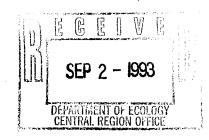
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WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

P. O. Box 1709 4200 Main Street Vancouver, WA 98663 (206) 696-6518



Cleanup Action for the WSDOT Property at

RIMROCK

Junction U.S. 12 & SR 410 Naches, Washington

Fuel Tank Replacement Phase 3 1990 October 1991

SEP 2 - 1993

DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Rimrock DOT Facility Junction US 12 & SR 410 Naches, Washington

On May 7, 1991, Washington State Department of Transportation (DOT) and its contractor, Stokes Construction, Inc. of Seattle, WA removed a 500 gallon unleaded tank and a 1,500 gallon diesel tank. The unleaded tank had two holes in the north end of the tank.

Because of the odors present during tank removal, additional excavation of contaminated soils was done. The contaminated material was stockpiled on site.

Seven soil samples were taken from the excavation and one water sample was taken from the ponding area to the west of the site. The soil samples yielded results up to 4,800 ppm gas and up to 270 ppm as diesel. High levels of BTEX were also present. No contamination was found in the water sample.

On June 14, 1991, additional excavation of contaminated soils was performed using a DOT backhoe and operator. Soil samples 21, 22, and 23 were taken from the excavated area at the end of the day. Sample 22 yielded 8,400 ppm as aged gas/diesel.

On June 25, 1991, excavation was again performed using a DOT backhoe and operator. The excavated material was stockpiled on site. At the end of the day, samples 41 through 49 were taken. The results of these samples showed that high levels of contamination still existed in the center area and the south end of the excavation.

On July 11, 1991, additional excavation was done using a DOT backhoe and operator. At the end of the day, samples 51 through 55 were taken. The results of these samples showed the high levels of contamination had finally been removed. However, sample 51 was 110 ppm as aged gas/diesel and sample 54 was 340 ppm as aged gas/diesel. These samples were taken adjacent to the shop building. Further excavation in the direction of the remaining contamination would damage the building.

The excavated contaminated soil was placed into a land farm on site. The material was spread out into a layer about 12" thick.

The DOT is requesting a conditional closure of this site due to the contamination extending under the shop building. When the shop building is removed or before the property is sold, the contaminated areas will be re-excavated, tested, and treated in accordance with regulations then in place. A copy of this report shall be kept in the DOT facility file at all times.

Soil samples will be taken from the land farm. When the Total Petroleum Hydrocarbons (TPH) results due to diesel contamination are all below 200 ppm and/or due to gasoline contamination are all below 100 ppm, the land farm will be considered closed and a supplemental report will be prepared.

APPENDIX

RIM ROCK	(040)
	10 D
	6
SHOP	
	(O O)
BUILDING	
	SAMPLES TAKEN
	WERE S'=DEEP

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2 EMOUED:	
1-500 gal Unleoded	
1-1500 gal diesel	

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: WA State Dept. of

Transportation

Date: May 17, 1991

Report On: Analysis of Soil & Water

Lab No.:

17508

IDENTIFICATION:

Samples Received on 05-08-91

Project: Rim Rock

ANALYSIS:

Lab Sample No.	1	2	3	4
Client Identification	#1	#2	#3	#4
Matrix/Units	Soil mg/kg	Soil mg/kg	Soil mg/kg	Soil mg/kg
Benzene Toluene Ethyl Benzene Xylenes	5.5 130 32 340	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 0.20 < 0.05 0.62	0.41 2.7 0.73 6.9
BTEX by EPA SW-846 Method 8020				
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	1,500	< 10.0	94	270
TPH as	Aged Gas		Diesel	Diesel

Note - BTEX and TPH 8015 soil results reported on an as received basis.

SOUND / NALYTICAL SERVI ES, INC.

WA State Dept. of Transportation Project: Rim Rock Page 2 of 2 Lab No. 17508 May 17, 1991

Lab Sample No.	5	6	7	8
Client Identification	#5	#6	#7	#8
Matrix/Units	Soil mg/kg	Soil mg/kg	Soil mg/kg	Water mg/l
Benzene Toluene Ethyl Benzene Xylenes BTEX by EPA SW-846 Method 8020	0.44 5.3 1.3 15.	0.51 14 3.1 62	9.0 190 62 420	< 0.001 < 0.001 < 0.001 < 0.001
Total Petroleum Fuel Hydrocarbons by EPA SW-846 Modified Method 8015	49	380	4,800	< 1.0
TPH as	Aged Gas	Aged Gas	Aged Gas	

Note - BTEX and TPH 8015 soil results reported on an as received basis.

SOUND ANALYTICAL SERVICES

C. YARRY ZURAN

SOUND ANALYTICAL SERVI ES, INC.

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

Report To: WA State Dept. of

Transportation

Date: June 18, 1991

Report On: Analysis of Soil

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Lab No.:

IDENTIFICATION:

Samples Received on 06-14-91

Project: Rim Rock

ANALYSIS:

Lab Sample No.	Client ID	*Total Petroleum Fuel Hydrocarbons, mg/kg
1	社 21	< 10
2	22 22	8,400 as Aged Gas/Diesel
3 ,	** 13	< 10

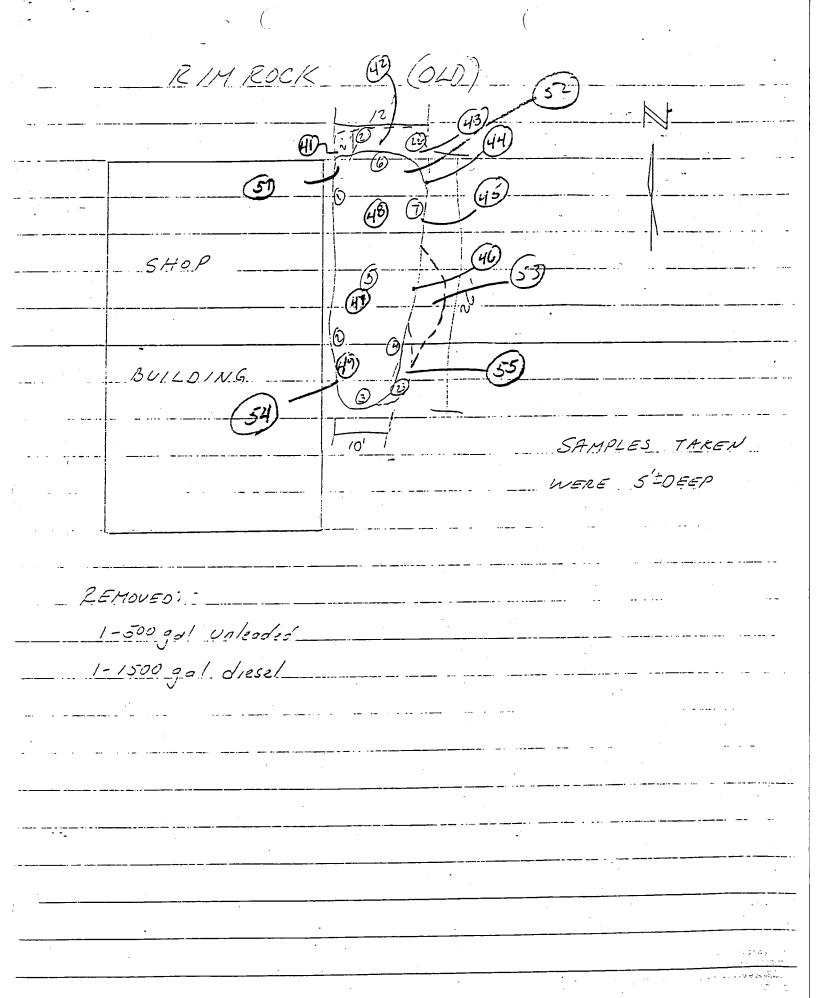
*TPH by EPA SW-846 Modified Method 8015
Note - Results reported on an as received basis.

SURROGATE RECOVERY, %					
Lab Sample No.	1	2.	3		
TPH by Mod 8015 1-Chloroctane Perylene	89 72	249* 76	93 75		

*Surrogate recovery invalid due to matrix interference.

SOUND AMALYTICAL SERVICES

C. LARRY ZURAW



SOUND (ANALYTICAL SERV 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: WA State Dept. of

Transportation

Date: July 3, 1991

Report On: Analysis of Soil

Lab No.: 18422

IDENTIFICATION:

Samples Received on 06-28-91

Project: Rim Rock

ANALYSIS:

<u>Lab Sample No.</u> 1	<u>Client ID</u> 41	*Total Petroleum Fuel Hydrocarbons, mg/kg
		< 10.0
2	42	22
		Aged Gas
3	43	29
		Aged Gas/Diesel
4	77 4210	210
		Aged Gas/Diesel
5	45	140 Aged Gas/Diesel
б	46	•
•	40	7,600 Aged Gas/Diesel
7	47	7,100
		Gas/Diesel
8	48	720
	•	Aged Gas/Diesel
9	49	1 200
		1,200 Aged Gas/Diesel

*TPH by EPA SW-846 Modified Method 8015

Note - Results reported on an as received basis.

SOUND (NALYTICAL SERV 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: WA State Dept. of

Transportation

Date: July 15, 1991

Report On: Analysis of Soil

Lab No.: 18642

IDENTIFICATION:

Samples Received on 07-11-91

Project: Rimrock

ANALYSIS:

Lab Sample No.	Client ID	*Total Petroleum Fuel Hydrocarbons, mg/kg
- 1	51	110 🛠
	•	Aged Gas/Diesel
. 2	52	45
		Aged Gas/Diesel
3	53	85
		Aged Gas/Diesel
4	54	340 X
		Aged Gas/Diesel
5	55	58
		Aged Gas/Diesel

*TPH by EPA SW-846 Modified Method 8015 $\frac{1}{K}$ NExt to BLUG, Note - Results reported on an as received basis.

	SUR	ROGATE REC	OVERY, %	·	
Lab Sample No.	1	. 2	3	4	5
TPH by Mod 8015 1-Chlorooctane Perylene	106 84	86 72	101 65	104 73	84 75

SOUND ANALYTICAL SERVICES

. LAKRY ZURAW