ENGINEERING REPORT

on

DRYWELL INTERMEDIATE CLEANUP

for

FIFTH WHEEL TRUCK REPAIR PREMISES

307 East Arlington Street

Yakima, Washington



February 1991

Job No. 90113

Prepared by

PLSA ENGINEERING & SURVEYING WDOE LIC. NO. S000210 1120 West Lincoln Avenue Yakima, WA 98902 (509) 575-6990

FEB 2 0 1991

ENGINEERING REPORT

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307 East Arlington Street

Yakima, Washington



INTRODUCTION

A site assessment of the Hahn Motor Co. building presently occupied by Fifth Wheel Truck Repair, 307 East Arlington St., Yakima, Washington, reported that petroleum contaminated soil (PCS) is present at the northwest corner of the building. The site assessment report, dated October 25, 1989, was prepared by Earth Consultants, Inc. of Bellevue, Washington.

Following this site assessment, Ken Leingang Excavating, Inc., removed a catch basin from within the Fifth Wheel Truck Repair building. During removal it was discovered that the catch basin was actually a dry well, and petroleum contaminated soil (PCS) was found.

This report summarizes the results of the investigation of the extent of the contamination and offers the Hahn Motor Company's proposal for dealing with the situation short of demolishing the building. Results of laboratory testing of a representative soil and water samples for presence of Total Petroleum Hydrocarbon (TPH) are included. Geotechnical engineers

and geologists from PLSA Engineering & Surveying, experienced with local soil conditions and environmental sampling, collected samples and evaluated the analytical results. Removal of contaminated soil was done by Ken Leingang Excavating, a registered decommissioning contractor.

The owner's representatives and contact persons for this project are as follows:

Ms. Donna Pieti, General Manager, and Mr. Richard Hahn, Owner Hahn Motor Company P.O. Box 382 1202 South First Street Yakima, Washington 98901 phone (509) 453-9171

CLEANUP STATUS

A drywell installed at the rear of the Fifth Wheel Truck repair building collected stormwater and drainage from truck steam cleaning. The presence of Petroleum Contaminated Soil (PCS) was detected, characterized, and reported in the Earth Consultants October 25, 1989 report.

After the October 25, 1989 report, a catch basin located within the building was excavated and found to discharge directly to cobbley soil under the concrete floor. PCS was found at this location.

Some of the contaminated soil was removed. Removal of all of the PCS would extend the limits of the excavation to beyond the building footings resulting in need to demolish the building. Similarly, the depth of the excavation coupled with the natural slope of the soil at the drywell at the northwest corner is expected to undermine the northwest corner of the building before

all of the PCS can be removed. Wells drilled approximately 70 feet south and 20 feet northwest (monitoring well nos. 4 and 5) of this drywell were not positive for petroleum contamination in either the soil or the water. Therefore, it appears that the contamination would not extend a great distance under the northwest corner of the building.

ANALYTICAL RESULTS

Monitoring wells #'s 4 and 5 were drilled along the west side of the Fifth Wheel Truck Repair building in late January 1991. Static water level was at 25 feet below the surface. Wells were developed by pumping 3 or more casing volumes.

Laboratory test results for presence of contamination in both soil and water from the January 1991 monitoring wells are found in Appendix I. Monitoring well and sample locations are depicted in Figure 1.

A soil sample was collected from soil found approximately 10 feet below the surface in monitoring well #4. This sample contained <10 ppm TPH as determined by EPA 418.1. Water samples from monitoring well #'s 4 and 5 analyzed below detection limits for Volatile Organic Compounds (VOC's), TPH, PCB, and toxic metals with the exception of copper which was 0.04 ppm.

Monitoring wells drilled for Consolidated Freightways on the east side of the Fifth Wheel Truck Repair/Body Shop complex were sampled by others. Results of analysis of water samples from these wells, found also in Appendix I, were originally included in a December 27, 1990 Phase I Subsurface Investigation dated October 27, 1990 and prepared by Blymer Engineers, Inc. These samples contained levels of TPH below 1 mg/l and low levels of tetrachlorethene and 1,1,1-trichlorethane.

Analytical laboratory reports, also found in Appendix I, on samples collected from a boring adjacent to the drywell (Earth Consultants Boring B-3) show groundwater to be <5.0 ppm TPH, EP-TOX metals below detection limits and TPH in three soils samples collected from -3.0', -9.0', and -15.0' to be 1780, 1130, 618 ppm, respectively.

The estimated dimensions of the remaining contaminated soil at the drywell located in the northwest corner of the premises are 30 feet by 30 feet by 13 feet deep with a volume of approximately 430 cubic yards. A similar amount is estimated to remain at the catch basin removed from within the building.

PROPOSED INTERMEDIATE CLEANUP ACTION

Experience with petroleum contamination in Yakima Valley soils has shown that petroleum or petroleum breakdown products do not leach from soils below petroleum saturation at any great rate if at all. Non-contaminated samples have been collected from many sites where contaminated soil extends to the water table where the water had to be in direct contact with contaminated soil. Therefore, intermediate clean up by removing as much PCS as possible without damaging the building is proposed with final cleanup deferred until the building is removed.

To insure ground water protection, it is further proposed to monitor resource protection wells located nearby both west and east of the contaminated soil location. The east resource protection wells are owned by Consolidated Freightways bordering the premises on the north. See Figure 1. PLSA recommends that quarterly sampling of monitoring well nos. 4 and 5 for one year. Blymer Engineers similarly recommends quarterly sampling in their report prepared for Consolidated Freightways. These later sampling results could be included with Fifth Wheel Truck Repair

results for tracking of movement of petroleum into the ground water, if any.

RISK ANALYSIS

Analysis of water samples for TPH shows that petroleum is not leaching into the ground water in significant amount. Heavy oil is recognized as having low toxicity. VOC's were not found in the west wells and are minimal in the east wells. There have been no reports of petroleum contamination of any nearby wells. Therefore, risk has been reduced by actions already taken and it appears that there has been no reported impact on ground water quality. Risk of any possible, subsequent, contamination of ground water in an environmentally significant amount is small to negligible.

WELLS

A listing of documented water wells located within 1/2 mile of the site may be found in Appendix II. From surface topography, ground water hydraulic gradient appears to be southeast toward the Yakima River.

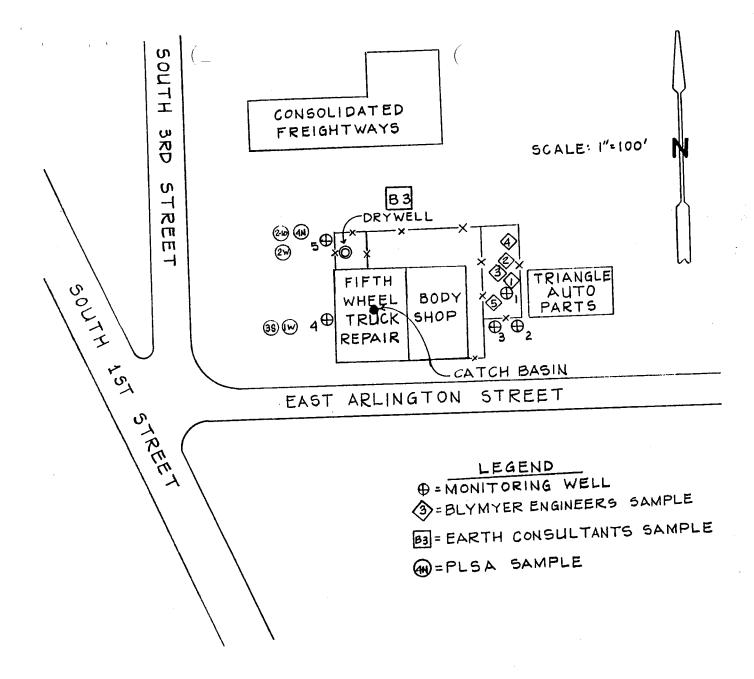


FIGURE 1

MONITORING WELL LOCATION HAHN MOTOR CO., YAKIMA, WA.

APPENDIX I

Analytical Results

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS
4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: February 8, 1991

Report On: Analysis of Water

Lab No.: 15832-2

IDENTIFICATION:

Samples Received on 02-05-91

Project: 90113

Client ID: RUSH 38

ANALYSIS:

PCB - Type PCB - mg/l

ND < 0.01

ND = Not Detectable

SOUND ANALYTICAL SERVICES

MARTY FRENCH

SOUND ANALYTICAL SERYMCES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

February 8, Date:

Report On: Analysis of Water

15832-1 Lab No.:

Page 1 of 3

IDENTIFICATION:

Samples Received on 02-05-91

Project: 90113 Client ID: RUSH 4N

ANALYSIS:

Sample was analyzed in accordance with Test Methods for Evaluating Solid Waste, (SW-846), U.S.E.P.A., 1986 Method 8240 (Volatile Organics)

CAS No.	Compounds	Concentration ug/l	PQL
75-35-4 75-34-3 540-59-0 67-66-3 107-06-2 78-93-3 71-55-6 56-23-5 108-05-4 75-27-4 78-87-5 10061-01-5	Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbon Disulfide 1,1-Dichloroethene 1,1-Dichloroethane 1,2-Dichloroethene (Total) Chloroform 1,2-Dichloroethane 2-Butanone 1,1,1-Trichloroethane Carbon Tetrachloride Vinyl Acetate Bromodichloromethane 1,2-Dichloropropane Cis-1,3-Dichloropropene	NO ND ND ND ND ND ND ND ND ND ND ND	10 10 10 10 10 10 10 10 10 10 10 10 10 1
79-01-6 124-48-1 79-00-5	Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane	ND ND ND	5 5

ND = Not Detectable

This document was part of the official Administrative Record for the Yakima Continued - Railroad Area on October 31, 1996.

Washington State Department of Ecology.

SOUN ANALYTICAL SERVICES, INC.

PLSA Engineering Project: 90113 Lab No. 15832-1 Page 2 of 3 February 8, 1991

Client ID: RUSH 4N

EPA Method 8240 Continued .

CAS No.	Compounds	Concentration ug/l	PQL
71-43-2	Benzene	ND	5
10061-02-6	Trans-1,3-Dichloropropene Bromoform	ND ND	5 s
75-25-2 108-10-1	4-Methyl-2-Pentanone	ND	50
/591-78-6	2-Hexanone	ND	-5
127-18-4	Tetrachloroethene	ND	5
79-34-5 108-88-3	1,1,2,2-Tetrachloroethane Toluene	ND ND	5 5
108-90-7	Chlorobenzene	ND	5
100-41-4	Ethyl Benzene	מא	5
100-42-5	Styrene	מא	5
1330-20-7	Total Xylenes	ND	5

ND = Not Detectable

PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

* = Compound was detected but below PQL.

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Surrogate	Percent Recovery	Control Limits	
Toluene - D8	- 118	81 - 117	
Bromofluorobenzene 1,2-Dichloroethane	112	74 - 121	
D4	116	70 - 121	

SOUNT ANALYTICAL SERVICES, INC.

PLSA Engineering Project: 90113 Page 3 of 3 Lab No. 15832-1 February 8, 1991

Client ID: RUSH 4N

Total Metals by ICP:	Concentration.ppm
Antimony	< 0.06
Arsenic	< 0.05
Beryllium	< 0.005
Cadmium	< 0.005
Chromium	< 0.01
Copper	< 0.025
Lead ·	< 0.05
Mercury*	0.0022
Nickel	< 0.04
Selenium	< 0.05
Silver	< 0.01
Thallium	< 0.1
Zinc	< 0.02

*by Cold Vapor

PCB - Type ND C 0.01

ND = Not Detectable

SOUND ANALYTICAL SERVICES
STAN P. PALMQUIST

SOUNT ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: February 1, 1991

Report On: Analysis of Water

Lab No.: 15718-1

Page 1 of 3

IDENTIFICATION:

Samples Received on 01-29-91

Project: 90113 Client ID: 1W

ANALYSIS:

Sample was analyzed in accordance with Test Methods for Evaluating Solid Waste, (SW-846), U.S.E.P.A., 1986 Method 8240 (Volatile Organics)

CAS No.	Compounds	Concentration ug/l	PQL
74-87-3	Chloromethane	ND	10
74-83-9	Bromomethane	ND	10
75-01-4	Vinyl Chloride	ND	10
75-00-3	Chloroethane	ND	10
75-09-2	Methylene Chloride	ND	5
67-64-1	Acetone	ND	100
75-15-0	Carbon Disulfide	ND	5
75-35-4	1,1-Dichloroethene	ND	5
75-34-3	1,1-Dichloroethane	ND	5
540-59-0	1,2-Dichloroethene (Total)	ND	5
67-66 - 3	Chloroform	ND	5
107-06-2	1,2-Dichloroethane	ND	5
78 - 93-3	2-Butanone	ND	100
71-55-6	1,1,1-Trichloroethane	ND	5
56-23-5	Carbon Tetrachloride	ND	5
108-05-4	Vinyl Acetate	ND	50
75-27-4	Bromodichloromethane	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	Cis-1,3-Dichloropropene	ND	5
79-01-6	Trichloroethene	ND	. 5
124-48-1	Dibromochloromethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5

ND = Not Detectable

SOUNI-ANALYTICAL SER CES, INC.

PLSA Engineering Project: 90113 Lab No. 15718-1 Page 2 of 3 February 1, 1991

Client ID: 1W

EPA Method 8240 Continued

CAS No.	Compounds	Concentration ug/l	PQL
71-43-2 10061-02-6 75-25-2 108-10-1 591-78-6 / 127-18-4 79-34-5 108-88-3 108-90-7 100-41-4 100-42-5 1330-20-7	Benzene Trans-1,3-Dichloropropene Bromoform 4-Methyl-2-Pentanone 2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachloroethane Toluene Chlorobenzene Ethyl Benzene Styrene Total Xylenes	ND N	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5

ND = Not Detectable

PQL - Practical Quantitation Limit - These are the detection limits for this sample. This number is based on sample size, matrix and dilution required.

* = Compound was detected but below PQL.

Volatile Surrogates

Surrogate	Percent Recovery	Control Limits
Toluene - D8 Bromofluorobenzene 1,2-Dichloroethane	103 116	81 - 117 74 - 121
D4	94.6	70 - 121

SOUNI ANALYTICAL SER ICES, INC.

PLSA Engineering Project: 90113 Page 3 of 3 Lab No. 15718-1 February 1, 1991

Client ID: 1W

by EPA Method 418.1

Total Metals by ICP:	<pre>Concentration,mg/l</pre>
Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Mercury* Nickel Selenium Silver Thallium Zinc	< 0.06 < 0.05 < 0.005 < 0.005 < 0.01
*by Cold Vapor	
Total Petroleum Hydrocarbons	< 1.0

STAN P. PALMQUIST

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No:

15718-1

Client ID: 1W

Date:

February 1, 1991

Matrix:

Water

Client:

PLSA Engineering

Units:

mg/l

Compound	Sample(S)	Duplicate(D)	RPD*	
Antimony	< 0.06	< 0.06		
Arsenic	< 0.05	< 0.05		
Beryllium	< 0.005	< 0.005		
Cadmium	< 0.005	< 0.005		
Chromium	< 0.01	< 0.01		
Copper	0.04	0.05	22.2	
Lead	< 0.05	< 0.05		
Nickel	< 0.04	< 0.04	_ <u>·</u>	
Selenium	< 0.05	< 0.05		·
Silver	< 0.01	< 0.01		
Thallium	< 0.1	< 0.1		
Zinc	< 0.02	< 0.02		
Mercury	0.0013	0.0012	8.0	

*RPD = relative percent difference $= [(S - D) / ((S + D) / 2)] \times 100$

SOUNI ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: February 1, 1991

Report On: Analysis of Soil

Lab No.: 15718-2

IDENTIFICATION:

Samples Received on 01-29-91

Project: 90113 Client ID: 2-10

ANALYSIS:

Concentration, mg/kg

Total Petroleum Hydrocarbons by EPA Method 418.1

< 10.0

Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015 < 10.0

SOUND ANALYTICAL SERVICES

STAN P. PALMQUIST

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996.

Washington State

Department of Ecology.

SOUNT ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS 4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 15718-2

Client ID: 2-10

Date: February 1, 1991

Matrix:

Soil

Client: PLSA Engineering

Units:

mg/kg

Compound	Sample(S)	Duplicate(D)	RPD*
Total Petroleum Hydrocarbons	< 10.0	< 10.0	
Total Petroleum Fuel Hydrocarbons	< 10.0	< 10.0	

*RPD = relative percent difference $= [(S - D) / ((S + D) / 2)] \times 100$

SOUNI-ANALYTICAL SER CES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: January 31, 1991

Report On: Analysis of Water

Lab No.: 15752

IDENTIFICATION:

Samples Received on 01-31-91

Project: 90113

Client ID: RUSH 2W

ANALYSIS:

Total Petroleum Hydrocarbons, mg/l by EPA Method 418.1

< 1.0

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS
4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 15752

Date: Januar

January 31, 1991

Client: PLSA Engineering

Client ID: 2W

Matrix:

Water

Units:

mg/l

Compound	Sample(S)	Duplicate(D)	RPD*
Total Petroleum Hydrocarbons	< 1.0	< 1.0	

*RPD = relative percent difference = [(S - D) / ((S + D) / 2)] x 100

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: January 31, 1991

Report On: Analysis of Water

Lab No.: 15752

IDENTIFICATION:

Samples Received on 01-31-91

Project: 90113 Client ID: RUSH 2W

ANALYSIS:

Total Petroleum Hydrocarbons, mg/l by EPA Method 418.1

< 1.0

SOUND ANALYTICAL SERVICES

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SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 • TELEPHONE (206)922-2310 • FAX (206)922-5047

QUALITY CONTROL REPORT

DUPLICATES

Lab No: 15752

January 31, 1991

Date:

Client: PLSA Engineering

Client ID: 2W

Matrix:

Water

Units:

mg/1

Compound	Sample(S)	Duplicate(D)	RPD*
Total Petroleum Hydrocarbons	< 1.0	< 1.0	

*RPD = relative percent difference

 $= [(S - D) / ((S + D) / 2)] \times 100$



NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200 Fax: (707) 526-9623

Roman Worobel Consolidated Freightways c/o Blymyer Engineers Inc 1829 Clement Ave. Alameda, CA 94501

Date: 10-30-90

NET Client Acct. No: NET Pacific Log No: 4320

Received: 10-11-90 1000



Client Reference Information

Consolidated Frieghtways, Job: 3097/89604

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

Enclosure(s)

Client Name: Consolidated Freightways

NET Log No: 4320

Ref: Consolidated Frieghtways, Job: 3097/89604

SAMPLE DESCRIPTION: MW-1

10-10-90

1515

Date: 10-30-90

Page: 6

Parameter)53) Method	Reportin Limit	g Results	Units
METHOD 601			•	
DATE ANALYZED			10-17-90	
DILUTION FACTOR*	•		1	
Bromodichloromethane		0.4	ND	ug/L
Bromoform		0.4	ND	ug/L
Bromomethane		0.4	ND	ug/L
Carbon tetrachloride		0.4	ND	ug/L
Chlorobenzene		0.4	ND	ug/L
Chloroethane		0.4	ND	ug/L
2-Chloroethylvinyl ether		1.0	ND	ug/L
Chloroform		0.4	0.5	ug/L
		0.4	ND	ug/L
Chloromethane Dibromochloromethane		0.4	ND	ug/L
		0.4	ND	ug/L
1,2-Dichlorobenzene		0.4	ND	ug/L
1,3-Dichlorobenzene				
1,4-Dichlorobenzene		0.4	ND	ug/L
Dichlorodifluoromethane		0.4	ND	ug/L
1,1-Dichloroethane		0.4	ND	ug/L
1,2-Dichloroethane		0.4	ND	ug/L
1,1-Dichloroethene		0.4	ND	ug/L
trans-1,2-Dichloroethene		0.4	ND	ug/L
1,2-Dichloropropane		0.4	ND	ug/L
cis-1,3-Dichloropropene		0.4	ND	ug/L
trans-1,3-Dichloropropene		0.4	ND	ug/L
Methylene Chloride		10	ND	ug/L
1,1,2,2-Tetrachloroethane		0.4	ND	ug/L
Tetrachloroethene		0.4	(12)	ug/L
1,1,1-Trichloroethane		0.4	2.2	ug/L
1,1,2-Trichloroethane		0.4	ND	ug/L
Trichloroethene		0.4	ND	ug/L
Trichlorofluoromethane		0.4	ND	ug/L
Vinyl chloride		2.0	ND	ug/L
PETROLEUM HYDROCARBONS				
VOLATILE (WATER)				
DILUTION FACTOR *			1	
DATE ANALYZED		•	10-20-90	
METHOD GC FID/5030		0.05	ND ·	mg/L
as Gasoline		0.03	ND	y/ 2
METHOD 602			1	
DILUTION FACTOR *		•	10-20-90	-
DATE ANALYZED		0.5		/T
Benzene		0.5	ND	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	מא	ûg/L
Xylenes, total		0.5	.ND	ug/L

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996. Washington State

Department of Ecology.

Client Name: Consolidated Freightways

Date: 10-30-90 Page: 7

NET Log No: 4320

Ref: Consolidated Frieghtways, Job: 3097/89604

SAMPLE DESCRIPTION: MW-1

10-10-90

1515

LAB Job No: (-6	5053)			
Parameter	Method	Reporting Limit	Results	Units
PETROLEUM HYDROCARBONS				
EXTRACTABLE (WATER)				
DILUTION FACTOR *			1 .	
DATE EXTRACTED			10-17-90	
DATE ANALYZED			10-17-90	
METHOD GC FID/3510				
as Diesel		0.05	1.0	mg/L

Client Name: Consolidated Freightways

NET Log No: 4320

Ref: Consolidated Frieghtways, Job: 3097/89604

SAMPLE DESCRIPTION: MW-2 LAB Job No:

10-10-90

1415

Date: 10-30-90

Page: 4

Parameter	Method	Reporting Limit	9 Results	Units
Lat ameret	Mechod			
METHOD 601				
DATE ANALYZED			10-17-90	
DILUTION FACTOR*			1	
Bromodichloromethane		0.4	ND	ug/L
Bromoform		0.4	ND	ug/L
Bromomethane		0.4	ND	ug/L
Carbon tetrachloride	,	0.4	ND	ug/L
Chlorobenzene		0.4	ND	ug/L
Chloroethane		0.4	ND	ug/L
2-Chloroethylvinyl ether		1.0	ND	ug/L
Chloroform		0.4	0.5	ug/L
Chloromethane		0.4	ND	ug/L
Dibromochloromethane		0.4	ND	ug/L
1,2-Dichlorobenzene		0.4	ND	ug/L
1,3-Dichlorobenzene		0.4	ND	ug/L
1,4-Dichlorobenzene		0.4	ND	ug/L
Dichlorodifluoromethane		0.4	ND	ug/L
1,1-Dichloroethane		0.4	ND	ug/L
1,2-Dichloroethane		0.4	ND	ug/L
1,1-Dichloroethene		0.4	ND	ug/L
trans-1,2-Dichloroethene		0.4	ND	ug/L
1,2-Dichloropropane		0.4	ND	ug/L
cis-1,3-Dichloropropene		0.4	ND	ug/L
trans-1,3-Dichloropropene		0.4	ND	ug/L
Methylene Chloride		10	ND	ug/L
1,1,2,2-Tetrachloroethane		0.4	ND	ug/L
Tetrachloroethene		0.4	12	ug/L
1,1,1-Trichloroethane		0.4	3.5	ug/L
1,1,2-Trichloroethane		0.4	ИD	ug/L
Trichloroethene		0.4	ND	ug/L
Trichlorofluoromethane		0.4	ИD	ug/L
Vinyl chloride		2.0	ND	ug/L
PETROLEUM HYDROCARBONS	* .*			
VOLATILE (WATER)		•		
DILUTION FACTOR *			1	
DATE ANALYZED			10-20-90	
METHOD GC FID/5030	100	•		
as Gasoline		0.05	ND	mg/L
METHOD 602		* * * * * * * * * * * * * * * * * * *		
DILUTION FACTOR *			1	+2
DATE ANALYZED			10-20-90	and the same
Benzene		0.5	ND	ug/L
Ethylbenzene		0.5	מא	ug/L
Toluene		0.5	ND	ug/L

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Washington State Department of Ecology.

Client Name: Consolidated Freightways

Date: 10-30-90

Page: 5

mg/L

NET Log No: 4320

Ref: Consolidated Frieghtways, Job: 3097/89604

SAMPLE DESCRIPTION: MW-2

PETROLEUM HYDROCARBONS EXTRACTABLE (WATER) DILUTION FACTOR *

DATE EXTRACTED

DATE ANALYZED METHOD GC FID/3510

as Diesel

Parameter

10-10-90

0.05

1415

LAB Job No: (-65052)

Reporting Method Limit Results Units 10-17-90 10-17-90

ND

Client Name: Consolidated Freightways

NET Log No: 4320

Ref: Consolidated Frieghtways, Job: 3097/89604

SAMPLE DESCRIPTION: MW-3

1255

Date: 10-30-90

Page: 2

LAB Job No: (-65051)							
Parameter	Method	Reporting Limit	Results	Units			
METHOD 601							
DATE ANALYZED			10-17-90				
DILUTION FACTOR*			1				
Bromodichloromethane		0.4	ND	ug/L			
Bromoform		0.4	ND	ug/L			
Bromomethane		0.4	ND	ug/L			
Carbon tetrachloride		0.4	ND	ug/L			
Chlorobenzene		0.4	ND	ug/L			
Chloroethane		0.4	ND	ug/L			
2-Chloroethylvinyl ether		1.0	ND	ug/L			
Chloroform		0.4	0.6	ug/L			
Chloromethane		0.4	ND	ug/L			
Dibromochloromethane		0.4	ND .	ug/L			
1,2-Dichlorobenzene		0.4	ND	ug/L			
1,3-Dichlorobenzene		0.4	ND	ug/L			
1,4-Dichlorobenzene		0.4	ND	ug/L			
Dichlorodifluoromethane		0.4	ND	ug/L			
1,1-Dichloroethane		0.4	ND	ug/L			
1,2-Dichloroethane		0.4	ND	ug/L			
1,1-Dichloroethene		0.4	ND	ug/L			
trans-1,2-Dichloroethene		0.4	ND	ug/L			
1,2-Dichloropropane		0.4	ND	ug/L			
cis-1,3-Dichloropropene		0.4	ND	ug/L			
trans-1,3-Dichloropropene		0.4	ND	ug/L			
Methylene Chloride		10	ND	ug/L			
1,1,2,2-Tetrachloroethane		0.4	ND	ug/L			
Tetrachloroethene		0.4	10	ug/L			
1,1,1-Trichloroethane		0.4	3.0	ug/L			
1,1,2-Trichloroethane		0.4	ND	ug/L			
Trichloroethene		0.4	ND	ug/L			
Trichlorofluoromethane		0.4	ND	ug/L			
Vinyl chloride		2.0	ND	ug/L			
PETROLEUM HYDROCARBONS		-		J.			
VOLATILE (WATER)		•					
DILUTION FACTOR *			1				
DATE ANALYZED			10-20-90				
METHOD GC FID/5030							
as Gasoline		0.05	ND	mg/L			
METHOD 602		= = = = :	 .				
DILUTION FACTOR *			1				
DATE ANALYZED		•	10-20-90	-			
Benzene		0.5	ND	ug/Ļ			
Ethylbenzene		0.5	ND	ug/L			
Toluene		0.5	ND	ug/L			
Xylenes, total		0.5	ND	ug/L			
varenes, corar		v.~	414	/-			

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996. Washington State Department of Ecology.

10-10-90

Client Name: Consolidated Freightways

NET Log No: 4320

Date: 10-30-90

Page: 3

Ref: Consolidated Frieghtways, Job: 3097/89604

SAMPLE DESCRIPTION:

10-10-90

1255

LAB JOD NO:	(-65021)	3			
Parameter	Method	Reporting Limit	Results	Units	
PETROLEUM HYDROCARBON EXTRACTABLE (WATER) DILUTION FACTOR * DATE EXTRACTED DATE ANALYZED METHOD GC FID/3510 as Diesel	s	0.05	 1 10-17-90 10-17-90 0.11	mg/L	

Client Name: Consolidated Freightways

NET Log No: 4320

Ref: Consolidated Freightways, Job: 3097/89604

SAMPLE DESCRIPTION: Trip Blank

LAB Job No: (-65054')

LAB 000 NO: (-030	,54)	Reporting		
Parameter	Method	Limit	Results	Units
				
METHOD 601				
DATE ANALYZED			10-17-90	
DILUTION FACTOR*			1	
Bromodichloromethane		0.4	מא	ug/L
Bromoform		0.4	ND	ug/L
Bromomethane		0.4	ND	ug/L
Carbon tetrachloride		0.4	ND	ug/L
Chlorobenzene		0.4	ND	ug/L
Chloroethane		0.4	ND	ug/L
2-Chloroethylvinyl ether		1.0	ND	ug/L
Chloroform		0.4	ND	ug/L
Chloromethane		0.4	ND	ug/L
Dibromochloromethane		0.4	ND	ug/L
1,2-Dichlorobenzene		0.4	ND	ug/L
1,3-Dichlorobenzene		0.4	ND	ug/L
1,4-Dichlorobenzene		0.4	ND	ug/L
Dichlorodifluoromethane		0.4	ND	ug/L
1,1-Dichloroethane		0.4	ND	ug/L
1,2-Dichloroethane		0.4	ND	ug/L
1,1-Dichloroethene		0.4	ND	ug/L
trans-1,2-Dichloroethene		0.4	ND	ug/L
1,2-Dichloropropane		0.4	ND	ug/L
cis-1,3-Dichloropropene		0.4	ND	ug/L
trans-1,3-Dichloropropene		0.4	ND	ug/L
Methylene Chloride		10	ND	ug/L
1,1,2,2-Tetrachloroethane		0.4	ND	ug/L
Tetrachloroethene		0.4	ND	ug/L
1,1,1-Trichloroethane		0.4	ND	ug/L
1,1,2-Trichloroethane		0.4	ND	ug/L
Trichloroethene		0.4	ND	ug/L
Trichlorofluoromethane		0.4	ND	ug/L
Vinyl chloride		2.0	ND	ug/L
PETROLEUM HYDROCARBONS				
VOLATILE (WATER)				
DILUTION FACTOR *	•		1	
DATE ANALYZED			10-22-90	
METHOD GC FID/5030		19		
as Gasoline		0.05	ND	mg/L
METHOD 602		*		
DILUTION FACTOR *	-	•	1	
DATE ANALYZED			10-22-90	
Benzene		0.5	ND	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	ND	ug/L
Xylenes, total		0.5	ND	ug/L
	•			

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996. Washington State
Department of Ecology.

Date: 10-30-90

Page: 8

Client Name: Consolidated Freightways

NET Log No: 4320

Date: 10-30-90

Page: 9

Ref: Consolidated Freightways, Job: 3097/89604

SAMPLE DESCRIPTION: Trip Blank LAB Job No: (-65054)

	,	Reporting		
Parameter	Method	Limit	Results	Units
PETROLEUM HYDROCARBONS				
EXTRACTABLE (WATER)				
DILUTION FACTOR *			1 .	
DATE EXTRACTED			10-17-90	
DATE ANALYZED			10-17-90	
METHOD GC FID/3510				
as Diesel		0.05	ND	mg/L

Date: 10-30-90 Client Acct: 560 Page: 10

Client Name: Consolidated Freightways

NET Log No: 4320

Ref: Consolidated Freightways, Job: 3097/89604

SAMPLE DESCRIPTION: MW-3 Bailer 10-10-90

LAB Job No: (-65055)

LAB JOD NO: (-650	155)	Reporting			
Parameter	Method	Limit	Results	Units	
METHOD 601					
DATE ANALYZED		•	10-17-90		
DILUTION FACTOR*			1		
Bromodichloromethane		0.4	ND	ug/L	
Bromoform	·	0.4	ND	ug/L	
Bromomethane		0.4	ND	ug/L	
Carbon tetrachloride		0.4	ND	ug/L	
Chlorobenzene		0.4	ND	ug/L	
Chloroethane		0.4	ND	ug/L	
2-Chloroethylvinyl ether		1.0	ND	ug/L	
Chloroform		0.4	9.3	ug/L	
Chloromethane	_	0.4	ND	ug/L	
Dibromochloromethane	•	0.4	ND	ug/L	
1,2-Dichlorobenzene		0.4	ND	ug/L	
1,3-Dichlorobenzene		0.4	ND	ug/L	
1,4-Dichlorobenzene		0.4	ND	ug/L	
Dichlorodifluoromethane		0.4	ND	ug/L	
1,1-Dichloroethane		0.4	ND	ug/L	
1,2-Dichloroethane		0.4	ND	ug/L	
1,1-Dichloroethene		0.4	ND	ug/L	
trans-1,2-Dichloroethene		0.4	ND	ug/L	
1,2-Dichloropropane		0.4	ND	ug/L	
cis-1,3-Dichloropropene		0.4	ND	ug/L	
trans-1,3-Dichloropropene		0.4	ND	ug/L	
Methylene Chloride		10	ND	ug/L	
1,1,2,2-Tetrachloroethane		0.4	, DD	ug/L	
Tetrachloroethene		0.4	ND	ug/L	
1,1,1-Trichloroethane		0.4	ND	ug/L	
1,1,2-Trichloroethane		0.4	מא	ug/L	
Trichloroethene		0.4	ND	ug/L	
Trichlorofluoromethane		0.4	ND	ug/L	
Vinyl chloride		2.0	ND	ug/L	
PETROLEUM HYDROCARBONS				3,	
VOLATILE (WATER)					
DILUTION FACTOR *			1		
DATE ANALYZED			10-20-90		
METHOD GC FID/5030					
as Gasoline		0.05	ND	mg/L	
METHOD 602	•		······································		
DILUTION FACTOR *		- 1	1		
DATE ANALYZED		•	10-20-90		
Benzene		0.5	ND	ug/L	
Ethylbenzene		0.5	ND	ug/L	
Toluene		0.5	ND	ug/L	
		0.5	ND	ug/L	
Xylenes, total		U. 3	71L	49/1	

Client Name: Consolidated Freightways

NET Log No: 4320

Date: 10-30-90

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Ref: Consolidated Frieghtways, Job: 3097/89604

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	0.05	mg/L	99	ND	94	90	4.3

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	86	ND	82	96	16
Benzene	0.5	ug/L	90	ND	94	112	18
Toluene	0.5	ug/L	100	ND	_. 97	108	11

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Chlorobenzene	0.4	ug/L	N/A	ND	104	103	< 1
1,1-Dce	0.4	ug/L	N/A	ND	127	123	2.8
Trichloroethene	0.4	ug/L	N/A	ND	97	98	< 1

COMMENT: Blank Results were ND on other analytes tested.



NET Pacific. Inc.

KEY TO ABBREVIATIONS and METHOD REFERENCES

: Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

following. Ims datum supercedes the fisted reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

the difficult rather than an inclinity taken an address.

ICVS : Initial Calibration Verification Standard (External Standard).

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm): Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis

(parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

NO : Not detected; the analyte concentration is less than applicable listed reporting limit.

NTU : Nephelaretric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis

(parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umbos/am : Micrambos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Washington APHA, 1985.

Inis document was part of the official of the Staking Railroad Area on October 31, 1996.

Washington State

Department of Ecology.

4320)

Sample Custody Record SIGNATURE PRINTED NAME COMPANY SAMPLED BY: PROJECT NAME Carsalicheted JOB NUMBER 309 7/89604 LAB NUMBER PROJECT MANAGER 13 -1901 Diches / Roman Dorobe LAB NO. RELINQUISHED BY HELINOUISHED BY L'ESTEROL Blind mw-1 mw-i muss SAMPLE 613T MPLE TIME 15/15 Itom 1415 1255 1631 TIME DATE TIME DATE Se Contraction of the Contractio high ther PRINTED NAME PHINTED NAME hagion not work COMPANY COMPANY STATION Freightways RECEIVED BY RECEIVED BY ログスクロ DATE 19/10/90 MATRIX 153/ 10/16 1000 3/1/2 DATE DATE TIME TIME PAGE / OF / 3. LABORATORY TO FILL IN SAMPLE NUMBER AND SIGN WASHECKIRG Ecology.
4. LABORATORY TO RETURN WHITE COPY TO HART CROWSER 1. PROVIDE WHITE AND YELLOW COPIES TO DISCHARATIVE RECORD for the Yakima 2. RETURN PINK COPY TO PROJECT MANAGAMINISTRATIVE RECORD TO PROJECT PROJECT PRO PROJECT PRO PROJECT PROJECT PROJECT PROJECT PROJECT PRO PROJECT PRO PROJECT PROT OF CONTAINERS Trip blanks = 46 SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS buttles - Fragile TOTAL NUMBER Blind on g ESTING - VIX 41 SAMPlos + 5 May be say HART CROWSER Ext Keep con1 - glass KC NO. OF CONTAINERS Y VOR: BOID Y WOA! TPH G 3-1 iter: 1PH-C : 10A: BOID Y VOB: TPH-9/BIXE 3-1 liter: TPH-d Y VOA: BOIC 4 VOA: IPH-9/BIXE 3-1 litar: TPH-X 0108, -Y VOAS TPH-91 Engineers for ANAlyze. 415)5-RI-3773 Blymyer METHOD OF SHIPMENT redoral Express thet: Roman worder COMPOSITING INSTRUCTIONS OBSERVATIONS/COMMENTS/ Hart Crowser, Inc. 1910 Fairview Avenue East Seattle, Washington 98102-3699 1BTXE JXIE!

TABLE 1 RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS, SOIL BY IR (EPA METHOD 418.1) Results Reported as ug/g (ppm)

•	Total Petroleum
Sample #	Hydrocarbons (ppm)
Sump #1, WB soil	236
Sump #2, BATT soil	36.2
B-1, 8.0' soil	16.9
B-1, 15.0' soil	17.2
B-2, 10.0' soil	16.7
B-2, 15.0' soil	162
-B-3, 3.0' soil	1780
B-3, 9.0', soil	1130
B-3, 15.0', soil	618
WDOE SCGs	200
Quality Assurance	
B-2, 15.0' (Duplicate, Soil)	133

WDOE SCGs = Washington State Department of Ecology (WDOE) Soil Cleanup Goals (See text).

WB = Wash Bay

BATT = Battery Storage Area

As reported by the project laboratory, August 3, 1989.

Earth Consultants, Inc.

TABLE 2 RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS, GROUNDWATER BY IR (EPA METHOD 418.1) Results Reported as ug/g (ppm)

Sample #	Total Petroleum <u>Hydrocarbons (ppm)</u>
B-1, WS-1 Groundwater	<5.0
B-2, WS-2 Groundwater	5.0
B-3, WS-1 Groundwater	<5.0
Ouality Assurance	
B-2, 15.0' (Duplicate, Soil)	133.
WDOE GCGs	15.0
WDOE GCGs =	Washington State Department of Ecology (WDOE) Groundwater Cleanup Goals (See text).

As reported by the project laboratory, August 3, 1989.

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996.
Washington State Department of Ecology.

Earth Consultants, Inc.

TABLE 3 RESULTS OF ANALYSIS OF ENVIRONMENTAL SAMPLES FOR EP-TOX METALS IN ACCORDANCE WITH "TEST METHODS FOR EVALUATING SOLID WASTE" EPA SW-846, 3RD EDITION Results Reported as ppm (mg/L)

Sample #	B-3, 9.0°	B-1, 15.0°	B-2, 15.0°	ALLOWABLE LIMITS***
<u>Analyte</u>				
Arsenic	< 0.1	< 0.1	< 0.1	5.0
Barium	0.3	< 0.1	0.5	100.0
Cadmium	< 0.1	< 0.1	< 0.1	1.0
Chromium	< 0.1	< 0.1	< 0.1	5.0
Lead	< 0.1	<0.1	< 0.1	5.0
Mercury	< 0.05	< 0.05	< 0.05	0.2
Selenium	< 0.1	< 0.1	<0.1	1.0
Silver	< 0.1	< 0.1	<0.1	5.0
Copper	< 0.1	< 0.1	<0.1	*
Nickel	< 0.1	< 0.1	<0.1	*
Zinc	< 0.1	< 0.1	< 0.1	*

^{*** =} Dangerous Waste Maximum Concentrations in Extract, WAC 173-303-090, Dangerous waste characteristics, WDOE, Dangerous Waste Regulations, Chapter 173-303, Amended January 1989.

As reported by the project laboratory, August 3, 1989.

This boument was part of the official Administrative Record for the Yakima Railread Area on October 31, 1996.

Washington State Department of Ecology.

Earth Consultants, Inc.

^{* =} No reported value as per Chapter 173-303-090, WAC.

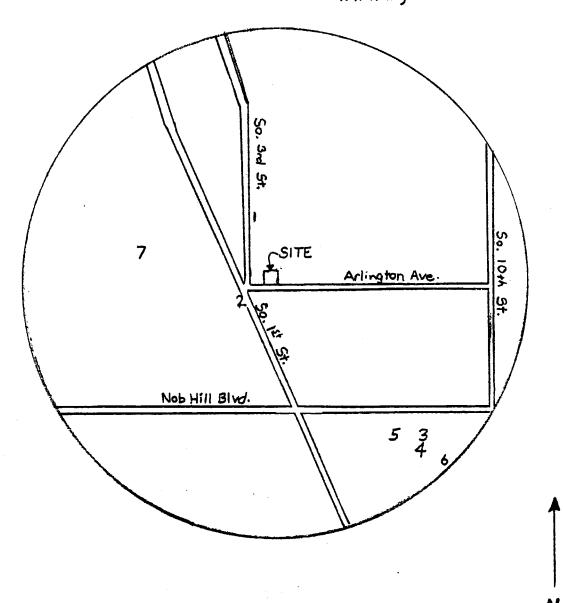
APPENDIX II

Documented Water Well Listing

This document was part of the official Administrative Record for the Yakima Railroad Area on October 31, 1996.

Washington State Department of Ecology.

WATER WELL LOCATION MAP HAHN MOTORS, YAKIMA, WA.



KEY:

6- Location And Numbris document was part of the official Of Water Well Administrative Record for the Yalima CALE: I"=1000' Railroad Area on October 31, 1996. Washington State Department of Ecology. SCALE: 1"=1000'

STATE OF WASHINGTON

NO.		- ::-	
	<u> </u>		
		Ë	ä

(1) OWNER: Name NOEL C ING CORP.	Address 1 . SOUTH 3RD ST. YAKKI	1A. WASH. 98
(2) LOCATION OF WELL: County Yakima	A) WK NE 30 - 1	3 _ 19F
Bearing and distance from section or subdivision corner	74 Sec. 39 T	N., RW.
) PRODUCED YES	(10) THERE LOC	
• • • • • • • • • • • • • • • • • • • •		
	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each c	l and structure, ar
(4) TYPE OF WORK: Owner's number of well (if more than one) 2		
New well 🔀 Method: Dug 🗌 Bored 🗇	MATERIAL BLACKTOP.REBAR CEMENT & FILL	FROM TO
Deepened Cable Driven	SOIL & GRAVEL	4 10
Reconditioned Rotary Jetted	GRAVEL, BLDRS & SOIL V. HD.	10 30
(5) DIMENSIONS: Diameter of well 12,10,8 inches.	SAND, GRAVEL, BLDRS, WATER, CAVING	30 47
Drilled 7.52 ft. Depth of completed well 7.52 ft.	CEMENT GRAVEL & BLDRS	47 50
(6) CONSTRUCTION DETAILS	HARD PAN & BLDRS	50 63
(6) CONSTRUCTION DETAILS: 0 67.	LOCSELY CEMENTED GRAVEL & BLDRS	63 77
Casing installed: *10 " Diam. from +2 n. to 400 n.	BOULDERS, SAND, GRAVEL, WATER.	7792 92
Threaded 8 "Diam. from 360 ft. to 680 ft. Welded T "Diam. from ft. to 680 ft.	V.HD. BASALT BLDRS, GRAVEL, WATER	92 107
11.	CEMENT GRAVEL, DEC. ROCK&BLDRS.	107 117
Perforations: Yes 🛱 No 🖂	BROKEN BASALT BLDRS V. HD.	117 135
Type of perforator used TORCH (8" LINER)	SAME W. DEC. ROCK	135 145
SIZE of perforations 1/8 in. by 8 in. 720 perforations from 560 ft. to 680 ft.	HD PAN & BLDRS	145 152
perforations from the to the fit.	BROKEN BASALT BLDRS& HD PAN	152 190
perforations fromft. toft.	DEC, ROCK, CLAY & BLDRS	190 236
	WHITE CLAY	236 238
Screens: Yes No A	DEC.ROCK, CLAY & BLDRS	238 242
Manufacturer's Name	WHITE CLAY	242 247
Diam. Slot size from ft. to ft.	DEC., ROCK, CLAY & BLDRS	· 247 299
Diam. Slot size from ft. to ft.	SANDSTONE, CLAY, CEM. GRAV, BLDRS	299 308
Gravel nacked: www.	DEC., ROCK, CLAY & BLDRS BASALT BLDRS & CLAY	308 332
Gravel placed fromft. toft.	1	332 347
	BR.CLAY,SAND,GRAVEL,SOME WATER	347 351
Surface seal: Yes T No T To what depth? 30 ft. Material used in seal CEMENT	SAND, GRAVEL, CLAY DEC. ROCK & HLDRS.	351 358
	EROKEN BASALT & SED. ROCK	365 365 365 380
Did any strata contain unusable water? Yes No Type of water? SURFACE Depth of strata	GRAY CLAY	365 380 380 388
Method of sealing strata of CASED & CEMENTED	GRAVEL, GREY CLAY & BLDRS	388 391
	BROKEN BASALT ROCK	391 400
(7) PUMP: Manufacturer's Name	CEMENT GRAVEL, CLAY & BLDRS	400 412
Туре: НР	TAN SANDY CLAY	412 416
(8) WATER LEVELS: Land-surface elevation above mean sea level. 1025	GRAVEL, ELDRS & CLAY	416 423
Static level 14 ft. below top of well Date 3/18/77	TAN SANDY CLAY	423 438
Artesian pressurelbs. per square inch Date	GRAVEL, CLAY & BLDRS	438 468
Artesian water is controlled by	SED.ROCK, SAND, GRAVEL, CLAY, CONGLOM.	
	BR. SANDY CLAY	510 519
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 1/5/77 19 Completed 3/1	2/77
Was a pump test made? Yes No If yes, by whom?	Total stateed	1 1 7 1 1 1
It. diawdown after nrs.	WELL DRILLER'S STATEMENT: LUE	IVEU
" " " " " " " " " " " " " " " " " " "	This well was drilled under my jurisdiction as	nd this report is
Recovery data (time taken as zero when pump turned off) (water level	true to the best of my knowledge and belief.	3 1977
measured from west top to water level)	NAMERIEBE WELL DRILLING	,
Time Water Level Time Water Level Time Water Level	(Person, firm, or compatible)	we profiled
***************************************	DENITON DECIC	MILL OFFICE
***************************************	Address YAKIMA WASH CERTILL HEAL	***************************************
Date of test	$V P = D_{i}$	
ter testgal/min. withft. drawdown afterhrs.	[Signed] (Well Driller)	*******************
rtesian flow 67 g.p.m. Date	-21 ·	7
emperature of water	License Mis datament was part of the dance	J, 19
· · · · · · · · · · · · · · · · · · ·	Administrative Record for the Yakima	ł
S. F. No. 7356—OS—(Rev. 5-69)—5-69. (USE ADDITIONAL SHE	ETS IT NECESSAN Area on October 31/1996.	
	Washington State	2

WATER WELL REPORT

STATE OF WASHINGTON

Application No.

The troop, Billiet's Copy	STATE OF V	WASHINGTON	Permit No		
(1) OWNER: Name #2 OF NO LOG		Address			
(2) LOCATION OF WELL: County Bearing and distance from section or subdivision corner				N., R.	
		T.			
PROPOSED USE: Domestic Industrial	☐ Municipal ☐	(10) WELL LOG:	, 1		
Irrigation Test Well	Other 🗆	Formation: Describe by	color, character, size of materia ers and the kind and nature of	il and stri	icture, and
(4) TYPE OF WORK: Owner's number of well		stratum penetrated, wit	h at least one entry for each c	hange of	formation
New well Method: Dug			IATERIAL CORP. L.C.	FROM	ТО
=	e Driven	CONTINUED NOR	I CANNING CORP. LOG		
Reconditioned Rota	ry Jetted	·		540	500
(5) DIMENSIONS: Diameter of well		I	SAND, CLAY & BLDRS	519	579
The state of the s		GRAI CLAY		579	582
Drilledft. Depth of completed well	П.	CLAY, GRAVEL, SA		582	588
(6) CONSTRUCTION DETAILS:		EST 150 GPM. TH	IIS PUINT.	-700	100
Casing installed: Diam. from	4 4	CEMENT GRAVEL		588	615
Threaded Diam. from	ft. to #	"GREY CLAY		615	620
Welded " Diam. from	ft. to ft.		E, SAND STONE, GRAVE		(00
Parforations			LOMERATE AS WE GO	620	680
Type of perforator used		CEMENT GRAVEL	RF. O" LINER HERE	680	700-
SIZE of perforations in. by		ALLUVIAL OUT W	ASU P. MATEUR		700
perforations from ft. t	n.	APROX. 350 GPM	1	700	712
perforations from ft. t		CEMENT GRAVEL		712	722
perforations from ft. t	o ft.		& BASALT OUT WASH	722	
Screens: Yes No		SANDSTONE & CL			757
Manufacturer's Name		EST 1200 GPM I		737	752
Type Model N	o		<u> </u>		
Diam. Slot size from	ft. to ft.				
Diam. Slot size from	ft. to ft.	<u> </u>			
Gravel packed: Yes ☐ No ☐ Size of grave	1.	<u> </u>			
Gravel placed from ft. to		•			
Surface cools		•			
Material used in seal	ft.	<u> </u>			
TMA	Yes O No O	·			
Type of water? Depth of strat		•	-		
Method of sealing strate off					
7) PIIMP					
7) PUMP: Manufacturer's Name	H.P.				
		Parker selection of the selection			Maria.
8) WATER LEVELS: Land-surface elevation above mean sea level		1900 Par 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19			1 . vale
		Ng a Sala salay			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
rtesian pressure lbs. per square inch Date		•		+	
Artesian water is controlled by (Cap, val	ve. etc.)	•			
		4			
lowered below static level	1	Work started	10 Completed		
/as a pump test made? Yes No If yes, by whom?			, 19 Completed		
ield: gal./min. with ft. drawdown afte		WELL DRILLER'S	STATEMENT	VE	_
10 00 10		This well was drill	ed under my jurisdiction a	nd this	eport is
ecovery data (time taken as zero when pump turned of		true to the best of my	knowledge and belief.		• -
measured from well top to water level)	ľ		MAY 16	1977	
Time Water Level Time Water Level Time	Water Level	NAME (Person	*******************************	*********	
######################################		,	DEPARTMENT OF	ype or pri - FCOLO	?Y
***************************************		Address	0 <u>21/11/11</u> 1/22:01		·6 E
Date of test	***************************************	V	()	6.	J L
flest gal/min. with ft. drawdown aft		[Signed]	11465	********	
ian flowg.p.m. Date	i i		(Well Driller)		
perature of water Was a chemical analysis made	? Yes 🗌 No 🗍	Lic this document wa	ic part of the atefficacy	,•	19.22
· ·		Administrative De	cord for the Yakima		, xv.R.4
(USE A	ADDITIONAL SHE	ETS Railroad Area on	Optobre 24: 4200		
F. No. 7356—OS—(Rev. 5-69)—5-69.			October 31g 4996. 🚿		_ ,

WATER WELL REPORTSTATE OF WASHINGTON

64 -	28585
pplication No.	

4 3

Third Copy — Driller's Copy	STATE OF W	ASHINGTON	Permit No	
(1) OWNER: Name YAKIMA PRECAST		Address 1202 S 1st STREET	YAKIMA, WA 9	8901
LOCATION OF WELL: County YA	AKIMA	- 50 1 NE 1	sec30 T13N., R.	19w.м.
ing and distance from section or subdivision corner		also N51.5' of lot 53		
(3) PROPOSED USE: Domestic Industria	l 🛛 Municipal 🗌	(10) WELL LOG:		
Irrigation	1 Other	Formation: Describe by color, characte show thickness of aquifers and the kin	r, size of material and str d and nature of the mater	ucture, and rial in each
(4) TYPE OF WORK: Owner's number of wel (if more than one)		MATERIAL	entry for each change of	formation.
New well 📈 Method: Dug	Bored [Sand grave 1 + colle		14
- -	ole Driven □ tary □ Jetted □	hard Dan	24	29
		sand +grare	29	34
(5) DIMENSIONS: Diameter of well	inches.	hard pan	34	38
Drilled		sand + gravel	38	41
(6) CONSTRUCTION DETAILS:		hard pan	41	44
Casing installed: 6 " Diam. from #/	" to 57 "	sand +fine grarel	44	54
Threaded []		grarel	54	-57
Welded 🔀 Diam. from	ft. to ft.			
Perforations: Yes 💆 No 🗆				
Type of perforator used				_
SIZE of perforations	in.			
perforations from 39 ft perforations from 38 ft	. to			
perforations from 44 ft	. toft.			
		· · · · · · · · · · · · · · · · · · ·		
Screens: Yes No 🔄				
Type Model				
Diam Slot size from				
Diam Slot size from	ft. to ft.			
Gravel packed: Yes ☐ No Æ Size of gra	vel:			
Gravel placed from ft. to	ľ			
Surface seal: Yes No D To what dept	h? <u>20</u> tt.			
Did any strata contain unusable water?	Yes □ No 🗷	7		
Type of water? Depth of st	3	WE@ E	$\mathbb{W}_{\mathbb{Z}}$	
Method of sealing strata off				
(7) PUMP: Manufacturer's Name				<u> </u>
Туре:	н.Р	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1934	<u> </u>
(8) WATER LEVELS: Land-surface elevation	1			
above mean sea level.		2		
Static level	1	- Inis document	was part of the offi	disi
Artesian water is controlled by		Administrative	Record for the Yaki	W161
(Cap,	valve, etc.)	Railroad Area	on October 31, 199	The second secon
(9) WELL TESTS: Drawdown is amount w lowered below static leverses.	ater level is		ington.State	
Was a pump test made? Yes 🔲 No 🗷 If yes, by whon	1?	Departm	Ant of Eggles	, 10
Yield: gal./min. with ft. drawdown a		WELL DRILLER'S STATEM		
n n n	- "	This well was drilled under m true to the best of my knowledge	y jurisdiction and this	report is
		,		
Recovery data (time taken as zero when pump turned measured from well top to water level)	on) (water level	NAME HESTY BOCK	Well Dy//// poration) (Type or p	19
Time Water Level Time Water Level Time	e Wáter Level	(Person, firm, or cor	poration) (Type or p	rint)
	,,,,,,	Address X43 Box 734A	Yakıma, Wn.	98901
		Audi ess		.µ.&(X.**
Date of test	140-11 010-11111111111111111111111111111	(Simed) Toleran B	uh	
Bailer test 30 gal/min. with 3 tt. drawdown	afterhrs.	[Signed] (V	Vell Driller)	
Artesian flowg.p.m. Date		License No. 0053	Data 1/-12	21
Temperature of water Was a chemical analysis m	ade? Yes 🗌 No 🔏	License No. 0033	Date//	, 194.7

WATER WE

Second Copy--Owner's Copy Third Copy-Driller's Copy

STATE OF WASH!!

I DED T Star	Card No.	0.39 8	,
LL REP(RT STANDARD		وهت.	
Water Right Pormit No			
	ret 98	901	
			16
	с <u>:50</u> т. л	<u>/.3_</u> .n., r	<u> </u>
(10) WELL LOG or ABANDONMENT	PROCEDU	RE DES	CRIPTION
Formation: Describe by color, character, size thickness of aquifers and the kind and nature of the with at least one entry for each change of informating the control of th	ne material in e	nd structur ach stratur	e, and shown
MATERIAL		FROM	ТО
EPSCILE GRAVEU		0	1/2
SAND GRUL COBBLES	<u>M</u>	1/2	33
MARD PAIN -TRACE IOCOM	Н_	33	138
GRACEI BOULIKES	VΉ	38	45
HARD PAN	VVH	45	50
Cholomerak GRAUELS HARDPA	DO VH	50	55
HARA PAN		55	105
SAND GRAVEL		65	69
PARSE GRAVELA CYABLES		1-9	79
WARSE GRAVEL ECCHBLES		70	: 25
EMER EXTER CARRIES		17	: ()
			<u>.</u>
30 6Pm			1
196 6 F 11			
			
			
			
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			l
			[
	i	*	
		-	
			<u> </u>
1/- 50 68	11 -	70 00	y
Work started 11-30-88, 19. Comp	leted	30-88	
WELL CONSTRUCTOR CERTIFICAT I constructed and/or accept responsib and its compliance with all Washingle	ility for const	truction s	standards.
Materials used and the information rep knowledge and belief.	Same of the	<u>.</u>	omy best
NAME RIEBE WEW, (PERSON, FIRM, OR CORPORATION Address POBOK 10866	DRULLI ON)	TG 1	P PRINT)
(Signed) In HRiche	License N	م مرا	
Contractor's Registration 175 11		_	<u> </u>
Registration 132 KI Date	12-1-8	38	_, 19

HENNESS OWNER: Name AMES MAKIMA (2) LOCATION OF WELL: County___ (2a) STREET ADDDRESS OF WELL (or nearest address; Domestic PROPOSED USE: Industrial 🔲 Municipal [] Irrigation Test Well Other ☐ DeWater (4) TYPE OF WORK: Owner's number of well (if more than one) ____ Abandoned New well Method: Dug Bored \square Cable Deepened Jetted 🗌 Reconditioned Rotary 💢 DIMENSIONS: Diameter of wellinches. 88 Drilled_ _feet. Depth of completed well_ (6) CONSTRUCTION DETAILS: Casing installed: _ _ * Diam. from ユ Welded Diam. from_ Liner installed Diam. from__ Perforations: Yes Type of perforator used . SIZE of perforations. perforations from perforations from _ Screens: Yes Manufacturer's Name Type _ Model No. Diam. Slot size _Slot size_ No Size of gravel Gravel packed: Yes Gravel placed from_ 18 No To what depth?_ Surface seal: Yes 🔀 Material used in seal PENTONITE Did any strata contain unusable water? Yes Type of water?_ _Depth of strata Method of sealing strate off... (7) PUMP: Manufacturer's Name Land-surface elevation above mean sea level WATER LEVELS: Static level 30'8// _ft. below top of well Date 11-30 -Artesian pressure __ ___Ibs. per square inch Date Artesian water is controlled by WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? Yes No 12 If yes, by whom? Yield: _ ___ gal./min. with _ _ ft. drawdown after *** " Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Water Level This document was part of the official Administrative Record for the Yakima Washington State "Départment of Édordgy, after gal./min. with stem set at _ ft. for ___ _g.p.m. Date . Temperature of water __ Was a chemical analysis made? Yes ___

WATER WELL REPORT

Application	No.		
		7	-

Third Copy — Driller's Copy	STATE OF V	VASHINGTON		No
(1) OWNER: Name JIM HE	NNESS	Address 1415	So. 8 .	Street
(2) LOCATION OF WELL: County.	YAKina			
ring and distance from section or subdivisi	on corner			
(3) PROPOSED USE: Domestic Irrigation		(10) WELL LOG	color, character, size of meters and the kind and natur	aterial and structure, and
(4) TYPE OF WORK: Owner's numb	per of well	stratum penetrated, wi	th at least one entry for e	ach change of formation.
(if more than			MATERIAL	FROM TO
Deepened 🗆	Cable Driven		<u> </u>	0 /2
Reconditioned [Rotary Jetted	- Comqian	ekate	رايد المارات
(5) DIMENSIONS: Diameter of Drilledft. Depth of com	of well inches.			
(6) CONSTRUCTION DETAILS:	<u></u>			
Casing installed:	m 0 # to 32#			
	m ft. to ft.			
Welded" Diam. fro	m ft. to ft.			
Perforations: Yes No				
Type of perforator used				
SIZE of perforations perforations from				
perforations from				
perforations from	ft. to ft.			
Screens: Yes 🗆 No				ZILED
Manufacturer's Name Type	,		256	FIAL
Diam. Slot size fro			KEO	3077
Diam Slot size fro	m ft. to ft.			3 1911
Gravel packed: Yes No le S	ize of gravel:			MENT OF ECOLOGY REGIONAL OFFICE
Gravel placed from			SCOART	MEN CIONAL OFFICE
Surface seal: Yes No D To v	what denth?		CHIRA	1 1/2 a.o.
Material used in seal. Beat los	11 te document gr	sut		
Did any strata contain unusable				
Type of water? De Method of sealing strata off			···	
				
(7) PUMP: Manufacturer's Name	нР			
19pe.	-1			
	sea level. AP 1035ft.			
Static level	· •	·		
Artesian water is controlled by	(0	· 		

(9) WELL TESTS: Drawdown is a lowered below	amount water level is static level	Work started 2-	Completed	2-17 197
Was a pump test made? Yes No 11 yes,	-	WELL DRILLER		
Yield: C gal./min. with ft. dr.	awdown after hrs.	• • •	, , , , , , , , , , , , , , , , , , , ,	
11 11	n H	true to the best of a	lled under my jurisdict ny knowledge and beli	ef.
Recovery data (time taken as zero when pur measured from See Rock water 1921) Of	np turned off) (water level	-		~ ≠ d.
Time Water Heyer at Wire Rec Water Levy		NAME JEWSE	on, firm, or corporation)	JRIIIW9.
Railroad Area on October		(Fers	, C+	(Tabe or burie
Washington State	I =	Address./.Lo.C.3.	70 10,	- Lue
Date of test Department of Ecolo		al	10 - D-	
ailer test gal/min, with ft. d		[Signed]	(Well Driller)	De -
Artesian flowg.p.m. Da	ate		\$ \\ \^	- 20 54
Temperature of water 58 Was a chemical a	nalysis made? Yes 🗌 No 💢	License No.	Date:	
	\i	•		

File Original and First Copy with Department of Ecology Second Copy—Owner's Copy Third Copy—Oriller's Copy

ECY 050-1-20 (10/87) -1329-

STATE OF WASHINGTON

3/8 Start Card No. 007281

		Rater Aight Formit 140.		
.)	OWNER: Name_Mr. Lemus	Address 1407 S. 7TH Street	Yakim	а
/ <u>^</u>	LCOATION OF WELL - Voltimo	NE- SE 30	7	19
	LOCATION OF WELL: County Yakima	NE SE 1 30 1 1 PARCEL #191330-41422	<u>Э</u> R	ZZw.m.
(2a	STREET ADDDRESS OF WELL (or nearest eddress;	1RR011 1/1/1/100 +1+22		
(3)	PROPOSED USE: ☐ Irrigation ☐ DeWater	(10) WELL LOG or ABANDONMENT PROCEDU		
(4)	TYPE OF WORK: Owner's number of well (if more than one)	Formation: Describe by color, character, size of material an thickness of aquifers and the kind and nature of the material in ea with at least one entry for each change of information.	d structure, ich stratum	, and show penetrated
	Abandoned New well Method: Dug Bored	MATERIAL	FROM	то
	Deepened ☐ Cable ☐ Driven ☐	Sandy loam & cobbles	0	2
	Reconditioned Rotary A Jetted	Sandy loam, cobbles & gravel	2	15
(5)	DIMENSIONS: Diameter of well 6 inches.	Coarse gravel & sand	15	27
	Drilled 60 feet. Depth of completed well 60 ft.	Gravel & sand w/brown sandy		
(6)	CONSTRUCTION DETAILS:	clay	27	31
,	Casing installed: 6 Diam. from 0 ft. to 60 ft.	Coarse gravel & sand	31_	48
		Coarse gravel & sand w/brown		
	Welded X Liner installed □ Threaded □ Diam. from ft. to ft. to ft. to	sandy clay	48	<u> 54 </u>
		Coarse gravel & sand	54	60
	Perforations: Yes No A			
	SIZE of perforations			
	perforations fromft, toft.			
	perforations fromft. toft.			
				
	Screens: Yes No X			
	Manufacturer's Name			
	Type Model No			
	DiamSlot sizefromft. toft.			
	DiamSlot sizefromft. toft.			
	Gravel placed: Yes No Size of gravel	William and all and the property of the state of the stat		
	Gravel placed fromft. toft.		- :	
		JJN 1 1990		
	Surface seal: Yes No To what depth? 26 ft.			
	Material used in seal <u>Bentonite</u>			
	Did any strata contain unusable water? Yes No X			
	Type of water?Depth of strata	This document was part of the official		
	Method of sealing strata off			
7)	PUMP: Manufacturer's Name	Administrative Record for the Yakima		
	Туре: Н.Р	Railroad Area on October 31, 1996.		
3)	WATER LEVELS: Land-surface elevation above mean sea level	Washington State		
	Static level 12 ft. below top of well Date 4-18-89	Department of Ecology.	ca Î.a≱.	
	Artesian pressure lbs. per square inch Date			
	Artesian water is controlled by(Cap, valve, etc.))			
))	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 4-18 19.80 mpleted	4 - 18	_ _{. 19} 89
•	Was a pump test made? Yes No If yes, by whom? Bach	WELL CONCEDUATOR CERTIFICATION		
	Yield: gal./min. with ft. drawdown after hrs.	WELL CONSTRUCTOR CERTIFICATION:		
	n n n	I constructed and/or accept responsibility for constr and its compliance with all Washington well const	ruction st	andards
	n n n	Materials used and the information reported above a knowledge and belief.	re true to	my best
	Recovery data (time taken as zero when pump turned off) (water level measured rom well top to water level)	knowledge and belief.		
	lime Water Level Time Water Level Time Water Level	NAME Bach Well Drilling Co.		
	100 GPM @ 50° . 60 GPM @ 40°	(PERSON, FIRM, OR CORPORATION)	(TYPE OR	PRINT)
-	100 dim @ Jo	Address 2111 Birchfield Rd. Yal	cima.V	۷a.
-	Date of test	$C \setminus C$		
		(Signed) CON DU Sicense No	1436	5
	Bailer test gal./min. with ft. drawdown after hrs.	Contractor's (WELL DRILLER)		
	Airtest gal./min. with stem set at ft. for hrs.	Registration C4 CONTT	20	19 89
	Artesian flow g.p.m. Date	No.BACHWDC1 37NU Date 4-3		, 19 <u> </u>
,	emperature of water Was a chemical analysis made? Yes No 🔏	(USE ADDITIONAL SHEETS IF NECESSA	ARY)	

WATER WELL REPORT

STATE OF WASHINGTON

Application	No.	

		Permit No
(1)	OWNER: Name JOSE C. NUNEZ	Address 907 WILSON LN
		_ NE 4 SE 4 Sec. 30 T/3 N, R /9 W.M
	g and distance from section or subdivision corner	—
		TOTAL TOTAL TOTAL
(3)	PROPOSED USE: Domestic 💆 Industrial 🗆 Municipal 🗆	
Irrigation Test Well Other		show thickness of aquifers and the kind and nature of the material in each
(4)	TYPE OF WORK: Owner's number of well	stratum penetrated, with at least one entry for each change of formation
\ - <i>/</i>	New well Method: Dug Bored	7
	Deepened 🗌 . Cable 🗍 Driven	TOP SOIL D 2
	Reconditioned 😿 Rotary 🗌 Jetted 🗌	COMBLOMERATE 5 33
(5)	DIMENSIONS: Diameter of wellinches.	
	Drilledft. Depth of completed wellft.	
(B)	CONCEDICATION DEMANA	
	CONSTRUCTION DETAILS:	
	Casing installed: 2 "Diam. from 0 ft. to 33 ft.	
	Threaded	
	Perforations: Yes No 💢	
	Type of perforator used	
	SIZE of perforations	, ,
	perforations from ft. to ft.	
	perforations from ft. to ft.	.
	Screens: Yes No V	
	Manufacturer's Name	
	Type Model No	
	Diam, Slot size from ft. to ft.	. ———————————————————————————————————
	Diam Slot size from ft. to ft.	: I — ? ? ? ? F ! V F !) — —
	Gravel packed: Yes No 😿 Size of gravel:	1 2 0 C 1 V C 0
	Gravel placed from	
		MAY 3 1977
	Surface seal: Yes No To what depth?	
	Material used in seal DENTONITE SEMENT CROUT Did any strata contain unusable water? Yes No	OCI /III III O
	Did any strata contain unusable water? Yes No Type of water?	
	Method of sealing strata off	
(7)	DIIMD.	Aut official
(1)	PUMP: Manufacturer's Name	This document was part of the official
	Type: H.P	This document was part of the Yakima Administrative Record for the Yakima Administrative ap October 31, 1996.
	WATER LEVELS: Land-surface elevation load ft.	Balled and Wilds (III) Colors
Static	e level 20' ft. below top of well Date 4-15-77	
	ian pressure	
	Artesian water is controlled by(Cap, valve, etc.)	#gp#
(0)		
	lowered below static level	Work started. 4-15, 19.77 Completed. 4-15, 19.77
Was a Yield:	a pump test made? Yes \(\simega\) No \(\simega\) If yes, by whom?	WELL DOLLEDS CHAMPATAM
,,	gal./min. with ft. drawdown after hrs.	
,,	11 11	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Recov	very data (time taken as zero when pump turned off) (water level	
m	easured from well top to water level)	NAME JENSEN'S WELL ORILLING FORIUL
Tim	te Water Level Time Water Level Time Water Level	(Person, firm, or corporation) (Type or print)
*******		Address 1603 So. 187* AUE
		1 -711
ار	ate of test	
	ate of testgal./min. withft. drawdown afterhrs.	[Signed] (Well Driller)
iler Artesi		(Well Driller)

File Origina? and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy

WATER WELL REPORT

Application No.

	SIAIE OF V	VASHINGT	UN	Permit No				
(1) OWNER: Name RAINIET	Plaitics	Address	1101 LEdwick	7 Jak	ime l	زری		
(2) LOCATION OF WELL: County								
; and distance from section or subdivision cor		***************************************		sec				
		(10)	** ***********************************					
	rial 🖳 Municipal 🗌	(10) WE	LL LOG:					
Irrigation Test V	Irrigation Test Well Other			Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each				
	YPE OF WORK: Owner's number of well ,		retrated, with at least one e	ntry for each ci				
New well Method: I		<u></u>	MATERIAL		FROM	то		
• -	Cable Driven	Orice	rela Bolders		2	<u>;</u>		
Reconditioned	Rotary Jetted	1	_					
(5) DIMENSIONS: Diameter of well	jnches.	1/4/	BERUIN			6		
	well 55 1t.	<u> </u>	Busin Grasel	Backer	i	/ 3		
(A) CONCERNATION DEPARTS		16-16-4	USUD LIZZET	1 2				
(6) CONSTRUCTION DETAILS:	 :	642 110	1 x Sund		, ,	7.5		
Casing installed: Diam. from		The state of	- Jack					
Threaded ☐		Sant			24	7.07		
	16. 60							
Perforations: Yes 🗆 No 🖫		Some be	Elmina & Pl	deen	1 1-7	سنا " ت		
Type of perforator used			· · · · · · · · · · · · · · · · · · ·					
SIZE of perforations in. 1								
perforations from		· · · · · · · · · · · · · · · · · · ·	······································					
perforations from	ft. to ft.							
Screens: Yes No		<u> </u>						
Manufacturer's Name		l 						
Туре Мос		l	-					
Diam Slot size from			Nisionalda					
Diam Slot size from	It. to It.							
Gravel packed: Yes No Size of	gravel:		Ui	ji i				
Gravel placed from ft. to	o <u>ft.</u>		MAR - 3 1982					
Surface seal: Yes - No - To what do	enth? / 4							
Material used in seal Den Tinit			DEPARTMENT OF FO					
Did any strata contain unusable water?		† <u>[</u>	CONTRAL CHOICE					
Type of water? Depth of								
Method of sealing strata off		ļ ———		t of the office	ial -			
(7) PUMP: Manufacturer's Name		T)	nis document was par	tol lie oili	ma			
Туре:		A	dministrative Record	for the Taki	6			
(8) WATER LEVELS: Land-surface elevate above mean see level			Railroad Area on Octo	<u>iner 31, 199</u>	, , , , , , , , , , , , , , , , , , ,			
above mean sea let Static levelft, below top of well	/elft.	l		State				
Artesian pressure		l	Department of 6	∍cology.				
Artesian water is controlled by(Cr	np, valve, etc.)		· · · · · · · · · · · · · · · · · · ·					
(9) WELL TESTS: Drawdown is amount lowered below static		Work starte	d2/10/ 1952 (Completed 2	13	19.5-2		
Was a pump test made? Yes ☐ No ☐ If yes, by wh	iom?	l ——	RILLER'S STATEME			 ,		
Yield: 30 gal./min. with ft. drawdow	n after hrs.							
D D	**	true to the	ell was drilled under my e best of my knowledge	jurisdiction a and belief.	nd this r	report is		
Recovery data (time taken as zero when pump turn	ned off) (water level		/					
measured from well top to water level)	•	NAME	Youlin DR	ILLING				
Time Water Level Time Water Level T	ime Water Level		(Person, firm, or corpo	oration) (T	ype or pr	int)		
	*******************************	Address	Kt 3.Bux	3350	Sel	ah		
			a "	~ ·				
ate of test		[Signed]	Jan 112)	Trem				
Bailer testgal./min. withft. drawdo	wn afterhrs.	[[o.g.rea]	(W	ll Driller)	•••••••	•••••		
Artesian flowg.p.m. Date		License No	0357	Date 2/15	_	:ست 10		
Temperature of water Was a chemical analysis	unadet 1es □ No □			wave fr. f. f J	***************************************	., 13- <i>2</i> 1*		

WATER WI

Second Copy - Owner's Copy	ELL REPORT WASHINGTON Application No.
(1) OWNER: Name BILL Shields	Address IIII Leaven Fairma (1890)
" OCATION OF WELL: County	- 116 14 N. 10 14 Sec. 10. T. 13. N., R. 17. W.M.
and distance from section or subdivision corner	A Security Indiana, N. R. A. W. M.
(3) PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG:
Irrigation Test Well Other	Formation: Describe by color character size of material and atmestical and
(4) TYPE OF WORK: Owner's number of well	show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
New well Method: Dug Bored	MATERIAL FROM TO
Deepened	SANA + G-VAUCL 60 ICC
Reconditioned Rotary D Jetted	
(5) DIMENSIONS: Diameter of well inches. Drilled ft. Depth of completed well ft.	
Drilled 100 ft. Depth of completed well 96 ft.	
(6) CONSTRUCTION DETAILS:	
Casing installed:	
Threaded Diam. from ft. to ft.	
Welded Diam. from ft. to ft.	
Perforations: Yes P No - + M 11- K-C	
Type of perforator used	
SIZE of perforations	
perforations from 25 ft. to 40 ft.	
perforations from ft. to ft	
Screens: Yes No D	
Type	
Diam, Slot size from ft. to ft.	
Diam.'	
Gravel packed: Yes No Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Vos E No E To What double 18	
Surface seal: Yes No Do What depth? But It.	
Did any strata contain unusable water? Yes 🗆 No 🖸	
Type of water? Depth of strata	Special Control of the Control of th
- 	II li series and the official
(7) PUMP: Manufacturer's Name	I trivia document was naft of the unitide
Туре: Н.Р	Administrative Record for the Jakima
(8) WATER LEVELS: Land-surface elevation above mean sea levelft.	Haailroad Area on October 31, 1994
tatic levelft. below top of well Date	OFFICE Washington State
Artesian pressure	CENTR Department of Ecology.
Artesian water is controlled by(Cap, valve, etc.)	
9) WELL TESTS: Drawdown is amount water level is	10/22 5/4
Vas a pump test made? Yes No If yes, by whom?	Work started
field: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n n	This well was drilled under my jurisdiction and this report is
0 n n n	true to the best of my knowledge and belief.
decovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	Paul in ME Laure Dulling
Time Water Level Time Water Level Time Water Level	NAME (Person, firm, or corporation), (Type or print)

Gravel placed from ft. to ft. Material used in seal..... Did any strata contain unusable water? Yes □ Type of water?..... Depth of strata..... Method of sealing strata off..... (7) PUMP: Manufacturer's Name..... (8) WATER LEVELS: Land-surface elevation above mean sea level....ft. below top of well Date..... Static level ... Artesian pressurelbs, per square inch Date..... Artesian water is controlled by..... (Cap, valve, etc.) Drawdown is amount water level is lowered below static level (9) WELL TESTS: Was a pump test made? Yes □ No □ If yes, by whom?..... gal./min. with ft. drawdown after hrs. ,, ,, Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level) Time Water Level | Time Water Level | Time Bailer test.....gal./min. with......ft, drawdown after.....hrs. Artesian flow......g.p.m. Date..... Temperature of water...... Was a chemical analysis made? Yes ☐ No ☐ ECY 050-1-20

NAME Poulin	ME Guir	e Drilling.
	rm, or corporation)	(Type or print)
Address ///		***************************************
[Signed]	el.	
LG,/	(Well Driller)	***************************************

License No.... Date.....

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