	entity	0 2 4 6 8 10 0 1 2 3 4 5 6 7 8	1	2	10 8	
		Total Waste Characteristics Score		(14)	Ž6	, , , ; ;
(5) Potential Impacts Groundwater Use		0 1(2)3	3	6	9	sub. (5)
Distance to Nearest		0 4 6 8 10	_			
Well/Population Served		12 16 18 20 24 30 32 35 38 40	1	30	40	•
		Total Potential Impacts	((36)	49	
(6) If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4)	o) (X (5)		22	680 -	57,330	
(7) Divide line (6) by 57,330 and multiply	by 100	OF WATER POLITE WORKSTIFF		6	7.56	
П.	SURFA	CE WATER ROUTE WORKSHEET	•		·	Ref.
Rating Factor		Assigned Value (circle one)	Multiplie	T Scor	eMax. Score	Section (1)
(1) Observed Release If observed release is given a score of 4:	o, proceed to line (4).	0 (45 1)	I.	(45)) 45	sub. (1)
If observed release is given a score of 0	proceed to line (2).					1 (2)
(2) Route Characteristics Facility Slope and Intervening Terrain	1	0 1 2 3	1		3	sub. (2)
Run-off Potential		0 1 2 3	1		3	
Distance to Nearest Surface Water Physical State		0 1 2 3 0 1 2 3	1		3	
		Total Route Characteristics Score 0 1 2 3			15	sub. (3)
(3) Containment (4) Waste Characteristics			<u> </u>	1.7		sub. (4)
Toxicity/Persistence		0 3 6 9 (12) 15 18 0 2 4 6 8 10	1	12	18 10	
Leachate Strength Hazardous Waste Quantity/Total Was	te Quantity	0 1(2'3 4 5 6 7 8	1	2	8	
		Total Waste Characteristics Score		(14)	26	sub. (5)
(5) Potential Impacts Surface Water Use		0 1 (2)3	3	6	9	Suo. (3)
Distance to a Sensitive Environment		0 1 2 3 0 1 2 3 0 4 6 8 10	2	6	6 4 0	
Population Served/ Distance to Water		12 16 18 20	1		40	
Intake Downstream		24 30 32 35 40 Total Potential Impacts			55	
(6) If line (1) is 45, multiply (1) X (4) X (5)	Total Fotential Impacts		(2)		
If line (1) is 0, multiply (2) X (3) X (4) X (5)		•	7560 -	64,350	
Divide line (6) by 64,350 and multiply	by 100	AIR ROUTE WORKSHEET		35W = //	.75	
						Ref.
Rating Factor (1) Observed Release		Assigned Value (circle one) (0) 45	Multiplier 1	Score	Max. Score 45	Section - sub. (1)
Date and Location:						
Sampling Procedures: If line (1) is 0, then $S_a = 0$, Enter on li	ne (5).					
If line (1) is 45, then proceed to line (2					···	aub (2)
(2) Waste Characteristics Reactivity and Incompatibility		0 1 2 3	1		3	sub. (2)
Toxicity Hazardous Waste Quantilty/Total Wa	ata Ossantitu	0 1 2 3	3		9 8	
	are Analuta	0 1 2 3 4 5 6 7 8 Total Route Characteristics Score			20	
(3) Potential Impacts Population Within 4-Mile Radius		0 9 12 15 18 21 24 27 30	1		30	sub. (3)
Distance to Sensitive Environment		0 1 2 3	2		6	
Land Use		0 1 2 3 Total Potential Impact Score	1		3	
(4) Multiply (1) X (2) X (3) (5) Divide line (4) by 35,100 and multiply		Tomi i owniai mipaci ocore		A.U	35,100	
(5) Divide line (4) by 35,100 and multiply	by 100 2 05			S # = 0		
$S_{M} = 1 \qquad (S_{gw}^{2} + S_{sw}^{2})$	+ S _a)	1 00000 00	0			
1.73		SCORE 23	· <u> </u>			
where: Sgw = groundwate S sw = surface wate	r route score er route score	•	•	D	ont of Manuel	Dasaurea
S_a = air route see				Form 44	ent of Natural 00-	Acsources

Site or Facility Name: C.M. Christiansen #1B

Location: Phelps, Vilas Co. SE SW Sec 35 T42N R11E

DNR District: NCD

Person(s) in charge of the site or facility:

Name of Reviewer: Joan Loduha Date: March 1, 1993

General description of the site or facility:

(For example: landfill, surface impoundment, waste pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Re-Scored 3/1/93 due to lab results showing surface water contamination.

C.M. Christiansen Co. operated a pole-dipping business where telephone poles were treated in wood preservative. The solution was 5% PCP in a carrier of AMOCO #2 fuel oil. The site is approximately 120 feet from stream and wetland area. This operation was from 1954 - 1978.

A spill was reported by an anonymous caller. The material appears to be some type of solvent or paint. Unknown VOCs. 31 Drums were found by WDNR. There was leaking containers. Date of incident was 8/29/89. Detects of benzene, ethylbenzene, Methlethylhetone, Toluene, xylenes, lubricating oil. Soil beneat drum S-23 may contain compounds listed below according to computer identification from gas chromatography/mass spectroscopy analysis: acetone, naptilalene, methyl naphthalenes. Phelps has a population of 1200 people. Soil consists of thin lenses of sand & gravel within ore beneath till or clay. Area is mostly rolling ground moraine but includes one area of hilly moraine.

SCORES: Sm = 23.85 (Sgw = 39.56 Ssw = 11.75 Sa = 0)

EF COVER SHEET

WORKSHEET FOR COMPUTING THE MIGRATION SCORE, Sm

	<u> </u>	<u>S²</u>
GROUNDWATER ROUTE SCORE (Sgw)		
	39,56	1564.99
SURFACE WATER ROUTE SCORE (Sgw)		
	11.75	138.06
AIR ROUTE SCORE (Sa)		
		0
Sgw ² + Ssw ² + Sa ²		
	and the second s	1703.05
$(Sgw^2 + Ssw^2 + Sa^2)^{0.5}$		
		41.26802636
$(Sgw^2 + Ssw^2 + Sa^2)^{0.5} / 1.73$	Sm =	23.85

WISCONSIN ENVIRONMENTAL FUNDING REFERENCE SUMMARY

Site or Facility Name: C.M. C	hristiansen #1	
Location: City Phelps	County <u>Vilas</u>	DNR District NCd
Reference Identification Number	Description of R	eference
#1	WDNR Spill File	Rhinelander & Wausau
<u>#2</u>	<u>Quadrangel TOPO</u>	map Phelps, WI
#3	Water Resources	of WI Upper Wi River Basin
#4	Public Water Su	pply Book 1985
<u>#5</u>	State Lab of Hyg	iene (surface water info)
The Control of Page 1 to 19 to		

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#4 of 4 on 01/27/93, unseen)

Id: 643403 Point/Well/..: Field #: G-4-92 Route: WR70

Collection Date: 09/28/92 Time: 11:40 County: 64 (Vilas)

From: MILITARY CREEK, 100 FEET ABOVE CONFLUENCE WITH N. TWIN LAKE - BELOW

Description: WATERBODY 1623900

To: LINDA TALBOT

WR/2 Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW
Date Received: 11/18/92 Labslip #: OD001746 Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL <0.10 UG/G, DRY 2,4,5-TRICHLOROPHENOL <0.10 UG/G, DRY PENTACHLOROPHENOL (PCP) + 0.03 UG/G, DRY PHENOLS EXTRACTION/DERIVATIZATION C

TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD + 13700. UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#1 of 4 on 01/27/93, unseen)

Id: 643404 Point/Well/..: Field #: G-3-92 Route: WR70

Collection Date: 09/28/92 Time: 11:05 County: 64 (Vilas)

From: MILITARY CREEK, DOWNSTREAM OF HWY E BELOW POLE YD., DRYING AREA

Description: EAST SIDE OF STREAM - IMPACT SAMPLE

To: LINDA TALBOT

WR/2 Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW
Date Received: 11/18/92 Labslip #: OD001743 Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL <0.10 UG/G, DRY 2,4,5-TRICHLOROPHENOL <0.10 UG/G, DRY PENTACHLOROPHENOL (PCP) + 0.64 UG/G, DRY PHENOLS EXTRACTION/DERIVATIZATION TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD + 126000. UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#2 of 4 on 01/27/93, unseen)

Id: 643405 Point/Well/..: Field #: G-2-92 Route: WR70

Collection Date: 09/28/92 Time: 10:20 County: 64 (Vilas)

From: MILITARY CR, DOWNSTREAM OF FOOTBRIDGE BELOW POLE YD DRYING AREA

Description: NORTHSIDE OF CREEK ABOVE HWY E - IMPACT SAMPLE

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW

Date Received: 11/18/92 Labslip #: OD001744 Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL <0.10 UG/G, DRY
2,4,5-TRICHLOROPHENOL <0.10 UG/G, DRY
PENTACHLOROPHENOL (PCP) + 0.05 UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION C
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD + 11400. UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

State Laboratory of Hygiene

University of Wisconsin Center for Health Sciences

465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#3 of 4 on 01/27/93, unseen)

Id: 643406 Field #: G-1-92 Route: WR70 Point/Well/..:

Collection Date: 09/28/92 Time: 10:00 County: 64 (Vilas) From: MILITARY CR, UP GRADIENT OF POLE YD. DRYING AREA

Description: NATURAL BACKGROUND SAMPLE - SOUTHSIDE OF STREAM

To: LINDA TALBOT

WR/2 Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW
Date Received: 11/18/92 Labslip #: OD001745 Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL	<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL	<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	<0.02	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION	С	

TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD + 224000. UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

Amont of Natural Resources

ENVIRONMEN REPAIR PROGRAM CASE TRACK FORM FOR VER. 5 2.1 Form 4400-150

Form 400-150 Re secred due to

0. 8 <u>206</u>	Surface Water Contamination 3-1-93
	0
istrict: NCD County: Vilas Co.	Case No.: 8908 20 C PMN:
ile Name: C.M. Christiansen #D	FID:
14 Mile NE OF Hay 17 E	Proj. Mgr:
odiess: Phelps WI 54554	Support Person:
egal Municipality:	Legal Desc: SE1/4 SW 1/4 Sec 35, T 42N R /1 (E)N
TV C	Lat: N Long: W
ate of Discovery: 081 89 1 89	Date of RP Contact://
RIORITY SCREENING: FUNDING SOURCE:	ENFORCEMENT AUTHORITY:
$\times 1 = \text{High}$ $\times 1 = \text{RP}$	X 1 = Spill Law s. 144.76, Wis. Stats.
3 = Low 2 = LTF	2 = Envir Repair Law s. 144.442, Wis. Sus.
4 = Unknown 3 = EF	3 = Hazardous Waste Rules NR 600 Series
4 = SF	4 = Solid Waste Rules NR 500 Series
RE-SCORE 5 = None	5 . CERCLA
6 = Other (Describe In Comm	
22 · 40 _ 7 = EPA Emergency Resp.	7 = Other (Describe in Comments)
ROGRAMS INVOLVED: (L - LEAD S - SUPPOR	T)
Aban Containers NR 500 Solid W	
Lust Spills	Water Resources Mgt
NR 600 Hazardous Waste Superfund	Env. Repair
ESPONSIBLE PARTY:	
	Continue Name
usiness Name: C.M. Christiansen	Business Name:
wner/Mgr.: P.C. Christianse-	Owner/Mgr.: Address:
Phelas WI 54554	A001855.
The ps WI 54534	Phone: /
ontact Person:	Contact Person:
KNOW	N IMPACTS (X) POTENTIAL IMPACTS (X)
Threat	
e/Explosion threat (1)	
intaminated Private Well (2)	
ntaminated Public Well (3)	
oundwater Contamination (4)	
il Contamination (5)	<u>×</u>
ect Contact (10)	
ntaminated Surface Water (7)	X
ntaminated Air (8)	
her(6)	
INSULTANT INFORMATION:	
mpany: White Water Assoc.	Company:
ntact Person:	Contact Person:
diess: 7.0. /2x 27	Address:
Amasa, M = 49903	
one: 906 1 822 - 7889.	Phone: /
t additional on separate sheet & attach.)	

	RECOVERED	ATED STORED		DISPOSAL LOCATIO	STATE
s appropriate)	DATE	ERP CASE	STATUS		
	DATE INITATED (MM YY)	COMPLETED (MM YY)		COMMENTS	
NO ACTION TAKEN EMERGENCY WORK PLAN APP FIELD INVEST I II REM DESIGN REM ACTION I O & M I LONG TERM MONT ENFORCEMENT	8/89 9/89 9/89 	LEAD CONSUL		IONAL)	
NSULTANT	CON	TRACT/PURCHASI ORDER NUMBER	E CONTRACT AMOUNT		INVOICE VED DATE
,			SS		/ / /
	-				/ _ / _ / _
	-	•	\$ \$ \$!

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Ī.	To be used with	ROUNDWATER ROUTE WORKSHI	ET			- K /
Ratir	ng Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Sectio
(1)	Observed Release	(0) 45	1		45	sub. (
	If observed release is given a score of 45, proceed to line If observed release is given a score of 0, proceed to line ((<i>4).</i> 2)				
(2)	Route Characteristics	<i>~</i>				sub. (
\- /	Depth to Groundwater	0 1 2(3)	2	چا	6	
	Infiltration Potential	0 1 2 3	1	3	3	
	Permeability of the Unsaturated Zone	0 1(2)3 0 1 2(3)	1	এলকত	3	
	Physical State	Total Route Characteristics Sco	re	(14)	<u> 3</u>	
(3)	Containment	0 1 2 3	1	3) 3	sub. (
(4)	Waste Characteristics	2 2 4 2 2 2 2 2 2		12		sub. (4
	Toxicity/Persistence	0 3 6 9 12 15 18 0 2 4 6 8 10	1	10	18	
	Leachate Strength Waste Quantity/Hazardous Waste Quantity	0 1(2)3 4 5 6 7 8	. 1	-2	10 8	
	11 250 Quality/11 22 20 20 11 12 12 12 13 1	Total Waste Characteristics Sco	re	(14)	26	
(5)	Potential Impacts	• • •	_	$\overline{}$	_	sub. (5
	Groundwater Use	0 1 (2 3	3	2	9	
	Distance to Nearest Well/Population	0 4 6 8 10 12 16 18 20 24	1		40	
	Served	30 32 35 38 40	1	30	40	
		Total Potential Impacts		(32)) 49	
(6)	If line (1) is 45, multiply (1) X (4) X (5)			2116		
~	If line (1) is 0, multiply (2) X (3) X (4) X (5) Divide line (6) by 57,330 and multiply by 100			21168 =	57,330	
(7) II.	SUI	RFACE WATER ROUTE WORKSHE	ET	$S_{gw} = 3$	6.92	
			•			Ref.
	ng Factor	Assigned Value (circle one)	Multipli		reMax. Score	Section
(1)	Observed Release If observed release is given a score of 45, proceed to line	(4).	1	45) 45	sub. (1
	If observed release is given a score of 0, proceed to line (2).				
(2)	Route Characteristics					sub. (2
• •	Facility Slope and Intervening Terrain	0 1 2 3	1		3	
	Run-off Potential	0 1 2 3	1		3	
	Distance to Nearest Surface Water Physical State	0 1 2 3 0 1 2 3	1		6 3	•
	I hysical State	Total Route Characteristics Sco	те		15	
(3)	Containment	0 1 2 3	1		3	sub. (3
(4)	Waste Characteristics	0.2 (0.62) (5.18	•	12	40	sub. (4
	Toxicity/Persistence	0 3 6 9 12 15 18 0 2 4 6 8 10	1	12	18 10	
	Leachate Strength Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
	Trazardous Waste Quality/Total Waste Quality	Total Waste Characteristics Sco	re	(14)	26	
(5)	Potential Impacts	60	_		_	sub. (5
	Surface Water Use Distance to a Sensitive Environment	0 1 (2)3 0 1 2 (3)	3 2	6	9 6	
	Population Served/	0 4 6 8 10	1	0	40	
	Distance to Water	12 16 18 20	•		70	
	Intake Downstream	24 30 32 35 40				
		Total Potential Impacts		(12)	55	
(6)	If line (1) is 45, multiply (1) X (4) X (5)			7610	1	
(A)	If line (1) is 0, multiply (2) X (3) X (4) X (5) Divide line (6) by 64,350 and multiply by 100			$\frac{7560}{\text{Ssw}} =$	64,350	
<u>R</u>	and (0) 0) 04000 and manuply by 100	AIR ROUTE WORKSHEET		~5W =	11.75	
D	P					Ref.
Ratir	ng Factor Observed Release	Assigned Value (circle one)	Multiplier	Score	Max. Score	Section
<u>`-/</u>	Date and Location:	0 45			45	sub. (
	Sampling Procedures:		· · · · · · · · · · · · · · · · · · ·			
	If line (1) is 0, then $S_a = 0$, Enter on line (5).					
~	If line (1) is 45, then proceed to line (2).					
(2)	Waste Characteristics Reactivity and Incompatibility	0 1 2 2	•		^	sub. (2
	Toxicity	0 1 2 3 0 1 2 3	3		3 9	
	Hazardous Waste Quantilty/Total Waste Quantity	0 1 2 3 4 5 6 7 8	ĩ		8	
<u> </u>	-	Total Route Characteristics Sco	re		20	
(3)	Potential Impacts Population Within 4-Mile Radius	0.0.10.10.10.10.10.10.10.10.10.10.10.10.	•		~	sub. (3
	Distance to Sensitive Environment	0 9 12 15 18 21 24 27 30 0 1 2 3	1 1		30 6	
	Land Use	0 1 2 3	í		3	
7.8		Total Potential Impact Score			39	
(4)	Multiply (1) X (2) X (3) Divide line (4) by 35,100 and multiply by 100			A # =	35,100	
J	Divide this (4) by 33,100 and multiply by 100			S = 0		
	$S_{M} = 1 \left(S_{gw}^{2} + S_{sw}^{2} + S_{a}^{2}\right)^{0.5}$	•		_		
	1.73	SCORE <i></i>	40			
	where: Sgw = groundwater route score	<u> </u>	_·			
	5 sw = surface water route score			D	ant of Messell	D
	S_a = air route score			Form 44	nent of Natural 400-	nesoure

ERP MIGRATION SCORE

Site or Facility Name: C.M. Christiansen #2 (barrels)

Location: 1/4 Mile NE of Hwy 17 on Hwy E, Phelps, WI 54554

DNR District: NCD

Person(s) in charge of the site or facility: P.C. Christiansen, P.O. Box 100,

Phelps, WI 54554 (715) 545-2333

Name of Reviewer: Joan Loduha Date: March 1, 1993

General description of the site or facility:

(For example: landfill, surface impoundment, waste pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Re-scored 3/1/93 due to information of surface water contamination.

On Aug. 29, 1989 an anonymous caller complains of drums spillage. DNR employees inspect on Aug. 31, 1989. 33 unlabeled drums were found. Some drums containing liquid were observed as damaged, rusted and leaking. Letter sent to Christiansen to secure area, sample and repack drums and store in a safe location until disposal. Also requests additional site study and if necessary, remediation. On Sept. 19, 1989 DNR sampled. On Oct. 11, 1989 DNR request Christiansen to hire consultant and study site. White Water Assoc. tests all barrels; found two compounds, these two being stain and varnish. Tested for total VOCs, PCBs and EP tox metals. Detects of: Methylene chloride, Ethylbenzene, Toluene, m-xylene, O & P xylene and lead.

Site is approximately 120 feet from stream and wetland area.

Phelps population = 1200.

Per water resources of Upper WI River Basin: Thin lenses of sand and gravel within are beneath till or clay. Area is mostly rolling ground moraine but includes one area of hilly terrain.

SCORES: Sm = 22.40 (Sgw = 36.92 Ssw = 11.75 Sa = 0)

EF COVER SHEET

WORKSHEET FOR COMPUTING THE MIGRATION SCORE, Sm

		<u>S²</u>
GROUNDWATER ROUTE SCORE (Sgw)		
	36.92	1363.09
SURFACE WATER ROUTE SCORE (Sgw)		
	11.75	138.96
AIR ROUTE SCORE (Sa)		
	0	
Sgw ² + Ssw ² + Sa ²		
		1501.15
$(Sgw^2 + Ssw^2 + Sa^2)^{0.5}$		
	38.74467705	
$(Sgw^2 + Ssw^2 + Sa^2)^{0.5} / 1.73$	Sm =	22.40

WISCONSIN ENVIRONMENTAL FUNDING REFERENCE SUMMARY

Site or Facility Name:	C.M. C	nristian:	sen #2	
Location: City Phelps		County	Vilas	DNR District NCD
Reference		_		n 6
Identification Number		Desc	ription of	Reference
<u>#</u> 1		WDNR	Rhinelande	r & Wausau Files
<u>#2</u>		Quad	TOPO Map F	helps
<u>#</u> 3		Popu	lation list	of Recycling Grants 7/90
#4		Stat	e Natural A	reas by County
<u>#</u> 5		Chap	ter NR 26 F	ish Refuges
<u>#</u> 6		Wate	r Resources	of WI Upper WI River Basin
<u>#</u> 7		Stat	e Lab of Hy	giene (Surface Water Info)

Sta Laboratory of Hygiene University of Wisconsin Center for Health Sciences

465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#4 of 4 on 01/27/93, unseen)

Field #: G-4-92 Route: WR70 Point/Well/..:

Collection Date: 09/28/92 Time: 11:40 County: 64 (Vilas)

From: MILITARY CREEK, 100 FEET ABOVE CONFLUENCE WITH N. TWIN LAKE - BELOW

Description: WATERBODY 1623900

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW
Date Received: 11/18/92 Labslip #: OD001746 Reported: 01/26/93 ______

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL	<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL	<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	+ 0.03	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION	С	• •
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD	+ 13700.	UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

Stat Laboratory of Hygiene
University of Wisconsin Center for Health Sciences
465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#1 of 4 on 01/27/93, unseen)

Id: 643404 Point/Well/..: Field #: G-3-92 Route: WR70

Collection Date: 09/28/92 Time: 11:05 County: 64 (Vilas)

From: MILITARY CREEK, DOWNSTREAM OF HWY E BELOW POLE YD., DRYING AREA

Description: EAST SIDE OF STREAM - IMPACT SAMPLE

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW

Date Received: 11/18/92 Labslip #: 0D001743 Reported: 01/26/93

--- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL <0.10 UG/G, DRY
2,4,5-TRICHLOROPHENOL <0.10 UG/G, DRY
PENTACHLOROPHENOL (PCP) + 0.64 UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION C
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD + 126000. UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

Stee Laboratory of Hygiene University of Wisconsin Center for Health Sciences 465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#2 of 4 on 01/27/93, unseen)

Id: 643405 Point/Well/..: Field #: G-2-92 Route: WR70

Collection Date: 09/28/92 Time: 10:20 County: 64 (Vilas)

From: MILITARY CR, DOWNSTREAM OF FOOTBRIDGE BELOW POLE YD DRYING AREA

Description: NORTHSIDE OF CREEK ABOVE HWY E - IMPACT SAMPLE

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW

Date Received: 11/18/92 Labslip #: OD001744 Reported: 01/26/93

--- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL		<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL		<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	+	0.05	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION		С	
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD	+	11400.	UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.

University of Wisconsin Center for Health Sciences

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790 Organic chemistry (#3 of 4 on 01/27/93, unseen)

Field #: G-1-92 Route: WR70 Id: 643406 Point/Well/..:

Collection Date: 09/28/92 Time: 10:00 County: 64 (Vilas) From: MILITARY CR, UP GRADIENT OF POLE YD. DRYING AREA

Description: NATURAL BACKGROUND SAMPLE - SOUTHSIDE OF STREAM

To: LINDA TALBOT

WR/2 Source: Sediment

MADISON, WI

Account number: WR166 Collected by: JIM KREITLOW
Date Received: 11/18/92 Labslip #: OD001745 Reported: 01/26/93

test: CHLOROPHENOLS IN SOILS - 1540		
2,4,6-TRICHLOROPHENOL	<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL	<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	<0.02	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION	С	
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD	+ 224000.	UG/G, DRY

⁻⁻⁻ Footnotes ---

^{+:} Positive results are prefixed by a plus sign.