



**GROUNDWATER MONITORING REPORT  
NOVEMBER 2009  
FORMER GOODYEAR LEASE FACILITY  
601 GEORGE WASHINGTON WAY  
RICHLAND, WASHINGTON**

*Prepared for*  
**INLAND COMMERCIAL PROPERTIES  
URS PROJECT NO. 36310005**



**920 North Argonne Road, Suite 300  
Spokane, Washington 99212  
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**December 14, 2009**

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## **INTRODUCTION**

This report summarizes the results of the November 2009 groundwater sampling event at the Former Goodyear Lease Property (site) located at 601 George Washington Way, Richland, Washington. The site is located at the northwest corner of George Washington Way and Jadwin Avenue in an area of mixed-use development near downtown Richland, Washington as shown on the Site Location Map, Figure 1. The site occupies approximately  $\frac{3}{4}$  acre and is generally level. Groundwater monitoring is being conducted as an independent action under the Washington Department of Ecology (Ecology) Model Toxics Control Act (MTCA). The site was entered into the Voluntary Cleanup Program (VCP) in July 2008 and has a site identification number of CE0292.

## **SITE BACKGROUND**

The site has a history of commercial automotive repair since the 1960s. In 2005, soil samples collected during an investigation of a drywell located near the northern portion of the property contained concentrations of petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyl (PCBs) at concentrations exceeding Washington State Department of Ecology (Ecology) Model Toxic Control Act (MTCA) Method A soil cleanup values for unrestricted land use. Removal of the drywell and contaminated soil was conducted in 2005. The remedial excavation was halted at a depth of about 26 feet below site grade because of safety concerns. Concentrations of petroleum hydrocarbons, PAHs, and PCBs exceeded MTCA Method A cleanup values in a limited number of confirmatory soil samples collected from the limits of the excavation. Further assessment was conducted in 2008 that included the drilling of five soil borings in approximately the same area as the remedial excavation boundary and collection of soil samples for laboratory analysis. Three of these borings (MW-1, MW-2, and MW-3) were completed as groundwater monitoring wells to assess groundwater conditions.

Groundwater sampling was conducted in September 2008. Results of sampling identified diesel- and heavy oil-range petroleum hydrocarbons (DRO and HRO, respectively) in groundwater at concentrations exceeding MTCA Method A cleanup levels in the sample collected from monitoring well MW-3. DRO and HRO were not detected in the samples collected from monitoring wells MW-1 and MW-2. PAHs were either not detected or were detected at concentrations below respective MTCA Method A or Method B cleanup levels in all three samples. PCBs were not detected in groundwater samples during this sampling event.

A groundwater sampling event limited to monitoring well MW-3 was conducted in October 2008. Analytical results indicated that DRO was detected at a concentration below the MTCA Method A cleanup level. HRO was not detected in the sample. PAHs and PCBs were not analyzed during this monitoring event.

URS conducted groundwater monitoring events in March, April and July 2009. During the March 2009 event, PCBs, PAHs and DRO were not detected in groundwater samples collected from monitoring wells MW-1, MW-2 and MW-3. HRO was not detected in groundwater samples collected from MW-1 or MW-

2. HRO was detected at a concentration exceeding the MTCA Method A cleanup level in the groundwater sample collected from MW-3. During the April 2009 event, PCBs and PAHs were not detected in groundwater samples collected from monitoring wells MW-1, MW-2 and MW-3. DRO and HRO were not detected in groundwater samples collected from monitoring wells MW-2 and MW-3. DRO and HRO were detected at concentrations less than MTCA Method A cleanup values in groundwater sample collected from MW- 1. In July 2009, PCBs, PAHs and HRO were not detected in groundwater samples collected from site monitoring wells. DRO was detected at concentrations below the MTCA Method A cleanup level in all three groundwater samples.

## **GROUNDWATER SAMPLING PROCEDURES**

URS collected groundwater samples from site groundwater monitoring wells (MW-1, MW-2 and MW-3) on November 5, 2009. Groundwater monitoring wells are generally purged and sampled in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling. However, equipment issues during the November 2009 event resulted in our purging three well volumes prior to collecting groundwater samples. Monitoring well MW-3 was purged dry; therefore, the well was sampled once groundwater recharged. Flow rates during purging and sampling were on the order of 0.5 liters per minute for each of the wells sampled. Groundwater quality field parameters are summarized in Table 1.

Groundwater samples were placed in appropriately preserved sample containers and submitted to TestAmerica Laboratories of Spokane, Washington for laboratory analysis of diesel- and oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx, PCBs by EPA Method 608/8082, and PAHs by EPA Method 8270 SIM. Samples were submitted under chain-of-custody.

## **GROUNDWATER GRADIENT**

The depth to groundwater was measured in each monitoring well before it was sampled. Groundwater levels were measured from the monitoring well top of casing (TOC) using an electronic water level meter. The depth to groundwater ranged from 31.05 feet below TOC at MW-1 to 31.94 below feet below TOC at MW-3. Groundwater elevations did not vary much across the site; elevations ranged from 340.87 feet above mean sea level (amsl) in MW-3 to 340.91 feet amsl in MW-1. Groundwater flow across the site is generally to the east at an approximate gradient of 0.0007 feet/foot. Note that this gradient is relatively flat for groundwater. Groundwater elevations are illustrated on Groundwater Potentiometric Surface, Figure 2. The depth to groundwater and groundwater elevations are summarized in Groundwater Parameters, Table 1.

## **GROUNDWATER SAMPLING RESULTS**

PCBs, PAHs, DRO and HRO were not detected at concentrations exceeding the Method Reporting Limit (MRL) in groundwater samples collected from monitoring wells MW-1, MW-2, and MW-3. Analytical results are illustrated on Groundwater Analytical Results, Figure 2. Groundwater sampling results are presented in Groundwater Analytical Results, Table 2. Laboratory analytical reports are included in Appendix A.

## **SUMMARY**

Groundwater elevations in all three monitoring wells were observed to vary only 0.02 feet between wells, indicating a relatively flat groundwater gradient across the site. This is consistent with previous measurements and observations.

PCBs and PAHs were not detected in groundwater samples collected from site monitoring wells MW-1, MW-2, or MW-3 during the November 2009 sampling events. This is the fifth monitoring event where these contaminants of concern have not been detected in groundwater samples. Because these contaminants have never been detected in groundwater samples, it is our opinion that PCBs and PAHs are not present in groundwater and continued analysis for these substances is not warranted.

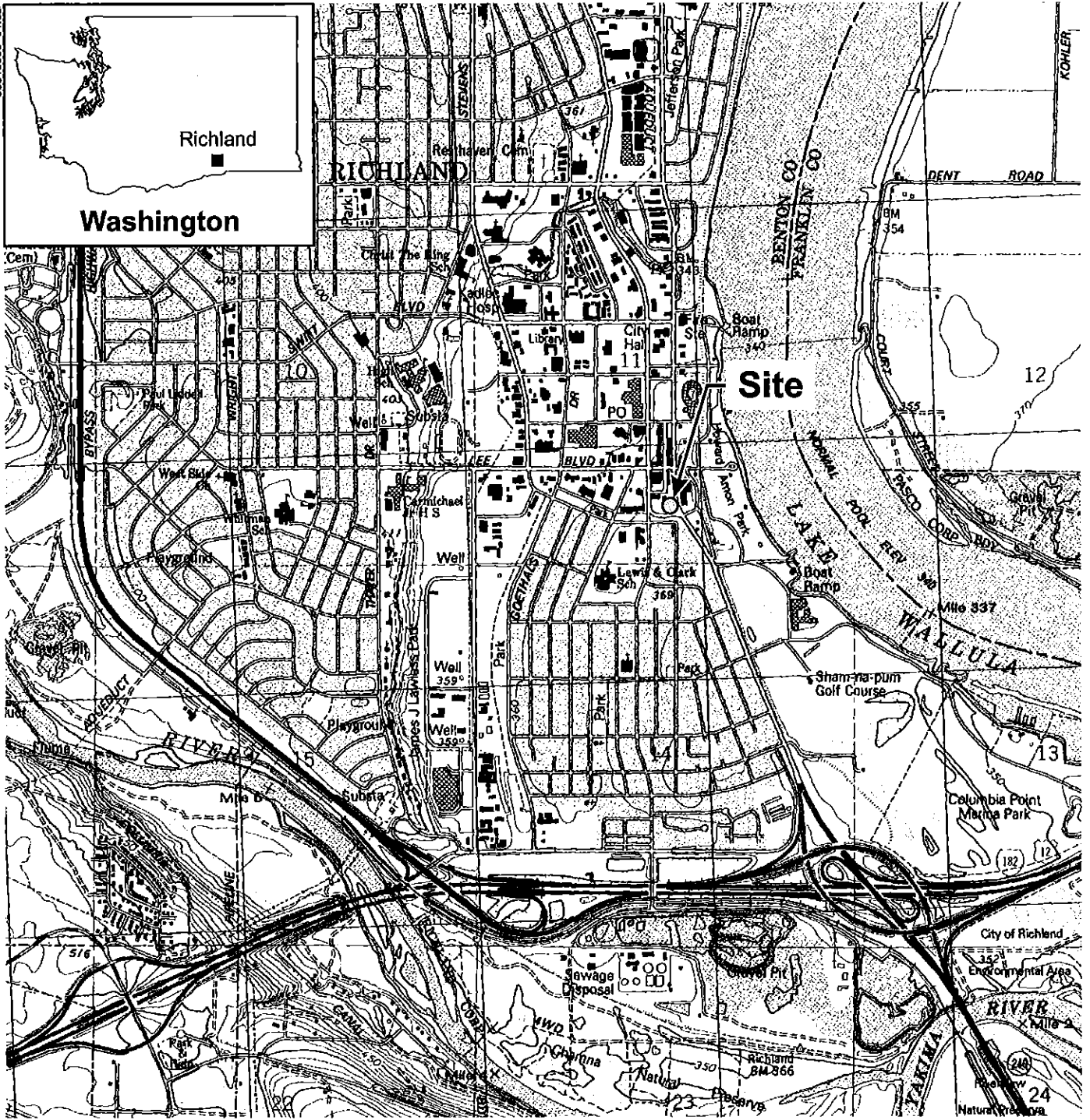
DRO and HRO were not detected in groundwater samples collected from site monitoring wells during the November 2009 monitoring event.

November 2009 is the third consecutive quarter where contaminants of concern were either not detected, or were not detected at concentrations exceeding MTCA Method A cleanup criteria.

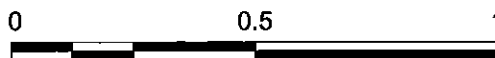
The next groundwater monitoring and sampling event is scheduled for February 2010.

## FIGURES

36310005 01.cdr



Source: USGS 7.5-minute topographic quadrangle, Richland, Washington, 1992



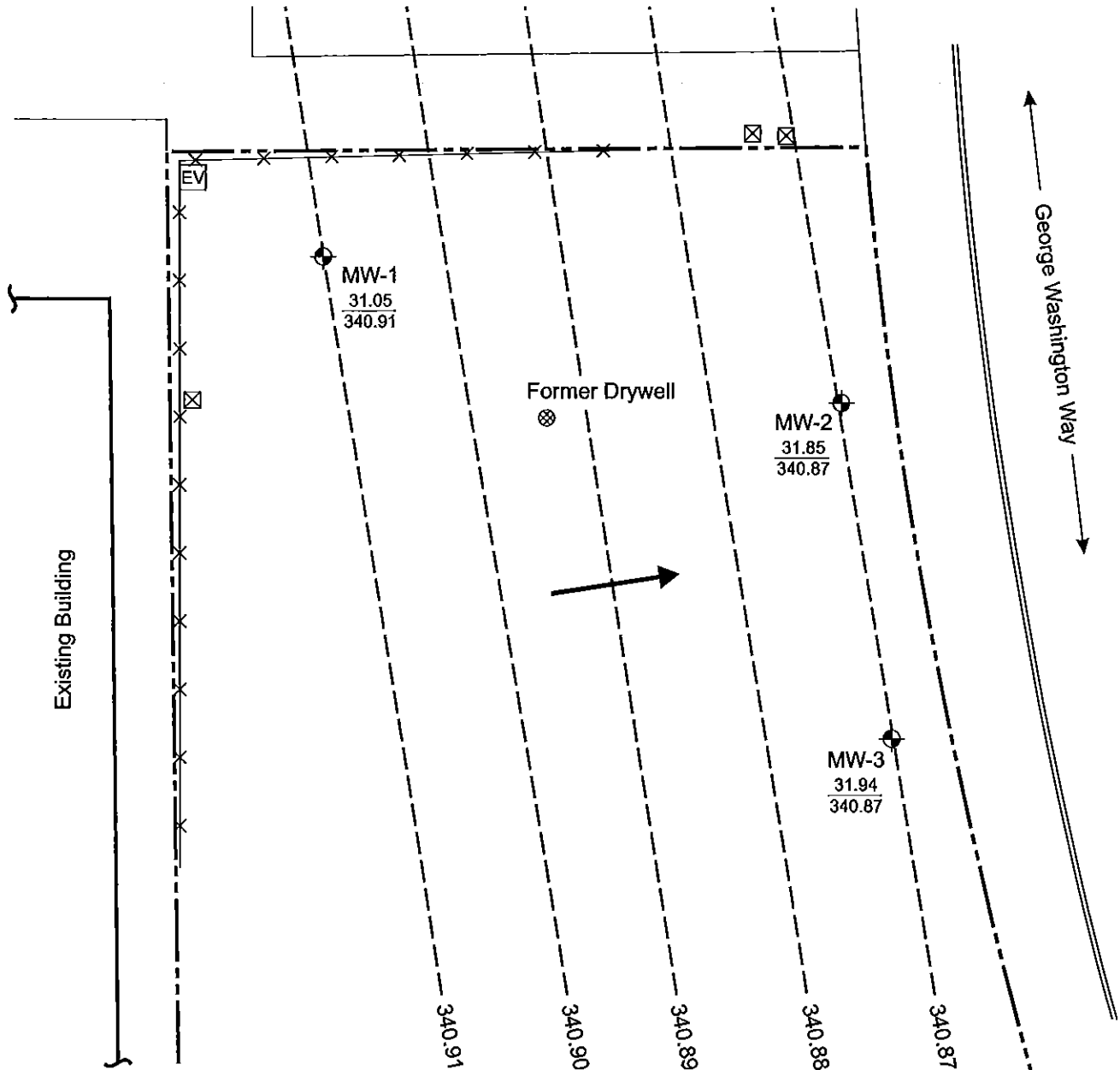
Scale in Miles

Figure 1  
**Site Location Map**

Job No. 36310005

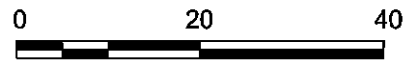


Former Goodyear Tire Lease Property  
601 George Washington Way  
Richland, Washington



**LEGEND**

- Property line
- Fence line
- Monitoring well location
- $\frac{30.05}{340.91}$  Depth to groundwater (feet)  
Groundwater elevation (feet amsl)
- Groundwater potentiometric contour (feet amsl)
- Inferred direction of groundwater flow



Scale in Feet

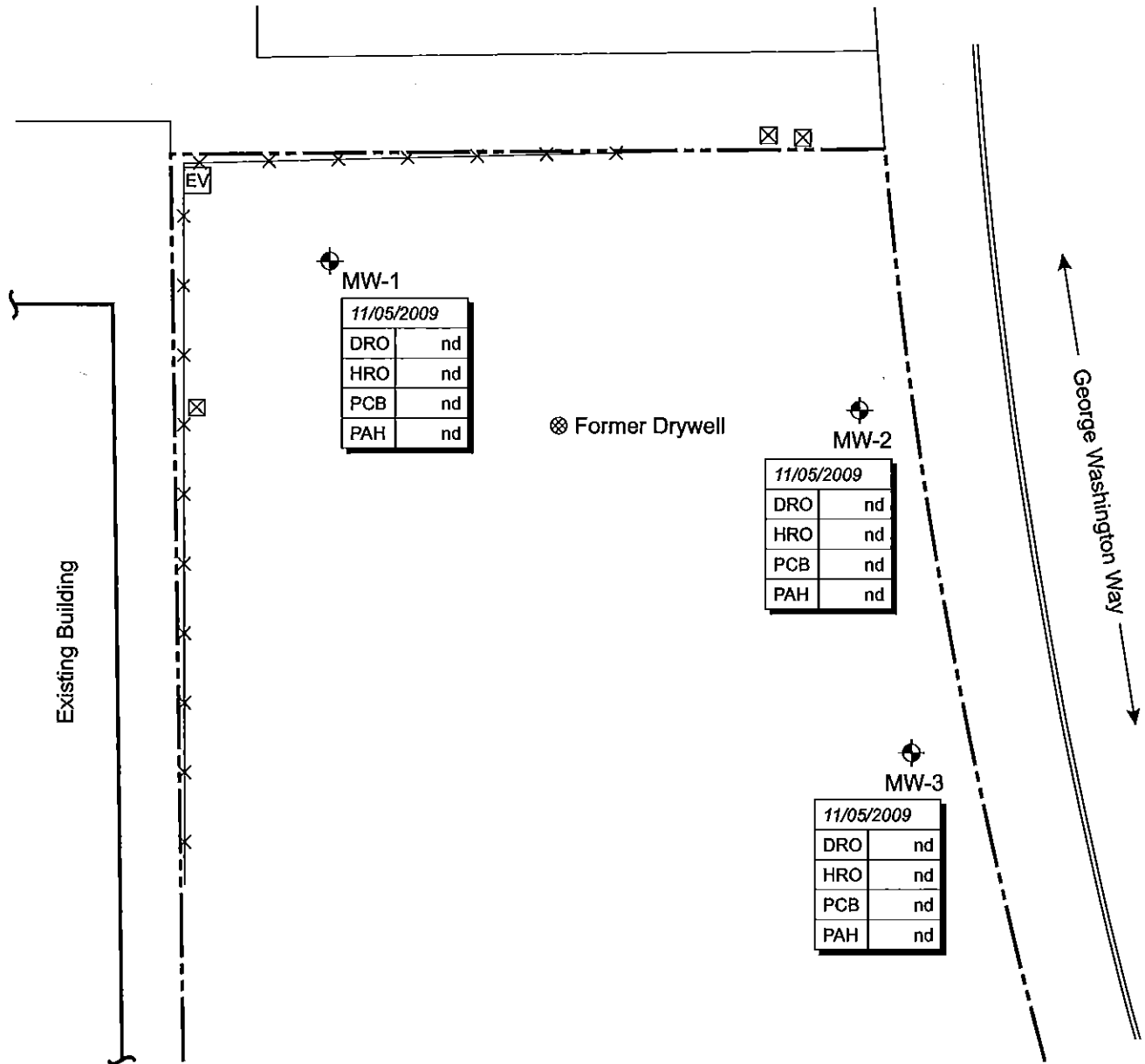
Groundwater gradient = 0.0007 feet/foot

Source: LFR 2008

Job No. 36310005

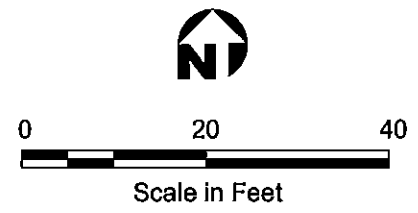
**Figure 2**  
**Groundwater Potentiometric Surface**  
**November 5, 2009**





**LEGEND**

- Property line
- Fence line
- Monitoring well location
- PAH Polycyclic aromatic hydrocarbons
- PCB Polychlorinated biphenyl
- DRO Diesel range organics
- HRO Heavy oil range organics
- nd Not detected, concentration less than the laboratory Method Reporting Limit (MRL)
- Bold** Exceedance of MTCA groundwater cleanup level



Groundwater gradient = 0.0007 feet/foot

All results are reported in µg/L.

Job No. 36310005

**Figure 3**  
**Groundwater Analytical Results**  
**Petroleum Hydrocarbons, November 5, 2009**



Former Goodyear Tire Lease Property  
 601 George Washington Way  
 Richland, Washington

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## TABLES

Table 1  
Groundwater Parameters  
Former Goodyear Lease Property  
Richland, Washington

Monitoring Well and Casing Elevation <sup>1</sup>	Date Sampled	Depth to Water <sup>2</sup> (feet)	Groundwater Elevation (feet)	Change in Elevation (feet)	pH	Conductivity (m/ohms)	Turbidity (ntu)	Dissolved Oxygen (mg/l)	Temperature (°C)
MW-1 371.96	03/05/09	31.40	340.56	-	7.93	0.786	23	4.1	17.9
	04/17/09	31.38	340.58	0.02	6.41	0.670	52	9.5	18.7
	07/29/09	30.39	341.57	0.99	7.03	0.843	3	2.7	11.8
MW-2 372.72	11/05/09	31.05	340.91	-0.66	7.21	0.704	12	2.5	13.3
	03/05/09	32.17	340.55	-	7.70	0.854	2	5.5	17.9
	04/17/09	32.14	340.58	0.03	6.40	0.691	36	9.9	17.6
MW-3 372.81	07/29/09	31.16	341.56	0.98	7.05	0.875	12	4.5	12.5
	11/05/09	31.85	340.87	-0.69	7.15	0.788	21	4.4	14.8
	03/05/09	32.27	340.54	-	8.25	0.626	64	11.4	8.7
	04/17/09	32.23	340.58	0.04	6.58	0.564	93	9.8	17.6
	07/29/09	31.26	341.55	0.97	7.21	0.303	104	3.6	14.0
	11/05/09	31.94	340.87	-0.68	7.11	0.498	49	3.1	15.1

Notes:

1. Elevation is Above Mean Sea Level (amsl).
2. Measured from top of casing.

Table 2  
 Groundwater Analytical Results  
 Former Goodyear Lease Property  
 Richland, Washington

Sample ID	Date Sampled	NWTPH-Dx			EPA 608/8082 PCBs (ug/l)	EPA 8270 PAHs (ug/l)
		Diesel-Range (ug/l)	Oil-Range (ug/l)			
MW-1	03/05/09	<235	<469	nd	nd	nd
	04/17/09	316	253	nd	nd	nd
	07/29/09	180	<93.5	nd	nd	nd
	11/05/09	<235	<469	nd	nd	nd
MW-2	03/05/09	<231	<463	nd	nd	nd
	04/17/09	<234	<467	nd	nd	nd
	07/29/09	91.1	<93.5	nd	nd	nd
	11/05/09	<235	<469	nd	nd	nd
MW-3	03/05/09	<231	<b>2,030</b>	nd	nd	nd
	04/17/09	<236	<472	nd	nd	nd
	07/29/09	245	<93.5	nd	nd	nd
MTCA Cleanup Level <sup>1</sup>		<236	<472	nd	nd	nd
		500	500	0.1	0.1	0.1

Notes:

1. MTCA= Washington State Department of Ecology, Model Toxics Control Act Method A Cleanup Level. The MTCA Method A cleanup level for PAHs is based on benzo(a) pyrene (BAP).  
 nd - Not detected at a concentration exceeding the Method Reporting Limit. See analytical data for specific details.  
**BOLD** = Exceedance of Cleanup Level.  
 -- Not Applicable

Samples Analyzed by TestAmerica, Inc. Spokane, Washington

**APPENDIX A**  
**LABORATORY REPORTS**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SPOKANE, WA 11922 E. 1ST AVENUE  
SPOKANE VALLEY, WA 99206  
ph: (509) 924.9200 fax: (509) 924.9290

November 18, 2009

Gary Panther  
URS Corp.  
920 N. Argonne Road Suite 300  
Spokane, WA 99212

RE: Former Goodyear Facility

Enclosed are the results of analyses for samples received by the laboratory on 11/05/09 16:20.  
The following list is a summary of the Work Orders contained in this report, generated on 11/18/09  
16:38.

If you have any questions concerning this report, please feel free to contact me.

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<u>Work Order</u>	<u>Project</u>	<u>ProjectNumber</u>
SSK0037	Former Goodyear Facility	36310005

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TestAmerica Spokane

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Randee Decker, Project Manager



<b>URS Corp.</b> 920 N. Argonne Road Suite 300 Spokane, WA 99212	<b>Project Name:</b> Former Goodyear Facility <b>Project Number:</b> 36310005 <b>Project Manager:</b> Gary Panther	<b>Report Created:</b> 11/18/09 16:38
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	SSK0037-01	Water	11/05/09 12:00	11/05/09 16:20
MW-2	SSK0037-02	Water	11/05/09 13:00	11/05/09 16:20
MW-3	SSK0037-03	Water	11/05/09 14:00	11/05/09 16:20
Dup	SSK0037-04	Water	11/05/09 00:00	11/05/09 16:20

TestAmerica Spokane

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Rande Decker, Project Manager




URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>SSK0037-01 (MW-1)</b>		<b>Water</b>			<b>Sampled: 11/05/09 12:00</b>					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.188	0.235	mg/l	1x	9110048	11/09/09 08:05	11/10/09 10:42	
Heavy Oil Range Hydrocarbons	"	ND	0.282	0.469	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			89.0%			50 - 150 %	"			"
<i>p-Terphenyl-d14</i>			86.2%			50 - 150 %	"			"
<b>SSK0037-02 (MW-2)</b>		<b>Water</b>			<b>Sampled: 11/05/09 13:00</b>					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.188	0.235	mg/l	1x	9110048	11/09/09 08:05	11/10/09 11:27	
Heavy Oil Range Hydrocarbons	"	ND	0.282	0.469	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			90.6%			50 - 150 %	"			"
<i>p-Terphenyl-d14</i>			93.9%			50 - 150 %	"			"
<b>SSK0037-03 (MW-3)</b>		<b>Water</b>			<b>Sampled: 11/05/09 14:00</b>					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.189	0.236	mg/l	1x	9110048	11/09/09 08:05	11/10/09 11:50	
Heavy Oil Range Hydrocarbons	"	ND	0.283	0.472	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			95.2%			50 - 150 %	"			"
<i>p-Terphenyl-d14</i>			95.6%			50 - 150 %	"			"
<b>SSK0037-04 (Dup)</b>		<b>Water</b>			<b>Sampled: 11/05/09 00:00</b>					
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.185	0.231	mg/l	1x	9110048	11/09/09 08:05	11/11/09 19:30	
Heavy Oil Range Hydrocarbons	"	ND	0.278	0.463	"	"	"	"	"	
<i>Surrogate(s): 2-FBP</i>			88.8%			50 - 150 %	"			"
<i>p-Terphenyl-d14</i>			63.0%			50 - 150 %	"			"

TestAmerica Spokane

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 Randee Decker, Project Manager





URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Polychlorinated Biphenyls by EPA Method 8082**  
TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>SSK0037-01 (MW-1)</b>		<b>Water</b>			<b>Sampled: 11/05/09 12:00</b>					
PCB-1016	EPA 8082	ND	----	0.0932	ug/l	1x	9110088	11/16/09 09:48	11/16/09 19:14	
PCB-1221	"	ND	----	0.0932	"	"	"	"	"	
PCB-1232	"	ND	----	0.0932	"	"	"	"	"	
PCB-1242	"	ND	----	0.0932	"	"	"	"	"	
PCB-1248	"	ND	----	0.0932	"	"	"	"	"	
PCB-1254	"	ND	----	0.0932	"	"	"	"	"	
PCB-1260	"	ND	----	0.0932	"	"	"	"	"	
<i>Surrogate(s): TCX</i>				65.6%		40 - 137 %	"			"
<i>Decachlorobiphenyl</i>				76.0%		40 - 124 %	"			"
<b>SSK0037-02 (MW-2)</b>		<b>Water</b>			<b>Sampled: 11/05/09 13:00</b>					
PCB-1016	EPA 8082	ND	----	0.0928	ug/l	1x	9110088	11/16/09 09:48	11/16/09 19:37	
PCB-1221	"	ND	----	0.0928	"	"	"	"	"	
PCB-1232	"	ND	----	0.0928	"	"	"	"	"	
PCB-1242	"	ND	----	0.0928	"	"	"	"	"	
PCB-1248	"	ND	----	0.0928	"	"	"	"	"	
PCB-1254	"	ND	----	0.0928	"	"	"	"	"	
PCB-1260	"	ND	----	0.0928	"	"	"	"	"	
<i>Surrogate(s): TCX</i>				65.5%		40 - 137 %	"			"
<i>Decachlorobiphenyl</i>				79.7%		40 - 124 %	"			"
<b>SSK0037-03 (MW-3)</b>		<b>Water</b>			<b>Sampled: 11/05/09 14:00</b>					
PCB-1016	EPA 8082	ND	----	0.0946	ug/l	1x	9110088	11/16/09 09:48	11/16/09 20:00	
PCB-1221	"	ND	----	0.0946	"	"	"	"	"	
PCB-1232	"	ND	----	0.0946	"	"	"	"	"	
PCB-1242	"	ND	----	0.0946	"	"	"	"	"	
PCB-1248	"	ND	----	0.0946	"	"	"	"	"	
PCB-1254	"	ND	----	0.0946	"	"	"	"	"	
PCB-1260	"	ND	----	0.0946	"	"	"	"	"	
<i>Surrogate(s): TCX</i>				84.2%		40 - 137 %	"			"
<i>Decachlorobiphenyl</i>				90.9%		40 - 124 %	"			"

TestAmerica Spokane

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 Rande Decker, Project Manager




URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Polychlorinated Biphenyls by EPA Method 8082**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSK0037-04 (Dup)		<b>Water</b>				<b>Sampled: 11/05/09 00:00</b>				
PCB-1016	EPA 8082	ND	----	0.0926	ug/l	1x	9110088	11/16/09 09:48	11/16/09 20:22	
PCB-1221	"	ND	----	0.0926	"	"	"	"	"	"
PCB-1232	"	ND	----	0.0926	"	"	"	"	"	"
PCB-1242	"	ND	----	0.0926	"	"	"	"	"	"
PCB-1248	"	ND	----	0.0926	"	"	"	"	"	"
PCB-1254	"	ND	----	0.0926	"	"	"	"	"	"
PCB-1260	"	ND	----	0.0926	"	"	"	"	"	"
<i>Surrogate(s): TCX</i>				66.0%			10 - 137 %	"		"
<i>Decachlorobiphenyl</i>				73.4%			10 - 124 %	"		"

TestAmerica Spokane

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 Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring**  
 TestAmerica Spokane

Analyte	Method	Result	MDL <sup>a</sup>	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>SSK0037-01 (MW-1)</b>		<b>Water</b>				<b>Sampled: 11/05/09 12:00</b>				
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.0935	ug/l	1x	9110056	11/10/09 11:51	11/10/09 15:50	
2-Methylnaphthalene	"	ND	----	0.0935	"	"	"	"	"	"
Acenaphthene	"	ND	----	0.0935	"	"	"	"	"	"
Acenaphthylene	"	ND	----	0.0935	"	"	"	"	"	"
Anthracene	"	ND	----	0.0935	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0935	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0935	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0935	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0935	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0935	"	"	"	"	"	"
Chrysene	"	ND	----	0.0935	"	"	"	"	"	"
Dibenzo (a,h) anthracene	"	ND	----	0.0935	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0935	"	"	"	"	"	"
Fluorene	"	ND	----	0.0935	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0935	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0935	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0935	"	"	"	"	"	"
Pyrene	"	ND	----	0.0935	"	"	"	"	"	"
<i>Surrogate(s): Nitrobenzene-d5</i>				86.6%		30 - 150 %	"			"
<i>2-FBP</i>				84.8%		21 - 122 %	"			"
<i>p-Terphenyl-d14</i>				140%		35 - 150 %	"			"

<b>SSK0037-02 (MW-2)</b>		<b>Water</b>				<b>Sampled: 11/05/09 13:00</b>				
1-Methylnaphthalene	EPA 8270 mod.	ND	---	0.0928	ug/l	1x	9110056	11/10/09 11:51	11/10/09 16:15	
2-Methylnaphthalene	"	ND	---	0.0928	"	"	"	"	"	"
Acenaphthene	"	ND	---	0.0928	"	"	"	"	"	"
Acenaphthylene	"	ND	---	0.0928	"	"	"	"	"	"
Anthracene	"	ND	---	0.0928	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	---	0.0928	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	---	0.0928	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	---	0.0928	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	---	0.0928	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	---	0.0928	"	"	"	"	"	"
Chrysene	"	ND	---	0.0928	"	"	"	"	"	"
Dibenzo (a,h) anthracene	"	ND	---	0.0928	"	"	"	"	"	"
Fluoranthene	"	ND	---	0.0928	"	"	"	"	"	"
Fluorene	"	ND	---	0.0928	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	---	0.0928	"	"	"	"	"	"

TestAmerica Spokane

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 Rande Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
SSK0037-02 (MW-2)		Water				Sampled: 11/05/09 13:00				
Naphthalene	EPA 8270 mod.	ND	----	0.0928	ug/l	1x	9110056	11/10/09 11:51	11/10/09 16:15	
Phenanthrene	"	ND	---	0.0928	"	"	"	"	"	
Pyrene	"	ND	----	0.0928	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>				75.6%		30 - 150 %	"			"
<i>2-FBP</i>				70.4%		21 - 122 %	"			"
<i>p-Terphenyl-d11</i>				169%		35 - 150 %	"			" Z2

SSK0037-03 (MW-3)		Water				Sampled: 11/05/09 14:00				
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.0964	ug/l	1x	9110056	11/10/09 11:51	11/10/09 16:40	
2-Methylnaphthalene	"	ND	----	0.0964	"	"	"	"	"	
Acenaphthene	"	ND	----	0.0964	"	"	"	"	"	
Acenaphthylene	"	ND	----	0.0964	"	"	"	"	"	
Anthracene	"	ND	----	0.0964	"	"	"	"	"	
Benzo (a) anthracene	"	ND	----	0.0964	"	"	"	"	"	
Benzo (a) pyrene	"	ND	----	0.0964	"	"	"	"	"	
Benzo (b) fluoranthene	"	ND	----	0.0964	"	"	"	"	"	
Benzo (ghi) perylene	"	ND	----	0.0964	"	"	"	"	"	
Benzo (k) fluoranthene	"	ND	----	0.0964	"	"	"	"	"	
Chrysene	"	ND	----	0.0964	"	"	"	"	"	
Dibenzo (a,h) anthracene	"	ND	----	0.0964	"	"	"	"	"	
Fluoranthene	"	ND	----	0.0964	"	"	"	"	"	
Fluorene	"	ND	----	0.0964	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0964	"	"	"	"	"	
Naphthalene	"	ND	----	0.0964	"	"	"	"	"	
Phenanthrene	"	ND	----	0.0964	"	"	"	"	"	
Pyrene	"	ND	----	0.0964	"	"	"	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>				67.8%		30 - 150 %	"			"
<i>2-FBP</i>				61.0%		21 - 122 %	"			"
<i>p-Terphenyl-d11</i>				117%		35 - 150 %	"			"

TestAmerica Spokane

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 Randee Decker, Project Manager




<b>URS Corp.</b> 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring**  
 TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
<b>SSK0037-04 (Dup)</b>		<b>Water</b>			<b>Sampled: 11/05/09 00:00</b>					
1-Methylnaphthalene	EPA 8270 mod.	ND	----	0.0928	ug/l	1x	9110056	11/10/09 11:51	11/10/09 17:06	
2-Methylnaphthalene	"	ND	----	0.0928	"	"	"	"	"	"
Acenaphthene	"	ND	----	0.0928	"	"	"	"	"	"
Acenaphthylene	"	ND	----	0.0928	"	"	"	"	"	"
Anthracene	"	ND	----	0.0928	"	"	"	"	"	"
Benzo (a) anthracene	"	ND	----	0.0928	"	"	"	"	"	"
Benzo (a) pyrene	"	ND	----	0.0928	"	"	"	"	"	"
Benzo (b) fluoranthene	"	ND	----	0.0928	"	"	"	"	"	"
Benzo (ghi) perylene	"	ND	----	0.0928	"	"	"	"	"	"
Benzo (k) fluoranthene	"	ND	----	0.0928	"	"	"	"	"	"
Chrysene	"	ND	----	0.0928	"	"	"	"	"	"
Dibenzo (a,h) anthracene	"	ND	----	0.0928	"	"	"	"	"	"
Fluoranthene	"	ND	----	0.0928	"	"	"	"	"	"
Fluorene	"	ND	----	0.0928	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	"	ND	----	0.0928	"	"	"	"	"	"
Naphthalene	"	ND	----	0.0928	"	"	"	"	"	"
Phenanthrene	"	ND	----	0.0928	"	"	"	"	"	"
Pyrene	"	ND	----	0.0928	"	"	"	"	"	"
<i>Surrogate(s): Nitrobenzene-d5</i>				66.0%		30 - 150 %	"			"
<i>2-FBP</i>				68.2%		21 - 122 %	"			"
<i>p-Terphenyl-d14</i>				139%		35 - 150 %	"			"

TestAmerica Spokane

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 Randee Decker, Project Manager



<b>URS Corp.</b> 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: <b>36310005</b> Project Manager: <b>Gary Panther</b>	Report Created: <b>11/18/09 16:38</b>
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**Semivolatile Petroleum Products by NWTPH-Dx w/Silica Gel Cleanup - Laboratory Quality Control Results**  
 TestAmerica Spokane

QC Batch: 9110048      Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (9110048-BLK1)</b>													Extracted: 11/09/09 08:05	
Diesel Range Hydrocarbons	NWTPH-Dx	ND	0.200	0.250	mg/l	1x	--	--	--	--	--	--	11/10/09 11:05	
Heavy Oil Range Hydrocarbons	"	ND	0.300	0.500	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 93.6%</i>		<i>Limits: 50-150%</i>								<i>11/10/09 11:05</i>		
<i>p-Terphenyl-d14</i>		<i>89.2%</i>		<i>50-150%</i>								<i>"</i>		
<b>LCS (9110048-BS1)</b>													Extracted: 11/09/09 08:05	
Diesel Range Hydrocarbons	NWTPH-Dx	2.35	0.200	0.250	mg/l	1x	--	2.50	93.8%	(54.5-136)	--	--	11/10/09 09:57	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 103%</i>		<i>Limits: 50-150%</i>								<i>11/10/09 09:57</i>		
<i>p-Terphenyl-d14</i>		<i>87.7%</i>		<i>50-150%</i>								<i>"</i>		
<b>LCS Dup (9110048-BSD1)</b>													Extracted: 11/09/09 08:05	
Diesel Range Hydrocarbons	NWTPH-Dx	2.24	0.200	0.250	mg/l	1x	--	2.50	89.7%	(54.5-136)	4.47%	(32.5)	11/10/09 10:20	
<i>Surrogate(s): 2-FBP</i>		<i>Recovery: 88.8%</i>		<i>Limits: 50-150%</i>								<i>11/10/09 10:20</i>		
<i>p-Terphenyl-d14</i>		<i>68.7%</i>		<i>50-150%</i>								<i>"</i>		

TestAmerica Spokane

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 Rande Decker, Project Manager



<b>URS Corp.</b> 920 N. Argonne Road Suite 300 Spokane, WA 99212	<b>Project Name:</b> Former Goodyear Facility <b>Project Number:</b> 36310005 <b>Project Manager:</b> Gary Panther	<b>Report Created:</b> 11/18/09 16:38
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**Polychlorinated Biphenyls by EPA Method 8082 - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch:** 9110088      **Water Preparation Method:** EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (9110088-BLK1)</b> <span style="float:right">Extracted: 11/16/09 09:48</span>														
PCB-1016	EPA 8082	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	11/16/09 18:29	
PCB-1221	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1232	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1242	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1248	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1254	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
PCB-1260	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): TCX</i>		<i>Recovery: 71.1%</i>		<i>Limits: 40-137%</i>		"						<i>11/16/09 18:29</i>		
<i>Decachlorobiphenyl</i>		<i>81.5%</i>		<i>40-124%</i>		"						<i>"</i>		
<b>LCS (9110088-BS1)</b> <span style="float:right">Extracted: 11/16/09 09:48</span>														
PCB-1016	EPA 8082	2.04	---	0.100	ug/l	1x	--	2.50	81.5%	(42.6-134)	--	--	11/16/09 18:52	
PCB-1260	"	2.06	---	0.100	"	"	--	"	82.5%	(43.1-130)	--	--	"	
<i>Surrogate(s): TCX</i>		<i>Recovery: 92.6%</i>		<i>Limits: 40-137%</i>		"						<i>11/16/09 18:52</i>		
<i>Decachlorobiphenyl</i>		<i>90.5%</i>		<i>40-124%</i>		"						<i>"</i>		
<b>Matrix Spike (9110088-MS1)</b> <span style="float:right">QC Source: SSK0047-04      Extracted: 11/16/09 09:48</span>														
PCB-1016	EPA 8082	1.64	---	0.0957	ug/l	1x	ND	2.39	68.4%	(50-150)	--	--	11/16/09 23:01	
PCB-1260	"	1.76	---	0.0957	"	"	ND	"	73.4%	"	--	--	"	
<i>Surrogate(s): TCX</i>		<i>Recovery: 68.8%</i>		<i>Limits: 40-137%</i>		"						<i>11/16/09 23:01</i>		
<i>Decachlorobiphenyl</i>		<i>80.8%</i>		<i>40-124%</i>		"						<i>"</i>		
<b>Matrix Spike Dup (9110088-MSD1)</b> <span style="float:right">QC Source: SSK0047-04      Extracted: 11/16/09 09:48</span>														
PCB-1016	EPA 8082	1.66	---	0.0948	ug/l	1x	ND	2.37	70.1%	(50-150)	1.42%	(35)	11/16/09 23:23	
PCB-1260	"	1.82	---	0.0948	"	"	ND	"	76.7%	"	3.46%	"	"	
<i>Surrogate(s): TCX</i>		<i>Recovery: 64.6%</i>		<i>Limits: 40-137%</i>		"						<i>11/16/09 23:23</i>		
<i>Decachlorobiphenyl</i>		<i>87.3%</i>		<i>40-124%</i>		"						<i>"</i>		

TestAmerica Spokane

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 Randee Decker, Project Manager



<b>URS Corp.</b> 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: <b>36310005</b> Project Manager: <b>Gary Panther</b>	Report Created: <b>11/18/09 16:38</b>
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results**  
 TestAmerica Spokane

QC Batch: 9110056      Water Preparation Method: EPA 3510/600 Series

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>Blank (9110056-BLK1)</b>														
Extracted: 11/10/09 11:51														
1-Methylnaphthalene	EPA 8270 mod.	ND	---	0.100	ug/l	1x	--	--	--	--	--	--	11/10/09 14:34	
2-Methylnaphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Acenaphthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Acenaphthylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (a) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (b) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (ghi) perylene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Benzo (k) fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Chrysene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Dibenzo (a,h) anthracene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluoranthene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Fluorene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Indeno (1,2,3-cd) pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Naphthalene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Phenanthrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
Pyrene	"	ND	---	0.100	"	"	--	--	--	--	--	--	"	
<i>Surrogate(s): Nitrobenzene-d5</i>		<i>Recovery:</i>	<i>102%</i>	<i>Limits:</i>	<i>30-150%</i>	"							<i>11/10/09 14:34</i>	
<i>2-FBP</i>			<i>99.4%</i>		<i>21-122%</i>	"							"	
<i>p-Terphenyl-d14</i>			<i>136%</i>		<i>35-150%</i>	"							"	

<b>LCS (9110056-BS1)</b>														
Extracted: 11/10/09 11:51														
Chrysene	EPA 8270 mod.	4.37	---	0.100	ug/l	1x	--	5.00	87.4%	(40-120)	--	--	11/10/09 14:59	
Fluorene	"	3.76	---	0.100	"	"	--	"	75.1%	"	--	--	"	
Indeno (1,2,3-cd) pyrene	"	3.54	---	0.100	"	"	--	"	70.9%	"	--	--	"	
Naphthalene	"	2.86	---	0.100	"	"	--	"	57.3%	(40-130)	--	--	"	
<i>Surrogate(s): Nitrobenzene-d5</i>		<i>Recovery:</i>	<i>69.5%</i>	<i>Limits:</i>	<i>30-150%</i>	"							<i>11/10/09 14:59</i>	
<i>2-FBP</i>			<i>82.7%</i>		<i>21-122%</i>	"							"	
<i>p-Terphenyl-d14</i>			<i>144%</i>		<i>35-150%</i>	"							"	

TestAmerica Spokane

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*Randee Decker*

Randee Decker, Project Manager





<b>URS Corp.</b> 920 N. Argonne Road Suite 300 Spokane, WA 99212	<b>Project Name:</b> Former Goodyear Facility <b>Project Number:</b> 36310005 <b>Project Manager:</b> Gary Panther	<b>Report Created:</b> 11/18/09 16:38
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**Polynuclear Aromatic Compounds by GC/MS with Selected Ion Monitoring - Laboratory Quality Control Results**  
 TestAmerica Spokane

**QC Batch:** 9110056      **Water Preparation Method:** EPA 3510/600 Series

Analyte	Method	Result	MDL <sup>a</sup>	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
<b>LCS Dup (9110056-BSDI)</b>													Extracted: 11/10/09 11:51	
Chrysene	EPA 8270 mod.	4.18	---	0.100	ug/l	1x	--	5.00	83.7%	(40-120)	4.32%	(30)	11/10/09 15:24	
Fluorene	"	4.46	---	0.100	"	"	--	"	89.2%	"	17.2%	"	"	
Indeno (1,2,3-cd) pyrene	"	2.54	---	0.100	"	"	--	"	50.9%	"	32.8%	"	"	R
Naphthalene	"	3.57	---	0.100	"	"	--	"	71.4%	(40-130)	21.9%	"	"	
<i>Surrogate(s): Nitrobenzene-d5</i>		<i>Recovery:</i> 87.7%		<i>Limits:</i> 30-150%								11-10-09 15:24		
<i>2-FBP</i>		106%		21-122%										
<i>p-Terphenyl-d14</i>		99.3%		35-150%										

*Randee Decker*

Randee Decker, Project Manager



URS Corp. 920 N. Argonne Road Suite 300 Spokane, WA 99212	Project Name: <b>Former Goodyear Facility</b> Project Number: 36310005 Project Manager: Gary Panther	Report Created: 11/18/09 16:38
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**Notes and Definitions**

Report Specific Notes:


- R - The RPD exceeded the method control limit due to sample matrix effects. The individual analyte QA/QC recoveries, however, were within acceptance limits.
- Z2 - Surrogate recovery was above the acceptance limits. Data not impacted.

Laboratory Reporting Conventions:

- DET - Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
- ND - Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA - Not Reported / Not Available
- dry - Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- wet - Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD - RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Limits - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
- Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Spokane

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Randee Decker, Project Manager



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244  
 11922 E. First Ave, Spokane, WA 99206-5302  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

425-420-9200 FAX 420-9210  
 509-924-9200 FAX 924-9290  
 503-906-9200 FAX 906-9210  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **520037**

TURNAROUND REQUEST  
 In Business Days \*

Organic & Inorganic Analytes:  7  5  4  3  2  1  <1

Petroleum Hydrocarbon Analytes:  4  3  2  1  <1

OTHER:  Specify:

\* Turnaround Request less than standard may incur Rush Charges.

CLIENT: **URS**

REPORT TO: **GARY PANTHER**

ADDRESS: **509 954-5090 FAX:**

PHONE: **PROJECT NAME: farmer GEORGEAR**

PROJECT NUMBER: **36310005**

SAMPLED BY: **GPP**

NO	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID	RECEIVED BY:	DATE:	TIME:
									PRINT NAME:	DATE:	TIME:
1	MW-1	11-5-07 12:00				5			TESTAMERICA	11/5/07	
2	MW-2	1:00				↓			C. Johnson	11/20	
3	MW-3	2:00				↓					
4	DUP					↓					
5											
6											
7											
8											
9											
10											

ADDITIONAL REMARKS:  
**\* W/ SG CLEANUP**

RECEIVED BY: **TESTAMERICA** DATE: **11/5/07** TIME:

PRINT NAME: **C. Johnson** DATE: **11/20** TIME:

RECEIVED BY:  DATE:  TIME:

PRINT NAME:  DATE:  TIME:

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# Test America Cooler Receipt Form

WORK ORDER # SSK0037 CLIENT: UPS PROJECT Former Goodyear  
Date / Time Cooler Arrived 4/15/09 16:20 Cooler signed for by: C. Hansen  
(Print name)

## Preliminary Examination Phase:

Date cooler opened:  same as date received or      /      /       
Cooler opened by (print) C. Hansen (sign) [Signature]

1. Delivered by  ALASKA AIRLINES  Fed-Ex  UPS  NAC  LYNDEN  CLIENT  Other:       
Shipment Tracking # if applicable      (include copy of shipping papers in file)

2. Number of Custody Seals 0 Signed by      Date      /      /       
Were custody seals unbroken and intact on arrival?  Yes  No

3. Were custody papers sealed in a plastic bag?  Yes  No

4. Were custody papers filled out properly (ink, signed, etc.)?  Yes  No

5. Did you sign the custody papers in the appropriate place?  Yes  No

6. Was ice used?  Yes  No Type of ice:  blue ice  gel ice  real ice  dry ice Condition of Ice frozen  
Temperature by IR Gun 5.8 °C Thermometer Serial # 81500  
Acceptance Criteria: 0 - 6°C

7. Packing in Cooler:  bubble wrap  styrofoam  cardboard  Other:     

8. Did samples arrive in plastic bags?  Yes  No

9. Did all bottles arrive unbroken, and with labels in good condition?  Yes  No

10. Are all bottle labels complete (ID, date, time, etc.)  Yes  No

11. Do bottle labels and Chain of Custody agree?  Yes  No

12. Are the containers and preservatives correct for the tests indicated?  Yes  No

13. Is there adequate volume for the tests requested?  Yes  No

14. Were VOA vials free of bubbles?  N/A  Yes  No  
If "No" which containers contained "head space" or bubbles?     

## Log-in Phase:

Date of sample log-in 4/15/09  
Samples logged in by (print) C. Hansen (sign) [Signature]

1. Was project identifiable from custody papers?  Yes  No

2. Do Turn Around Times and Due Dates agree?  Yes  No

3. Was the Project Manager notified of status?  Yes  No

4. Was the Lab notified of status?  Yes  No

5. Was the COC scanned and copied?  Yes  No