WASHINGTON RANKING METHOD

ROUTE SCORES SUMMARY AND RANKING CALCULATION SHERT

Site name: Pacific Wood Treating	Region: Southwest
Street. city. county: 111 West Divis	STOIL, Ridgefield, CLARK
Ecology TCP ID: 5-06-00/3-000	-
This site was (X) ranked, () re-ranked, quintile values from a total of assess	
Route Quintile Pathway Score(s) Group number(s)	Priority scores:
	$H^{\pm} + 2M + L = \frac{25+10+3}{8} = \frac{38}{8} = 4,75 = 5$
Air-HH 2/.2 3	
GW-HH 60.8 5 GW-En 89.0 5 Air-En 39.9 5	$\frac{H^{\alpha} + 2L}{7} = \frac{25 + 10}{7} = \frac{35}{7} = \frac{5}{5}$
Use the matrix presented to the right, along with the two priority scores, to determine the site renking. N/A refers to where there is no applicable pathway.	Human Environment Health 6 4 3 2 1 N/A 6 1 1 1 1 1 1 1 1 2 2 2 3 3 2 3 1 2 3 4 4 3 2 2 2 3 4 4 6 3 1 2 3 4 5 6 5 N/A 3 4 5 6 5 NFA
DRAFT / FINAL	
Matrix ("bin") Renking: or CONFIDENCE LEVEL: The relative position o	No Further Action
almost into the next hright in the middle, ualmost into the next l	igher bin. nlikely to ever change.

Is\Wareccal Rev. 6/30/94

WORKSHEET 1 SUMMARY SCORE SHEET

Site Name/Location (Street, City, County, Section/Township/Range, TCP ID Number):

SHA # 96-01

PACIFIC WOOD TREATING, INC.

111 West Division, Ridgefield, 98642

CLARK COUNTY T4N,

T4N, R1W, Sec24, NW, NE

TCP ID: S-06-0013-000

EPA ID: WAD 009422411

Assessed by Thomas H. White, Southwest Washington Health District April, 1996

Site Description (Include management areas, substances of concern, and quantities):

Pacific Wood Treating (PWT) is a former wood treating facility that pressure treated wood with pentachlorophenol (PCP), copper chrome arsenic solutions, and creosote. The site, which occupies about 46 acres, was leased from the Port of Ridgefield, and operated from 1964 until 1993. The site is divided into 11 areas of concern. With the exception of Lake River/Carty Lake, the boundaries of the areas are based on historic activities within the area that may be potential sources of contamination. The 11 areas are:

- North Pole Yard
- South Pole Yard
- Pentachlorophenol Spill

Dry Well

- Surface Impoundment/ Solidification Unit
- Drainway//Storage Unit

- Retort/Drip Pad
- Tank Farm (Creosote) / Drainage System Retorts

- Tank Farm Drain
- Lake River/Carty Lake

Special Considerations (Include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site):

Numerous chemicals were found throughout the site above levels of concern in surface and subsurface soil, ground water and surface water. All the chemicals used in this assessment were found at levels above MTCA Method B values for the respective sample matrix.

The Surface Water Route was scored using the Lake River/Carty Lake area since data was obtained there from direct discharges (outfalls).

The Air Route was scored using the Drainage System area since it had the most soil data from samples less than 2 feet deep.

The **Ground Water Route** was scored using the data from the **Tank Farm/ Retort/Drip Pad** areas monitoring wells since these wells had the widest variety of different chemicals above the method B value.

ROUTE SCORES / (QUINTILES):

Surface Water/Human Health: 46.7 (5) Surface Water/Environ.: 89.0 (5)

Air/Human Health: 21.2 (3) Air/Environmental: 39.9 (5)

Ground Water/Human Health: 60.8 (5)

OVERALL RANK: 1

WORKSHEET 2 ROUTE DOCUMENTATION

1. SURFACE WATER ROUTE

List	those substances to be <u>considered</u> for scoring: Too numerous (9) to list.	Source:_	1
Expl	ain basis for choice of substance(s) to be <u>used</u> in scor See Special Considerations, page 1.	ing.	
List	those management units to be <u>considered</u> for scoring: See Special Considerations, page 1.	Source:_	_1_
Expla	ain basis for choice of unit to be <u>used</u> in scoring. See Special Considerations, page 1.	Source:_	1
2. 1	AIR ROUTE		
List	those substances to be <u>considered</u> for scoring: PCP, Arsenic, Berylium.	Source:_	1_
Expla	ain basis for choice of substance(s) to be <u>used</u> in score Lab results above Method B values from soil less than		p.
List	those management units to be <u>considered</u> for scoring: See Special Considerations, page 1.	Source:_	1_
Expla	ain basis for choice of unit to be <u>used</u> in scoring. See Special Considerations, page 1.	Source:_	1
3. 0	GROUND WATER ROUTE		
List	those substances to be <u>considered</u> for scoring: Too numeroius (15) to <u>list</u> .	Source:_	1
Expla	in basis for choice of substance(s) to be <u>used</u> in score. Those with most complete and highest toxicity values.	ing.	
List	those management units to be <u>considered</u> for scoring: Too numeroius (10) to list.	Source:	1_
Expla	in basis for choice of unit to be $used$ in scoring. See Special Considerations, page 2.	Source:_	1_

Note: Worksheet 3 not used; see Special Considerations, pages 1 & 2.

WORKSHEET 4 SURFACE WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1	Human	Toxi	city
1	Human	TOVT	\circ

	Drinkin Water Standar		Acute Toxicit	У	Chronic Toxicit		Carcir genici	
Substance 1. Areenic. 2.Benzow) pyrene 3) 3.Benzow) fluoranthen 4.Chrysene 0) 5.Fluoranthene 1) 6.Pentachlorophenol	(ug/1) V Pe	al. (6) 10 00 00 00 00 00 00 00 00 00 00 00 00	mg/kg-bw)	Val. 5 10 rd ND ND 3 ND	(mg/kg/day)	Val. 5 NO NO NO NO	WOE PF*	Va 7777 NO 4
*Potency Factor					+2 Bo	hest Va nus Po	urce: 4 alue: 10 (Max.=1) ints? 2 city Valu	
() I Ad	Treshwater Marine Cute Water Mality Cri	-		numan N	Mammalian Kicity	,		
Substance 1. Arsenic 2. B(a) p	(ug/1)	Value 4 ND ND ND		/kg)		rce: <u>4</u>	Value	: <u>[0</u> (Max,=
3)3. B(b)f)4. Chrysene d5. Fluoranthene)6. PCP		2 6						

WORKSHEET 4 (CONTINUED) SURFACE WATER ROUTE

2.0	MIGRATION POTENTIAL		
2.1	Containment Explain basis: Outfall samples with analytical laboratory results above 1970A Arthod B values were collected from direct discharges into Lake River.	Source: /	Value: (Max.=I0)
2.2	Surface Soil Permeability: piped to / adjacent to Su		
2.3	Total Annual Precipitation: 60.36 (3 yr; ave.) inches	Source:_7	Value: 4
2.4	Max. 2-Yr/24-hour Precipitation: 1.5-2.0 inches	Source: 6	Value:
2.5	Flood Plain: Class A - within 100 year	Source: 8	Value: 2
2.6	Terrain Slope: pipud / culverted	Source: 1,6,16	Value: 3
3.0	TARGETS		
3.1	Distance to Surface Water: Adjacent	Source:	Value: 10 (Max.=10)
3.2	Population Served within 2 miles (See WARM Scoring Manual Regarding Direction): $\sqrt{\text{pop.=}} = O$	Source: 9	Value : <i>O</i> (Max.=75)
3.3	Area Irrigated within 2 miles $0.75\sqrt{\text{no. acres}} = 78$ (Refer to note in 3.2.): $0.75\phantom{00000000000000000000000000000000000$	Source: 9	Value: 7
3.4	Distance to Nearest Fishery Resource: Adjacent	Source: 10	Value: $\frac{12}{(Max.=12)}$
3.5	Distance to, and Name(s) of, Nearest Sensitive Environment(s) Lake River - Adjacent Carty Lake - Adjacent Ridge Field National Wildlife Refuge - Adjacent	Source:_//	Value: /Z
4.0	RELEASE Explain basis for scoring a release to surface water: Outfall samples with analytical laboratory results above MTCA Method is values for Surface Water were rollected from direct discharges into Lake River.	Source:_/	Value: <u>5</u>
		te Score/Quint	
	CIII FNU. ROA	de Score/Quintil	e: 89.0/5

WORKSHEET 5 AIR ROUTE

Subs	stance	······································	Air Stand ug/m³)	ard	Acut Toxic (mg/m³)	city	(mg/	Chroni Toxici 'kg/day)	ty	g	arcin enici PF*	.ty
1.4	frseniC eryllium enbachloroph			10 10 9		NO NO NO		<u> </u>	ND ND ND			9 ND
		· - ·						TT *1		ce: //		
Pot	ency Fact	cor						Hignes	st Valı	1e: // (Max.	<u>()</u> =10)	
							nd 7	+2 Bonu	s Poin	ts?	2	
						ł	rinai	Toxici	cy var	ue: /: (Max.	=12)	
1	3 Mobi 1.3.1	Gasec Vapo:	ous Mok r Pres:	oility sure(s	to refe) (mmHg) 5= ;	: 1=			; Sour			
1		Vapor 3=/. Parti	ous Mod r Press <u>le⁻⁴; 4</u> : culate	oility sure(s = ; Mobil) (mmHg) 5= ;	: 1= 6=			; Sour	ce: <u>4</u> ue: <u>2</u> (Max.)	=4)	
1	1.3.1	Vapor 3=/2 Parti Soil Erod:	ous Mok r Press le"; 4= culate type: ibility	oility sure(s = ; Mobil Sauvi) (mmHg) 5= ;	: 1= 6=			Sour	ce: <u>4</u>	-4) /2	
	1.3.1	Vapor 3=/2 Parti Soil Erod: Clima	ous Mok r Press le ''; 4: culate type: ibility atic Fa	oility sure(s = ; e Mobi Sauv y:a actor:) (mmHg) 5= ; lity ie silt,	: 1= 6= /oqm	; 2	riv Valu	Source Value	ce: 4 ue: 2 ce: 6,1 ue: 1	<u>(12</u> =4)	
	1.3.1	Vapor 3=/. Parti Soil Erod: Clima	ous Mok r Press le ''; 4: culate type: ibility atic Fa	oility sure(s = ; e Mobi Sauv y: 4 actor:) (mmHg) 5= ; lity ie silt,	: 1= 6= /oqm	; 2	-	Source Value	ce: 4 ue: 2 ce: 6,1 ue: 1	<u>12</u> =4)	alue: /
1.4	1.3.1 1.3.2 Highest	Gased Vapor 3=6. Parti Soil Erod: Clima Human/2	ous Mok r Press le ⁻⁴ ; 4: culate type: ibility atic Fa	sure (see Mobile Sauvers) Sauvers The Mobile) (mmHg) 5= ; lity 2 silt; 37 t/a/j	: 1= 6= /oqm	; 2	riv Valu	Soure Soure Value (from Final	ce: 4 ue: 2 ce: 6,1 ue: 1	/ <u>/</u> //////////////////////////////////	'alue: /
1.4	1.3.1 1.3.2 Highest /2×2 = /	Gased Vapor 3=1. Parti Soil Erod: Clima Human /2	ous Moker Presset de 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	sure (s mathematical structure of the second structur) (mmHg) 5= ; lity 17 t/a/j icity/Mo obility Mammalia	: 1= 6= logn rr l-10 bility Table	; 2	rix Valu	Sour Value Value (from Source Source	ce: 4 ue: 2 ce: 6 ue: 1 om l Mati	/2 =4) rix V	Table A
1.4 1.5 Subs	1.3.1 1.3.2 Highest /2×2 = /	Gased Vapor 3=1. Parti Soil Erod: Clima Human /2	ous Moker Presset de 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	sure (s mathematical structure of the second structur) (mmHg) 5= ; lity 12 silt; 17 t/a/j icity/Mo	: 1= 6= logn rr l-10 bility Table	; 2 7 Mat. 2 A-7	rix Valu	Sour Value Value (from Source Source	ce: 4 ue: 2 ce: 6 ue: 1 om l Mati	/2 =4) rix V	Table A

WORKSHEET 5 (CONTINUED) AIR ROUTE

1.6	Substance Quantity: estimated approx. 3/3678 space feet. Explain basis:		Value:
	C.f. EPA Pocific West Treating Site Assessment Regart, March 29, 1986, page 40, 4.14 Source Area.		
2.0	MIGRATION POTENTIAL		
2.1	Containment: Drainage System discharge: surface soil containment over fixmed with analytical laboratory results. The surface overlying the drainage system is both paved and under vapor ablication system.	Source: 1	Value: 10 (Max.=10
3.0	TARGETS		
.1	Nearest Population: approx. 600 ft.	Source: <u>/3</u>	Value: / (Max.=10
.2	Distance to, and Name(s) of, Nearest Sensitive Environment(s) Rydyofield Wildlite Refuge Adjacen National	tSource: //	Value: 7
.3	Population within 0.5 miles: $\sqrt{\text{pop.}} = \sqrt{606} = 24.6$	Source: 2	Value: 25
.0	RELEASE		
	Explain basis for scoring a release to air: None documented.	Source:	Value: O
		\	
			i
	Air HH Route So	core/Quirtile:	21.2/3
	Air Env. Roube Sco	ne /Quintile:	39.9/5

WORKSHEET 6 GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance (ug/1) Val. (mg/kg-bw) Val. (mg/kg/day) Val. WOE PF' 5)1. Arsenic	Water Standard Toxicity Chronic Carcinogenicity Destance (ug/1) Val. (mg/kg-bw) Val. (mg/kg/day) Val. WOE PF' Val. (mg/kg-bw) Val. (m	1.1	numan loxici	сy						
1.2 Mobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=2. 1.3 Substance Quantity: approx. 290, 443 cabe yards contant, solutore: 2 Explain basis: Ch. F. A. Assessment Caken Iston in flut 5/fe Assessment Report, Lanch 29, 1996, page 41, 4,14, Source: 4, 6 Value: OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) Containment Explain basis: Ch. F. A. Assessment Caken Iston in flut 5/fe Assessment Report, Lanch 29, 1996, page 41, 4,14, Source: Area 2.0 MIGRATION POTENTIAL 2.1 Containment Explain basis: Soil and Ground Water Combann Inchion Canfirmed with analytical lawretary results. 2.2 Net Precipitation: 23, 2-26, 4 inches Source: 14 Value:	Appendix Senzence Sen			Water						
1.2 Mobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=2. 1.3 Substance Quantity: approx. 290, 443 cabe yards contant, solutore: 2 Explain basis: Ch. F. A. Assessment Caken Iston in flut 5/fe Assessment Report, Lanch 29, 1996, page 41, 4,14, Source: 4, 6 Value: OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) Containment Explain basis: Ch. F. A. Assessment Caken Iston in flut 5/fe Assessment Report, Lanch 29, 1996, page 41, 4,14, Source: Area 2.0 MIGRATION POTENTIAL 2.1 Containment Explain basis: Soil and Ground Water Combann Inchion Canfirmed with analytical lawretary results. 2.2 Net Precipitation: 23, 2-26, 4 inches Source: 14 Value:	Appendix Senzence Sen	Subs	stance	(ug/l) Val.	(ma/ka-by	v) Val.	(ma/ka/da	av) Val. W	DE PF*	۷a
23.3. Berzada pyrene (10 10 10 10 10 10 10 10 10 10 10 10 10 1	tency Factor tency Factor tency Factor Highest Value: 10 (MAXX.=10) +2 Bonus Points? 2 Final Toxicity Value: 1/4 (MAXX.) Mobility (Use numbers to refer to above listed substances) Cations/Apions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: 3 (MAXX.) OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Value: 3 (MAXX.) Explain basis: Cl. Ell Assessment calculation in flut 5/de Assessment Report Merch 29,1996, page 40, 4.14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Value: 1/4 (MAXX.) Continued with analytical laboratory results. Net Precipitation: 23,2-26,4 inches Source: 1/4 Value: 1/4 (MAXX.) Subsurface Hydraulic Conductivity: Moderately well Source: 1/4 Value: 1/4 (MAXX.) Vertical Depth to Ground Water: 0 feet Source: 1 Value: 8			6	\ <u>\</u>	<u> </u>	<u> </u>		==	
104. Maphthalene 105. Pantachlorophenol (PCP) 10	tency Factor tency Factor tency Factor Highest Value: 10 (MAXX.=10) +2 Bonus Points? 2 Final Toxicity Value: 1/4 (MAXX.) Mobility (Use numbers to refer to above listed substances) Cations/Apions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: 3 (MAXX.) OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Value: 3 (MAXX.) Explain basis: Cl. Ell Assessment calculation in flut 5/de Assessment Report Merch 29,1996, page 40, 4.14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Value: 1/4 (MAXX.) Continued with analytical laboratory results. Net Precipitation: 23,2-26,4 inches Source: 1/4 Value: 1/4 (MAXX.) Subsurface Hydraulic Conductivity: Moderately well Source: 1/4 Value: 1/4 (MAXX.) Vertical Depth to Ground Water: 0 feet Source: 1 Value: 8	(2.B)	enzene	.8		3				5
Source: / Potency Factor	tency Factor tency Factor tency Factor Highest Value: 10 (MAXX.=10) +2 Bonus Points? 2 Final Toxicity Value: 1/4 (MAXX.) Mobility (Use numbers to refer to above listed substances) Cations/Apions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: 3 (MAXX.) OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Value: 3 (MAXX.) Explain basis: Cl. Ell Assessment calculation in flut 5/de Assessment Report Merch 29,1996, page 40, 4.14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Value: 1/4 (MAXX.) Continued with analytical laboratory results. Net Precipitation: 23,2-26,4 inches Source: 1/4 Value: 1/4 (MAXX.) Subsurface Hydraulic Conductivity: Moderately well Source: 1/4 Value: 1/4 (MAXX.) Vertical Depth to Ground Water: 0 feet Source: 1 Value: 8				•	10				NI
*Potency Factor Highest Value: 10 10 10 10 10 10 10 10	tency Factor tency Factor tency Factor Highest Value: 10 (MAXX.=10) +2 Bonus Points? 2 Final Toxicity Value: 1/4 (MAXX.) Mobility (Use numbers to refer to above listed substances) Cations/Apions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: 3 (MAXX.) OR Solubility (mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Value: 3 (MAXX.) Explain basis: Cl. Ell Assessment calculation in flut 5/de Assessment Report Merch 29,1996, page 40, 4.14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Value: 1/4 (MAXX.) Continued with analytical laboratory results. Net Precipitation: 23,2-26,4 inches Source: 1/4 Value: 1/4 (MAXX.) Subsurface Hydraulic Conductivity: Moderately well Source: 1/4 Value: 1/4 (MAXX.) Vertical Depth to Ground Water: 0 feet Source: 1 Value: 8	1)4.1	apathalene	0) 10		ND		1		4
*Potency Factor *Potency Factor *Potency Factor *Potency Factor *Highest Value: *** *** *** *** *** *** *** *** *** *	Source: / Highest Value: (Max10)/ +2 Bonus Points? 2 Final Toxicity Value: / Source: 4,6 Value: / Value: / Value: / Final Toxicity (Max. On Final Day 1996, page 40, 4,14,	1/5.18	intachiorofuene ver	(E) (R)	•	5	.*	3		4
Potency Factor Highest Value: 10 (Max10) +2 Bonus Points? 2 Final Toxicity Value: 2 Final Toxicity Value: 3 Cations/Anions: 1= 3; 2= X; 3= X; 4= X; 5= X; Source: 4,6 Value: (Max10) OR Solubility(mg/l): 1= X; 2= 3; 3= 0; 4= l; 5= l; (Values) 6= 2. 1.3 Substance Quantity: 290, 443 cabic yards conton, soi Source: 2 Value: Explain basis: (M. Ef A Assessment Cakenfation in NWT Site Assessment Report, March 29, 1996, page 40, 4, 14, Source Area. 2.0 MIGRATION POTENTIAL 2.1 Containment Explain basis: Soil and Ground Value: Containment Containment Explain basis: Soil and Ground Value: (M. Containment Cont	Highest Value: RANKER TO POINTS ASSESSMENT REPORT LANGUAGE CONTINUED ASSESSMENT REPORT LANGUAGE CONTINUED ASSESSMENT REPORT LANGUAGE CONTINUED ASSESSMENT REPORT LANGUAGE CONTINUED CONTINUED ASSESSMENT REPORT LANGUAGE CONTINUED	7)0 · 18	tracy procurency ca	<i>L)</i>						
#2 Bonus Points?	Hobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: 3 (Values) 6=X. OR Solubility(mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=2. Substance Quantity: approx. 290, 443 cabic yards conton, soi Source: 2 Value: Explain basis: Cf. F.P.A. Assessment Calculation in PWT Site. Assessment Report, March 29, 1926, page 42, 4-14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Water Contourn results. Net Precipitation: 23,2-26.4 inches Source: 14 Value: Max. Subsurface Hydraulic Conductivity: Moderately well Source: 6/12 Value: Water Contour Source: 14 Value: Water Contour Source: 15 Value: Water Contour Source: 17 Value: Water Contour Source: 18 Value: Max. Vertical Depth to Ground Water: 0 feet Source: 1 Value: Water Contource: 18 Value: Max.			 			······································	Sou	cce: /	
#2 Bonus Points?	Hobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: 3 (Values) 6=X. OR Solubility(mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=2. Substance Quantity: approx. 290, 443 cabic yards conton, soi Source: 2 Value: Explain basis: Cf. F.P.A. Assessment Calculation in PWT Site. Assessment Report, March 29, 1926, page 42, 4-14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Water Contourn results. Net Precipitation: 23,2-26.4 inches Source: 14 Value: Max. Subsurface Hydraulic Conductivity: Moderately well Source: 6/12 Value: Water Contour Source: 14 Value: Water Contour Source: 15 Value: Water Contour Source: 17 Value: Water Contour Source: 18 Value: Max. Vertical Depth to Ground Water: 0 feet Source: 1 Value: Water Contource: 18 Value: Max.	*Pot	ency Factor				H	ighest Val	ue: 10	_ 0.\/
1.2 Mobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: (Values) 6=X. OR Solubility(mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=2. 1.3 Substance Quantity: apprex, 290, 443 cabic yards contain, soi Source: 2 Value: Explain basis: OF FFA Assessment Calculation in FWT 5 the Assessment Report, March 29 1996, page 40, 4,14, Source Area. 2.0 MIGRATION POTENTIAL 2.1 Containment Explain basis: Soil and Ground Value (March Confirmed with analytical laboratory results. 2.2 Net Precipitation: 23,2-26,4 inches Source: 14 Value:	Final Toxicity Value: Mobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: (Max.) (Values) 6=X. OR									
1.2 Mobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 Value: (Values) 6=X. OR Solubility(mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=3. 1.3 Substance Quantity: apprex. 290, 443 cabic yards contam, soi Source: 2 Value: Explain basis: Of EfA Assessment Calculation in fWT Site Assessment Report, Merch 29, 1996, page 40, 4.14, Source Area. 2.0 MIGRATION POTENTIAL 2.1 Containment Explain basis: Soil and Ground Vater Contamination Confirmed with analytical laboratory results. 2.2 Net Precipitation: 23,2-26.4 inches Source: 14 Value:	Mobility (Use numbers to refer to above listed substances) Cations/Anions: 1=3; 2=X; 3=X; 4=X; 5=X; Source: 4,6 (Values) 6=X. OR Solubility(mg/l): 1=X; 2=3; 3=0; 4=1; 5=1; (Values) 6=2. Substance Quantity: approx. 290, 443 cable yards conton, soi Source: 2. Value: Explain basis: Cl. Ell Assessment Calculation in flut site Assessment Report Herch 29, 1916, page 40, 4,14, Source Area. MIGRATION POTENTIAL Containment Explain basis: Soil and Ground Value (Max.) Cantiment With analytical laboratory results. Net Precipitation: 23,2-26,4 inches Source: 14 Value: Max. Subsurface Hydraulic Conductivity: Moderately well Source: 6/12 Value: 9 (Max.) Vertical Depth to Ground Water: 0 feet Source: / Value: 9						+2	Bonus Poir	its? χ	
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Δn	Vertical Depth to Ground Water:		Net Precipita	<i>th analytical</i> ation: <u>23.2</u>	- 26.4	<i>inch</i>	es S	Source: /4	Value	(Max.=
2.4 Vertical Depth to Ground Water:	(Max.		Net Precipita	<i>th analytical</i> ation: <u>23.2</u>	- 26.4	<i>inch</i>	telywell s	Source: <u>/</u> 4	Value	(Max.=

WORKSHEET 6 (CONTINUED) GROUND WATER ROUTE

3.0	TARGETS		
	Ground Water Usage: Public Noatternative available		
	Distance to Nearest Drinking Water Well: ~2,700ft		
3.3	Population Served within 2 Miles: $\sqrt{\text{pop.}} = \sqrt{1905} = 43.6$	Source: 2	Value: 44 (Max.=100)
3.4	Area Irrigated by (Groundwater) Wells within 2 miles: $0.75\sqrt{\text{no.acres}} = 0.75\sqrt{\frac{92.5}{10.75}} = 0.75 \sqrt{\frac{9.1}{10.90}} = \frac{6.8}{10.90}$	Source: 9	Value: 7 (Max.=50)
4.0	Explain basis for scoring a release to ground water: Confirmed by analytical laboratory	Source: /	Value: 5 (Max.=5)

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- 3. The Columbian newspaper, "EPA testing to start soon at polluted wood-treating site" by Loretta Callahan, Friday, June 23, 1995, page A5.
- 4. Toxicology Database for Use in Washington Ranking Method Scoring, Washington State Department of Ecology, Toxics Cleanup Program, Publication #92-37, January 1992.
- 5. Sax's Dangerous Properties of Industrial Materials, 8th Edition, Richard J. Lewis, Sr., Van Nostrand Reinhold, New York, 1992.
- 6. Scoring Manual, Washington Ranking Method (WARM) Washington State Department of Ecology, Toxics Cleanup Program, Publication #90-14, April 1990, Revised April 1992.
- 7. City of Ridgefield, Public Works Office, phone call, January 16, 1996.
- 8. Flood Plain Map, panel #530298-0001B, effective May 19, 1996.
- 9. (WRIS) Washington Water Rights Information System, WA Department of Ecology.
- 10. Steve Manlow, WA Dept. of Fish & Wildlife, phone conversation, January 16, 1996.
- 11. Clark County Road Atlas, 1994, Department of Assessment and GIS, pg. 33.
- 12. Clark County Soil Survey, USDA-SCS, November 1972. Sheet 21; page 40.
- 13. USGS Maps, Ridgefield, WA and St. Helens, OR, 1954, photorevised 1970, photoinspected 1975.
- 14. Estimated Evapotranspiration Table, EM 2462, page 42, table 16.
- 15. Public Well Database print-out, WA Department of Health.
- 16. Tom Newman, Environmental Manager, Port of Ridgefield, phone conversations, March 29, and April 16, 1996.

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