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CRO

SITE ASSESSMENT REPORT  
UNDERGROUND STORAGE TANK CLOSURE  
AT  
UNION PACIFIC RAILROAD  
Yakima branch  
Tanks 6, 7, and 8  
**LUST**  
November 1990

DEPARTMENT OF ECOLOGY  
UNDERGROUND STORAGE TANKS  
RECEIVED  
NOV 13 1990

By  
U.S. Pollution Control, Inc. (USPCI)  
5665 Flatiron Parkway  
Boulder, CO 80301



**USPCI, INC.**

Remedial Services

November 8, 1990

Susan Bergdorf  
Underground Storage Tank Notification  
Hazardous and Solid Waste Program  
Department of Ecology, M/S PV-11  
Olympia, WA 98504-8711

RE: Underground storage tank (UST) removal at Union Pacific's  
Yakima Branch

Dear Ms. Bergdorf:

U.S. Pollution Control, Inc. (USPCI) has recently completed a closure of eight USTs in the Union Pacific Railroad system. Enclosed is the closure report for three of these tanks located at Yakima Branch in Yakima County, Washington. We are pleased to report that no evidence of leakage was discovered for tanks 6, 7, and 8. A clean closure report was prepared in January of 1990 for tanks 2, 3, and 5. It was determined that tanks 1 and 4 were leaking and a site investigative report has been prepared separately.

If you have any questions, please do not hesitate to call.

Sincerely,

Curt Hull  
Program Manager  
Environmental Assessments

Enclosure

cc: Alan Jensen, UPRR  
Roger Fitch, UPRR  
John Yellich, USPCI  
Steve Beck, USPCI

## INTRODUCTION

U.S. Pollution Control, Inc. (USPCI), a wholly-owned subsidiary of Union Pacific Corporation, removed eight underground storage tanks owned and operated by Union Pacific Railroad at the Yakima Branch in Yakima County, Washington on July 13 and 14, 1990. Alan Jensen, Manager of Engineering Maintenance at Union Pacific, was the contact person. This assessment report includes a brief description of the removal procedure and on-site monitoring results for tanks 6, 7, and 8. A clean closure report was prepared in January of 1990 for tanks 2, 3, and 5. It was determined that tanks 1 and 4 were leaking and a site investigative report has been prepared separately. Notification forms, site plans, and analytical results are attached.

## NOTIFICATIONS

In a letter dated September 13, 1989, USPCI notified the Washington Department of Ecology, M/S PV-11 of the existence and removal of three tanks at this location. However, after the excavation began eight tanks were discovered and removed. An amended copy of the notification form is attached. All tank references in this report refer to the numbers and capacities given in the notification.

## TANK CLOSURES/ON-SITE MONITORING

The tanks were closed by removal. No in-place closures were performed. Throughout the tank closure process, the atmosphere in the vicinity of the excavations was monitored with a photoionization detector to test the presence of volatile organics. This testing was performed in order to determine the need for respiratory protection during the excavation process and as a preliminary test for leakage. The tanks were purged with dry ice to bring the internal atmospheres of tanks 6 and 7 to 0% of the lower explosive limit (LEL) and tank 8 to 2% (LEL) before the tanks were removed from the ground.

After removal of the tanks, three soil samples were pulled from each excavation area and sent to Industrial Laboratories in Denver, Colorado for analysis of BTEX and total petroleum hydrocarbons. The samples had concentrations below significant levels or below detectable limits, indicating that no leaks had occurred. The tanks were disposed of by Tanks Away of Colorado. The disposal certificates are on file at USPCI's Environmental Assessments Department in Boulder, Colorado. The analytical results are attached.

Site observations and analytical results indicate no leaks and clean closures were performed.

## ATTACHMENTS

- Notification Letter
- Site List
- Tank Notification Form
- Site Maps
- Analytical Reports
- Notice of Permanent Closure



**USPCI, INC.**

Remedial Services

September 13, 1989

Underground Storage Tank Notification  
Hazardous and Solid Waste Program  
Department of Ecology, M/S PV-11  
Olympia, WA 98504-8711

This letter serves as the 30 day notice of the Union Pacific Railroad's intention to remove 25 underground storage tanks in Washington. USPCI, a wholly owned subsidiary of the Union Pacific Corporation, will perform the removals and accompanying site assessments. The attached list is the tanks and their locations that will be removed. All removal and tank cleaning will be done in accordance with 40 CFR 280 and 281, 29 CFR 1910, API Bulletin No. 1604, and API Publication No. 2015.

All liquids in the tanks will be removed for reuse or recycling by either the Union Pacific Railroad or USPCI prior to tank removal.

Throughout excavation of the tank a photoionization detector along with visual inspection of the soil will be used to detect the presence of contamination. If contamination is found the Washington Department of Ecology will be notified within 24 hours. On-site gas chromatograph analysis will also be used to determine the extent of contamination. Once the on-site instruments indicate that all contaminated soils have been removed a minimum of three samples will be collected in the excavation for off-site laboratory analysis. These samples will be analyzed for Total Petroleum Hydrocarbons, and in the gasoline tank excavations EP toxicity for lead. If groundwater is encountered in the excavation a sample will be collected and analyzed for the same analytes.

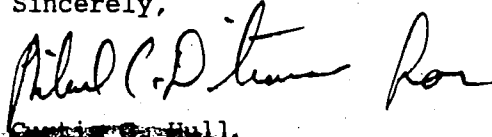
The Washington Department of Ecology will be consulted to determine the proper disposal option for contaminated soil. The tanks will be cleaned and scrapped or disposed of in USPCI's industrial landfill in Utah.

5665 Flatiron Parkway  
Boulder, Colorado 80301  
(303) 938-5500  
FAX (303) 938-5520

Washington Department of Ecology  
September 13, 1989  
Page 2

This is a brief description of how work will proceed in these tank removals. If you have any questions, please call me at (303)938-5569.

Sincerely,



~~Curtis G. Hull.~~  
Senior Geologist  
Environmental Assessments

CGH:mr

Attachment

cc: J. A. Yellich, USPCI  
S. Beck, USPCI  
A. Jensen, UPRR  
R. Fitch, UPRR

Union Pacific Railroad - UST in Washington

<u>Location</u>	<u>Tank No.</u>	<u>Size</u>	<u>Contents</u>
Cheney	1	500	Gasoline
Chester	1	500	U
Dishmen	1	500	Diesel
Garfield	1	500	Diesel
Garfield	2	500	Gas
Hooper Junction	1	500	Gas
Hooper Junction	2	250	Gas
La Cross	1	250	Gas
Matthews	1	500	Gas
Oakesdale	1	500	Gas
Page	3	250	Gas
Page	4	250	Gas
Prescott	1	500	Gas
Riparia	1	500	Gas
South Elma	1	250	Gas
Starbuck	1	500	Gas
Tekoa	1	500	Gas
Tekoa	2	500	Diesel
Thorton	1	500	Gas
Touchet	1	500	Gas
Walker	1	500	Gas
Winona	1	500	Gas
Winona	2	500	Gas
Yakima	1	10,000	Diesel
Yakima	2	1,000	Diesel

# WASHINGTON STATE UNDERGROUND STORAGE TANK NOTIFICATION FORM

**IMPORTANT: PLEASE READ ALL INSTRUCTIONS ON PAGES 1, 1 AND 1-2 BEFORE ENTERING INFORMATION.**

- ABOVEGROUND TANKS MUST BE REPORTED IF THE CONNECTED UNDERGROUND PIPING COMPRISES AT LEAST 10% OF THE OVERALL STORAGE SYSTEM (TANK AND PIPING).
- A SEPARATE FORM MUST BE USED FOR EACH SITE, EXCEPT FOR SITES WITH ONLY ONE TANK EACH. SEE THE GENERAL INSTRUCTIONS (PAGE 1-2) FOR THE DEFINITION OF A SITE AND DETAILS ON REPORTING SITES WITH ONE TANK EACH.
- THERE IS ROOM IN SECTION VI FOR INFORMATION CONCERNING 15 TANKS IF YOU HAVE MORE THAN 15 TANKS. PHOTOCOPY BOTH PAGES OF SECTION VI BEFORE ENTERING ANY INFORMATION IF YOU HAVE MORE THAN ONE SITE. EITHER OBTAIN MORE FORMS FROM THE DEPARTMENT OF ECOLOGY OR BE SURE TO ALSO PHOTOCOPY THIS PAGE.)
- PLEASE TYPE OR PRINT IN INK. THE SIGNATURE UNDER "CERTIFICATION" (SECTION V) MUST BE SIGNED IN INK.

STATE USE ONLY

### I. GENERAL INFO OF THE TANK(S)

Please enter information regarding the owner of the tank(s) if the ownership of the tank(s) is uncertain, enter information regarding the owner of the property where the tanks are located, or information regarding the former owner of the tanks. Please circle the correct letter, indicating who the information given below refers to:

- A.  **OWNER OF TANK(S)**    B.  **CURRENT OWNER OF TANK(S)**    C.  **FORMER OWNER OF TANK(S)**    D.  **PROPERTY OWNER**

**OWNER (PLEASE SPECIFY)**

UNION PACIFIC RAILROAD

1916 DODGE STREET

OMAHA

402-271-2262

60179

NE

68131

**TYPE OF OWNER AT FACILITY (CIRCLE CORRECT CODE(S))**

CODE	TYPE	CODE	TYPE	CODE	TYPE
A	Residence	M	City/Town	S	Port District
B	Self Plant	N	County	T	Utility District
C	Production/Distributor	O	State	U	Fire Dept./District
D	Construction Sites	P	Farm	V	Other Special Service District (e.g., sewer, water)
E	Auto Dealer	Q	Federal (Non-Military)*	Other	
F	Other Commercial/Retail	R	Richard District		

\*FEDERAL FACILITIES ONLY: Please give year OSA Facility ID Number (Building Number)

### II. CONTACT PERSON AT THE TANK LOCATION

This contact person should be the individual responsible for regularly monitoring the operation of the tank(s)

RULEADES

DIVISION ENGINEER

503-249-2314

### III. SITE OF THE TANK(S)

(If the same as Section I, mark box here  See the General Instructions (Pages 1-2, 2 a) for the definition of a site.

YAKIMA ROUNDBOUSE AND DEPOT

Facility Name or Company Site Name as applicable (IF THE FACILITY IS OPERATED BY A LEASEE OR RENTER, THE NAME OF THE CORPORATION, INDIVIDUAL, PUBLIC AGENCY OR OTHER ENTITY WHICH OPERATES THE FACILITY SHOULD BE ENTERED HERE.)

NW 1/4 SECTION 30 T3N R19E

Street Address or Route Road where the tanks are located (IF NO STREET ADDRESS OR STATE ROAD, PLEASE ENTER THE LONGITUDE AND LATITUDE OR TOWNSHIP, RANGE, AND QUARTER SECTION WHERE THE TANKS ARE LOCATED)

YAKIMA

City

YAKIMA

County

WA

State

11/7/96

Amended

### IV. THE TOTAL NUMBER OF TANKS AT THIS SITE

1. Number of tanks containing petroleum, which are now in use
  2. Number of tanks which have stored petroleum, but are not now in use
  3. Number of tanks containing regulated chemicals, which are now in use
  4. Number of tanks which have stored regulated chemicals, but are not now in use
- TOTAL NUMBER OF TANKS: 8

Please mark this box if the site is located on land within an Indian reservation or on other Indian trust lands

### V. CERTIFICATION (Please read and sign after completing Section VI.)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents to the best of my knowledge and belief, the submitted information is true, accurate, and complete.

L.A. SCHMID

ENVIRONMENTAL ENGINEER

4-29-86

Signature (PLEASE SIGN IN INK)

Date Signed

5 tanks on 007786

3 tanks on 008037



# VI. INFORMATION REGARDING INDIVIDUAL TANKS (See instructions regarding individual tanks, Page 1-2,

a. Tank Identification	b. Tank Status	c. Age of the Tank	d. Capacity of the Tank	e. Tank Construction	f. Leak Detection	g. Cathodic Protection	h. Internal Protection
1	C	UNK	A	A	O	F	H
2	C	G	E	A	O	E	H
3	C	G	C	A	O	F	H
4	C	UNK	E	A	O	F	H
5	C	UNK	A	A	O	F	H
6	C	UNK	E	A	O	F	H
7	C	UNK	A	A	O	F	H
8	C	UNK	D	A	O	F	H

**These Items Refer Only to Tanks Permanently Out of Service. Please Leave the Rows for the Tanks Still in Service Blank.**

Tank Identification	External Protection of the Tank	Lining	Type of Substance Current	Date of Last Use	Quantity Left in the Tank	Was the Tank Filled?
1	F	M	A	UNK	0	C
2	I	M	B-M	06/79	0	C
3	I	M	D	06/85	50	C
4	F	M	D	UNK	100	C
5	F	M	A	UNK	0	C
6	I	M	D	UNK	0	C
7	I	M	A	UNK	0	C
8	I	M	D	UNK	0	C

**1. External Protection of the Tank**  
Please put the correct letter for each tank in the appropriate row of the column below. (If "Other" (O) or "Unknown" (U) please also enter the type of coating used or wrapping.)

A Asphalt Coated  
B Fiberglass Reinforced Plastic Coated  
C Epoxy Coated (please specify)  
D Vinyl Wrapped  
E Polyethylene Wrapped  
G Other Wrapping (please specify)  
H Unknown

**2. Lining**  
Please enter all the letters which apply to the portion of the lining which is unlined. (If "Other" (O) please also enter the type of material.)

A Bare Steel  
B Galvanized Steel  
C Fiberglass Reinforced Plastic  
D Other Material (please specify)  
E Coated with non-corrosive materials  
F Cathodically Protected  
G Double-lined  
H Protected with secondary containment  
I In contact with material other than liquid  
K In contact with material other than liquid  
L Not in contact with liquid or gaseous material  
M Double or triple lined  
N None of the piping is underground

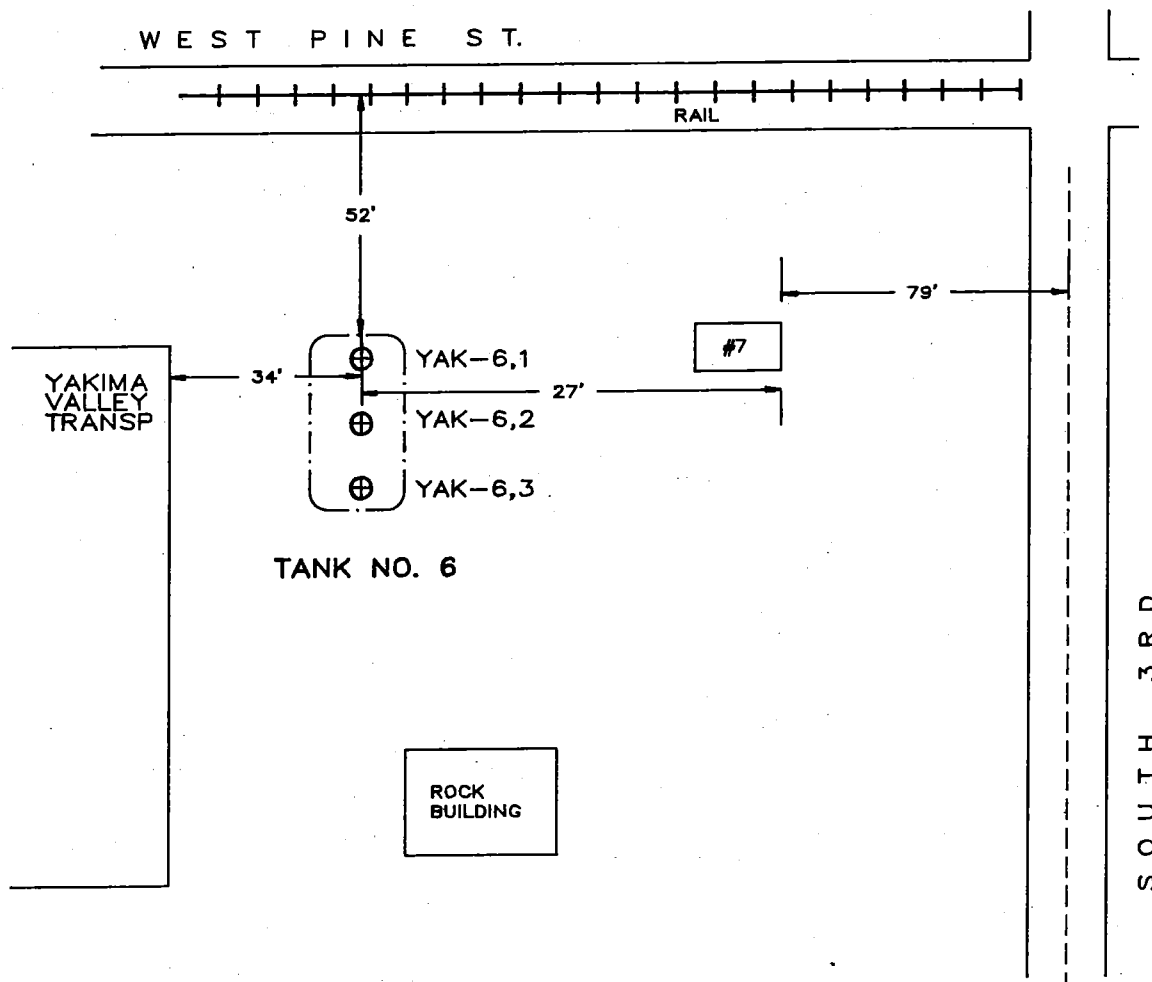
**3. Type of Substance Current**  
Please put the correct letter for each tank in the appropriate row of the column below.  
1 If the substance is a hazardous substance (J) rather than a petroleum product, please also enter the name of the substance or its Chemical Abstract Service (CAS) number (See "What Substances Are Covered?" on page 1 of the instructions for information regarding hazardous substances)  
2 If different substances are stored in the tank at different times, or if a mixture of substances is stored, please enter all letters which apply.

A Leaded gasoline  
B Unleaded gasoline  
C Alcohol denatured gasoline  
D Diesel fuel  
E Aviation fuel  
F Kerosene  
G Nos 1, 2, or 4 fuel oil  
H Nos 5 or 6 fuel oil  
I Used oil/Waste oil  
J Hazardous substance  
K Other (Please specify)  
L Unknown  
M Empty

**4. Date of Last Use**  
If the exact month and year of last use isn't known, please enter an estimate (Use two digits for the month and two for the year, e.g., 0884.)

**5. Quantity Left in the Tank**  
If the exact amount left in the tank isn't known, please enter an estimate, in gallons.

**6. Was the Tank Filled?**  
Was the tank filled with an inert material, such as sand or concrete? Was it filled with water? Please put the correct letter in the appropriate row of the column below.  
A The tank was filled with an inert material.  
B The tank was filled with water.  
C The tank was not filled.  
D Unknown



LEGEND

-  SAMPLE LOCATION
-  EXCAVATION BOUNDARY

**USPCI**

A Subsidiary of  
Union Pacific Corporation

UNION PACIFIC RAILROAD

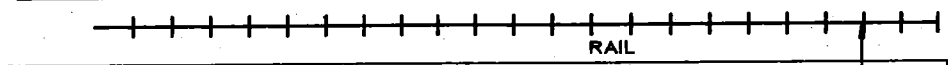
SITE PLAN  
YAKIMA, WASHINGTON

SCALE: NONE

APPROVED/DATE

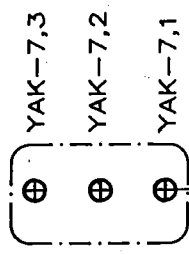


WEST PINE ST.



YAKIMA  
VALLEY  
TRANSP

ROCK  
BUILDING



TANK NO. 7

SOUTH 3RD

LEGEND

- ⊕ SAMPLE LOCATION
- - - - EXCAVATION BOUNDARY

**USPCI**

A Subsidiary of  
Union Pacific Corporation

UNION PACIFIC RAILROAD

SITE PLAN  
YAKIMA, WASHINGTON

SCALE

NONE

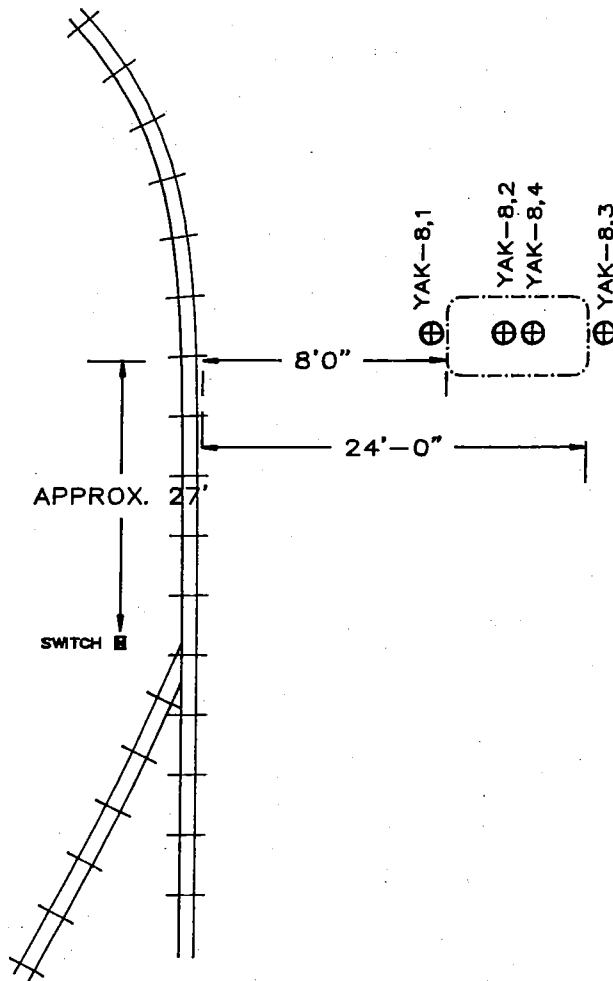
APPROVED/DATE



WEST PINE STREET

YAKIMA  
VALLEY  
CAR BARN

SOUTH 4TH



LEGEND

-  SAMPLE LOCATION
-  EXCAVATION BOUNDARY

**USPCI**

A Subsidiary of  
Union Pacific Corporation

UNION PACIFIC RAILROAD

SITE PLAN  
YAKIMA, WASHINGTON

SCALE: NONE

APPROVED/DATE



**i n d u s t r i a l  
LABORATORIES**

**THE INDUSTRIAL LABORATORIES COMPANY**

**Complete Consulting Chemistry Service  
Bacteriological & Analytical Testing**

1450 East 62nd Avenue  
P.O. Box 16207  
Denver, Colorado 80216  
(303) 287-9691 FAX (303) 287-0964

**Analysis Report**

USPCI, INC.  
5665 FLATIRON PARKWAY  
BOULDER, CO 80301  
CURT G. HULL

Page: 1  
Date Received: 06/22/90  
Date Reported: 08/29/90  
Lab Number: 5684  
Customer P.O.: 93409

**Sample Marked:** SOIL, UST. UPRR. PROJECT 93409

SAMPLE NO	TOTAL PET- ROLEUM HY- DROCARBONS PPM	BENZENE PPM	TOLUENE PPM	XYLENE PPM	ETHYL- BENZENE PPM
BENTON CITY 1-1-N. 6/15/90	100	ND<0.2	ND<0.2	ND<0.2	ND<0.2
BENTON CITY. 1-2-C. 6/15/90	30	0.7	1.6	ND<0.2	ND<0.2
BENTON CITY. 1-3-S. 6/15/90	70	0.6	1.0	ND<0.2	ND<0.2
KENNEWICK 1-1-N. 6/15/90	10	ND<0.2	0.3	ND<0.2	ND<0.2
KENNEWICK 1-2-C. 6/15/90	20	0.6	0.9	ND<0.2	ND<0.2
KENNEWICK 1-3-S. 6/15/90	110	3.0	5.1	ND<0.2	ND<0.2
WALLULA 1-1-C. 6/15/90	15	1.1	1.7	ND<0.2	ND<0.2
WALLULA 1-2-E. 6/15/90	12	1.0	1.8	ND<0.2	ND<0.2
WALLULA 1-3-W. 6/15/90	55	ND<0.2	0.5	ND<0.2	ND<0.2
YAKIMA 8-4-C. 6/13/90	35	0.4	0.7	ND<0.2	ND<0.2
KALEN 1-1-N. 6/12/90	25	0.6	1.1	ND<0.2	ND<0.2
KALEN 1-2-C. 6/12/90	45	1.0	1.7	ND<0.2	ND<0.2

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CONTINUED ON NEXT PAGE



# industrial LABORATORIES

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## Analysis Report

USPCI, INC.  
5665 FLATIRON PARKWAY  
BOULDER, CO 80301  
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Date Received: 06/22/90  
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Lab Number: 5684  
Customer P.O.: 93409

Sample Marked: SOIL, UST, UPRR, PROJECT 93409

SAMPLE NO	TOTAL PET- ROLEUM HY- DROCARBONS PPM	BENZENE PPM	TOLUENE PPM	XYLENE PPM	ETHYL- BENZENE PPM
KALEN 1-3-S, 6/12/90	20	0.7	1.8	ND<0.2	ND<0.2
YAKIMA 7-1-E, 6/13/90	40	12.9	29.1	0.5	1.3
YAKIMA 7-2-C, 6/13/90	45	2.4	4.0	ND<0.2	ND<0.2
YAKIMA 7-3-W, 6/123/90	10				
YAKIMA 7-3-W, 6/13/90		1.9	3.1	ND<0.2	ND<0.2
YAKIMA 8-1-E, 6/13/90	20	0.5	1.0	ND<0.2	ND<0.2
YAKIMA 8-2-C, 6/13/90	20	ND<0.2	0.5	ND<0.2	ND<0.2
YAKIMA 8-3-W, 6/13/90	70	ND<0.2	ND<0.2	ND<0.2	ND<0.2
YAKIMA 6-1-N, 6/14/90	60	3.3	5.5	ND<0.2	ND<0.2
YAKIMA 6-2-C, 6/15/90	85	0.5	1.1	ND<0.2	ND<0.2
YAKIMA 6-3-S, 6/14/90	25	0.9	1.7	ND<0.2	ND<0.2
GRANDVIEW 6-1-N, 6/15/90	50	0.3	1.4	ND<0.2	ND<0.2

CONTINUED ON NEXT PAGE

CONTINUED ON NEXT PAGE

Receipt of analysis services acknowledges the terms and conditions on the reverse side and acknowledges that they are part of this order.