Release 3983 S. Seattle Auto Auction Kent DEC 13 1994
DEPT. OF ECOLUGY

REPORT OF FINDINGS: Quarterly Groundwater Monitoring June 1994

> South Seattle Auto Auction 19443 77th Avenue South Kent, Washington

Conducted for:

South Seattle Auto Auction 19443 77th Avenue South Kent, Washington

Project Number: 572-34-261

August 17, 1994



Professional Service Industries, Inc.

12812 Northeast Marx Street, Portland, Oregon 97230 Phone (503) 254-8418 Fax (503) 252-5608

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INTRODUCTION

General

This report presents the findings of PSI Project # 572-34-261. This project provides for groundwater monitoring services relating to the previous release from the former underground storage tank (UST) system at the South Seattle Auto Auction facility located at 19443 77th Avenue South in Kent, Washington. This report presents the results of the second quarterly monitoring event conducted in February 1994.

Authorization

Authorization to perform the work was given in the form of a signed PSI proposal (572-34-261), dated October 19, 1993 between Professional Service Industries, Inc. and Ms. Linda P. Morris of Manheim Auctions, Inc.

Purpose/Scope of Services

The purpose of the investigation was to perform quarterly groundwater monitoring, sample collection and analysis, and report preparation associated with the previous release of petroleum hydrocarbons to groundwater at the South Seattle Auto Auction facility.

Quality Assurance/Quality Control (QA/QC)

All sampling and testing was performed in general accordance with EPA and State of Washington Department of Ecology approved methodologies. These methods are described in the PSI environmental analytical QA/QC program. This program is in compliance with various environmental regulatory agency policies and guidelines.

Project Background

The Washington Department of Ecology requires periodic monitoring of sites at which groundwater has been impacted by a release of petroleum hydrocarbons from underground storage tanks (USTs). A release of petroleum hydrocarbons was documented in October 1992 during the decommissioning of the former UST system at the South Seattle Auto Auction facility in Kent, Washington. Refer to the UST Closure Report dated February 19, 1993 prepared by PSI for details of UST closure.

The South Seattle Auto Auction site has ten (10) groundwater monitoring wells located adjacent to the auto shop complex at the southern end of the auto auction site. Quarterly groundwater monitoring was performed to assess the current status of hydrocarbon migration, dispersion, and possible decomposition of dissolved-phase petroleum hydrocarbons. A preliminary groundwater monitoring event was conducted in April 1993, immediately following installation of the first seven (7) groundwater monitoring wells. The results of the initial groundwater monitoring event indicated that impacts to groundwater had occurred at the site; petroleum hydrocarbons were detected in all seven site wells. Accordingly, three additional monitoring wells were installed in October 1993 to completely define the extent of the hydrocarbon plume. Details of monitoring well installation and initial groundwater monitoring were presented in the Site Characterization Report of Findings dated December 31, 1993.

JUNE 1994 GROUNDWATER MONITORING EVENT

Groundwater Sampling and Analysis

On June 10, 1994, a representative of PSI obtained fluid-level measurements and collected representative groundwater samples from the ten monitoring wells at the site. Monitoring wells were purged of three well volumes prior to collecting groundwater samples. Water samples were collected with disposable PVC bailers and transferred into zero-headspace 40-ml VOA vials with Teflon septums for BTEX analysis by EPA Method 8020 and Total Petroleum Hydrocarbons - Gasoline Range (TPH-G) using Washington DOE prescribed methods. One-liter amber bottles were used for total dissolved lead analysis using EPA Method 7421. The equipment used to purge the wells was decontaminated between sampling events with an Alconox wash followed by a tap water rinse and a distilled water rinse. The samples were preserved with hydrochloric acid (except the lead samples), chilled, and transported, accompanied by a Chain-of-Custody form, to PSI Laboratories, Inc. The results of the groundwater analysis are summarized in Table 1 below. Refer to the attached Laboratory Reports and Chain-of-Custody Records for the method detection limits. The attached Monitoring Well Summary provides details on groundwater monitoring well construction and sampling for the June 1994 groundwater monitoring event.

Table 1
Analytical Results for Groundwater Samples Collected from Site Monitoring Wells June 10, 1994 - South Seattle Auto Auction, Kent, Washington

Sample ID	TPH-G (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	Dissolved Pb (ug/l)
Regulatory Limit	1	5	40	30	20	5
MW-1	2	540	ND	ND	240	9
MW-2	120	21,000	16,000	1,800	9,100	2
MW-3	18	500	260	630	2,200	7
MW-4	ND	9.3	ND	ND	ND	11
MW-5	ND	ND	.ND	ND	ND	12
MW-6	470	38,000	59,000	6,400	44,000	7
MW-7	ND	ND	ND	ND	ND	6 _
MW-8	ND	ND	ND	ND	ND	8
MW-9	ND	ND	ND	ND	ND	6
MW-10	ND	1.3	ND	ND	ND_	10

Notes:

mg/l = parts per million (ppm).

ug/l = parts per billion (ppb).

ND = Sample concentration below the detection limit for this analyte. Refer to the laboratory reports for laboratory detection limits and method numbers.

Values in boldface are in excess of applicable regulatory standards.

The above data indicates that the maximum petroleum hydrocarbon concentrations are present in monitoring wells MW-2, MW-3, and MW-6 located immediately northeast of the former UST cavity. The lateral limits of petroleum hydrocarbon impacts to site groundwater are defined; groundwater samples from perimeter monitoring wells (MW-5, MW-8 and MW-9) did not contain detectable concentrations of petroleum concentrations. Low levels of benzene were detected in MW-10 which is the southernmost well at the site. Hydrocarbons were not detected in this well during the November 1993 monitoring event. This indicates migration of the contaminant plume

to the south. Free phase petroleum hydrocarbon were observed in MW-6 prior to purging of well water.

Dissolved lead was detected in the groundwater samples collected from all monitoring wells at the site. Each of these samples with the exception of that taken at MW-9 are in close proximity to the original tank excavation. Previously dissolved lead had only been detected in MW-2, MW-3, MW-5, MW-6 and MW-9. It is currently unknown whether detection of this compound is contaminant related or due to soil chemistry at the site.

TPH-G and benzene isoconcentration contour maps were constructed using data from the June 1994 monitoring event (Figures 1 and 2 respectively). As shown on the figures, groundwater concentrations are highest in monitoring well MW-6 adjacent to the northeast corner of the UST excavation. Groundwater concentrations generally decrease with distance from this point. The elongate plume extends to the northeast from this point. The areal extent and magnitude of the plume has expanded beyond that indicated by the November 1993 and February 1994 monitoring events.

Groundwater elevation data from this and the two previous sampling events suggests that the groundwater gradient in the site vicinity undergoes a seasonal, oscillatory change of direction from the northeast to the northwest and back again. This may be a response to precipitation rates and the proximity of the monitoring wells to the drainage ditch to the west of the site.

Washington Department of Ecology Cleanup Standards

The primary statute governing cleanup of releases from UST sites in Washington is the Model Toxic Control Act (MTCA), Chapter 70.105D of the Revised Code of Washington (RCW). As implemented by Part VII of Chapter 173-340 WAC, three methods are available for establishing cleanup levels for leaking underground storage tank (LUST) sites. Method A Tables provide conservative cleanup standards applicable to most routine soil and groundwater cleanup actions.

Where Method A Cleanup Standards are not appropriate (at large, complex sites or where multiple contaminant types are present), Method B establishes a matrix evaluation procedure which is designed to be protective of site groundwater. At sites where neither Method A or B are technically feasible, a site-specific risk assessment may be performed to establish Method C Cleanup Standards.

For the South Seattle Auto Auction, the Method A Cleanup Standards apply for the following reasons:

South Seattle Auto Auction
Quarterly Groundwater Monitoring Report
SSAA/SSAAGWM3.RPT

#572-34-261 August 15, 1994 Final

- 1) UST system history and data collected during the UST decommissioning and soil excavation phases conducted to date indicate that a single contaminant, gasoline, has been released at the subject site.
- 2) Impacted soil and groundwater appear to be limited to the immediate vicinity of the UST cavity.
- Based on the data collected to date, the site appears well-suited to standard remediation techniques for leaking underground storage tank sites.

The Method A Cleanup Standards for soil and groundwater are presented in Table 2 below.

Table 2 Washington Department of Ecology Method A Cleanup Standards										
Hazardous Su	bstance	Cleanup Level								
		Soil	Groundwater							
Total Petroleum	Gasoline	100 ppm	l ppm							
Hydrocarbons	Diesel & Heavy . Oils	200 ppm	l ppm							
Benzene		500 ppb	5 ppb							
Toluene		40,000 ppb	40 ppb							
Ethylbenzene		20,000 ppb	30 ppb							
Xylenes		20,000 ppb	20 ppb							
Total Lead		250 ppm	5 ppb							
NOTES: ppm - parts per million (mg/kg or mg/l) ppb - parts per billion (ug/kg or ug/l)										

A comparison of the regulatory limits for petroleum hydrocarbons and related compounds from Table 1 above to the groundwater concentrations in site monitoring wells indicates that five (5)

Final

of the monitoring wells contain hydrocarbon concentrations which exceed the Method A Cleanup Standards for the June 1994 monitoring event. The present extent of groundwater with dissolved-phase petroleum hydrocarbon concentrations above the Method A Cleanup Standards is displayed as the bold contour on Figures 1 and 2 attached. The concentration of lead detected in monitoring wells MW-2, MW-3, MW-5, MW-6 and MW-9 are above the Method A Cleanup Standards.

Groundwater Level Monitoring

Fluid-levels in each well were measured to the nearest 0.01-foot before purging using an electronic probe. Free-phase petroleum hydrocarbons were encountered in MW-6 (approximately 3 inches in depth) prior to purging that well, however no free phase petroleum hydrocarbons were observed after purging. Water-level elevations were calculated using survey data and measurements from the November 1993 fluid-level monitoring. These data did not indicate a consistent groundwater flow direction at the site. The system appears to be quite complex from a hydrogeologic standpoint for the following reasons:

- 1) The presence of the drainage ditch to the west of the UST excavation. Visual observations indicate the level of water flowing within the ditch fluctuates on a daily basis. The ditch has not been observed dry to date.
- The results of the UST Closure and Site Characterization investigations indicate the drainage ditch may be in direct hydrologic connection with the UST excavation due to the position of the sand zone from approximately 2.5 to 6.5 feet below the surface grade at the subject site. This connection was suspected during the excavation of the UST pit due to the fast recharge of groundwater within the excavation.
- The close proximity of some monitoring wells to the UST excavation, the drainage ditch, and subsurface utility lines may be influencing the level of groundwater in the wells. This coupled with the high groundwater levels during groundwater monitoring events (in some cases above the monitoring well screen), indicates that groundwater data collected in the vicinity of the UST excavation may not consistently reflect the regional gradient.

Fluid-level measurements were again collected on February 4, 1994. These data indicated a more consistent groundwater flow direction to the northeast at the subject site. Refer to Figure 3, Groundwater Contour Map, for a graphical representation of the water-level elevation data collected. This direction is in the same general topographic gradient in the vicinity of the subject site and is consistent with the results of the groundwater sample analysis data presented in Figures 1 and 2.

Fluid level measurements were collected in June 1994. These data indicate that the groundwater

gradient undergoes a seasonal direction shift from the northeast to the northwest. This may be in response to the decreased summertime precipitation rates and the proximity of the site to the drainage ditch to the west.

SUMMARY AND CONCLUSIONS

Petroleum hydrocarbons were detected above applicable regulatory limits in seven (7) site monitoring wells during the February 1994 sampling event. The horizontal extent of impacted groundwater is presently defined at the subject site; perimeter wells did not contain detectable concentrations of gasoline-range petroleum hydrocarbons with the exception of MW-10 to the south which contained low benzene concentrations. Dissolved lead was detected at concentrations above applicable regulatory limits in groundwater samples in all but monitoring well MW-2. The groundwater concentration and elevation data indicates a northeast groundwater flow direction.

PSI appreciates the opportunity to provide South Seattle Auto Auction, Inc. with groundwater monitoring services. The fourth quarterly groundwater monitoring event is scheduled for September, 1994. If you have any questions, please do not hesitate to call.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Gil Cobb, R.G. Project Geologist

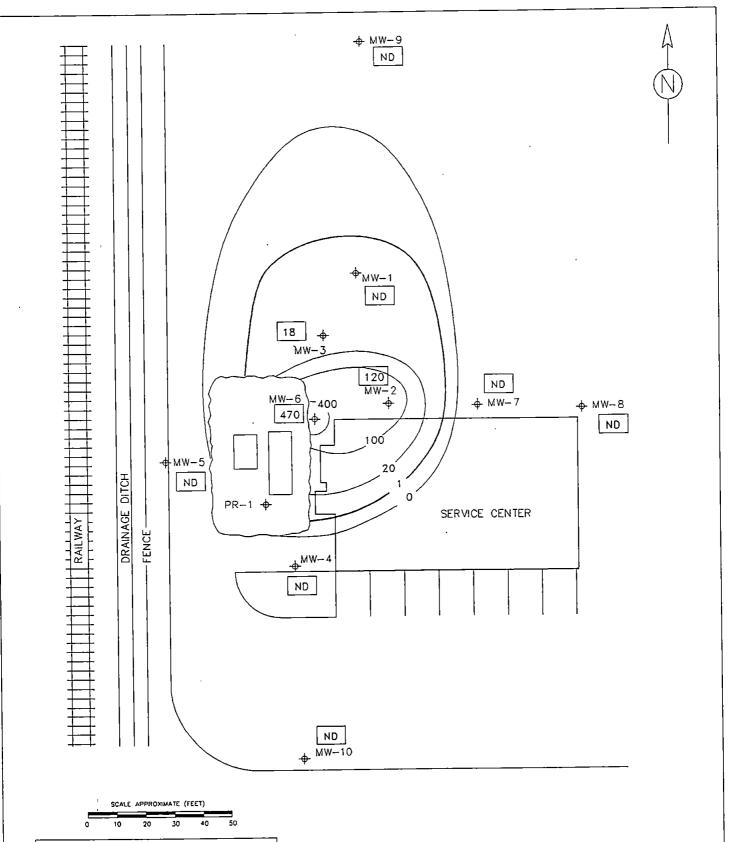
Attachments:

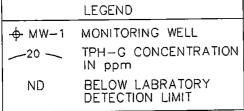
Figure 1 - TPH-G Isoconcentration Contour Map for Site Monitoring Wells - February 1994

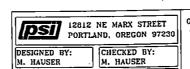
Figure 2 - Benzene Isoconcentration Contour Map for Site Monitoring Wells - February 1994

Figure 3 - Site Detail Showing Groundwater Elevations and Contours for Site Monitoring Wells -February 1994

Laboratory Reports/Chain of Custody Forms





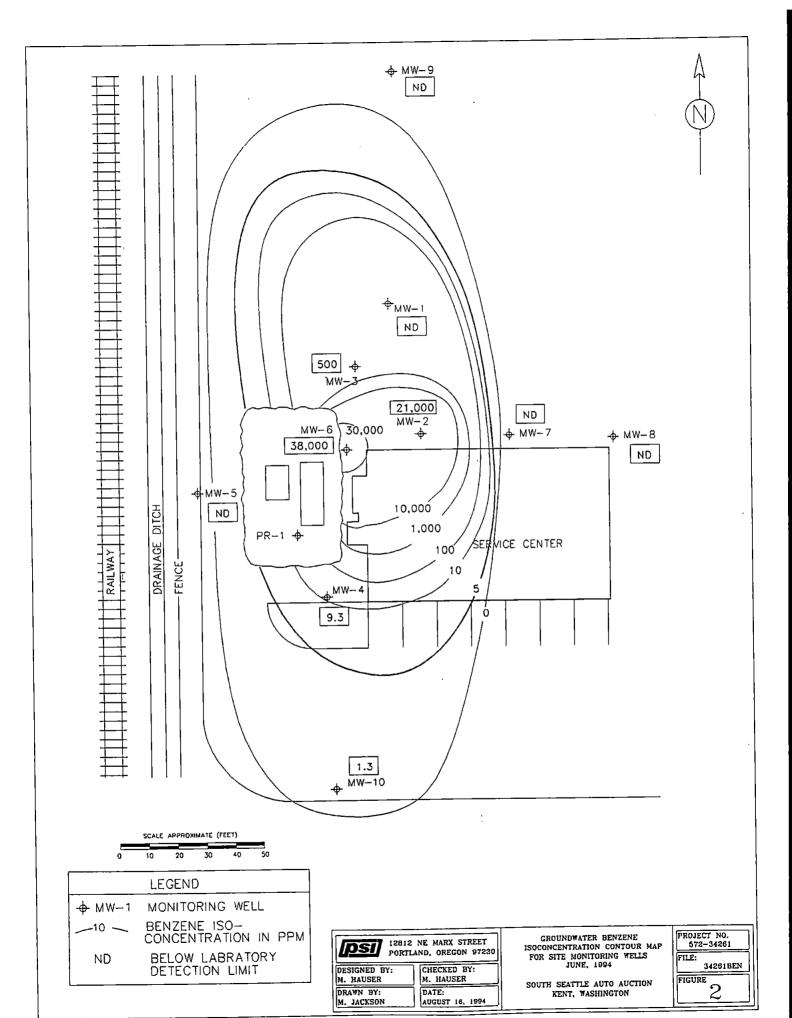


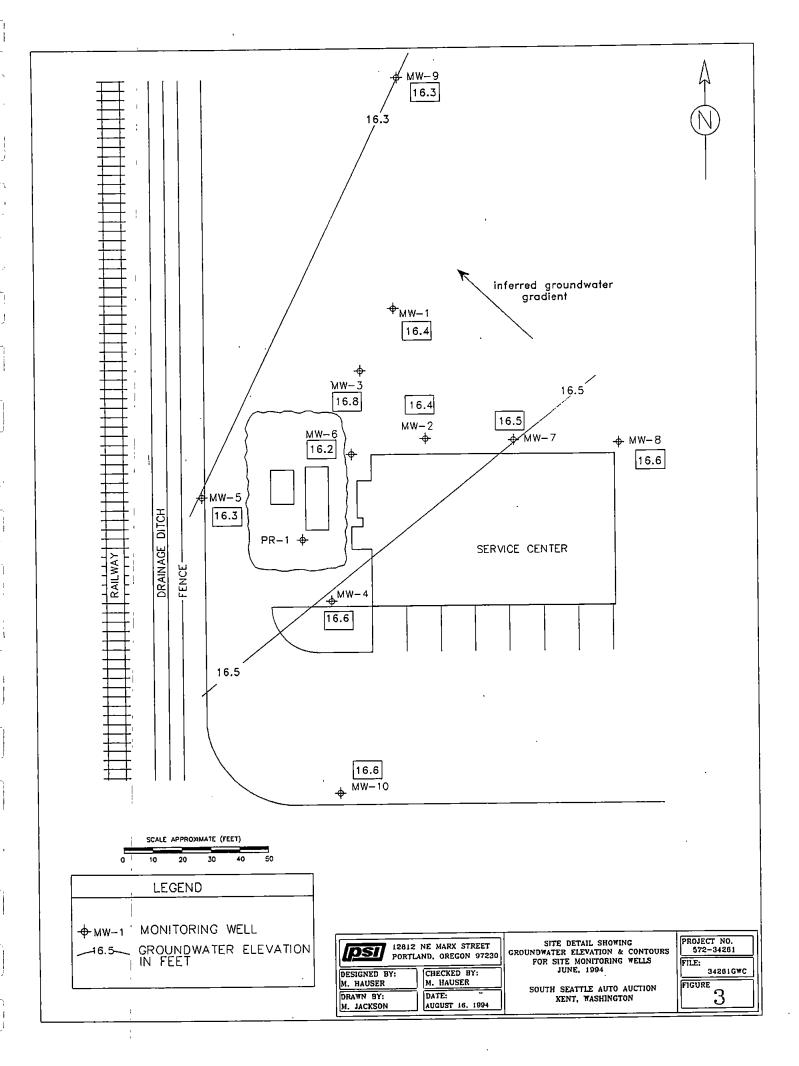
DATE: AUGUST 16, 1994

DRAWN BY: M. JACKSON GROUNDWATER TPH-G ISOCONTRATION CONTOUR MAP FOR SITE MONITORING WELLS- JUNE, 1994

SOUTH SEATTLE AUTO AUCTION KENT. WASHINGTON

1	PROJECT NO. 572-34261
	FILE: 34261TPH
	FIGURE 1







Professional Service Industries, Inc.

ANALYTICAL REPORT

TESTED FOR: Professional Service Industries, Inc.

12812 NE Marx Portland, OR 97230 PROJECT: South Seattle Auto Auction PROJECT NUMBER: 572-34-261

PAGE: 1

ATTENTION: Bill MCulloch

DATE:

June 27, 1994

OUR REPORT NUMBER: 5940P572-35708

Attached, please find our analytical report for samples described on the Chain-of-Custody Record. Please reference our report number and direct any questions regarding this report to the individual designated below or to one of our Customer Service Representatives.

Lawrence Environmental Chemistry Manager

Respectfully Submitted, Professional Service Industries, Inc.

4820 West 15th Street • Lawrence, KS 66049 • Phone: 913/749-2381 • Fax: 913/865-9587

PROJECT: South Seattle Auto Auction PROJECT NUMBER: 572-34-261

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Analyte	Results	Units	Method	Analysis Date	Analyst	MDL
Client Sample #: SSAA/MW-9/ Our Sample #: 834838	/6/10/94					
Lead	0.006	mg/L	239.2	6-21-94	RK	0.001
BTEX Benzene Toluene Ethylbenzene Xylenes Surrogate Recovery = 84%	<1.0 <1.0 <1.0 <1.0	ug/L ug/L ug/L ug/L	8020 8020 8020 8020	6-23-94 6-23-94 6-23-94 6-23-94	TS TS TS TS	1.0 1.0 1.0 1.0
TPH - PURGEABLE Gasoline Range Surrogate Recovery = 76%	<0.1	mg/kg	5030/8015	6-23-94	TS	0.1
Client Sample #: SSAA/MW-1 Our Sample #: 834839	/6/10/94					
Lead	0.009	mg/L	239.2	6-21-94	RK	0.001
BTEX Benzene Toluene Ethylbenzene Xylenes Surrogate Recovery = 86%	540 <12.5 <12.5 240	ug/L ug/L ug/L ug/L	8020 8020 8020 8020	6-24-94 6-24-94 6-24-94 6-24-94	TS TS TS TS	25 12.5 12.5 25
TPH - PURGEABLE Gasoline Range Surrogate Recovery = 90%	2.0	mg/kg	5030/8015	6-23- 94	TS	1.25

PROJECT: South Seattle Auto Auction PROJECT NUMBER: 572-34-261

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Matrix: Water						
Analyte	Results	Units	Method	Analysis Date	Analyst	MDL
Client Sample #: SSAA/MW-8	/6/10/94					
Our Sample #: 834840						,
Lead	800.0	mg/L	239.2	6-21- 9 4	RK	0.001
BTEX		4	2000	0.04.04	TS	1.0
Benzene	<1.0	ug/L	8020	6-24-94		
Toluene	<1.0	ug/L	8020	6-24-94	TS	1.0
Ethylbenzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Xylenes	<1.0	ug/L	8020	6-24-94	TS	1.0
Surrogate Recovery = 92%						
TPH - PURGEABLE						
Gasoline Range	<0.1	mg/kg	5030/8015	6-23-94	TS	0.1
Surrogate Recovery = 85%		0 , 0				
- Currogato Moostory - Corro						
OII + O	7 /6 /40 /04					
Client Sample #: SSAA/MW-7 Our Sample #: 834841	7/6/10/9 4					
Our oumple #: Ou lott						
Lead	0.006	mg/L	239.2	6-21-94	RK	0.001
BTEX						
	<1.0	ug/L	8020	6-24-94	TS	1.0
Benzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Toluene	<1.0 <1.0	ug/L ug/L	8020	6-24-94	TS	1.0
Ethylbenzene			8020	6-24-94	TS	1.0
Xylenes Surrogate Recovery = 90%	<1.0	ug/L	8020	0-24-34	.0	
Juliogate Recovery = 30 /6						
TPH - PURGEABLE					~ 0	0.4
Gasoline Range	<0.1	mg/kg	5030/8015	6-23- 94	TS	0.1
Surrogate Recovery = 93%						

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Batch	#:	3570)8
Matrix	. 1/	Voto	

Analyte	Results	Units	Method	Analysis Date	Analyst	MDL
Client Sample #: SSAA/MW-5	/6/10/94					
Our Sample #: 834842						
Lead	0.012	mg/L	239.2	6-21-94	RK	0.001
втех						
Benzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Toluene	<1.0	ug/L	8020	6-24-94	TS	1.0
Ethylbenzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Xylenes	<1.0	ug/L	8020	6-24-94	TS	1.0
Surrogate Recovery = 81%		-,				
TPH - PURGEABLE						
Gasoline Range	<0.1	mg/kg	5030/8015	6-23-94	TS	0.1
Surrogate Recovery = 68%						
Client Sample #: SSAA/MW-1	0/6/10/94					
Our Sample #: 834843						
Lead	0.010	mg/L	239.2			0.001
втех						
Benzene	1.3	ug/L	8020	6-24- 94	TS	1.0
Toluene	<1.0	ug/L	8020	6-24-94	TS	1.0
Ethylbenzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Xylenes	<1.0	ug/L	8020	6-24- 94	TS	1.0
Surrogate Recovery = 97%						
TPH - PURGEABLE		_			~0	0.4
Gasoline Range	<0.1	mg/kg	5030/8015	6-23-94	TS	0.1
Surrogate Recovery = 88%						

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Batch #: 35708

Matrix: Water						
Analyte	Results	Units	Method	Analysis Date	Analyst	MDL
Client Sample #: SSAA/MW-4	1/6/10/94					
Our Sample #: 834844	,, -,,					
_ead	0.011	mg/L	239.2	6-21-94	RK	0.001
втех						4.0
Benzene .	9.3	ug/L	8020	6-24-94	TS	1.0
Toluene	<1.0	ug/L	8020	6-24-94	TS	1.0
Ethylbenzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Kylenes	<1.0	ug/L	8020	6-24-94	TS	1.0
Surrogate Recovery = 81%						
TPH - PURGEABLE						
Gasoline Range	<0.1	mg/kg	5030/8015	6-23- 94	TS	0.1
Surrogate Recovery = 77%						
Client Sample #: SSAA/MW-	3/6/10/94					
Our Sample #: 834845						
Lead	0.007	mg/L	239.2	6-21-94	RK	0.001
LCAU	0.007	3/ –				
BTEX '			0000	6-24-94	TS	50
Benzene	500	ug/L	8020	6-24- 94 6-24-94	TS	50 50
Toluene :	260	ug/L	8020	6-24- 94 6-24- 94	TS	50 50
Ethylbenzene	630	ug/L	8020	•	TS	50 50
Xylenes Surrogate Recovery = 69%	2,200	ug/L	8020	6-24-94	13	50
TPH - PURGEABLE						
Gasoline Range	18	mg/kg	5030/8015	6-23-94	TS	5.0
Surrogate Recovery = 70%		5, 5	•			
Julioguto Hooditory - 1070						

PROJECT: South Seattle Auto Auction PROJECT NUMBER: 572-34-261

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Batch #: 35708

nalyte	Results	Units	Method	Analysis Date	Analyst	MDL
lient Sample #: SSAA	/MANA/ 2 /6 /10 /04					
our Sample #: 83484						
ead	0.002	mg/L	239.2	6-21-94	RK	0.001
TEX			•			
enzene	21,000	ug/L	8020	6-24- 94	TS	1,000
oluene	16,000	ug/L	8020	6-24- 94	TS	1,000
thylbenzene	1,800	ug/L	8020	6-24- 9 4	TS	1,000
ylenes	9,100	. ug/L	8020	6-24-94	TS	1,000
Surrogate Recovery =	75%					
PH - PURGEABLE						
asoline Range	120	mg/kg	5030/8015	6-24-94	TS	100
Surrogate Recovery =	75%			•		
Client Sample #: SSAA	/MW-6/6/10/94					
Our Sample # 83484						
.ead	0.007	mg/L	239.2	6-21-94	RK	0.001
BTEX '						
Benzene	38,000	ug/L	8020	6-24- 9 4	TS	2,500
oluene	59,000	ug/L	8020	6-24- 9 4	TS	2,500
Ethylbenzene	6,400	ug/L	8020	6-24- 94	TS	2,500
(ylenes	44,000	ug/L	8020	6-24-94	TS	2,500
Surrogate Recovery =	×82%					
TPH - PURGEABLE		,			T 0	ore
Gasoline Range	470	mg/kg	5030/8015	6-24-94	TS	250
Surrogate Recovery =	: 88%					

PROJECT: South Seattle Auto Auction PROJECT NUMBER: 572-34-261

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Matrix: Water			B 4 - 4 L 2	Abi- Dete	A 1 A	MDI
Analyte	Results	Units	Method	Analysis Date	Analyst	MDL
Method Blank						
BTEX						
Benzene	<1.0	ug/L	8020	6-23-94	TS	1.0
Toluene	<1.0	ug/L	8020	6-23-94	TS	1.0
Ethylbenzene	<1.0	ug/L	8020	6-23-94	TS	1.0
Xylenes	<1.0	ug/L	8020	6-23-94	TS	1.0
Surrogate Recovery = 100%						
ВТЕХ						
Benzene	<1.0	ug/L	8020	6-24-94	TS	1.0
Toluene	<1.0	ug/L	8020	6-24-94	TS	1.0
Ethylbenzene -	<1.0	ug/L	8020	6-24-94	TS	1.0
Xylenes	<1.0	ug/L	8020	6-24-94	TS	1.0
Surrogate Recovery = 96%						
TPH - PURGEABLE						
Gasoline Range	<0.1	mg/kg	5030/8015	6-24-94	TS	0.1
Surrogate Recovery = 97%			·			

PROJECT: South Seattle Auto Auction PROJECT NUMBER: 572-34-261

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CLIENT#		PERCENT	
(LAB#)	ANALYTE	RECOVERY	
Quality	Benzene	101	•
Control	Toluene	112	
	Ethylbenzene	109	
,	Xylenes	108	
	Total	108	
	Surrogate Recovery = 100%		·
1	Benzene	99	
	Toluene	93	
	Ethylbenzene	94	
I	Xylenes	93	
	Total	95	
1	Surrogate Recovery = 96%		
	TPH - PURGEABLE		
	Gasoline Range	94	
•	Surrogate Recovery = 98%		

CHAIN OF CUSTODY RECORD

<u>psi</u>

Professional Service Industries, Inc.

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