WASHINGTON RANKING METHOD

ROUTE SCORES SUMMARY AND RANKING CALCULATION SHEET

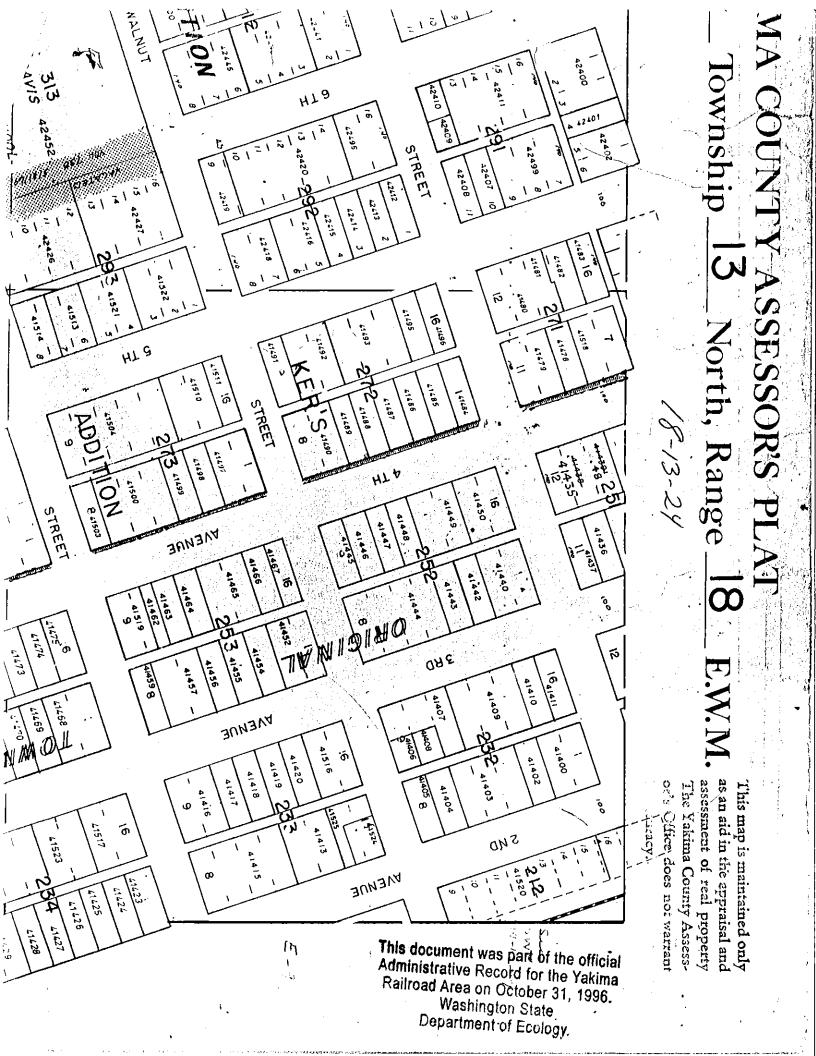
<u>59</u> asses	ssed/scored Route	on <u>August 12,</u> sites. Quintile <u>Group number(s)</u>	<u>).</u>	<u>Priority</u>	scol	es:	.			
W-HH	5-0 48.9	1 5	÷	25 + 8 + H ² + 2M + 8	- \ - <u>L</u> =	. 34	/g·	4.	} =	5
ir-HH W-HH	<u> </u>									÷
ed-HH		_		م بد م						
W-En	8-0		•	H2 + 2	T -	. 18	17.	z.G	2	3
ir-En	28.5	4		7					<u>-</u>	-
ed-En				Human	F	lnvi	ron	шen	it	
				Health				•	1	NT /A
re the m	natriv nrece	nted to			5	4	3	2		
ne right riority ite rank		h the two determine the efers to where		5 4 3	1 1 1		3 (1) 2 3			
he right riority ite rank here is	c, along with scores, to cing. N/A r no applicab	h the two determine the efers to where		5 4			3 2 3 4 4 5			
he right riority ite rank here is	t, along with scores, to king. N/A r	h the two determine the efers to where le pathway.	., 0	5 4 3 2 1 N/A	1 1 1 2 2	1 2 2 3 3 4	1 2 3 4 4 5	1 2 4 4 5 5	1 3 4 5 5 5	1 4 5 5 5 5

Administrative Record for the Yakima
Railroad Area on October 31, 1996.
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LIST _			
PARCEL 19133021034		NEW PARCEL	
NAME NBR 56489 NEW			
AMERCO REAL	ESTATE CO	ATTN	
2721 N CENTRAL AVE PHEONIX AZ	85004	A CONTRACTOR	
NAME NOTES	83004	ALT ATTN	
MANIE MOTES		MANUAL PROCESS	34841375
TAX YR 19	92 1993	TRANGUED ASCOVA N	XMPT
LEVY CODE 3	33 333	JRNL TYPE N	NGHBD YK1
USE CODE	55 S5	JRNL DATE 04/22/1991	CYCLE 4
AV LAND 193150	193150	JRNL TYPE N JRNL DATE 04/22/1991 DOC TYPE EA DOC DATE 10/08/1990	WORK
AV IMPR 116600	116600	DOC DATE 10/08/1990	MISC
ASMI I (ASS		DOC NBR 252161	
MKT LAND 193150	193150	JRNL NOTES SWD <u~haul< td=""><td></td></u~haul<>	
MKT IMPR 116600 NEW CNSTR	116600	AP NOTES	
- INSPECT DATE DEZOAZIO	94 oc /od /1004	DESCRIPTION: 2.20 ACF	RES SQFT
INSPECT APR	7 17	W 397 FT OF N 80 FT OF S SE1/4 NE1/4 NW1/4 EX R-W TH PT OF S 165 FT OF N	S 207 F) UF
NOTICE DATE	05/23/1991	TH PT OF G 165 GT OF M /	MODERN, P.KY. & (SO ST OS OS 45174
ASMT NOTES	12.112.1534	NE1/4 NW1/4 LY W OF S 19	TOO OF OLLYA
PENALTY		EXT DATE	
CROSS REF	SI	NE1/4 NW1/4 LY W OF S 18 EXT DATE TUS ADDR 1102 1ST ST S	
EXIT _ PAGE _ NAME	_ LIST		
BARCII sosoossisso	DOLL TVDT 4	5 N-14 - DA D	
PARCEL 18132441442 NAME NBR 52538 NEW	UPPOED TARE T	NEW PARUEL	
STOFFERS, GREGO		ATTN	
106 S. SRD AVE.	SICE ET OX	771 718	
YAKIMA WA '	98902	ALT ATTN	
NAME NOTES			
		MANUAL PROCESS	XMPT
TAX YR 199	92 1993	TRANSFER 20249 D	
LEVY CODE 3:	333 333 - 333	JRNL TYPE JRNL DATE	NGHBD YK1
USE CODE 6	54 62 54500	JRNL DATE	CYCLE 3
AV IMPR 43600	43600 43600	DOC TYPE DOC DATE	WORK
ASMT CLASS	4000	DOC NBR	MISC
	24500	JRNL NOTES	
MKT IMPR 43600	43600	AP NOTES	
NEW CNSTR		DESCRIPTION: ACR	ES SOFT
	33 - 06/16/1983	YAKIMA: LOT 3 BLK 252	r
	9 39		
NOTICE DATE ASMT NOTES	- 05/23/1991		
PENALTY		EVT BATT.	
CROSS REF	⇔ т ·	EXT DATE: TUS ADDR 106 BRD AV S	
EXIT PAGE NAME	LIST	ing whom ind out WA p	

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WORKSHEET 1 SUMMARY SCORE SHEET

Site Name: Frank Wear-Cle	aners	
Site Location: (City, County, or	Section/Township/R	ange)
106 South Third Avenue Yakima, Washington (Yak SE4 of Section 24, T. 13	ima County) N., R. 18 E.W.M	1.
Site Description: (Include mana	gement areas, comp	ounds of concern, and quantities)
Frank Wear Cleaners curre a dry cleaning facility a 1985 tetrachloroethene (1	ently operates, a at the site. Fo PCE) in the form gravel-covered	and has operated for approximately 35 years, or at least a portion of the time prior to of sludge from still bottoms was dumped area. PCE has been detected in soil
		-
<u> </u>		
ROUTE SCORES:		
Ground Water/Human:	<u>47. L</u>	Overall Rank:
Surface Water/Human:	_5.0_	
Air/Human:	21.9	
Air/Environmental:	28.5	
Surface Water/Environmental:	8.0	This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1999

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WORKSHEET 2 ROUTE DOCUMENTATION

SURFACE WATER ROUTE	
List substances to be <u>considered</u> for scoring. 1. TETERCHLORGETHENE (PCE) 2. 1.1.1-TRICHLORGETHANE	Source: 1, 2,3
Explain basis for choice of substances to be used in scoring. A DRY CLEANER USING PCE OPERATES AT THE SITE, PRIOR TO 1985 PCE V DUMPED IN A GRAVEL-COVERED AREA, RE HAS BEEN DETECTED IN SOIL SAM AT CONCENTRATIONS UP TO 10,000 PPB, 1,1,1-TRICHLOROETHANE WAS DETECTED I SAMPLING OF LIQUID IN DUMPING AREA. List management units to be considered in scoring: 1. SOIL CONTAMINATION	1PLING
Explain basis for choice of unit used in scoring. SOIL CONTIMINATION IS DOCUMENTED.	
AIR ROUTE	700
List substances to be <u>considered</u> for scoring. 1, TETRACHLOROETHENE (PCE) 2, 1, 1, 1- TRICHLOROETHANE	Source: 1,23
Explain basis for choice of substances to be used in scoring. A DRY CLEANER USING PCE OPERATES AT THE SITE. PRIOR TO 19 DUMPED IN A GRAVEL- COVERED AREA. PCE HAS BEEN DETECTED AT CONCENTRATIONS UP TO 10,000 PPB. I, I, I-TRICHLORGETHANE WAS DETECTE SAMPLING OF LIQUID IN DUMPING AREA. List management units to be considered in scoring: 1. SOIL CONTAMINATION	IN SOIL SAMPLING
Explain basis for choice of unit used in scoring. SOIL CONTAMINATION IS DOCUMENTED,	
This document was p	

Railroad Area on October 31, 1996.

Washington State

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WORKSHEET 2 (CONTINUED) ROUTE DOCUMENTATION

GROUND WATER ROUTE

List substances to be considered for scoring.

1. TETRA CHLOROETHENE (PCE)

2. 1,1.1-TRICHLORDETHANE

Explain basis for choice of substances to be used in scoring.

A DRY CLEANER USING PCE OPERATES AT THE SITE, PRIOR TO 1986 PCE WAS DOMPED IN A GRAVEL-COVERED AREA. PCE HAS BEEN DETECTED IN SOIL SAMPLING AT CONCENTRATIONS OF 10,000 PPG, 1,1,1-TRICHLORDETHANE WAS DETECTED IN 1985 SAMPLING OF LIQUID IN DUMPING AREA.

List management units to be considered in scoring:

Source:

1. SOIL CONTAMINATION

Explain basis for choice of unit used in scoring.

SOIL CONTAMINATION IS DOCUMENTED,

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Source: 1, 2, 3

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WORKSHEET 3 SUBSTANCE CHARACTERISTIC WORKSHEET FOR MULTIPLE UNIT/SUBSTANCE SITES

	Combination 1	Combination 2	Combination 3
Unit: Substance:			
AIR ROUTE			
Human Toxicity/Mobility Value:			
Environmental Toxicity/ Mobility Value:			
Containment Value:			-
Air Human Subscore:		,	
Air Environmental Score:			
SURFACE WATER ROUTE			
Human Toxicity Value:			
Environmental Toxicity Value:			
Containment Value:			;
Surface Water Human Subscore:			
Surface Water Environmental Subscore:	,		
GROUND WATER ROUTE			
Human Toxicity/Mobility Value:			
Containment Value:			
Ground Water Subscore:			·,
		This document was pa Administrative Record Railroad Area on Oct Washington Department of	tor the Yakima ber 31, 1996. State

WORKSHEET 4 SURFACE WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 **Human Toxicity**

Substance	Drinking Water 8	Std. Value	Chronic Toxicit mg/kg/day	y Value	Acute Toxicity mg/kg-bw	Value	WOE	arcinogencin Potency Factor	y Value
1. PCE 2.1,1,1-TEICHIORES 3. 4. 5: 6.	5 PHCL HANE200 MCL	99 4	,01 RID ,09 HD	3 	800 LD ₅₀ ORAL RAT 10,300 LD ₆₀ ORAL PAT		82 D	- 051	4

Source: Highest Value: _ +2 Bonus Points?: _ Value: ______

1.2 Environmental Toxicity

Substance	Acute Criteria (µg/L)	Non-human mammalian acute toxicity (mg/kg)	Value
1. PCE 2. I, I, I-TEICHEORDETHAN 3. 4. 5. 6.	5,280 E X	10,300 LD50 ORAL RAT	2

Source: 5 Value: 2

1.3	Substance Quantity
-----	--------------------

Explain basis: ESTIMATED AREA (30 FT) (30 FT) = 900 FT2 BEST PROFESSIONAL JUDGENEAT BY SCORER.

2.0 MIGRATION POTENTIAL

2.1 Containment

Explain basis: DISCHARGE AT THE SURFACE WITH NO RUN-ON/

RUNOFF CUNTRULS OR UNKNOWN CONTROLS.

- Surface Soil Permeability: HIGH, SAND, GRAVEL, 2.2
- Total Annual Precipitation: 7.2 INCHES 2.3
- 2.4
- 2,5 Flood Plain: NOT IN FLOOD PLAIN
- 2.6 Terrain Slope: LESS THAN 2 %

Source: 2 Value: 10

Source: _/_ Value: __6__

PAGE II Source: 2 Value:

PAGE II Source: 2 Value: 1

PAGE II Source: 2 Value: 1

PAGE II Source: 2 Value: 0 PAGE II Source: 2 Value: _

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WORKSHEET 4 (CONTINUED) SURFACE WATER ROUTE

3.0	TARGETS	
3.1	Distance to Surface Water: 2 MILES YAKIMA RIVER	Source: 2 Value: 0
3.2	Population Served within 2 miles:	Source: 9 10 Value: 0
3.3	Area Irrigated by Sources within 2 miles:	Source: 9 Value: 0
3.4	Distance to Fishery Resource: 2 MILES YAKIMA RIVER	PAGE 13 Source: 2 Value: 0
3.5	Distance to Sensitive Environment: 1300 FEET List: Lions PARK	PAGE 13 Source: 2 Value: 9
4.0	RELEASE	
-	Explain basis: NONE DOLUMENTED	Source: Value: _0

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WORKSHEET 5 AIR ROUTE

- 1.0 SUBSTANCE CHARACTERISTICS
- 1.1 Introduction please review before scoring
- 1.2 Human Toxicity

Substance	Air Std. Cm/gy	Value	Chronic Toxica mg/kg/day	Value	Acute Toxicity mg/kg-bw	Value	WOE	arcinogencii Potency Factor	y Value
1. PCE 2 1/1/1-78KHLORDETH 3 4 5 5 6	X H6 6327	ī	1 (·3)	1	5200 PPM = 36,000 M3 18,000 PPM = 100,050 M3	3	82 D	.0033	<u> </u>

Source: 4,6,8
Highest Value: 3 +2 Bonus Points?: 0
Toxicity Value: 3

1.3	filicioM		
	1.3.1	Gaseous Mobility 25% 20°C	
		Vapor Pressure: 1, 19 2 . 166	
		Value: 1,4 2,4	

Source: 4

Source: ___

Climatic Factor:
Particulate Mobility Potential Value: _____

1.4 Final Human Health Toxicity/Mobility Matrix: TOXICITY - 3

Value: 6

1.5 Environmental Toxicity/Mobility

Substance	Non-human mammalian Acute Toxicity	Value	Mobility	Value
1. PCE 2.1,1,1-781C/11.00067HANG 3. 4. 5. 6.	LC ₅₀ Nouse = 5200 ppn = 36,000 18,000 ppm = 100,050 <u>ma</u> m3	m ⁹ 3	<i>4</i> 4	ь 2

Environmental Toxicity Mobility Matrix:

Source: 4.6 Value: _6_

1.6 Substance Quantity: ESTIMATED AREA (30 FT) (30 FT) = 900 FT 2

BEST PROFESSIONAL JUDGEMENT BY SCORER

Source: 1 Value: 4

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WORKSHEET 5 (CONTINUED) AIR ROUTE

2.0 2.1	MIGRATION POTENTIAL Containment: SPILL PIRECTLY ONTO GROUND PAGE 10 Source: 10	
	NO VAPOR RECOVERY.	
3.0	TARGETS	
3.1	Nearest Population: O. BUSINESS OPEN TO PUBLIC ONSITE. Source: 1 Value: 10	
3.2	Nearest Sensitive Environment: 1300 FEET PAGE 13 Source: 2 Value: 6	
	List: LIONS PARK	
3.3	Population within 1/2 mile: 21/0 PAGE /3 Source: 2 Value: 46	
3.5	Lobolation the time Shakesands transfer and The Lobolation to the Control of the	
4.0	RELEASE: NONE DOCUMENTED Source: Value: _O	

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WORKSHEET 6 GROUND WATER ROUTE

SUBSTANCE CHARACTERISTICS 1.0

Human Toxicity 1.1

	Drinking Water Bld.		Chronic Taxicity		Acute Toricity		Carcinogencity Potency		
Substance	bg/6 Value		mg/kg/day Value		mg/kg-ber Value		WOE Factor Value		
I. PCE LI,I,I TRUHLOROGIHI	5 PMCL NG 200 MCL	8 4	OIRIDORAL	3	800 LDS OFAL RAT	5	82 D	· 051	4
					<u> </u>	↓		ntce:	

Highest Value: +2 Bonus Points?:

Value:

Mobility 1.2

Substance: SULUBILITY PCE = 150 mg/l VALUE = 2 Source: 4 Value: 3 _ 1.1.1-TRICHLORDETHANE = 4400 mg/2 VALUE = 3

Substance Quantity 1.3

Source: _ _ Value: _ 2__

Explain basis: ESTIMATED AREA = 900 FT 2

MIGRATION POTENTIAL 2.0

Source: 3 Value: 10 Containment 2.1

Explain basis: CONTAMINATED SOIL - 10 CONTAINMENT

VALUE .

Net Precipitation: 1.7 INCH 2.2

Subsurface Hydraulic Conductivity: CREATER THAN 10-3 CM PAGE II Source: 2 Value: 4 2.3

PAGE 7 Source: 1 Value: 8 Vertical Depth to Ground Water: 18 To 20 FEET 2.4

TARGETS 3.0

Source: 10 Value: 9 Ground Water Usage: POBLIC , NO ALTERNATE 3.1 JAY R. CRASP WELL Distance to Nearest Drinking Water Well: ESTIMATED .35 HILLE Source: <u>10</u> Value: <u>3</u> 3.2

Population Served with 2 miles: \(\sqrt{2596 Purue + 24 Danestic}\) Source: 9.10 Value: 51

3.3

Area Irrigated by Wells within 2 miles: 2732 Acres .75 \2732 Source: 9 Value: 39 3.4

RELEASE 4.0

Explain basis: NOT DECUMENTED. REGION WIDE GROWNDWATER

Source: ___ Value: _O_

CONTAMINATION DOCUMENTED AND SOIL CONTAMINATION, BUT NOT RELEASE

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WORKSHEET 7 SOURCES USED IN SCORING (

- 1. PRELIMINARY ASSESSMENT REPORT ERANK WEAR CLEANERS, SAIC, APRIL, 1989.
- 2 SITE HAZARD ASSESSMENT DATA COLLECTION SUMMARY SHEETS. FOR WASHINGTON RANKING METHED, SAIC, FEBRUARY, 1991.
- 3. CORRESPONDENCE, ELAINE PETERSON TO G.A. STOFFERS, 2/5/90.
- 4. WASHINGTON DEPARTMENT OF HEALTH QUIDE TO PHYSICO- CHEMICAL, TOXICOLOGICAL, AND REGULATORY VALUES FOR PRIORITY POLLUTANTS, MONA KIMBELL, ET AL, DRAFT, JOLY, 1990.
- 5. QUALITY CRITERIA FOR WATER , 1986 , US EPA ,
- 6. RTECS, NIOSH, APRIL 1987.
- 7. WASHINGTON CLIMATE, COOPERATIVE EXTENSION SERVICE, WASHINGTON STATE · UNIVERSITY,
- 8. CHAPTER 173-460 WAC, DEPT, OF ECOLOGY, DRAFT, AUGUST, 1890
- 9. RECORDED WATER RIGHTS OF THE DEPT. OF ECOLOGY, REGION 4, 6/8/90.
- 10. STATE OF WASHINGTON PUBLIC WATER SUPPLY SYSTEM LISTING, WASHINGTON DEPT. OF HEALTH, 2/16/89.

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STATE OF WASHINGTON DEPARTMENT OF ECOLOGY TOXICS CLEANUP PROGRAM

SITE HAZARD ASSESSMENT DATA COLLECTION SUMMARY SHEETS FOR WASHINGTON RANKING METHOD

site Name: Frank Waar Cleaners
Location: NE4 SE4 SECTION 24 TISN RIBE
Site owner/operator:
Address:
Any other known PLP(s):
Address:
Site Number:
Date(s) of field site hazard assessment:
Samples or field measurements:soilsurface waterground water
(Attach copies of pertinent sampling and analytical data, as well as all other supporting documentation.)
Photographs:
Weather:
Lead inspector:
Other inspectors:
Signature:

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PART I: Hazardous Substances

NOTE: Page numbers, or worksheet numbers, shown in parentheses refer to the WARM Scoring Manual.

A. LIST

List hazardous substances, known or suspected (check k or s), currently at the property, or that have been previously(check c or p) at the property:

<u> Hazardous Substance K S C P</u>	Quantity	<u>Units</u>
	100 lbs/week	
1. Tetrachloroethylene	for at least 10 yrs.	
2. 1, 1-trichlorothane		
3. GASOLINE	500 gal tank	
4. HEATING OIL	500 gal tank	
5.	` <u></u>	
6.	 	
7		
8.		
9		
10		
Additional?(list on attachme	ent)	
By which routes are these availab	le?	
Number(from above) Surface Water	<u> Air Groundwater</u>	
1. #(· ·	
2. <u> </u>		
3		
4		
5		
6		
7		
8		
9 10.	· · · · · · · · · · · · · · · · · · ·	
_v		

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в.	SOURCE	S

Check those	known or observed:
ele abo be: poi pii flo ext	ums or other containers ectrical transformers ove ground tanks low ground tanks Have been pulled inds, pits, or other impoundments pelines (other than water, sewer, or gas) oor drains terior drains for rainwater, surface waters, ills, etc.
dis dis dis un sic	RS Known or observed: Scolored soils Sturbed soils Scolored standing water Usual or noxious odors Eck or dead vegetation Soundwater monitoring wells Exer?Identify:
exact locational	necked in B or C, explain details including ons (identify location in a map or drawing).
information:	

PART II: Releases

A. KNOWN OR S	JSPECTED RE	LEASES			
List those haza	ardous subs known or s	stances i suspected	dentifi to hav	ed (by e been	number) in released:
Substance (#)	Quantity F	Released	<u>Units</u>	<u>When</u>	Location
PERC (NI)	2-516s/wek (2-59	b & 100 lls gshe	(y <u>)</u>	1980-1986	See PA Report p.5
					
					····
· .	· · · · · · · · · · · · · · · · · · ·		·		
				 -	
Additional information/re	ference? <u> </u>	Preliminary As	sessmeat Re	port Fran	k Wew Cleanors,"
		<u> </u>			
		. - 			
B. SOURCES AN	N TMPACTS		(Pages)	A-9. 10	\
- •			, ,	•	•
List those haza II.A. and iden					number) in
Substance No.	Source	Impact	s/affec	ts To	Area
1	Drubing (Groun	lwater		·
					
					
-			_ 		

III. Migration Potential

Α.	CONTAINMENTLANDFILLS (SW-7; A-12; GW-8,9)
	Present? How many? .
	Check those that apply:
1.	An engineered, maintained run-on/run-off control system
2.	An engineered/maintained cover without ponding
3.	Unmaintained run-on/runoff control system or cover
4.	No run-on/runoff control or no cover
5.	Uncontaminated soil cover greater than 6" thick
6.	Uncontaminated soil cover less than 6" thick
7.	Contaminated soil used as cover
8.	A functioning vapor collection system
9.7	Mixing or agitation used
10.	No liner
11.	Single clay or compacted soil liner (permeabilitycm/sec)
12.	Single synthetic liner (permeabilitycm/sec)
13.	Double liner system (permeabilitycm/sec)
14.	Leachate collection system, maintained and functioning
15.	Leachate collection system, unknown condition or not functioning
16.	Liquid wastes may have been disposed of
17.	Liquid wastes <u>were</u> disposed of in landfill
18.	Reliable evidence <u>no</u> liquid wastes were disposed
	itional ments:
	

В.	CONTAINMENTSURFACE IMPOUNDMENTS (SW-7, 8; A-13; GW-10,11)
Pre	esent How many?
Che	ck those that apply:
1.	The dike is apparently sound
2.	The dike is regularly inspected and maintained
3.	There is evidence of failure, erosion, slumping, or release of contents
4.	Two feet of freeboard maintained automatically
5.	The freeboard is manually controlled so that there is at least 2 feet of freeboard
6.	Evidence of insufficient freeboard (<2 ft.)
7.	A maintained cover
8. ï	Unmaintained cover, no cover
9.	No liner
10.	Single synthetic liner
11.	Single clay or compacted soil liner
12.	Double liner
13.	Working leak detection system
14.	Evidence of loss of fluid (other than by evaporation)
	itional ments:

C. CONTAINMENT--DRUMS AND SMALL CONTAINERS (

(SW-9; A-11; GW-11)

Prese	nt How many?,
Check	those that apply:
1.	No functional containment
2.	There is secondary containment capacity for the total volume ofcontainers
3.	There is secondary containment with capacity for at least 110% ofvolume of the largest container
4.	The secondary containment is less than 110% of the volume of thelargest container
5.	The containers are stored in single, or double layers on pallets, or in racks
6.	The containers are stored in an unstable manner
7.	Some containers are open or have visible liquid
8.	Some containers are leaking
9.	Containers are protected from weather
10.	Containers showing deterioration
11.	Containment surface is impervious
12.	Containment surface has cracks or semi-permeable
13.	No base material/permeable base such as gravel/base materials unknown
13.	Containment is regularly inspected and maintained
14.	Evidence of containment failure
Addit	ional nts:

D.	CONTAINMENTSTORAGE TANKS (SW-9; A-11; GW-11)
Pre	sent? How many?
Che	ck those that apply:
1.	Secondary containment with a capacity of 110% of the volume of the tanks
2.	Secondary containment at least 50% of the volume of all tanks
3.	Containment system with capacity for at least 10% of volume of containers or tanks
4.	No containment, or less than 10% capacity
5.	Tank volumes maintained
6.	Automatic controls used for volume maintenance
7.	Tanks are covered
8. ſ	Uncovered tanks have aeration, mixing, or heating of tank contents
9.	Containers sealed, protected
10.	Containers sealed, not protected
11.	Containers deteriorated
12	Containers leaking
13.	Record the #s of above which apply only to above ground tank
14.	Record the #s of above which apply only to below ground tanks
15.	Record the #s of above which apply to both above and below ground tanks:
	tional ments

E.	CONTAINME	NTWAST	E PILES	(SW-10;	A-13; G	W-12,13)
Pres	sent?		How many	7?		•
Chec	ck those t	hat appl	y:			
1.	Was	te pile	is outside	e, no pr	otecting	structure
2.	Was	te pile	is outside	e, in ope	en struc	ture with roof
3.	Was		is outside tained cov		partial	or
4.	Was	te pile	is outdoo	s, with	maintai	ned cover
5.	Nо	cover is	present			
6.	Was	te pile	is fully e	enclosed	, intact	building
7.	The	re is an	engineer	ed run-o	n/run-of	f control
8.	The	run-on/	run-off is	mainta:	ined	
9.	Run	-on/runo:	ff control	presen	t, unkno	wn condition
10.		run-on/ru nown if]	unoff cont present	rol sys	tem pres	ent, or
11.	Lin	er or bas	se present	;	_Not pr	esent.
12.	Sin	gle clay	or compac	cted soi	l liner	
13.	sin	gle syntl	hetic line	er		
14.	Dou	ble line	r			
15.	Mai	ntained,	function	ng leacl	nate col	lection system
16.			llection s function		Unkno	wn condition;
	tional ments					
		- :	<u>'</u>		•	

F. CONTAINMENT--SPILLS, DISCHARGES, AND CONTAMINATED SOIL (SW-10, 11; A-13, 145; GW-13)

Check	those	that apply:				
1.	<u> </u>	_Spill, discharge, or contaminated soil <u>only</u> in the subsurface at the siteincluding dry wells, drain fields, leaking underground storage tanks				
2.	 .	_Soil contamination that has been covered partially excavated and filled with at least 6 inches of clean soil				
3.	Soil contamination that has been covered or partially excavated and filled with <u>less</u> than 6 inches of clean soil					
4.		Uncontaminated soil cover >2 feet thick				
5		_No cover; orCover <2 inches but >6 inches thick				
6.		Spill, discharge, or contaminated soil present at the surface in an area with maintained run-on/runoff controls				
7.	4	_Spill, discharge, or contaminated soil present at the surface in an area with <u>unmaintained</u> run-on/runoff controls				
8.		Spill, discharge, or contaminated soil present at the surface with no run-on/runoff controls or unknown controls				
9.		Contaminated soil has been disturbed or excavated and stored above grade				
10.	<u> </u>	A functioning vapor recovery system ;				
11.	•	No vapor recovery system				
Additi commen						

(SW-11,12; A-6; Worksheet 5)
1.	How would you evaluate the site soils? Circle predominant textural class.
	Sand, gravel, sandy gravel, well-graded sand, well-graded gravel, gravelly sand, gravelly sand loam, silty sandy loam?
	Poorly-graded sands with fines, silt-sand mixtures, loam, silt loam, sandy silt loam, clayey sand, clay sand loam?
	Clayey sands, sand-clay mixtures, clayey gravels, clay-sand-gravel mixtures, inorganic silts, clayey silt loam, silty clay loam, porous rock outcrop, sandy silty clay, sandy clay loam?
	Clay (organic and inorganic), clay loam, rock outcrop, peat, peaty clay?
Is	the above based on personal observation, lab analysis, or fessional judgement by a soil expert? (circle)
2.	What is the total annual precipitation? inches/yr (SW-12; W/S 5)
3.	What is the maximum 2-year, 24 hour precipitation? //o inches ((SW-14; W/S 5)
4.	Is the site not in a flood plain? X (SW-14; W/S 5) Is the site in a 500 year flood plain? Is the site in a 100 year flood plain? CP No 630 311 2006
5.	What is the terrain slope to the nearest surface water?
6.	What is the subsurface hydraulic conductivity? $\geq_{10^{-3}}$ cm/sec (GW-14; W/S 6)
7.	What is the vertical depth from the deepest point of known contamination to ground water? (GW-15; W/S 7) ground water is contaminated
744	itional comments:

CONTAINMENT--SITE CHARACTERISTICS

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	•======================================		•				
1.	What surface water(s) (lake, stream, river, pond, bay, etc.) is/are within 10,000 feet (downgradient) of the						
	site?	•	•	-			
	Name	<u>Distft</u>	. Obs.	Meas.			
	•			<u>.</u>			
	·						
							
		•					
None	e?C	omments					
	- · <u> </u>		<u> </u>				
	(SW-12; W/S 5	ke intakes, r)					
	(SW-12; W/S 5)		.			
	(SW-12; W/S 5			Pop. Served			
	(SW-12; W/S 5)		Pop. Served			
	(SW-12; W/S 5	Location		Pop. Served			
	(SW-12; W/S 5	Location		Pop. Served			
	(SW-12; W/S 5	Location		Pop. Served			
	(SW-12; W/S 5	Location		Pop. Served			
	(SW-12; W/S 5	Location Location) is irrigate	ad by surface			
<u>Son</u>	(SW-12; W/S 5 ne? irce How much acres water intakes	Location Location age (anywhere (downstream of) is irrigate	ed by surface			
<u>Son</u>	(SW-12; W/S 5 ne? rce How much acres water intakes within 2 miles	Location Location age (anywhere (downstream of) is irrigate	ed by surface			
<u>Son</u>	(SW-12; W/S 5 ne? irce How much acres water intakes	Location Location age (anywhere (downstream of) is irrigate	ed by surface			
<u>Son</u>	How much acres water intakes within 2 miles W/S 7)	Location Location age (anywhere (downstream of) is irrigate	ed by surface			
<u>Son</u>	(SW-12; W/S 5 ne? rce How much acres water intakes within 2 miles	Location Location age (anywhere (downstream of) is irrigate	ed by surface			
Son	How much acres water intakes within 2 miles W/S 7)	Location Location age (anywhere (downstream of the site)) is irrigate only) or well ? (SW-16; 0	ed by surface ls(anywhere) GW-18; W/S 5;			

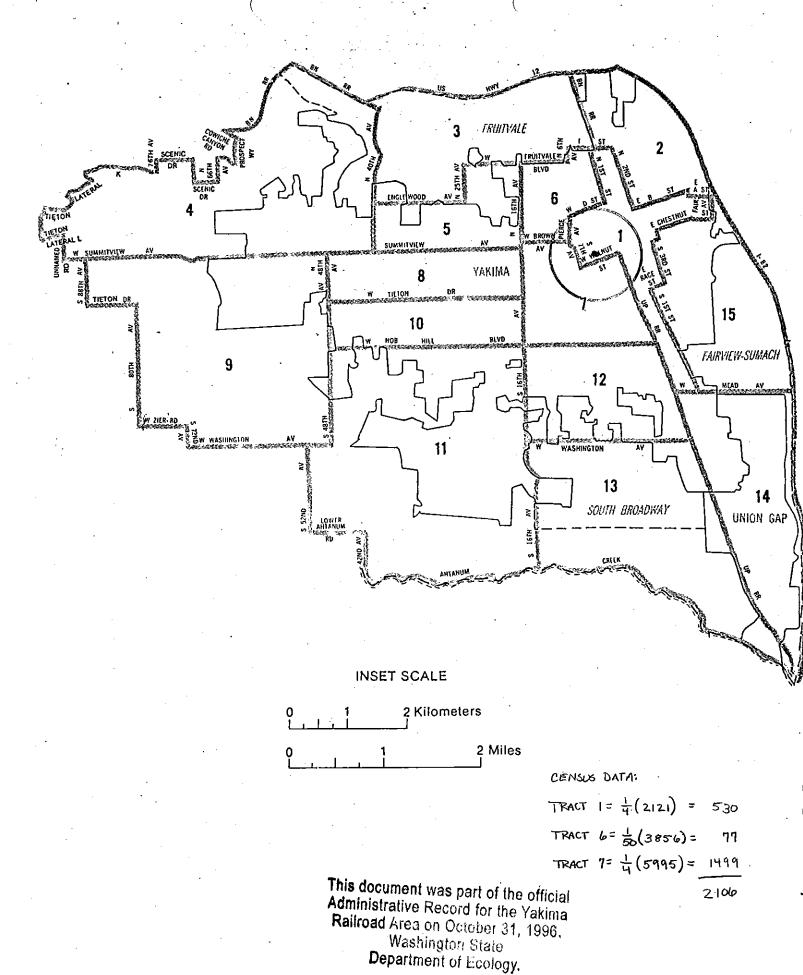
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Source(s)_

4. What is the distance to the nearest fishery resource (total of overland distance plus downgradient distance)?
Yakima Liver 2 mills
(SW-17; W/S 5) Over 10,000 feet? Distance if less than 10,000 feet? feet?
5. What is the distance to the nearest sensitive environment (total of overland distance plus downgradient distance)? (SW-18; A-15; W/S 5) Lions Park (City Park) Lymb 8011)
Over 10,000 feet? Distance if less than 10,000 feet? <u>x/300</u> ft.
6. Is the aquifer a federally-designated sole source aquifer? N_0 (GW-16; W/S 7)
7. Is the ground water used for: (GW-16; W/S 7) private supply public supply irrigation of human food crops or
livestock
livestock non-food (human) vegetation
not used due to <u>natural</u> contaminants ground water not used, but usable
8. Distance to nearest drinking water well? <u>feet</u> (GW-17; W/S 7)
9. Is there an alternate source available to groundwater for private or public water supply?
10. Population served by drinking water wells within 2 miles? 3,675 (GW-17; W/S 7)
11. Distance to the nearest population? <u>feet</u> (A-15, 16; W/S 6)
12. Population within one-half mile radius? 2)10 (A-16; W/S 6)
Additional comments:







(Staff photo by Kirk Hirota)

Gregory and Sonia Stoffers of Frank Wear Cleaners: Solving the issue of solvents.

Clean fabric, environment

Dry cleaners get new equipment that cuts air and water pollution

By DUANE DOZIER
Of the Herald-Republic

While others may be just thinking or talking about doing something about pollution and hazardous waste, the dry cleaning industry is doing something about it.

And none any more so than Gregory and Sonia Stoffers.

They own and operate Frank Wear Cleaners in Yakima. Earlier this year they spent about \$40,000 on a new piece of equipment to drastically reduce the amount of waste generated in the dry cleaning process.

"We're all trying to clean up our act," Gregory Stoffers said, "because part of some of the problems in our atmosphere, or in our ecology, is some of the chemicals that are being dumped into the atmosphere and into the ground," Stoffers said. "The dry cleaners have become a little bit of a target throughout the state.

"We're years and years ahead of most people as far as meeting and exceeding all these things at the state and federal level want. The International Fabric Care, which is an association we all belong to, is working night and day, desperately, on this thing to get it cleaned up so it makes both the customers and the employees a safe workplace."

The association was formed about 1½ years ago and Stoffers became a board member for a two-year term this year.

"It's tough to think a dry cleaning shop could be hazardous to your health, but the solvent that rejuvenates a wool blazer or a silk dress also fouls the water and air," Stoffers said.

Perchloroethylene, a synthetic solvent used by most dry rleaners is a possible cancer? causing agent, according to the Environmental Protection Agency, he said, but pointed out the operative word is "possible."

Ithe verdict is still out on this issue," he said. In the meantime, because of the possible danger from "perc," the Stoffers have had installed in their plant the only dry cleaning machine of its kind in Yakima and the first in Eastern Washington.

The switch from the older equipment also was made, Stoffers said, "Because the Department of Ecology, the Clean Air Act, says you cannot vent out into the atmosphere and you can't have a chemical such as perchloroethylene to dissipate into the ground soil and into our drinking water."

There are other cleaners which use different kind of solvents not regulated by government, "but they'll be a thing of the past because 'perk' is the only dry cleaning solution on the market that is worth dry cleaning with," accord to Stoffers. "There is another chemical out ... with a petroleum base and they vent that into the atmosphere all the time but, eventually, they'll quit that ... They'll have to clean up their act,

(See CLEAN, Page 2F)

Profile

Name: Gregory and Sonia Stoffers.
Occupation: Owners/operators of
Frank Wear Cleaners, 106 S. Third Ave, in
Yakima, laundry and dry cleaning. It includes drapes, carpets and furniture, and
has a Coit franchise, with commercial
clients as well as individuals.

Residence: Lives on Naches River, a few miles west of Rimrock Wye, which they built about 1½ years ago.

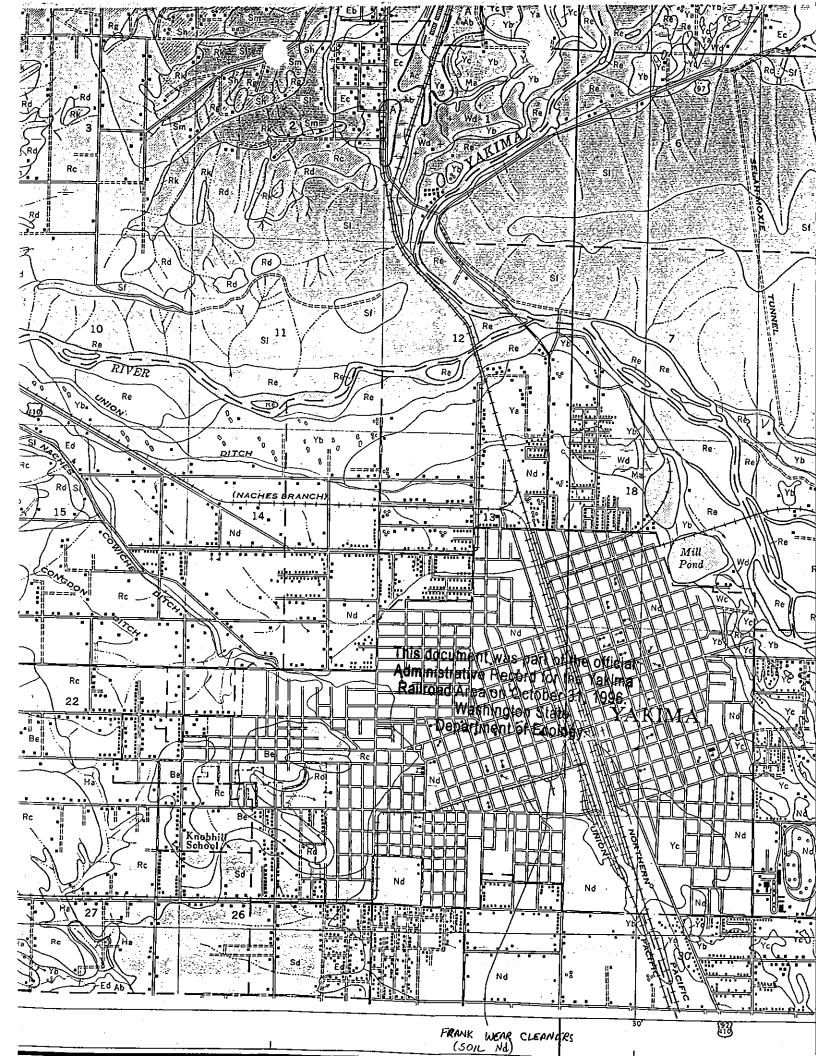
Born: Gregory is from San Francisco; Sonia from Riverside, Calif.

Education: Gregory has degrees in marketing and biology from San Francisco State College.

Family: Two sons and a daughter, "all grown and doing their own thing," and a grandson.

Organizations: West Side Merchants Association, Greater Yakima Chamber of Commerce, Better Business Bureau and Gregory is on board of Washington State Dry Cleaning Association. a member of Rotary and a former board member of People For People.

Business philosophy: "To give as much for the dollar as is humanly possible," Stoffers said. "To provide a service above any body that is in this business and to guarantee our service. Honesly and integrity are the bywords." This document was part of the Yaki Administrative Record for the Yaki Administrative Record for the Yaki Administrative Record for State Washington State Washington Ecology.



or other suitable tillage.

well-drained ternore nearly level major problem. ement of ground vel is well above tto, it was noted the deepest soil, ve moisture prew on the higher,

are mainly used lfa, truck crops, t places but are insively without Indian land and for many years without applying a was baled and are ground before proving the soil, natural supply

ear Tampico are ainly planted to

is soil resembles is sandier; and id lower watershallower, more little more fine sandy loam. In the intermingled

ttered on top of These have been definitely interel symbols. lity of this soil ver, loose gravel

ces fair to good areas are fairly ained by using s, the areas of s, other melons, jacent soils and

ure and fertility per part of the acity; it is not he upper soil is

removed. Many of the more droughty and nonproductive areas in fields are the result of leveling.

Naches soils (0 to 2 percent slopes) (Nd).—This mapping unit consists of undifferentiated areas of Naches soils of various textures and depths to loose gravel. From place to place the areas included vary so much in the texture of the surface layer, development of the subsoil, and thickness of the surface soil and subsoil that it was impractical to show these differences on a map of the scale used (pl. 4B).

The principal soils in the mapping unit are Naches loam and Naches sandy loam, each of which is described elsewhere in this part of the report. Areas of Naches loam are the most extensive by far, but the sandy loam soils are important in some areas. The soil in many areas contains some gravel. Areas that contain enough gravel to affect the workability and fertility of the soil materially are indicated on the soil map by symbols. The subsoils in these gravelly areas generally are more rapidly permeable to water and have a lower water-holding capacity than in other areas. The soil in some small areas is so gravelly and loose that it resembles Yakima very gravelly sandy loam.

In many places these various soil types are associated closely in a pattern that evidently was formed by winding streams as they dropped

In many places these various soil types are associated closely in a pattern that evidently was formed by winding streams as they dropped sediments of various textures. The channels of those streams still remain. In most places the profiles of the soils have been so changed by deep plowing and leveling that it is not possible to identify the texture of the original surface soil. Depth to gravel varies within short distances, and areas of gravelly and shallow soil are common.

These soils are normally not affected by salts or alkali. Small somewhat saline areas near Parker are included, however, and also some soils affected more or less by salts or alkali that do not belong to the Naches series. These alkali soils commonly occur as small patches in complex association with typical Naches soils. They actually are a complex made up of Naches soils and varying, but minor, areas of Fiander soil or other saline-alkali soils. Such areas are located south of Parker. They are small and infrequent in the northern part of the Naches soils areas but are more extensive in the southern extension of the Naches soils, or in other words, where Naches soils grade into the Fiander fine sandy loam southwest of Toppenish.

grade into the Fiander fine sandy loam southwest of Toppenish.

Where the surface soil is finer textured, the alkali-affected soils commonly form slick spots or areas of deflocculated soil. Such spots range from a few feet across to several acres. Generally they are barren and intractable. They are easily seen on fall-plowed fields after the surface has become dry in the spring. These slick spots appear to have developed where the soil material once contained salts that have been partially leached away. Deflocculation and some solonization resulted. In the leaching process, considerable exchangeable sodium was released in the soil. It caused the fine clay particles to become dispersed and separated into grains. It formed a gluey mass that puddles when wet and tends to bake hard when dry. Slick spots are designated on the soil map by a symbol shown in the map legend.

Use and management.—The use, suitability for crops, and management needs of the various Naches soils in this mapping unit are discussed in the descriptions of Naches loam and Naches sandy loam.

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The use and management needs of the slick spots are discussed under the description of the Fiander fine sandy loam and in the section, Soluble Salts and Alkali.

Onyx loam (0 to 3 percent slopes) (Oa).—This is one of the more productive soils for most crops, but its total acreage is small. Most areas are in the Stony and shallow soils-Simcoe-Onyx soil association The soil mainly occurs on nearly level to gently sloping alluvial fans. Some areas, however, occur on the level floors of coulees or on small flood plains along creeks or rivers. Natural drainage is good.

The soil developed under an annual precipitation that on most areas is between 9 and 14 inches. The natural vegetation on Onyx

loam consisted mainly of sagebrush and grass.

Onyx loam was formed from recent or young alluvium that was derived chiefly from basaltic and loessial materials and soils formed thereon. Typically there is very little or no difference in texture and structure among the layers below the surface soil. Much of the alluvial material was washed from areas where precipitation was greater and where the material was mainly basaltic. This alluvium is fertile soil material, not yet changed appreciably by its environment. The soil contrasts strikingly with the older Naches soils that have finer textured subsoils, and with the solonized and somewhat infertile Fiander, Scowlale, and Giffin soils, and the alkaline and infertile Unappies and Abtanuar soils. and infertile Umapine and Ahtanum soils. All of these latter soils are older soils that have developed from alluvial sediments. Onyx loam differs from Esquatzel silt loam in being principally noncalcareous, in having a darker colored surface soil, and in occurring under a higher precipitation.

Profile description:

Grayish-brown, soft to slightly hard, very fine granular loam; very dark grayish brown and very friable when moist; where undisturbed, upper 2 or 3 inches normally is platy; 6 to 8 inches thick.
 Soft to slightly hard, massive loam of a color similar to an slightly lighter.

2 or 3 inches normally is platy; 5 to 8 inches thick.
 Soft to slightly hard, massive loam of a color similar to, or slightly lighter, than the layer above; when disturbed, breaks into single grains and soft granules; very friable when moist; 20 to 40 inches thick.
 Brown, light yellowish-brown, or grayish-brown, slightly hard to soft fine sandy loam, or other stratified, moderately coarse alluvium.

Generally the entire profile is noncalcareous and neutral to mildly alkaline. In small areas, however, the lower part of the soil is slightly calcarcous. The supply of organic matter in the surface soil is low to moderate. Except on the upper part of the fans and along coulee channels, the soil ordinarily contains little or no gravel. The soil material is deep, or more than 4 feet on the average. Underdrainage is favorable except in level coulee bottoms that receive seepage from higher irrigated land. The soil is moderately permeable to water and roots and has moderate capacity for holding water available to plants.

In some areas a clay loam subsoil is slightly more prominent than is normal for Onyx loam. A small acreage mapped with this soil has a fine sandy loam surface texture but is similar in other respects.

Use and management.—Many kinds of crops are grown under irrigation on Onyx loam. Some areas are in orchards, and a few are used for dry-farmed wheat.

The irrigated soil is well suited ductive under good management. tilth under continued cropping and Most areas are very easy to work. is negligible.

Prosser fine sandy loam (0 to 5] minor agricultural importance occup the Yakima Valley rests upon bas enters a channel entrenched in the tually deepens to a canyon. The precipitation of 6 to 7 inches.

This soil is arable but occurs in a It appears to have been derived posited by water over basalt bedroc was modified later by windblown m is derived from, or influenced by, basalt fragments. Solid rock und inches to 3 feet or more. Stones strewn over the surface or in some The areas that have bedrock near scabland.

Relief is varied; many places are lating or gently rolling and have c gation. The lower parts of a few sn are poorly drained. The natural d but some areas become poorly drai tation consisted principally of sage

Profile description:

Pale-brown, soft, nearly structur grains and indistinct fine granu when moist; where undisturbed, 7 to 12 inches thick.

2. Pale-brown to light yellowish-brown to loam contains many small structureless and breaks into brown and friable to very friab

Basalt bedrock.

In most places the entire soil is a alkaline; the lower part may be matter content is low to very low. but the bedrock prevents free unde areas that result from excessive irr irrigated land may have an accum

In places the subsoil appears to h material weathered from the basal brown, yellowish-brown, or pale-that breaks into weakly developed

In slightly depressed areas, the loam; the lower part of the soil i lighter in color; bedrock occurs at

Use and management.—Prosser farms where crops are generally g crops are grown under irrigation

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