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**GROUNDWATER INVESTIGATION FOR  
TRICHLOROETHENE**

**SPOKANE COUNTY RACEWAY  
AIRWAY HEIGHTS, WASHINGTON**

*Prepared For:*  
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LIMITED PARTNERSHIP  
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## 1.0 INTRODUCTION

URS Corporation (URS) has completed an environmental investigation for the presence of trichloroethene (TCE) in groundwater at the Spokane County Raceway located at 750 North Hayford Road in Airway Heights, Spokane County, Washington (Site, **Figure 1**). The environmental investigation was completed for the Washington Motorsports Limited Partnership (WMLP) through Mr. Barry Davidson, the receiver and acting managing general partner, as part of contractual requirement with Spokane County, the Site owner.

## 2.0 BACKGROUND

The TCE investigation was initiated following the findings of previous environmental site assessments, from which a scope of work was prepared to further investigate the potential impacts to deep groundwater underlying the Site. The prior reports included Phase I and II Environmental Site Assessments (ESAs) conducted by various consultants working for WMLP and Spokane County. These reports include the following documents submitted to the Washington Department of Ecology:

- *Phase I Environmental Site Assessment, Washington Motorsports Limited Partnership, Spokane Raceway Park, 101 North Hayford Road, Spokane, Washington, 99224-9555, USKH, WO# 1050300, December 21, 2007.*

The Phase I ESA due diligence report conducted for Spokane County identified recognized environmental conditions (RECs) that could pose possible risks and/or liabilities associated with environmental and public health considerations at the Site. The report identified potential soil and groundwater contaminant sources that could be associated with automobile and motorcycle racing, such as the use of or spills and releases of waste oils, solvents and degreasers, fuels, and lubricants. In addition, groundwater sampling by Spokane County identified the presence of the solvent/degreaser TCE in groundwater samples collected from the on-site water supply well identified as Well No. 1. Well No. 1 is adjacent to the vertical above-ground water storage tank located east of the road course racetrack and west of the drag strip (Figure 2).

As a result of the Phase I ESA findings, a Phase II ESA was conducted by WMLP to further investigate the RECs.

- *Phase II Environmental Site Assessment, Spokane Raceway Park, 750 North Hayford Road, Airway Heights, Washington, LFR Inc./Arcadis, January 22, 2010.*

The Phase II ESA included the collection of soil samples from test pits across the Site and construction of three shallow groundwater monitoring wells around the garage. The assessment included sample laboratory analysis for various contaminants of concern, including petroleum hydrocarbons, volatile organic compounds (VOCs), various total metals, and polycyclic aromatic hydrocarbons (PAHs).

A small area of petroleum hydrocarbon impacted shallow soil was identified in a soil sample collected from a test pit located to the east of the demolished portion of the garage. The ground surface was stained and a laboratory sample exhibited concentrations of diesel-range petroleum product above the Model Toxics Control Act (MTCA, Chapter 173-340 WAC) Method A Soil Cleanup Level for Unrestricted Land Uses. The other investigated contaminants in soil samples collected from the ten test pits were either not detected by laboratory analysis or were reported below the MTCA cleanup levels.

Groundwater samples were collected from the three shallow groundwater monitoring wells (MW-1, MW-2 and MW-3), which were constructed between 19 to 23 feet below ground surface (bgs) to the north, east, and west of the garage. Water samples were also collected from the two water supply wells (Well

No. 1 and Well No. 2) and water distribution system. The water samples were submitted to the laboratory for VOC analysis, which includes TCE. There were no detections of TCE reported by the independent laboratory. Subsequent groundwater sampling reports from the three shallow monitoring wells completed by Spokane County in March 2010 also reported non-detectable TCE concentrations.

Spokane County entered into Ecology's Voluntary Cleanup Program (VCP) in August 2009, a technical assistance program designed for independent remedial investigations and cleanup with agency technical review and opinions provided to the participant. The objective is to work towards meeting the MTCA requirements for site investigations and remedial actions in pursuit of a determination of no further action (NFA). Spokane County requested Ecology's review of the then-current environmental assessment information and investigation data. Ecology responded with an opinion letter dated April 23, 2010. Ecology's evaluation included the following recommendation specifically for the WMLP environmental responsibility at the Site:

"TCE was detected in Well No. 1 at concentrations exceeding the cleanup level. Additional groundwater monitoring wells should be installed in the same water bearing zone in order to characterize impacts to the aquifer. A MINIMUM of three groundwater monitoring wells should be installed in the same aquifer as Well No. 1. One well should be located upgradient of the contamination at the Site, and two wells should be located downgradient. Groundwater samples should be collected from all wells for a minimum of four consecutive quarters. If any contaminants are detected above cleanup levels during any sampling event, additional monitoring and/or remediation may be required."

The WMLP subsequently engaged URS in June 2011 to respond to the Ecology recommendation for a TCE investigation of the deep groundwater aquifer associated with water supply Well No. 1.

### **3.0 SCOPE OF WORK**

The purpose of this report is to present the methods and results of the TCE groundwater investigation. The groundwater investigation was conducted on behalf of WMLP to assess regulatory compliance with TCE cleanup standards and requirements established under the MTCA. The groundwater investigation primary scope of work included:

- Monitor and document the installation of three (3) deep-set monitoring wells by a licensed well driller under Ecology's regulations to limit potential cross-contamination between geologic formations. The monitoring depth is to coincide with or intercept the water-bearing zone associated with Well No. 1; reported to be impacted by TCE at approximately 300 to 350 feet bgs.
- Install groundwater sampling pumps and provide equipment and field services to sample the three deep monitoring wells.
- Sample the monitoring wells using low-flow sample techniques defined by the U.S Environmental Protection Agency (EPA) Low Stress Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, July 30, 1996 Rev.2).
- Engage an independent laboratory certified by the State of Washington to analyze the groundwater samples for TCE using EPA Method 8260B.
- Provide a summary report of the groundwater investigation efforts.

In addition to the TCE groundwater investigation work conducted by URS, Spokane County has completed additional soil and groundwater investigations and remedial actions following the Ecology opinion letter (April 23, 2010). This information has been documented by Spokane County and is to be presented to Ecology under separate cover.

## 4.0 SITE INFORMATION

### 4.1 SITE AND ADJACENT PROPERTY

The Site is located north of West Sprague Avenue within the incorporated limits of Airway Heights, Washington. The mailing address is 750 North Hayford Road, Airway Heights, Washington. The Site is located within Section 13 of Township 41 East, Range 25 North (Willamette Meridian) in Spokane County, Washington (**Figure 1**).

The Site consists of a single tax parcel identified as No. 15135.0012 by the Spokane County Assessor's Office, with an area of approximately 199 acres. The Site property and race-track improvements are owned by Spokane County. The Site's historical land use appears to be agricultural or rangeland prior to race track construction which began in approximately 1973. The Site is improved with a concrete and asphalt paved drag strip, 2 ¼ mile asphalt road course, and ½ mile asphalt oval track. **Figure 2** provides an aerial plan view of the groundwater investigation area in the southern portion of the Site.

Other Site structures associated with the track operations include an office and race control building, concession stands and bathrooms, a portion of the garage structure, water supply wells and well houses, miscellaneous storage buildings, asphalt parking and travel surfaces, and fences. The remaining portions of the Site are generally unimproved with gravel surfaces or vegetated with grasses and forbs.

The Site is adjacent to unimproved and rural residential land to the north. An Inland Asphalt Company asphalt batch plant and gravel pit is located to the southwest. The Spokane County ORV Park is located to the west of the Site. The Northern Quest Casino is located east of the Site. The Geiger Correctional Facility is located south of West Sprague Avenue. Commercial, unimproved, and residential land use is located beyond these nearby properties.

### 4.2 PHYSIOGRAPHY

The Site has relatively flat-lying surface topography with elevations ranging from approximately 2,330 to 2360 feet above mean sea level (**Figure 1**). Generally, the surface elevation gently slopes from the southwest to northeast. There are man-made berms around the race courses and evidence of other man-made ground surface changes.

### 4.3 SOILS

The soils reported across the Site are primarily the Cheney stony silt loam mapping unit, 0 to 20 percent slopes, with a Cheney very rocky complex, 0 to 30 percent slope mapping unit in the southeastern portion (Soil Conservation Service, 1968).

The Cheney soil series is a well-drained, medium textured, mostly gravelly or stony soil underlain by sands, gravel, cobbles, and boulders. These soils formed under grass in glacial outwash mixed with loess and volcanic ash from later geologic events. The Cheney very rocky mapping unit includes exposed basalt outcrops, which are evident in the southeastern portion of the Site.

### 4.4 GEOLOGY

The West Plains area of Spokane County is located on the northeast boundary of the Columbia Plateau, a broad geologic feature comprised mainly of Columbia River Basalts. The basalt formations experienced

erosion and sedimentation during the advance and retreat of continental glaciers, and then by large-scale floods that resulted from the catastrophic failure of glacially-dammed lakes, creating the existing “channeled scabland” surface pattern of coulees, potholes, channels and remnant basalt “islands” across the West Plains area (Washington Department of Natural Resources, 1990).

The Site is immediately underlain by unconsolidated Pleistocene flood deposits or sediments consisting of a poorly sorted, stratified mixture of boulders, cobbles, gravel, and sand. Occasional wind-blow fine-textured soil deposits (loess) are also mixed with the glacial sediments. The sediments were deposited from multiple episodes of catastrophic outbursts from glacial-dammed lakes. The Airway Heights area includes a glacial outburst ripple field composed of flood gravels, indicating that one or more floods occurred. The area also includes volcanic ash deposits; resulting from Mt. St. Helens eruptions over various periods with have affected the area.

The glacial flood sediment overburden thickness in the areas investigated at the Site appears to be present from 0 to 20 feet or more, based on examination of Site conditions with exposed bedrock in the southeastern portion of the site and the monitoring well drilling logs. In addition, views of the southwest adjacent property gravel pits and the west adjacent property stormwater retention swale to the east of the Site offer surface views of the shallow glacial deposit and exposed basalt geologic stratigraphy.

The glacial flood sediments are immediately underlain by Wanapum Basalts of the Columbia River Basalt Group. The local area has surface expressions or outcrops of Wanapum Basalt in various structural conditions and stages of weathering. The Wanapum Basalt is underlain by the predominately silt and clay interbeds of the Upper Latah Formation over the Grand Ronde Basalt. The Grand Ronde Basalt is underlain by the predominately silt and clay interbeds of the Lower Latah Formation. The stratigraphy is generally flat-lying. The basalt lithology within these sub-groups has varying flow bed thicknesses, physical properties, chemical composition, and degrees of weathering. In addition to the Latah Formations, both basalt stages have narrow and intermittent layers of sediment deposits including volcanic ash, sands, silts and clays forming the lithological sequence.

In some areas of the Columbia Plateau and the West Plains, large, deep channels were incised into the basalt, and were later filled with glacial flood or other sedimentary material, forming buried “paleochannels” not visible on the surface. These buried channels, together with the layered stratigraphy described above, can have a significant impact on local and regional groundwater movement. Based on a review of geologic records, the Site appears to be situated over the eastern bank of a southeast to northwest trending paleochannel; identified in some references as the Airway Heights Paleochannel.

#### 4.5 HYDROGEOLOGY

An upper water-bearing zone is found in a perched condition in the overburden glacial flood deposits overlying the shallow basalts. The shallow upper-water bearing zone is expressed in the three shallow monitoring wells located around the garage (MW-1 to MW-3) at a depth of approximately 20 feet bgs; which is vertically limited by fluvial silt and weathered basalt saprolite overlying the shallow basalt bedrock. The groundwater flow in the upper water-bearing zone is generally inferred to the west based on data obtained from the shallow wells.

The two major aquifers in the West Plains are the higher elevation Wanapum and lower elevation Grande Ronde aquifers. These aquifers are bounded geographically in the local area by the Spokane River (northeast) and Deep Creek (northwest). The aquifers are used by West Plain’s rural residents for domestic or irrigation water supply and the City of Airway Heights and other public purveyors or commercial users.

The confined aquifers are located within the fractured basalt bedrock and inter-bedded Latah Formation silt and clay sediment deposits between the Wanapum and Grand Ronde Basalts. These interbeds are identified as the Upper Latah Formation between the Wanapum and Grand Ronde Basalts and the Lower Latah Formation below the Grand Ronde Basalt. The Site deep monitoring wells appear to intercept the Lower Latah Formation and the groundwater source is the Grand Ronde Aquifer (Spokane County, 2011).

The Wanapum and Grand Ronde aquifer hydrogeological characteristics are under artesian effect from higher potentiometric surfaces within the water bearing units. The Wanapum aquifer recharges via infiltration of precipitation, while the Grande Ronde aquifer recharges via downward leakage from the Wanapum, and possibly by lateral inflow through paleochannels.

#### 4.6 SURFACE WATER

Several small natural depressions are located within the shallow or exposed basalt outcrops located across the ground surface of the Site, primarily along the eastern portion of the Site. Surface water within the depressions is intermittent and associated with the seasonal rise in the perched upper water bearing zone. A small wetland-type feature is formed in a natural depression located on the eastern perimeter of the Site, northeast of the oval race track. The nearest surface water body is a recently constructed storm water retention swale located approximately 1,000 feet east of the southeast corner of the Site on the nearby Northern Quest Casino property.

#### 4.7 REVIEW OF ON-SITE WATER SUPPLY AND DEEP MONITORING WELLS

There are two water supply wells identified as Well No. 1 and Well No. 2 serving as the Site's current water source (**Figure 2**). Well No. 1 is within a partially-buried wood and metal shed connected to a vertical 50,000-gallon (approximate) steel reservoir located on a berm adjacent to the west side of the drag strip and north of the concession stands. Well No. 2 is located within a concrete block structure on the east side of the drag trip, approximately 2,000 feet north of Well No. 1. Well No. 2 is connected to two horizontal steel reservoirs of approximate 20,000-gallons each and a relic plastic-lined water reservoir in the ground east of the Well No. 2 building. Both wells are reported to be plumbed together; however piping and cross-connections between the two wells and the storage reservoirs are not documented in readily-available plans nor investigated by URS.

Well No. 1 has a Water Well Report dated April 3, 1980 on file with Ecology's Water Resources Program (**Appendix A**). The upper geologic profile is comprised of approximately 30 feet of glacial flood sediments (clay, cobbles, and broken basalt). The underlying lithology includes various hard and fractured basalts interbedded with clay and sand horizons throughout the profile. The static water level is reported at 240 feet bgs in April 1980. According to the Water Well Report, Well No. 1 has water bearing zones reported at 75 feet, 339 feet, and 379 feet bgs. A series of soft clay layers or confining beds begin at approximately 383 feet bgs and extend to a depth of 440 feet bgs based on the well log; most likely the Lower Latah Formation. Well No. 1 is terminated at a depth of 442 feet bgs in sands. There was no Water Well Report found for Well No. 2 in public or private records.

Activities were conducted in September 2009 by Bartholomew Pump Services (Bartholomew) on behalf of Spokane County Parks and Recreation to extract in-well piping and electrical wiring and remove the commercial centrifugal water pump from Well No.1. The commercial water pump was set at an approximate depth of 342 feet bgs. Recent data obtained from Well No. 1 indicates the depth to water at approximately 300 feet bgs. Additional information on Well No. 1 is provided in the Phase II ESA (LFR Inc. /Arcadis, 2010).

## 5.0 GROUNDWATER INVESTIGATION

The objective of the deep groundwater investigation was to construct monitoring wells and collect groundwater samples in the water bearing zone associated with the TCE impacted Well No. 1. The deep monitoring wells were designed to intercept the same water bearing unit at approximately 339 to 379 feet bgs identified in the Well No. 1 Water Well Report (1980), dependent on hydrogeologic conditions discovered during the drilling process.

### 5.1 MONITORING WELL INSTALLATION

URS subcontracted with H<sub>2</sub>O Well Services, Inc. (H<sub>2</sub>O) to install three deep groundwater-monitoring wells labeled MW-4 to MW-6 in July and August 2011. URS personnel licensed as geologists in the State of Washington monitored H<sub>2</sub>O's drilling program and well construction and documented the geologic formations. Photographs of the drilling program and groundwater sampling field activities are provided in **Appendix B**. The locations of the three monitoring wells are shown in **Figure 2**. Copies of the deep monitoring well boring logs are provided in **Appendix C**.

The monitoring wells were installed using an air-rotary drill rig. The wells were installed in accordance with Ecology's *Minimum Standards for Construction and Maintenance of Wells* (Chapter 173-160 WAC). The monitoring wells were constructed of 2-inch-diameter Schedule 80 polyvinyl chloride (PVC) casing with a 0.010-inch slotted casing screen. Eight stainless steel casing stabilizers were installed with each monitoring wells to maintain vertical integrity. After the well casing was installed in the open borehole, a filter pack of 10/20 silica sand was placed in the annular space around the slotted casing from approximately 2 to 5 feet above the top of the screened interval. Bentonite chips were placed above the sand pack and hydrated to prevent the entrance of grout into the sand pack. A bentonite grout mix was then pumped into the well annulus to within approximately 1.5 feet bgs. The remaining annular space was backfilled and a surface pad constructed with concrete mix around each well to the ground surface. A temporary locking well cap was placed on top of the well casing and each well was completed using a traffic-rated, flush-mounted well cover.

Decontamination procedures were performed using a steam cleaner on the drilling and purging equipment to assure quality assurance protocol. H<sub>2</sub>O completed well development of the three monitoring wells using tremie piping with forced down-hole air to enhance the hydraulic communication between the wells and the surrounding formation.

A Solinst™ Model 407 bladder pump was installed into each well. The 1.66 inch diameter pumps are constructed of stainless steel with Teflon (PFTE) bladders and Viton O-ring seals. Each pump was plumbed to the surface with a bonded polyethylene (PE) ¼ inch air-drive tubing and 3/8 inch water return tubing. The 2 inch diameter well head was finished with a sealed high-pressure cap and quick release connectors for the air drive and water return tubing. The following table presents a summary of the well construction details based on final measurements.

**Monitoring Well Construction Information**

Well No.	Well Depth (feet bgs)	Slotted Screen Section (feet bgs)	Bladder Pump Depth (feet bgs)
MW-4	361	341 to 361	351
MW-5	358	338 to 358	348
MW-6	361	331 to 361	346

URS subcontracted with David Evans & Associates (DEA) to complete a horizontal and vertical survey of the three deep monitoring wells. The survey included an elevation survey to top-of-casing for each well on September 21, 2011. A copy of the survey data is provided with the well boring logs in **Appendix C**.

## 5.2 FIELD OBSERVATIONS

The geologic profile recorded for the three monitoring wells exhibits relatively flat-lying basalt formations of competent hard basalt and fractured or weathered basalts inter-bedded with basalt scoria or clast, and mixed sands, silts and clays of varying composition and structure (**Appendix C**).

Intermittent water bearing zones in fractured or weathered basalt, scoria and clast layers, and sand and silt layers were generally encountered between 180 to 220 feet bgs. Field observations report intermittent slow or difficult drilling conditions in hard basalt generally below 180 to 220 feet bgs. Generally, soft to hard competent basalt with no evident water bearing zones was encountered between these upper depths and 340 to 360 feet bgs. A water-bearing zone was identified at the terminus of each monitoring well boring at approximately 340 to 360 feet in a layer of weathered basalt, scoria or clast, gravels, and hardened clay nodules. This appears to be the upper profile of the Lower Latah Formation and part of the Grand Ronde aquifer. The borings were terminated at this depth to correlate with the indicated TCE-affected Well No. 1 water bearing zone and to limit potential cross-aquifer mixing. The nearby Well No. 1 water well log records a thick clay layer from approximately 360 to 440 feet (Lower Latah Formation).

The initial groundwater depths following the termination of the monitoring well boring was field recorded in the cased borehole in the 340 to 360 feet bgs range. However, after allowing for stabilization, groundwater depths raised to the 290 to 300 feet bgs range. The change in relative groundwater depths in the three monitoring wells indicates an artesian condition or higher potentiometric surface within the Grand Ronde aquifer from 340 to 360 feet bgs. These depths to stabilized groundwater correlate with the data obtained from the 2009 monitoring program for Well No. 1.

## 5.3 GROUNDWATER MONITORING FIELD ACTIVITIES

URS personnel conducted groundwater monitoring for the three deep groundwater monitoring wells on September 21, 2011 (MW-5), October 7, 2011 (MW-4) and October 12, 2011 (MW-6). The schedule differential for the first sample event between the three monitoring wells was due to bladder pump installation and replacement efforts. A second sample event was conducted on November 22, 2011 for all three wells (MW-4 to MW-6). The field activities included depth-to-groundwater measurements and groundwater quality sampling for the potential presence of TCE using EPA Method 8260B.

The depth to water was measured using a 500 foot length electronic water level indicator to the nearest 0.01-foot from an elevation survey mark on each well head access port. Each monitoring well was purged using a high-pressure nitrogen drive system operated by a bladder pump controller with new, dedicated, polyethylene (PE) tubing. Measurements of temperature, pH, conductivity, dissolved oxygen, and turbidity were collected during well purging using a Horiba U22 multi-parameter meter. The water quality meter was calibrated using the manufacturer's specific protocols prior to collection of field parameters. Purging was continued until all parameters had stabilized to within approximately 10 percent of the two previous consecutive readings.

Once field parameters stabilized, laboratory-provided 40 milliliter (mL) glass vials with hydrochloric acid preservative were filled so that no air bubbles were present within the capped vial. The preserved sample vials were placed in an iced-cooler and transported to the Spokane laboratory of TestAmerica for TCE analysis.

## 6.0 MTCA CLEANUP STANDARDS

The MTCA Method A Cleanup Levels for Groundwater (Table 720-1) were used to compare the groundwater quality data for TCE collected from monitoring wells MW-4 to MW-6.

The MTCA requires that appropriate cleanup standards are to be identified for particular investigated substances at a site, which are established by Ecology to protect human health and the environment for current and potential site and resource use. This groundwater investigation was designed to provide specific data to assess TCE concentrations with the MTCA cleanup criteria.

The MTCA stipulates that cleanup standards shall be based on estimates of reasonable maximum exposure. Cleanup actions must achieve cleanup standards defined by MTCA and also comply with other applicable state and federal laws. Ecology has determined that residential land use is generally the site use requiring the most protective cleanup standards and that exposure to hazardous substances under residential land use conditions represents the reasonable maximum exposure scenario. The Method A groundwater cleanup level for TCE is 5.0 micrograms per liter ( $\mu\text{g/L}$ ).

## 7.0 GROUNDWATER SAMPLING RESULTS

### 7.1 GROUNDWATER GRADIENT AND DIRECTION OF FLOW

URS collected depth-to-groundwater measurements from the surveyed well top-of-casing during each monitoring event. The depth-to-groundwater and survey elevation data was used to evaluate the inferred groundwater flow direction and hydraulic gradient between the three deep monitoring wells. The monitoring well and groundwater elevations and depth to groundwater results are presented in **Table 1**. The relative groundwater elevation contours and inferred direction of flow are interpolated from groundwater elevation data obtained from each of the four events and the results are provided in **Figure 3** (September 21, 2011), **Figure 4** (October 7, 2011), **Figure 5** (October 12, 2011), and **Figure 6** (November 22, 2011).

An elevation decline from mid-September to mid-November 2011 of approximately 0.7 feet was observed. Based on the combined data from the four groundwater measurement events, the inferred direction of overall groundwater flow across the investigative area is generally towards the south. The estimated hydraulic gradient between the three deep wells averaged from the monitoring events groundwater data is approximately 0.00026 feet/feet; a relatively level or flat potentiometric surface.

### 7.2 ANALYTICAL RESULTS

The groundwater samples collected from the sample events were analyzed for TCE (and other VOCs) using EPA Method 8260B. The results are summarized below and presented in **Table 2**. **Figure 7** provides a plan view of the individual VOC concentrations reported from the two separate events for each well. The groundwater sample laboratory reports for the September and October 2011 events are attached as **Appendix D**. The groundwater sample laboratory report for the November 22, 2011 event is attached as **Appendix E**.

TCE was detected in monitoring wells MW-4 and MW-5 at concentrations above the Method A groundwater cleanup level of 5  $\mu\text{g/L}$  during the first two sampling events. The TCE concentrations in MW-4 ranged from 16.2  $\mu\text{g/L}$  (October 7, 2011) to 8.52  $\mu\text{g/L}$  (November 22, 2011). The TCE concentrations in MW-5 ranged from 6.67  $\mu\text{g/L}$  (September 21, 2011) to 8.55  $\mu\text{g/L}$  (November 22, 2011). Monitoring well MW-6 TCE concentrations were reported as non-detectable by the laboratory during both sampling events (October 12, 2011 and November 22, 2011).

## 8.0 REVIEW OF GROUNDWATER CONDITIONS

Prior groundwater samples obtained from Well No. 1 contained TCE concentrations exceeding MTCA criterion. A review of the Well No. 1 drilling log indicates the well intercepts a water bearing zone at approximately 339 to 379 feet bgs. URS installed three monitoring wells into this same water bearing zone or aquifer. The potentiometric surface of Well No. 1 based on prior environmental assessment data and the current deep monitoring well readings is exhibited at a depth of approximately 290 to 300 feet bgs.

The prior investigations conducted by WMLP and Spokane County have not identified a surface or near surface source of TCE in soil or groundwater from samples collected across the Site. In particular, focused soil and groundwater assessments were conducted around the garage, sanitary sewer infiltration treatment lagoons, race paddocks and pit areas, and other areas with some potential for TCE use, storage, or disposal. The shallow groundwater monitoring wells (MW-1 to MW-3) located around the garage have been monitored on a regular basis since installation in 2009 with no TCE detections.

The three new deep groundwater monitoring wells (MW-4 to MW-6) have exhibited TCE concentrations in the deep water bearing zone at 340 to 360 feet bgs above the Method A groundwater cleanup level. In the professional opinion of URS, the presence of TCE in these deep monitoring wells and Well No. 1 indicates the source of contamination is off-site and possibly a local or area-wide condition. This professional opinion is supported by the following factors:

- There has been no evidence discovered during Phase I or II ESA due-diligence programs that indicates the use, storage, or disposal of TCE. The on-site use of TCE appears to have been in relatively small quantities (i.e., aerosol containers) brought by race participants or possibly a solvent-based parts washer in the garage. There has been no investigative evidence of an on-site TCE source in surface or near surface soils and the shallow, perched upper water bearing zone at approximately 20 feet bgs.
- The deeper aquifers within the Wanapum and Grand Ronde Basalts are complex and difficult to characterize. The general direction of groundwater flow in the Wanapum and Grand Ronde aquifers within the West Plains area is reported as generally to the north and northeast. Site groundwater has been characterized with a southerly flow at a very shallow gradient. Based on a brief review of readily available hydrogeological documentation (Spokane County, 2011), the general direction of deep groundwater flow in the local area north of Airway Heights and the area surrounding the Site is not well-defined due to the lack of wells and data points that would allow for a more accurate determination.
- The Site southerly general direction of groundwater flow and the location and depths of MW-4 and MW-5 indicate a TCE source could originate in shallow soil and/or perched upper water bearing zone generally to the north of the Site. However, other contaminants migration pathways are possible in the complex West Plain stratigraphy and aquifer characteristics. The TCE source could historically have been released south of the Site and gradually transported through the complex stratigraphy of the West Plains under varying natural flow pathways to the Site from paleochannel influences or side-gradient migration. Other factors such as temporary and/or artificial conditions from nearby water well draw-down or decreasing water supply and lowering water tables will also impact groundwater flow, and hence, TCE fate and transport.
- A vertical contaminant migration pathway at the Site from a shallow soil or perched water bearing zone is restricted by the number and thicknesses of horizontal geologic formations and confining beds with low hydraulic conductivities and transmissivities. The Site stratigraphy

consists of Wanapum Basalt, the Upper Latah Formation interbed, and the underlying Grand Ronde Basalt overlaying Lower Latah Formation.

- The TCE-impacted groundwater appears to be within the Grand Ronde aquifer at approximately 340 to 360 feet bgs. The overlying low permeability basalts and interbedded clays significantly reduce the rate of vertical groundwater movement and tend to concentrate flow in a direction parallel to the fractured and weathered basalts and the narrow sand or scoria/clast interbeds. There is a low probability of a vertical hydrologic connection within the Site property boundary between a potential shallow TCE source and the deep Grand Ronde Aquifer.
- The presence of TCE in soil and groundwater has been investigated by entities in the West Plains area and the City of Airway Heights. TCE was used at the nearby Fairchild Air Force Base (FAFB). TCE investigations and cleanup actions have been conducted at FAFB and other disposal sites located in the general area. In the professional opinion of URS, the deep groundwater TCE contamination might be associated with these currently reported sites and sources, or unknown disposal sites or unreported commercial spills or releases in the West Plains of a more historical nature.

## 9.0 CONCLUSIONS

A groundwater investigation of the solvent contaminant TCE was conducted for the Site's deep aquifer zone with the installation of three monitoring wells (MW-4 to MW-6) and completion of two sampling events per well between September and November 2011.

The geologic profile recorded for the three monitoring wells exhibits relatively flat-lying basalt formations of competent hard basalt and fractured or weathered basalts inter-bedded with basalt scoria or clast and mixed sands, and silts and clays of varying thickness, structure, and composition. The confined aquifers beneath the Site are located within the fractured basalt bedrock and inter-bedded sediment deposits of the Wanapum and Grand Ronde Basalts. The inferred direction of overall groundwater flow across the Site is generally towards the south with a relatively flat gradient.

A water-bearing zone identified as the Grand Ronde aquifer was identified at the terminus of each monitoring well boring at approximately 340 to 360 feet in a layer of weathered basalt, basalt scoria and gravels, and hardened clay nodules. The underlying confining bed formation consists of approximately 80 feet of clay identified as the Lower Latah Formation. The borings were terminated at this depth to intercept the TCE-affected Well No. 1 water bearing zone and to limit potential cross-aquifer mixing. Observations of groundwater during and following well construction indicated an artesian condition for the deep Grand Ronde aquifer. Following stabilization, the depth to groundwater ranged from 290 to 300 feet bgs in the three monitoring wells.

The groundwater samples collected from the sample events were analyzed for TCE by an independent laboratory using EPA Method 8260B. The solvent TCE was detected in monitoring wells MW-4 and MW-5 at concentrations ranging from 6.67 to 16.2 µg/L during the two sample events and exceeding the MTCA Method A groundwater cleanup standard of 5.0 µg/L. TCE was reported as non-detectable in MW-6. These monitoring well laboratory results reviewed in combination with the water supply Well No. 1 water quality data indicate the aquifer at approximately 340 to 360 feet bgs is impacted by this solvent chemical.

There has been no evidence discovered during this or other due-diligence assessment programs that has identified the use, storage, or disposal of TCE on the Site. The on-site presence of solvents is indicated

as relatively small quantities (i.e., aerosol containers) used by race participants or possibly a solvent-based parts washer in the garage.

The presence of multiple low permeability confining beds of basalt, silts, and clays influence the direction and velocity of horizontal and vertical groundwater flow within and between the shallow upper water bearing zone and the deeper aquifers at the Site. There does not appear to be a readily discernible or probable contaminant migration pathway between a shallow TCE contaminant source on the Site (if present) and vertical transport to the deep Grand Ronde aquifer within the property boundaries.

In the professional opinion of URS, the presence of TCE in these deep monitoring wells and Well No. 1 indicates the source of TCE groundwater contamination is not from the Site and is most likely associated with a local or area-wide condition of the West Plains.

## 10.0 REMARKS

This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose without the consent of URS, or if modified, or if used by third parties, shall be at the user's sole risk.

This report sets forth URS's findings and conclusions based on the scope of work agreed to by the client, and within the client's schedule and budget. Subject to these limitations, the environmental assessment is intended to satisfy the standards of care, skill, and diligence ordinarily provided by a professional in the performance of similar services at the time the services were performed. The findings and conclusions are based on readily available and reasonably ascertainable information on Site conditions at the time of the assessment and for the known regulations in effect at that time. The services provided under this contract included professional opinions and judgments based on data collected from third parties, field observations and measurements, analytical reports by an independent laboratory, and reasonable interpretation of applicable environmental regulations.

The environmental assessment was designed to assess potential contamination from spills or releases within the investigated area only. This environmental assessment is, through technical limitations and design, variability in the natural environment, and work scope and budget, not sufficiently thorough to ensure that "absolutely" all contamination has been identified in the investigated areas, or in other areas related to this or adjacent properties. There are inherent physical/logistical limitations noted for assessments and investigations. As such, there may be other soil or ground water areas not assessed that have some type or level of recognized environmental condition not investigated by this report. Over time, the evidence of some activities which may have occurred at the Site may be obscured or obliterated. No environmental assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property.

The samples collected in connection with the environmental assessment will only indicate the presence or absence of the investigated contaminant within the discrete sampling unit. Although samples will be collected from areas most likely to be contaminated by suspected substances based on known conditions, contamination may exist in areas not sampled, or for potential contaminants not selected for analysis and characterization. Consequently, any analytical results should be considered only as indicators of the possible Site conditions, with specific statistical significance.

## 11.0 REFERENCES

- LFR Inc. / Arcadis, 2010. Phase II Environmental Site Assessment, Spokane Raceway Park, 750 North Hayford Road, Airway Heights, Washington, January 22.
- Spokane County Water Resources, 2011. West Plains Hydrogeologic Database, WRIA Watershed Implementation Team, June 30.
- USDA Soil Conservation Service (SCS), 1968, Soil Survey of Spokane County, Washington.
- U.S. Geological Survey (USGS). 1968, Airway Heights, Washington- 7.5 Minute Topographic Quadrangle.
- USKH, 2007. Phase I Environmental Site Assessment, Washington Motorsports Limited Partnership, Spokane Raceway Park, 101 North Hayford Road, Spokane, Washington, 99224-9555, WO# 1050300, December 21.
- Washington Department of Natural Resources (WDNR), 2004. Geologic Map of the Airway Heights 7.5-Minute Quadrangle, Spokane County, Washington.
- WDNR, Division of Geology and Earth Resources, 1990. Geologic Map of the Spokane 1:100,000 Quadrangle, Washington-Idaho, Open File Report 90-17, November.

**TABLES**

**URS**



**TABLE 1**  
**Relative Groundwater Elevations (Deep Wells)**  
**Spokane County Raceway**  
**Airway Heights, Washington**

Monitoring Well	Sample Date	Well Casing Elevation (feet) <sup>1</sup>	Depth to Water (feet) <sup>2</sup>	Depth to Well Bottom (feet)	Groundwater Elevation (feet)
<b>MW-4</b>	9/21/2011	2345.15	287.86	358	2057.29
	10/7/2011	2345.15	288.17		2056.98
	10/12/2011	2345.15	288.38		2056.77
	11/22/2011	2345.15	288.62		2056.53
<b>MW-5</b>	9/21/2011	2350.96	293.65	358	2057.31
	10/7/2011	2350.96	293.94		2057.02
	10/12/2011	2350.96	294.13		2056.83
	11/22/2011	2350.96	294.39		2056.57
<b>MW-6</b>	9/21/2011	2354.28	297.37	361	2056.91
	10/7/2011	2354.28	297.59		2056.69
	10/12/2011	2354.28	297.83		2056.45
	11/22/2011	2354.28	297.95		2056.33

Notes:

- 1) Elevation data from monitoring well survey using established on-site benchmarks (David Evans & Associates, Inc., September 21, 2011)
- 2) Depth to water measured from well cap access port.

**TABLE 2**  
**Groundwater Monitoring Results**  
**Trichloroethene**  
**Spokane County Raceway**  
**Airway Heights, Washington**

Monitoring Well	Sample Date	Trichloroethene <sup>(1)</sup>
<b>MW-4</b>	10/7/2011	<b>16.2</b>
	11/22/2011	<b>8.52</b>
<b>MW-5</b>	9/21/2011	<b>6.67</b>
	11/22/2011	<b>8.55</b>
<b>MW-6</b>	10/12/2011	<1.0 U
	11/22/2011	<1.0 U
<b>MTCA Cleanup Level<sup>(2)</sup></b>		<b>5</b>

Notes:

(1) Analyzed using EPA Method 8260B Volatile Organic Compounds

(2) Model Toxics Control Act (MTCA) Method A Cleanup Levels for Groundwater

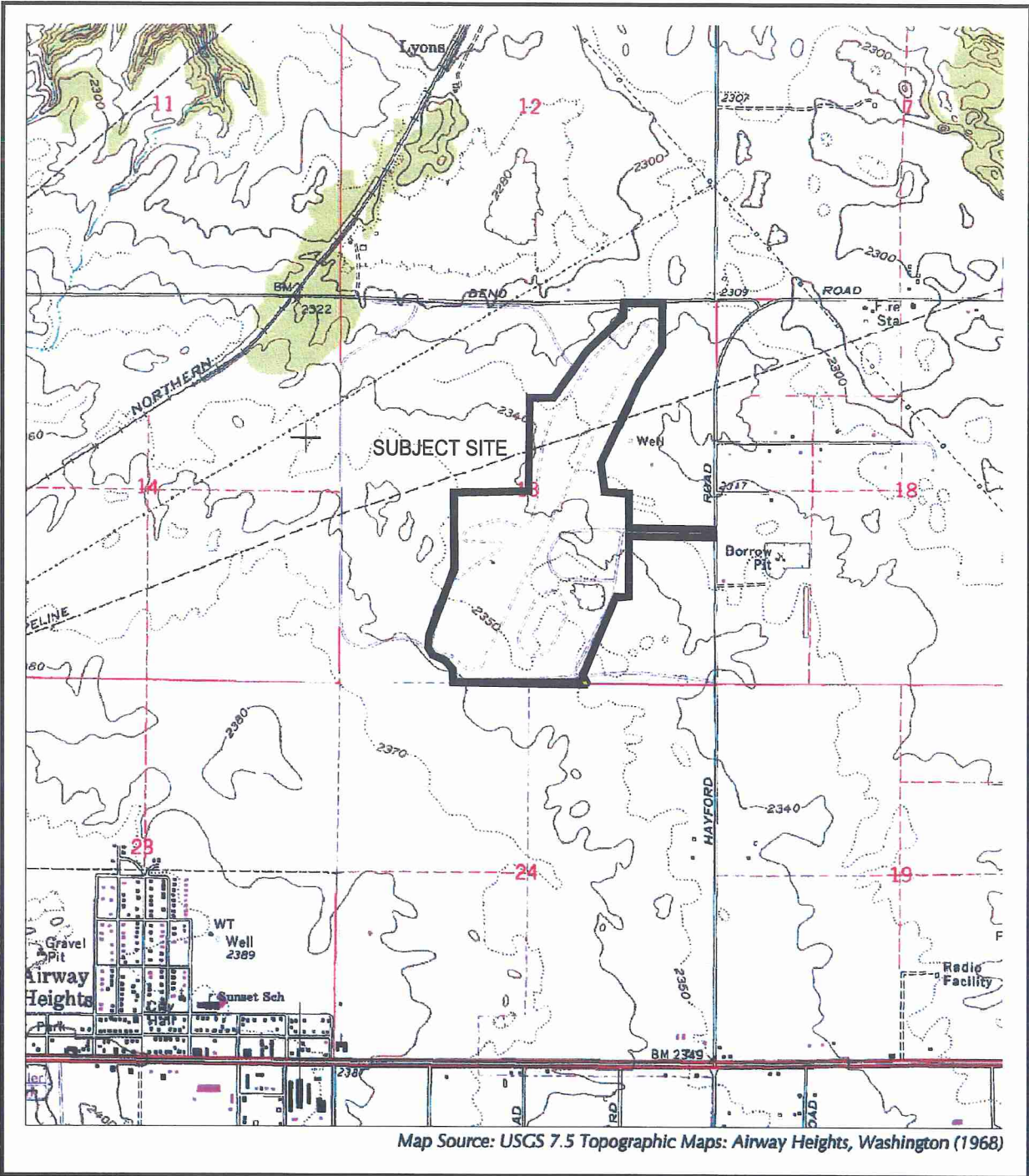
U = Not detected above laboratory method reporting limit (RL). Detection limit shown.

Concentrations reported in micrograms per liter (µg/L).

Concentrations exceeding MTCA cleanup level shown in bold.

**FIGURES**

**URS**



**SITE VICINITY MAP**

Spokane County Raceway  
 TCE Groundwater Monitoring  
 750 Hayford Road  
 Airway Heights, Washington

December 2011  
 36310095

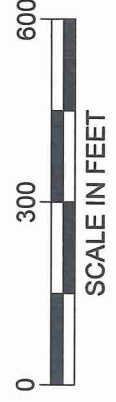
**FIGURE 1**



SOURCES: GOOGLE EARTH PRO, DAVID EVANS & ASSOCIATES, ELEVATION SURVEY (SEPT 2011)

**LEGEND**

-  MONITORING WELL NO. AND LOCATION
-  WATER SUPPLY WELL
-  PROPERTY LINE, FOR REPRESENTATION ONLY



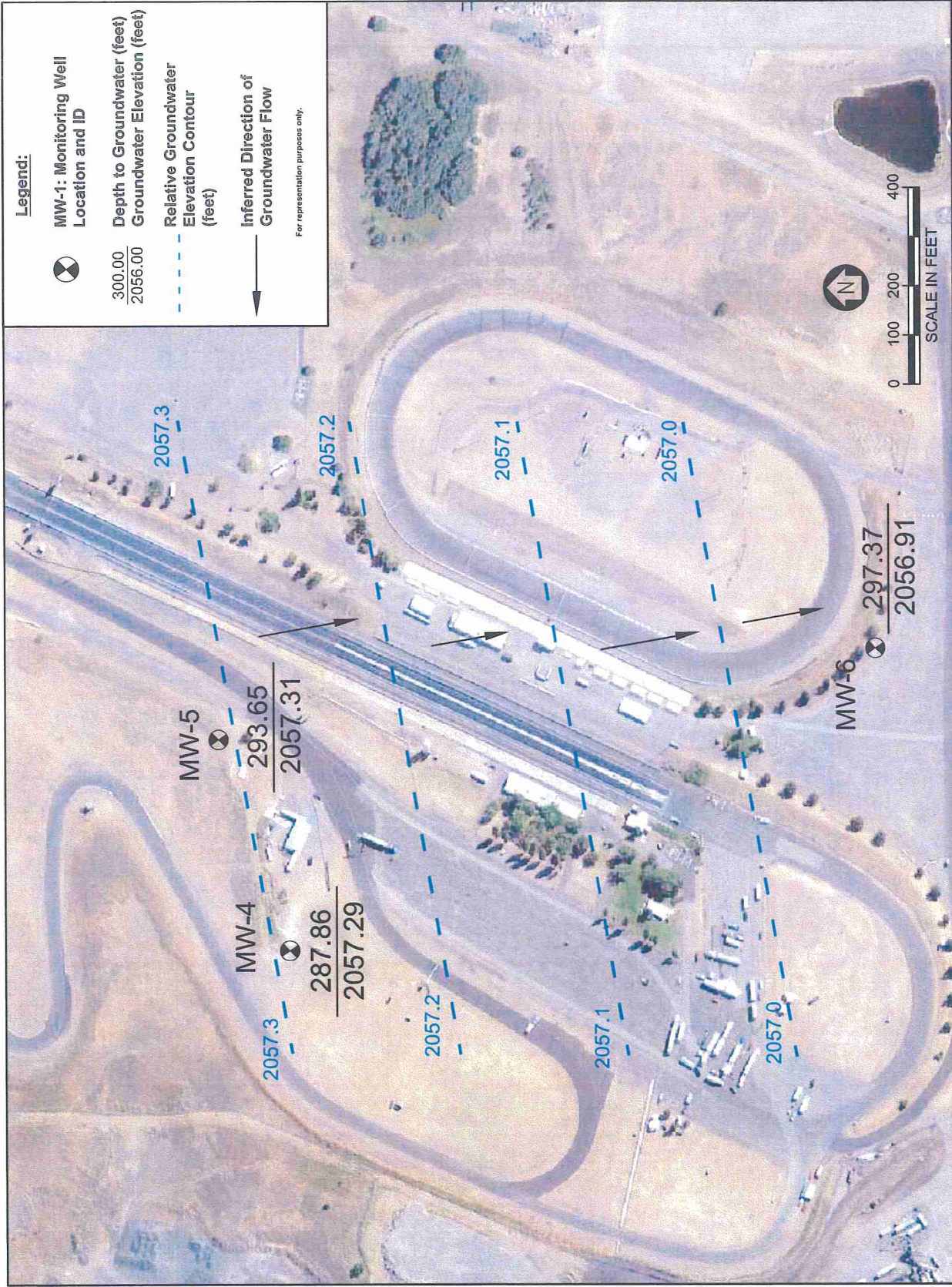
**FIGURE 2  
SITE PLAN**

SPOKANE COUNTY RACEWAY  
750 HAYFORD ROAD  
AIRWAY HEIGHTS, WASHINGTON



920 N. ARGONNE, STE. 300  
SPOKANE VALLEY, WA 99212

DATE: 12/01/11  
PROJECT NUMBER: 36310095



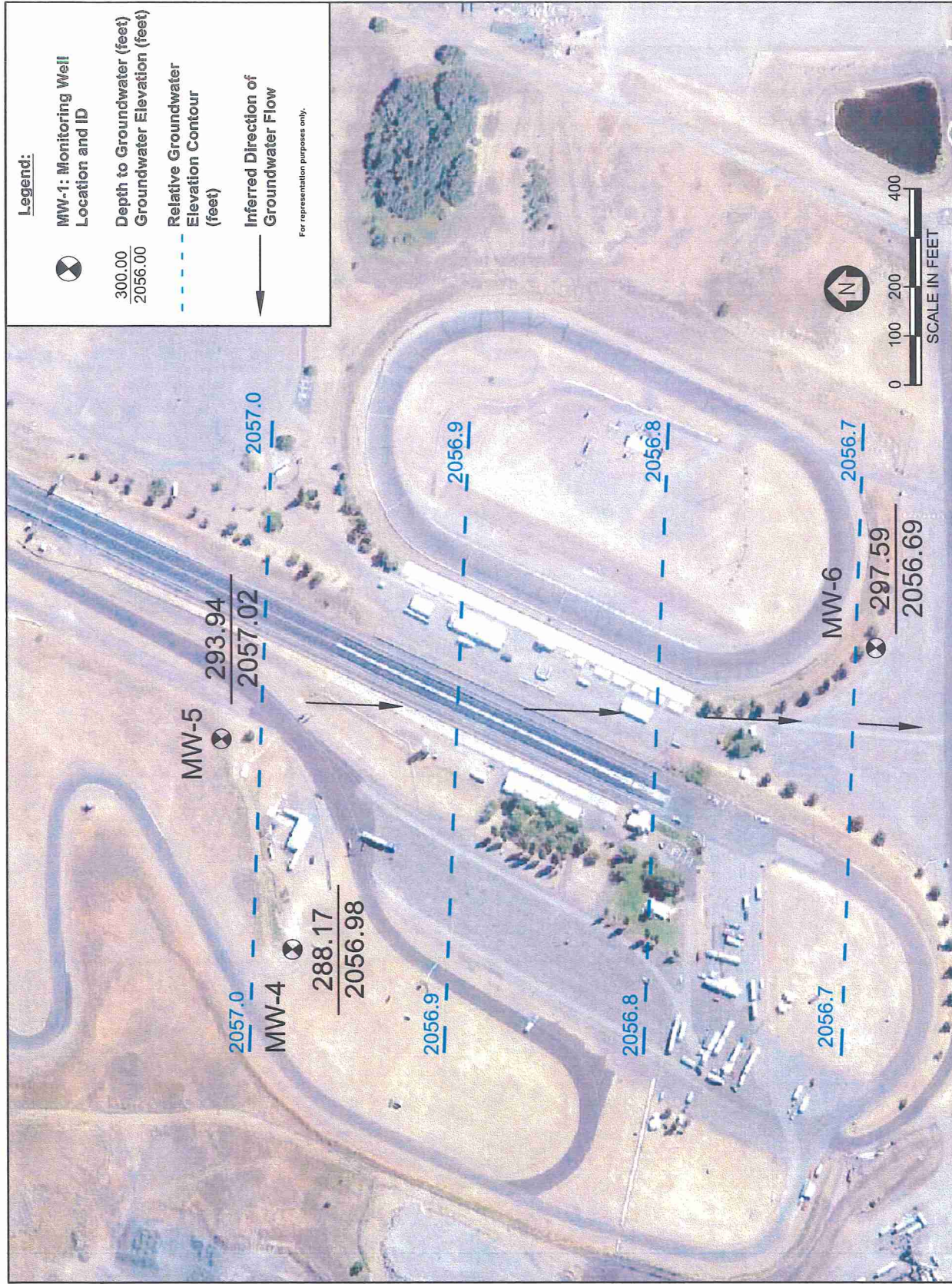
Sources: Google Earth Pro, David Evans & Associates, Elevation Survey (September 2011).

**FIGURE 3**  
**Relative Groundwater Elevations 09/21/2011**

Spokane County Raceway  
Airway Heights, Washington

P:\36310095 Raceway GW Remedial Investigation\CADD\092111 Grad.dwg Nov 28, 2011 - 3:16pm





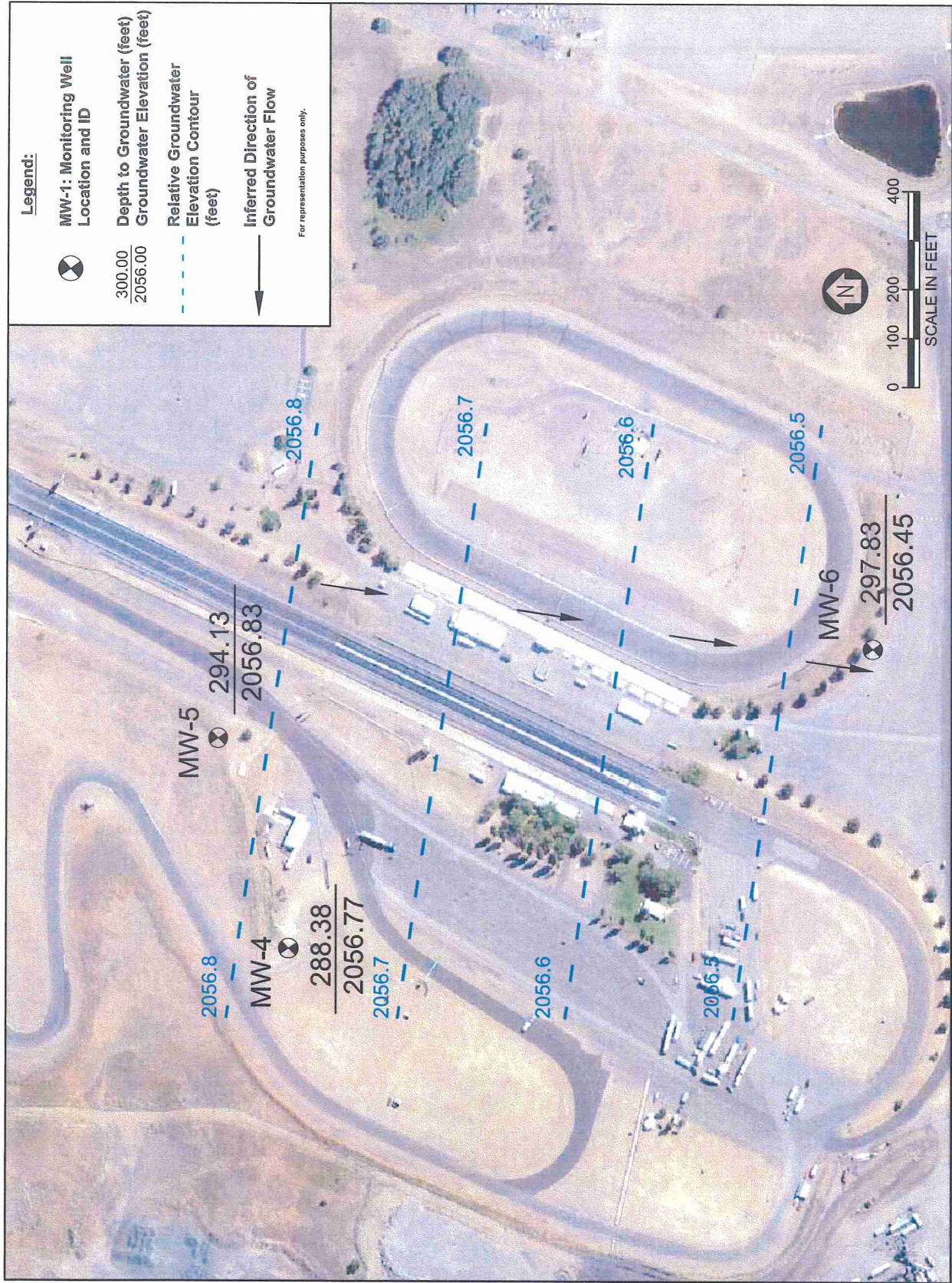
Sources: Google Earth Pro, David Evans & Associates, Elevation Survey (September 2011).

**FIGURE 4**  
**Relative Groundwater Elevations 10/07/2011**

Spokane County Raceway  
Airway Heights, Washington

P:\36310095 Raceway GW Remedial Investigation\CADD\100711 Grad.dwg Nov 28, 2011 - 3:17pm





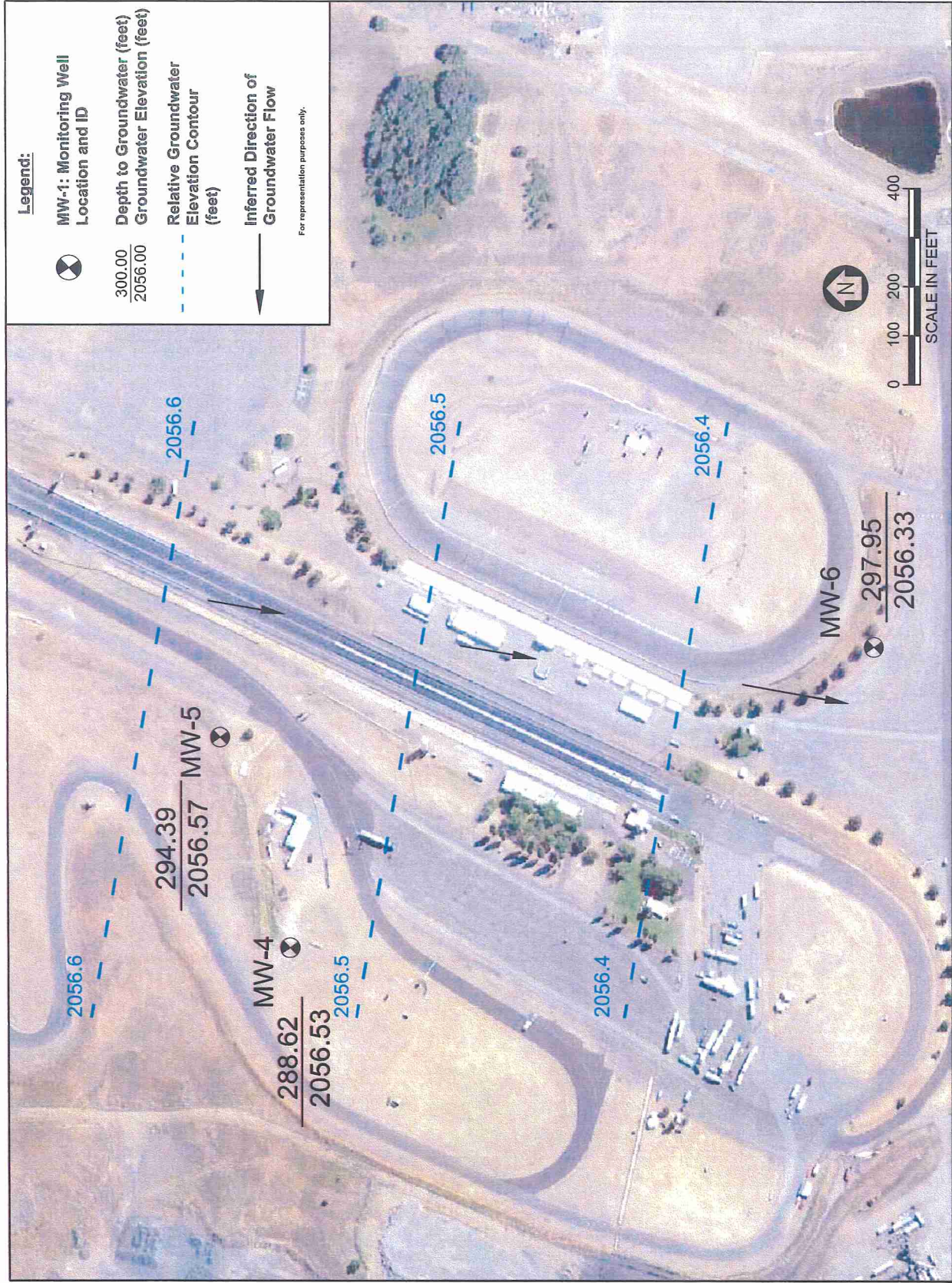
Sources: Google Earth Pro, David Evans & Associates, Elevation Survey (September 2011).

P:\363 10095 Raceway GW Remedial Investigation\CADD\101211 Grad.dwg Nov 28, 2011 - 3:17pm

**FIGURE 5**  
**Relative Groundwater Elevations 10/12/2011**



Spokane County Raceway  
Airway Heights, Washington



Sources: Google Earth Pro, David Evans & Associates, Elevation Survey (September 2011).

P:\36310095 Raceway GW Remedial Investigation\CADD\112211 Grad.dwg Nov 28, 2011 - 3:15pm

**FIGURE 6**  
**Relative Groundwater Elevations 11/22/2011**





Spokane County Raceway  
Airway Heights, Washington



SOURCES: GOOGLE EARTH PRO, DAVID EVANS & ASSOCIATES, ELEVATION SURVEY (SEPT 2011)

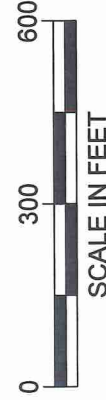
**LEGEND**

-  MONITORING WELL NO. AND LOCATION
-  WATER SUPPLY WELL
- PROPERTY LINE, FOR REPRESENTATION ONLY
- |           |      |
|-----------|------|
| 9/01/2011 | 10.0 |
|-----------|------|

 SAMPLE DATE AND TCE CONCENTRATION

**NOTES:**

1. TRICHLOROETHENE (TCE) CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).
2. MODEL TOXICS CONTROL ACT (MTCA) CLEANUP LEVEL FOR TCE IN GROUNDWATER IS 5 µg/L.
3. N.D. - NOT DETECTED



**FIGURE 7**  
TCE CONCENTRATIONS  
IN GROUNDWATER

SPOKANE COUNTY RACEWAY  
750 HAYFORD ROAD  
AIRWAY HEIGHTS, WASHINGTON



920 N. ARGONNE, STE. 300  
SPOKANE VALLEY, WA 99212

DATE: 12/01/11  
PROJECT NUMBER: 36310095

**APPENDIX A**  
**WELL NO. 1 WATER WELL REPORT (1980)**

**URS**

# WATER WELL REPORT

Application No. \_\_\_\_\_

STATE OF WASHINGTON

Permit No. \_\_\_\_\_

(1) OWNER: Name SPOKANE RACEWAY ~~CARROLL MOE~~ Park Address N. 101 HAYFORD RD SPOKANE 99  
 LOCATION OF WELL: County SPOKANE SE 1/4 Sec. 13 25 N., R. 41 W.M.  
 using and distance from section or subdivision corner

(3) PROPOSED USE: Domestic  Industrial  Municipal   
 Irrigation  Test Well  Other

(4) TYPE OF WORK: Owner's number of well (if more than one) 1  
 New well  Method: Dug  Bored   
 Deepened  Cable  Driven   
 Reconditioned  Rotary  Jetted

(5) DIMENSIONS: Diameter of well 6 inches  
 Drilled 442 ft. Depth of completed well \_\_\_\_\_ ft.

(6) CONSTRUCTION DETAILS:  
 Casing installed: 6 " Diam. from 0 ft. to 244 ft.  
 Threaded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Welded  " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Perforations: Yes  No   
 Type of perforator used \_\_\_\_\_  
 SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 \_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes  No   
 Manufacturer's Name \_\_\_\_\_ Model No. \_\_\_\_\_  
 Type \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes  No  Size of gravel: \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes  No  To what depth? 85 ft.  
 Material used in seal Bentonite  
 Did any strata contain unusable water? Yes  No   
 Type of water? CASCADING Depth of strata 75  
 Method of sealing strata off CASED + SEALED

(7) PUMP: Manufacturer's Name \_\_\_\_\_ Type: \_\_\_\_\_ HP \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation 2340 ft. above mean sea level.  
 Static level 210 ft. below top of well Date 4-3-80  
 Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
 Artesian water is controlled by \_\_\_\_\_ (Cmp. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
 Was a pump test made? Yes  No  If yes, by whom? \_\_\_\_\_  
 Yield: \_\_\_\_\_ 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	Water Level

Rate of test \_\_\_\_\_  
 Pump test 15 gal/min with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
 Artesian flow \_\_\_\_\_ g.p.m. Date 4-3-80  
 Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No

(10) WELL LOG:

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 stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
CLAY, COBBLES, BROKEN BASALT	0	30
BASALT, BLACK, FINE GRAINED, SLIGHTLY VESICULAR, MED.	30	105
10 GPM @ 75'		
AS ABOVE, MED. HARD	105	139
CLAY, WHITE, BAKED, MED.	139	152
CLAY, YELLOW, SOFT	152	165
CLAY, WHITE + TAN, MED.	165	173
BASALT, DK. GREY, RED, BROWN VESICULAR, MED. SOFT	173	179
AS ABOVE, MED.	179	195
BASALT, BLACK, VESICULAR, HARD	195	207
BASALT, BLACK, VERY HARD	207	238
VOID	238	240
SAND, WHITE, .006 - .010	240	244
SCORIA, RED-BROWN, VERY SOFT	242	244
BASALT, BLACK, SLIGHTLY VESICULAR	244	258
CLAY, PINK, BAKED, SOFT	258	262
BASALT, BROWN, MED. SOFT	262	280
BASALT, BLACK, HARD	280	345
10 GPM @ 339'		
CLAY, YELLOW, BAKED, MED.	345	347
SCORIA, BROWN, SOFT	347	362
CLAY, YELLOW, BAKED, HARD w/ STREAKS OF HARD BLACK BASALT	362	379
BASALT, BLACK, HARD	379	383
CLAY, RED, BAKED, HARD	383	386
CLAY, LT. GREY, SOFT	386	391
CLAY, GREEN, SOFT	391	399
CLAY, LT. GREY, SOFT	399	440
SAND, DK BROWN, .002 - .006	440	442
10-12 GPM @ 379' w/ WHITESAND		

Work started 3-17 1980 Completed 4-3 1980

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME ALLSERY DRILLING INC.  
 (Person, firm, or corporation) (Type or print)

Address N. 6227 CANNON, SPOKANE 99208

[Signed] E. Johnson  
 (Well Driller)

License No. 745 Date 4-3 1980

The Department of Ecology does NOT Warrant the Data and/or the Information on this Well Report.

4/29/80

(USE ADDITIONAL SHEETS IF NECESSARY)

**APPENDIX B**  
**FIELD ACTIVITY PHOTOGRAPHS**

**URS**



**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
1

Direction Photo  
Taken: Southwest

**Description:**

View of drill rig set-up  
at monitoring well MW-  
4



Photo No.  
2

Direction Photo  
Taken: NA

**Description:**

View of MW-4 basalt  
drill cuttings at  
approximately 50 feet  
below ground surface  
(bgs).





**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
3

Direction Photo  
Taken: NA

**Description:**

View of MW-4 sand and  
fine gravel drill cuttings  
at 165 feet bgs.

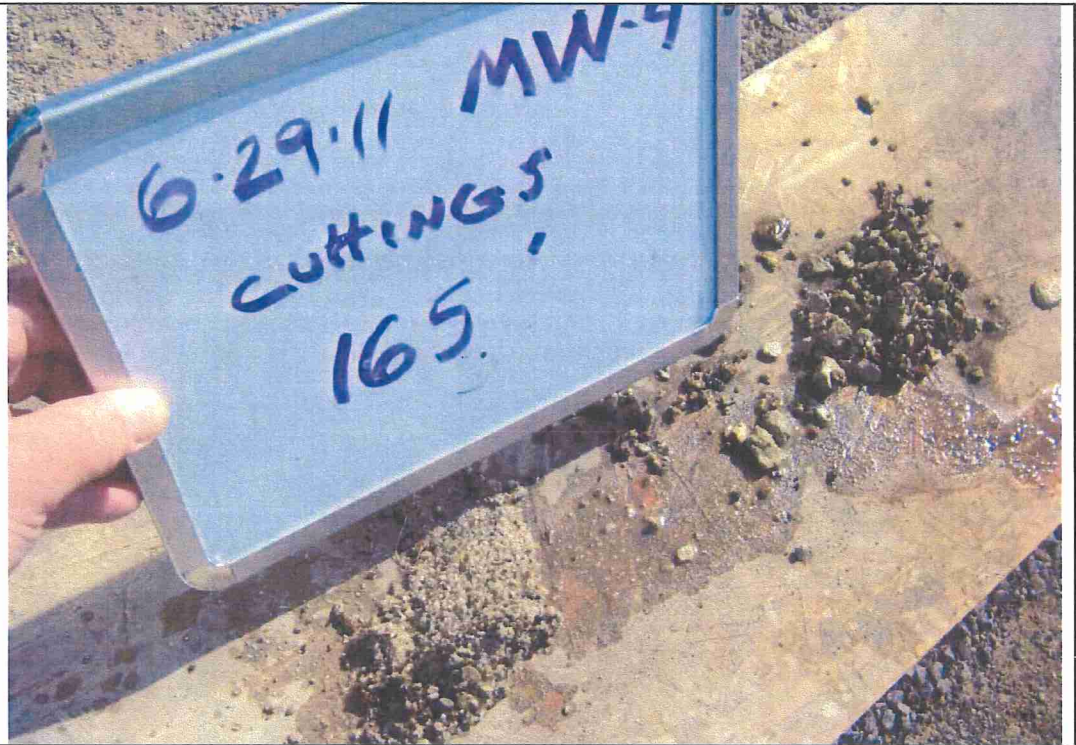
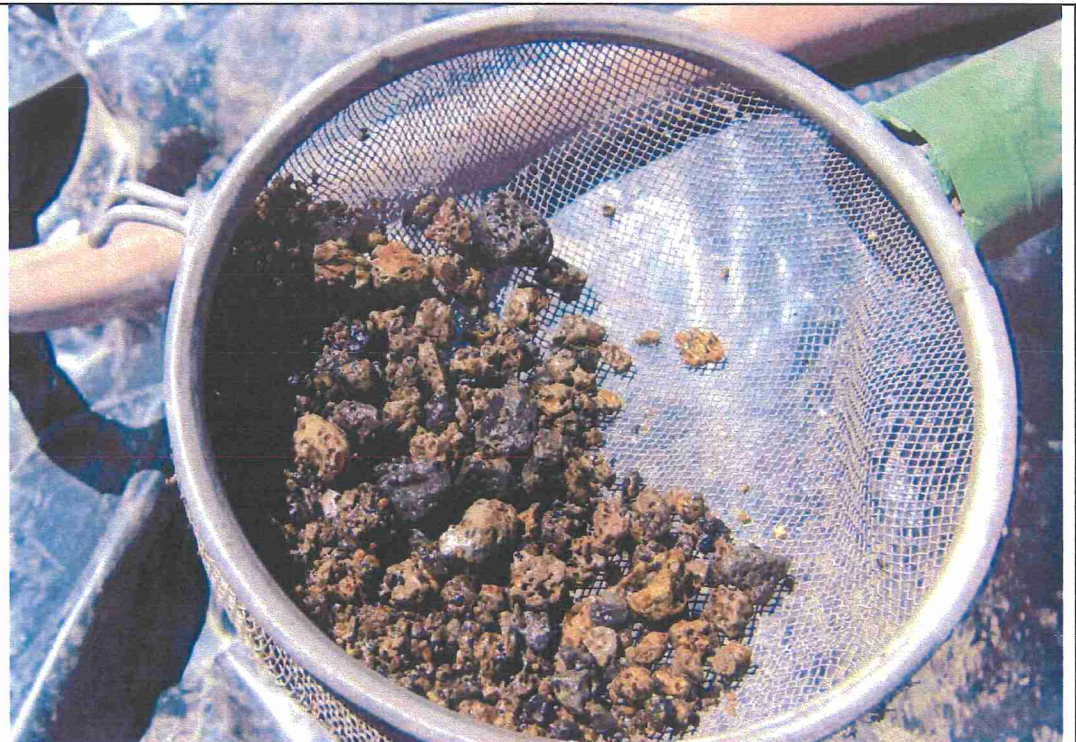


Photo No.  
4

Direction Photo  
Taken: NA

**Description:**

View of MW-4 basalt  
scoria or clast with  
hardened clay drill  
cuttings at 360 feet bgs.





**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

**Washington  
Motorsports L.P.**

**Spokane County Raceway**  
750 Hayford Road  
Airway Heights, Washington

**URS Project No.**  
36310095

**Date:** Jul to Sept 2011

**Photo No.**  
5

**Direction Photo  
Taken:** NA

**Description:**

View of MW-4 well  
screen and stainless  
steel stabilizer during  
installation.



**Photo No.**  
6

**Direction Photo  
Taken:** Southwest

**Description:**

View of drill rig setup at  
monitoring well MW-5.





**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
7

Direction Photo  
Taken: NA

**Description:**

View of MW-5  
hardened clay with  
basalt scoria or clast,  
medium sands, and  
basalt drill cuttings from  
140 to 160 feet bgs.



Photo No.  
8

Direction Photo  
Taken: NA

**Description:**

View of MW-5 hard  
basalt drill cuttings from  
220 to 240 feet bgs.





**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

**Washington  
Motorsports L.P.**

**Spokane County Raceway**  
750 Hayford Road  
Airway Heights, Washington

**URS Project No.**  
36310095

**Date:** Jul to Sept 2011

**Photo No.**  
9

**Direction Photo  
Taken:** NA

**Description:**

View MW-5 fractured and weathered basalt, and basalt scoria or clast with hardened clay drill cuttings from 350 to 360 feet bgs.



**Photo No.**  
10

**Direction Photo  
Taken:** East

**Description:**

View of drill rig setup at monitoring well MW-6.





**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
11

Direction Photo  
Taken: NA

**Description:**

View of MW-6 basalt  
scoria or clast and clay  
drill cuttings from 40 to  
60 feet bgs.



Photo No.  
12

Direction Photo  
Taken: NA

**Description:**

View of MW-6 clay clast  
and silt stone drill  
cuttings from 150 to  
160 feet bgs.





**PHOTOGRAPHIC LOG**  
TCE Groundwater Investigation

**Washington  
Motorsports L.P.**

**Spokane County Raceway**  
750 Hayford Road  
Airway Heights, Washington

**URS Project No.**  
36310095

**Date:** Jul to Sept 2011

**Photo No.**  
13

**Direction Photo  
Taken:** NA

**Description:**

View of MW-6 clay with weathered basalt scoria and weathered basalt with quartz fragments drill cuttings from 200 to 215 feet bgs.



**Photo No.**  
14

**Direction Photo  
Taken:** NA

**Description:**

View of monitoring well MW-5 finished surface construction.



Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
17

Direction Photo  
Taken: NA

**Description:**

Close-up view of MW-5 well cap with water level meter port, high-pressure nitrogen drive and water return fittings.



Photo No.  
18

Direction Photo  
Taken: NA

**Description:**

View of groundwater sampling setup with pump controller and water quality meter at MW-6.



Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
19

Direction Photo  
Taken: NA

**Description:**

Close-up view of pump controller and water quality meter setup at MW-6.



Photo No.  
20

Direction Photo  
Taken: NA

**Description:**

Close-up view of bladder pump controller in operation at MW-6.



Washington  
Motorsports L.P.

Spokane County Raceway  
750 Hayford Road  
Airway Heights, Washington

URS Project No.  
36310095

Date: Jul to Sept 2011

Photo No.  
21

Direction Photo  
Taken: NA

**Description:**

Close-up view of high-pressure nitrogen bottle fittings and drive line connection.

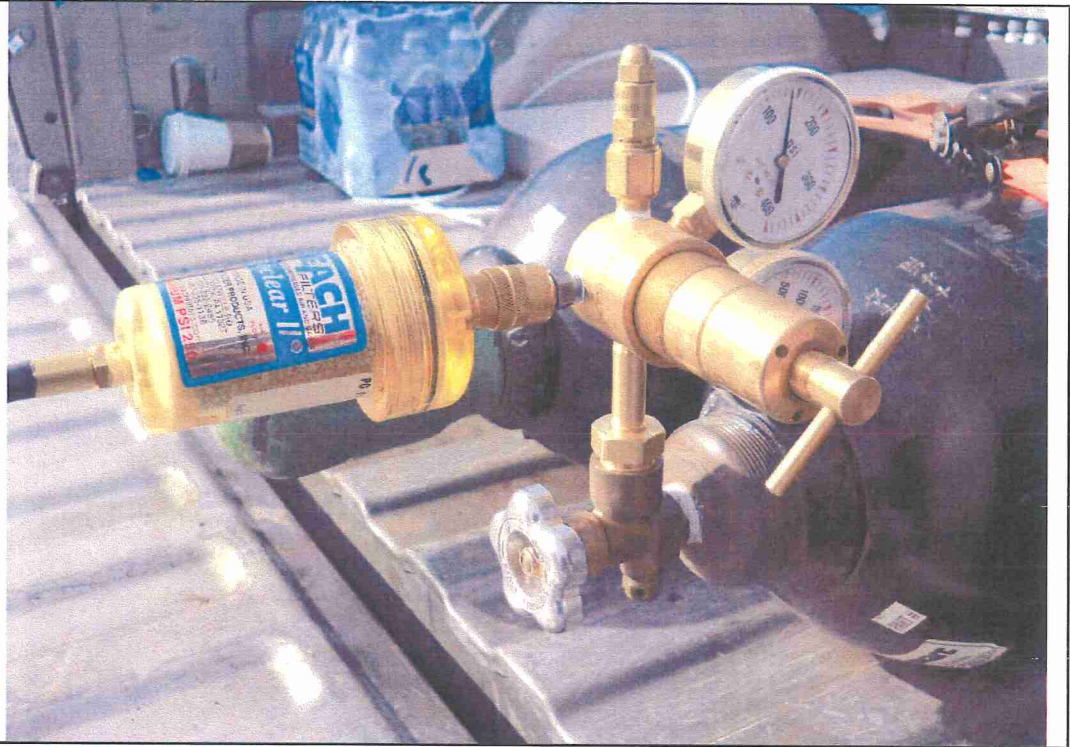
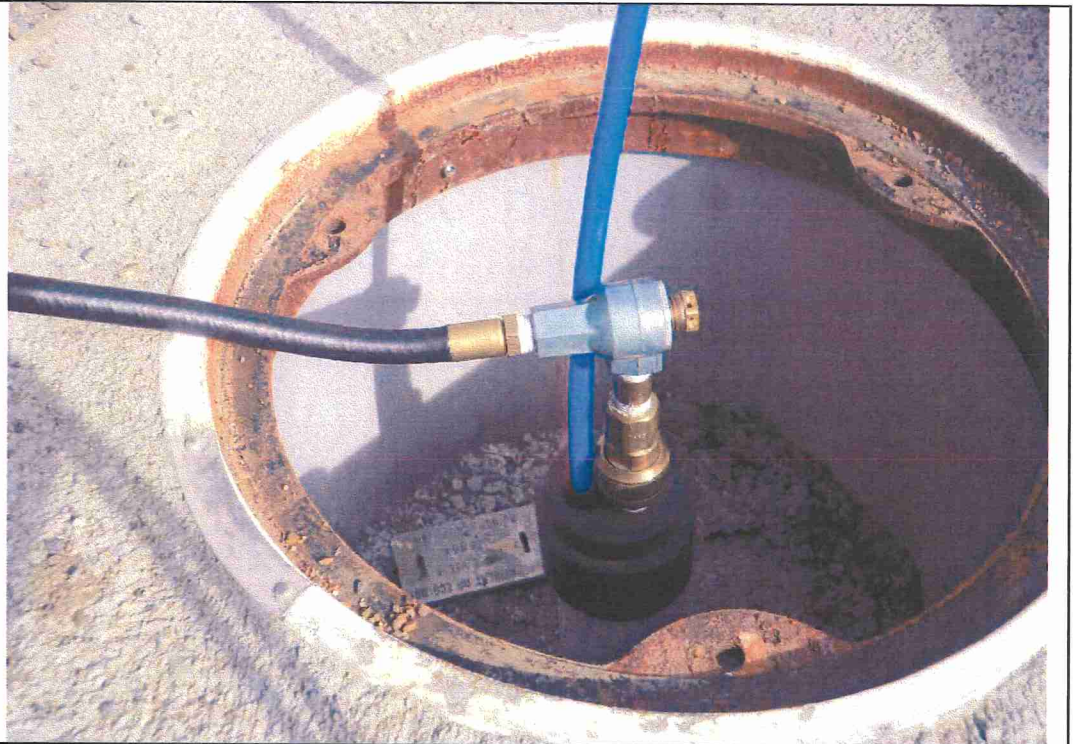


Photo No.  
22

Direction Photo  
Taken: NA

**Description:**

Close-up view of well head connections with 1/4 inch high pressure nitrogen drive line and 3/8 inch water return line at MW-6.



**APPENDIX C**

**MONITORING WELL BORING LOGS AND ELEVATION SURVEY**

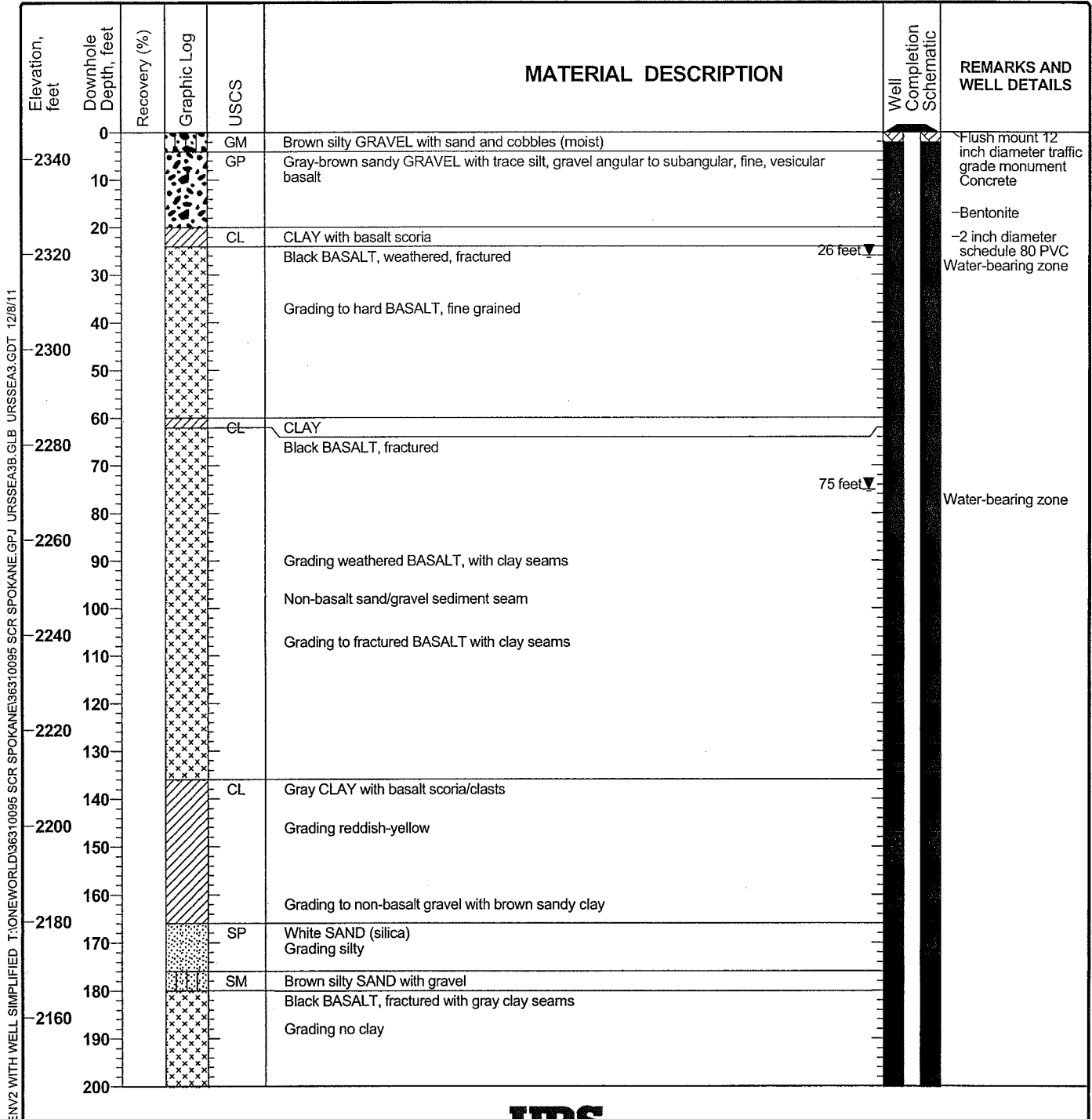


Project: Washington Motorsports Limited Partnership  
 Project Location: Spokane County Raceway  
 Project Number: 36310095

# Log of Boring MW-4

Sheet 1 of 2

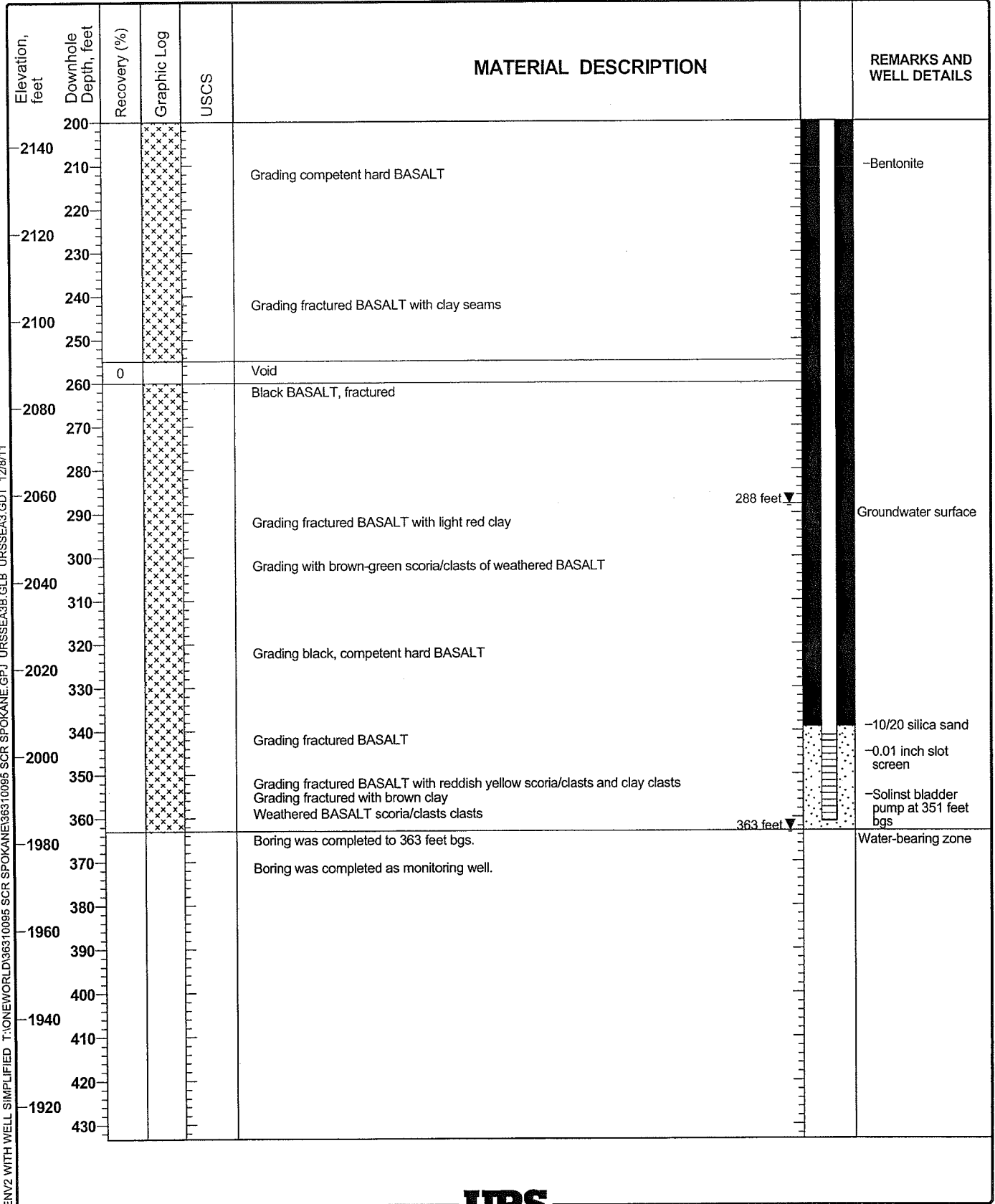
Date(s) Drilled	6/27/11-7/6/11	Logged By	GDP	Checked By	JEL
Drilling Method	Air Rotary	Drilling Contractor	H2O Well Drilling	Total Depth of Borehole	363 feet bgs
Drill Rig Type	Star 30k-DH	Drill Bit Size/Type	8 inch/6 inch	Ground Surface Elevation	2345.60
Groundwater Level	287.86 (9/21/11)	Sampling Method	Cuttings	Hammer Data	NA
Borehole Backfill	NA	Location	Lat N47.66141, Long W117.57454 (WGS84)		



Project: Washington Motorsports Limited Partnership  
 Project Location: Spokane County Raceway  
 Project Number: 36310095

# Log of Boring MW-4

Sheet 2 of 2



ENV2 WITH WELL SIMPLIFIED T:\ONEWORLD\36310095 SCR SPOKANE.GPJ URSSEA3B.GLB URSSEA3.GDT 12/8/11

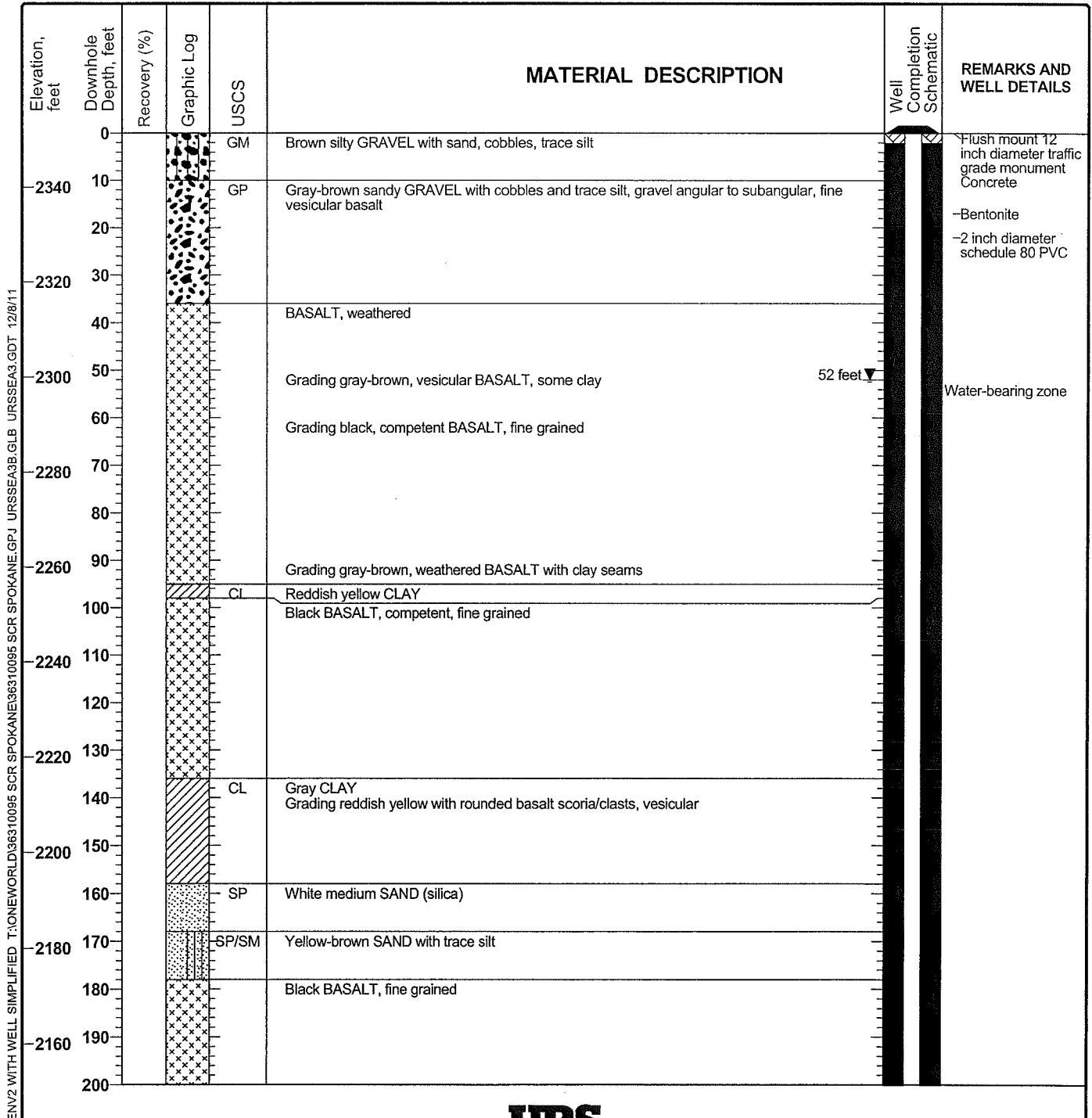


Project: Washington Motorsports Limited Partnership  
 Project Location: Spokane County Raceway  
 Project Number: 36310095

# Log of Boring MW-5

Sheet 1 of 2

Date(s) Drilled	7/19/11-7/25/11	Logged By	GDP/JEL	Checked By	JEL
Drilling Method	Air Rotary	Drilling Contractor	H2O Well Drilling	Total Depth of Borehole	360 feet bgs
Drill Rig Type	Star 30k-DH	Drill Bit Size/Type	8 inch/6 inch	Ground Surface Elevation	2351.38
Groundwater Level	293.65 (9/21/11)	Sampling Method	Cuttings	Hammer Data	NA
Borehole Backfill	NA	Location	Lat N47.66173, Long W117.57285 (WGS84)		

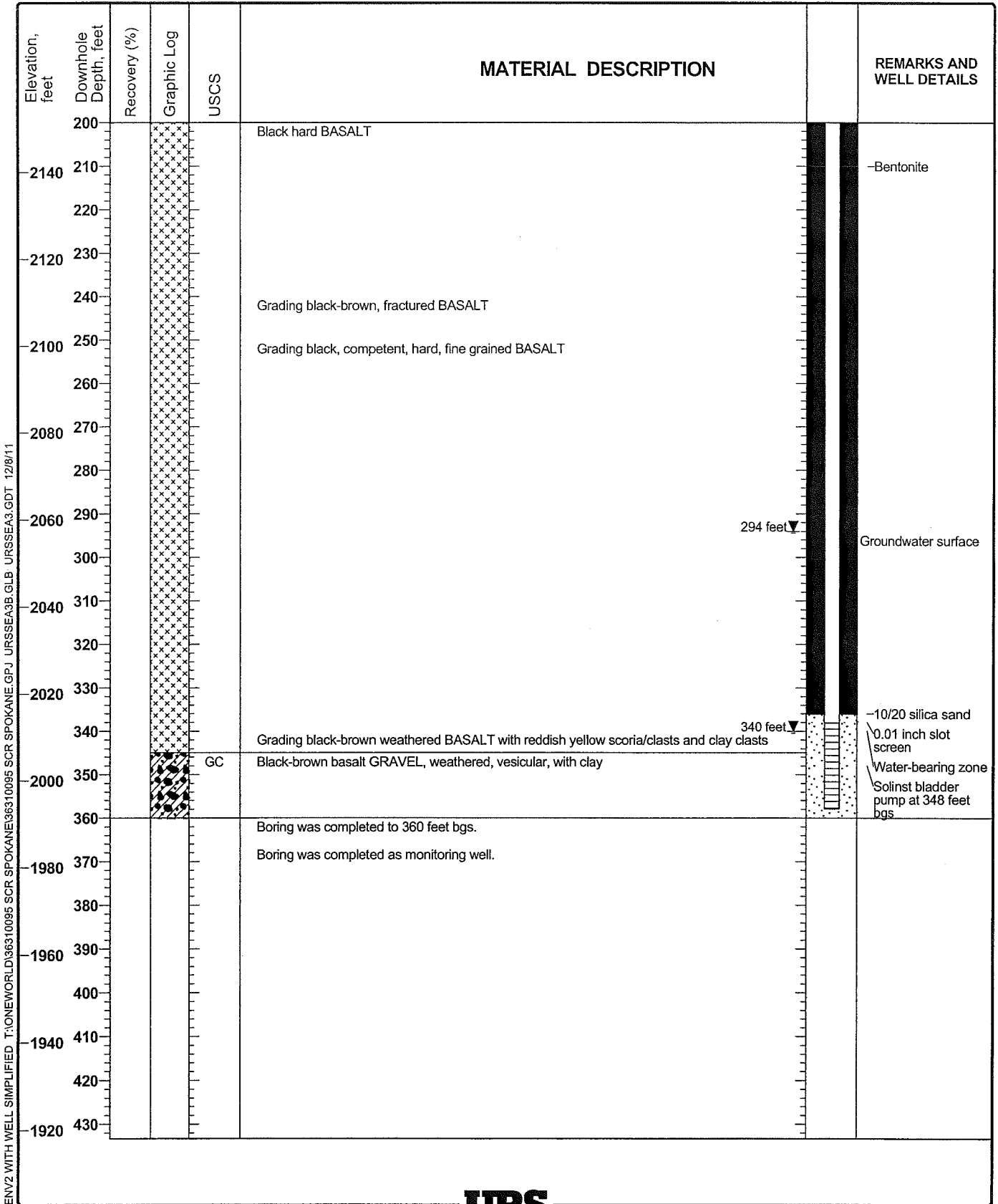


ENV2 WITH WELL SIMPLIFIED T:\ONEWORLD\36310095 SCR SPOKANE\GPJ URSSEA3B.GLB URSSEA3.GDT 12/8/11

Project: Washington Motorsports Limited Partnership  
 Project Location: Spokane County Raceway  
 Project Number: 36310095

# Log of Boring MW-5

Sheet 2 of 2



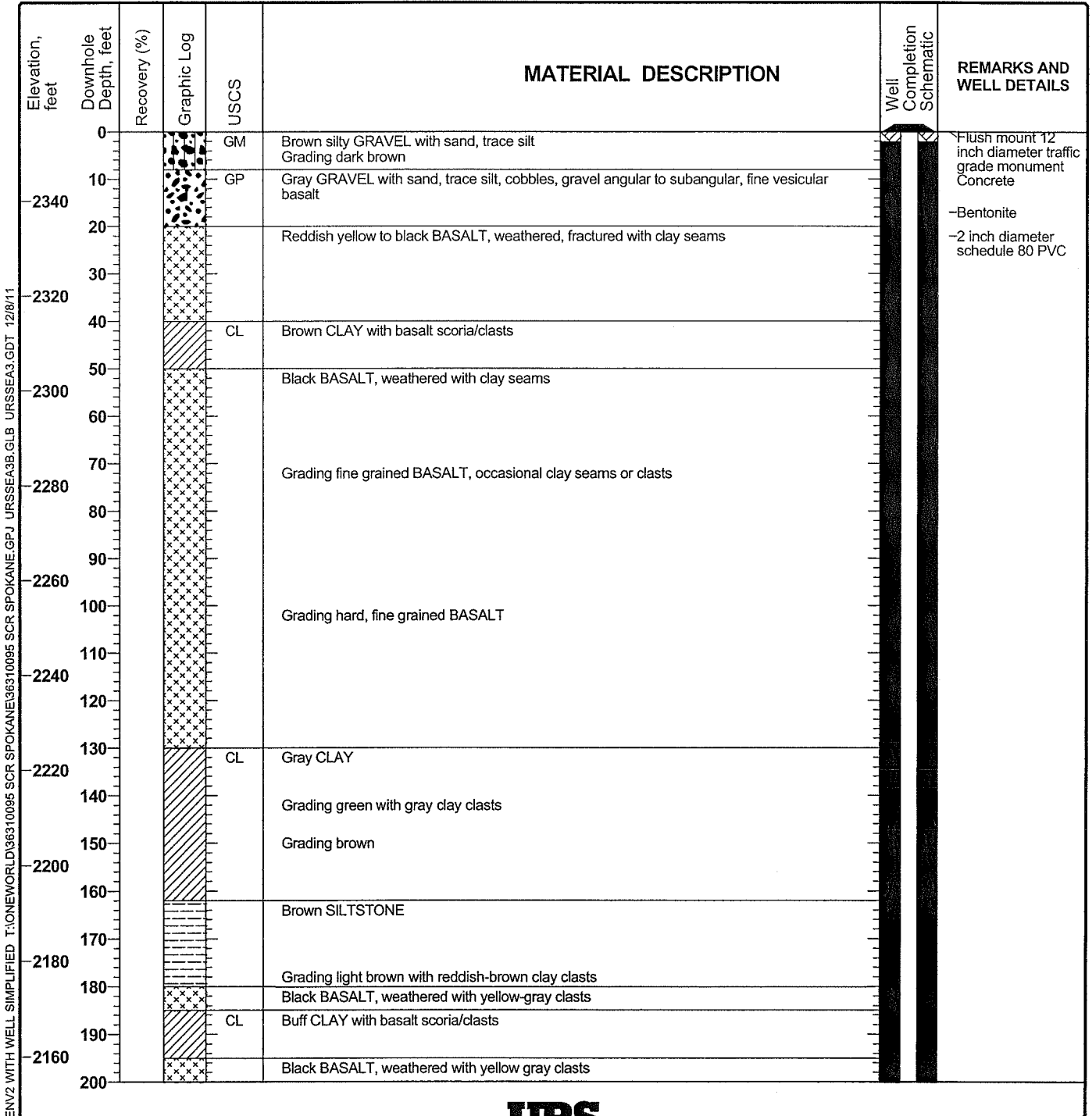
ENV2 WITH WELL SIMPLIFIED T:\ONEWORLD\36310095 SCR SPOKANE.GPJ URSSEA3B.GLB URSSEA3.GDT 12/8/11

Project: Washington Motorsports Limited Partnership  
 Project Location: Spokane County Raceway  
 Project Number: 36310095

# Log of Boring MW-6

Sheet 1 of 2

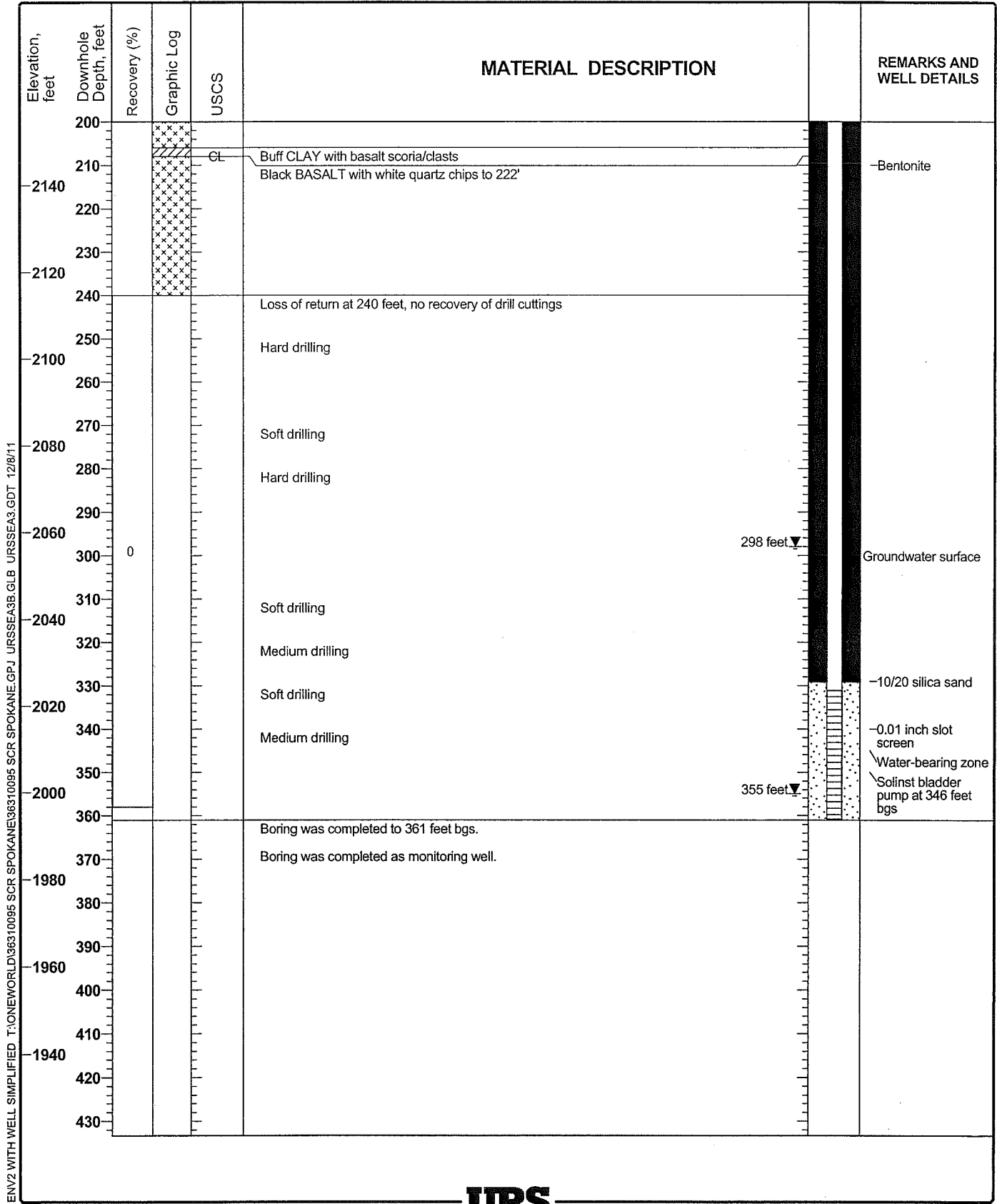
Date(s) Drilled	8/01/11-8/10/11	Logged By	GDP	Checked By	JEL
Drilling Method	Air Rotary	Drilling Contractor	H2O Well Drilling	Total Depth of Borehole	361 feet bgs
Drill Rig Type	Star 30k-DH	Drill Bit Size/Type	8 inch/6 inch	Ground Surface Elevation	2354.68
Groundwater Level	297.95 (9/21/11)	Sampling Method	Cuttings	Hammer Data	NA
Borehole Backfill	NA	Location	Lat N47.65804, Long W117.57206 (WGS84)		



Project: Washington Motorsports Limited Partnership  
 Project Location: Spokane County Raceway  
 Project Number: 36310095

# Log of Boring MW-6

Sheet 2 of 2



ENV2 WITH WELL SIMPLIFIED T:\ONEWORLD\36310095 SCR SPOKANE.GPJ\_URSSEA3B.GLB\_URSSEA3.GDT 12/8/11





**APPENDIX D**

**LABORATORY REPORTS – GROUNDWATER (SEPTEMBER/OCTOBER 2011)**





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

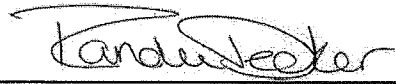
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SUJ0065  
Client Project/Site: 36310095  
Client Project Description: Spokane County Raceway

For:  
URS Corp.  
920 N. Argonne Road Suite 300  
Spokane, WA 99212

Attn: Jeff Leppo



Authorized for release by:  
10/14/2011 02:01:42 PM

Randee Decker  
Project Manager  
Randee.Decker@testamericainc.com

### LINKS

Review your project  
results through

**Total Access**

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The  
Expert**

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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# Sample Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SUJ0065-01	MW-4	Water	10/07/11 14:11	10/10/11 13:55

---



## Definitions/Glossary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

---

### Qualifiers

---

#### GCMS Volatiles

Qualifier	Qualifier Description
A-01	Internal Standard recovery was below method limits. A high bias to the analyte result is indicated.

---

### Glossary

---

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

Client Sample ID: MW-4

Lab Sample ID: SUJ0065-01

Date Collected: 10/07/11 14:11

Matrix: Water

Date Received: 10/10/11 13:55

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Chloromethane	ND		3.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Vinyl chloride	ND		0.200		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Bromomethane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Chloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Carbon disulfide	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Methylene chloride	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Acetone	ND		25.0		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
<b>cis-1,2-Dichloroethene</b>	<b>1.44</b>		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Bromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Chloroform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
2-Butanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Benzene	ND		0.200		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
<b>Trichloroethene</b>	<b>16.2</b>		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Dibromomethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Bromodichloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Toluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Tetrachloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Dibromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
2-Hexanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Ethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Chlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
m,p-Xylene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
o-Xylene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Styrene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Bromoform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Isopropylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
n-Propylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Bromobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00



# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

Client Sample ID: MW-4

Lab Sample ID: SUJ0065-01

Date Collected: 10/07/11 14:11

Matrix: Water

Date Received: 10/10/11 13:55

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
n-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
Naphthalene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:05	1.00
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	104		66.5 - 145				10/13/11 08:42	10/13/11 17:05	1.00
Toluene-d8	78.8		75.4 - 120				10/13/11 08:42	10/13/11 17:05	1.00
4-bromofluorobenzene	114		68.4 - 123				10/13/11 08:42	10/13/11 17:05	1.00

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11J0129-BLK1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chloromethane	ND		3.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Vinyl chloride	ND		0.200		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromomethane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Carbon disulfide	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Methylene chloride	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Acetone	ND		25.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chloroform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
2-Butanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Benzene	ND		0.200		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Trichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Dibromomethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromodichloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Toluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Tetrachloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Dibromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
2-Hexanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Ethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
m,p-Xylene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
o-Xylene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Styrene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromoform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Isopropylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
n-Propylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J0129-BLK1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
n-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Naphthalene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Dibromofluoromethane	99.8		66.5 - 145	10/13/11 08:42	10/13/11 16:08	1.00
Toluene-d8	82.4		75.4 - 120	10/13/11 08:42	10/13/11 16:08	1.00
4-bromofluorobenzene	92.2		68.4 - 123	10/13/11 08:42	10/13/11 16:08	1.00

Lab Sample ID: 11J0129-BS1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	Limits
Benzene	10.0	11.0		ug/l		110	72.9 - 120
Trichloroethene	10.0	10.9		ug/l		109	73.7 - 120
Toluene	10.0	10.9		ug/l		109	72.4 - 132
Chlorobenzene	10.0	10.4		ug/l		104	80 - 120

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
Dibromofluoromethane	91.4		66.5 - 145
Toluene-d8	81.4		75.4 - 120
4-bromofluorobenzene	93.2		68.4 - 123

Lab Sample ID: 11J0129-MS1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Matrix Spike  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1-Dichloroethene	ND		10.0	12.6		ug/l		126	52.5 - 135
Benzene	ND		10.0	11.8		ug/l		118	72.3 - 120
Trichloroethene	ND		10.0	11.5		ug/l		115	80 - 120
Toluene	0.470		10.0	11.5		ug/l		110	62.7 - 137
Chlorobenzene	ND		10.0	10.6		ug/l		106	78.9 - 120

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065



## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J0129-MS1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Matrix Spike  
Prep Type: Total  
Prep Batch: 11J0129\_P

Surrogate	Matrix Spike		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	104		66.5 - 145
Toluene-d8	84.4		75.4 - 120
4-bromofluorobenzene	111		68.4 - 123

Lab Sample ID: 11J0129-MSD1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	% Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
1,1-Dichloroethene	ND		10.0	13.2	A-01		132	52.5 - 135	4.97	10.5
Benzene	ND		10.0	12.0			120	72.3 - 120	2.02	10.7
Trichloroethene	ND		10.0	11.8			118	80 - 120	2.75	10
Toluene	0.470		10.0	11.8			114	62.7 - 137	3.00	13
Chlorobenzene	ND		10.0	11.0			110	78.9 - 120	3.43	11.2

Surrogate	Matrix Spike Dup		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	106	A-01	66.5 - 145
Toluene-d8	80.8		75.4 - 120
4-bromofluorobenzene	99.2		68.4 - 123

# Certification Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Spokane	Alaska	Alaska UST	10	UST-071
TestAmerica Spokane	Washington	State Program	10	C569

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0065

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Method	Method Description	Protocol	Laboratory
EPA 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL SPK

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**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200





**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SUS00675</u>	Client: <u>URS</u>	Project: <u>Spokane County Raceway</u>		
Date/Time Received: <u>10-10-11 13:55</u>		By: <u>CS</u>		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:		<input checked="" type="checkbox"/>		
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature by IR Gun: <u>9.6</u> °C Thermometer Serial #81500 (acceptance criteria 0-6 °C)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Login Phase	Yes	No	NA	Comments
Date/Time: <u>10/11/11 14:05</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)	<input checked="" type="checkbox"/>			
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab			<input checked="" type="checkbox"/>	
Does this project require quick turnaround analysis			<input checked="" type="checkbox"/>	
Are there any short hold time tests (see chart below)		<input checked="" type="checkbox"/>		
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login			<input checked="" type="checkbox"/>	
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

1  
2  
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9



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

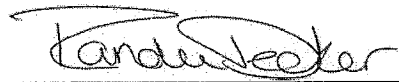
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SUI0154  
Client Project/Site: 36310095  
Client Project Description: Spokane County Raceway

For:  
URS Corp.  
920 N. Argonne Road Suite 300  
Spokane, WA 99212

Attn: Jeff Leppo



Authorized for release by:  
09/27/2011 05:42:26 PM

Randee Decker  
Project Manager  
Randee.Decker@testamericainc.com

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

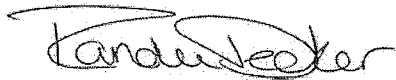
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SUI0154  
Client Project/Site: 36310095  
Client Project Description: Spokane County Raceway

For:  
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920 N. Argonne Road Suite 300  
Spokane, WA 99212

Attn: Jeff Leppo



Authorized for release by:  
09/27/2011 05:42:26 PM

Randee Decker  
Project Manager  
Randee.Decker@testamericainc.com

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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Chain of Custody . . . . .	13

# Sample Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SUI0154-01	MW-5	Water	09/21/11 12:25	09/21/11 16:50
SUI0154-02	MW-Dupe	Water	09/21/11 00:00	09/21/11 16:50

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## Definitions/Glossary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SU10154

---

### Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

Client Sample ID: MW-5  
Date Collected: 09/21/11 12:25  
Date Received: 09/21/11 16:50

Lab Sample ID: SUI0154-01  
Matrix: Water

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Chloromethane	ND		3.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Vinyl chloride	ND		0.200		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Bromomethane	ND		5.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Chloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Trichlorofluoromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Carbon disulfide	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Methylene chloride	ND		10.0		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Acetone	ND		25.0		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1-Dichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
2,2-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Bromochloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Chloroform	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Carbon tetrachloride	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
2-Butanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Benzene	ND		0.200		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
<b>Trichloroethene</b>	<b>6.67</b>		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Dibromomethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Bromodichloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Toluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Tetrachloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Dibromochloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,3-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2-Dibromoethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
2-Hexanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Ethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Chlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
m,p-Xylene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
o-Xylene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Styrene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Bromoform	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Isopropylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
n-Propylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Bromobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
2-Chlorotoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00



# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

Client Sample ID: MW-5

Lab Sample ID: SUI0154-01

Date Collected: 09/21/11 12:25

Matrix: Water

Date Received: 09/21/11 16:50

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
4-Chlorotoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
tert-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
sec-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
p-Isopropyltoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
n-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Hexachlorobutadiene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Naphthalene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 16:36	1.00
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane	86.0		66.5 - 145				09/22/11 14:57	09/22/11 16:36	1.00
Toluene-d8	89.6		75.4 - 120				09/22/11 14:57	09/22/11 16:36	1.00
4-bromofluorobenzene	84.8		68.4 - 123				09/22/11 14:57	09/22/11 16:36	1.00

Client Sample ID: MW-Dupe

Lab Sample ID: SUI0154-02

Date Collected: 09/21/11 00:00

Matrix: Water

Date Received: 09/21/11 16:50

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Chloromethane	ND		3.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Vinyl chloride	ND		0.200		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Bromomethane	ND		5.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Chloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Trichlorofluoromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Carbon disulfide	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Methylene chloride	ND		10.0		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Acetone	ND		25.0		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1-Dichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
2,2-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Bromochloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Chloroform	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Carbon tetrachloride	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
2-Butanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Benzene	ND		0.200		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

Client Sample ID: MW-Dupe

Lab Sample ID: SUI0154-02

Date Collected: 09/21/11 00:00

Matrix: Water

Date Received: 09/21/11 16:50

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	6.69		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Dibromomethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Bromodichloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Toluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Tetrachloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Dibromochloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,3-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2-Dibromoethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
2-Hexanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Ethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Chlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
m,p-Xylene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
o-Xylene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Styrene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Bromoform	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Isopropylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
n-Propylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Bromobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
2-Chlorotoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
4-Chlorotoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
tert-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
sec-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
p-Isopropyltoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
n-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Hexachlorobutadiene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
Naphthalene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 17:57	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	87.8		66.5 - 145	09/22/11 14:57	09/22/11 17:57	1.00
Toluene-d8	89.8		75.4 - 120	09/22/11 14:57	09/22/11 17:57	1.00
4-bromofluorobenzene	92.0		68.4 - 123	09/22/11 14:57	09/22/11 17:57	1.00



# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11I0178-BLK1

Matrix: Water

Analysis Batch: 11I0178

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11I0178\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Chloromethane	ND		3.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Vinyl chloride	ND		0.200		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Bromomethane	ND		5.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Chloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Trichlorofluoromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Carbon disulfide	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Methylene chloride	ND		10.0		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Acetone	ND		25.0		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1-Dichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
2,2-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Bromochloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Chloroform	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Carbon tetrachloride	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
2-Butanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Benzene	ND		0.200		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Trichloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Dibromomethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Bromodichloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Toluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Tetrachloroethene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Dibromochloromethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,3-Dichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2-Dibromoethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
2-Hexanone	ND		10.0		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Ethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Chlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
m,p-Xylene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
o-Xylene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Styrene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Bromoform	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Isopropylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
n-Propylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Bromobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 1110178-BLK1  
Matrix: Water  
Analysis Batch: 1110178

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 1110178\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorotoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
4-Chlorotoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
tert-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
sec-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
p-Isopropyltoluene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
n-Butylbenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Hexachlorobutadiene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
Naphthalene	ND		2.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		09/22/11 14:57	09/22/11 15:41	1.00

Surrogate	Blank	Blank	Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Dibromofluoromethane	85.0		66.5 - 145	09/22/11 14:57	09/22/11 15:41	1.00
Toluene-d8	91.6		75.4 - 120	09/22/11 14:57	09/22/11 15:41	1.00
4-bromofluorobenzene	87.8		68.4 - 123	09/22/11 14:57	09/22/11 15:41	1.00

Lab Sample ID: 1110178-BS1  
Matrix: Water  
Analysis Batch: 1110178

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 1110178\_P

Analyte	Spike Added	LCS	LCS	Unit	D	% Rec	Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	9.89		ug/l		98.9	60.4 - 140
Benzene	10.0	10.0		ug/l		100	72.9 - 120
Trichloroethene	10.0	10.3		ug/l		103	73.7 - 120
Toluene	10.0	11.3		ug/l		113	72.4 - 132
Chlorobenzene	10.0	10.8		ug/l		108	80 - 120

Surrogate	LCS	LCS	Limits
	% Recovery	Qualifier	
Dibromofluoromethane	83.8		66.5 - 145
Toluene-d8	90.6		75.4 - 120
4-bromofluorobenzene	85.6		68.4 - 123

Lab Sample ID: 1110178-MS1  
Matrix: Water  
Analysis Batch: 1110178

Client Sample ID: MW-5  
Prep Type: Total  
Prep Batch: 1110178\_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1-Dichloroethene	ND		10.0	9.90		ug/l		99.0	52.5 - 135
Benzene	ND		10.0	9.58		ug/l		95.8	72.3 - 120
Trichloroethene	6.67		10.0	17.0		ug/l		103	80 - 120
Toluene	0.400		10.0	11.6		ug/l		112	62.7 - 137
Chlorobenzene	ND		10.0	10.2		ug/l		102	78.9 - 120

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 1110178-MS1  
Matrix: Water  
Analysis Batch: 1110178

Client Sample ID: MW-5  
Prep Type: Total  
Prep Batch: 1110178\_P

Surrogate	Matrix Spike		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	79.0		66.5 - 145
Toluene-d8	91.6		75.4 - 120
4-bromofluorobenzene	86.4		68.4 - 123

Lab Sample ID: 1110178-MSD1  
Matrix: Water  
Analysis Batch: 1110178

Client Sample ID: MW-5  
Prep Type: Total  
Prep Batch: 1110178\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	% Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
1,1-Dichloroethene	ND		10.0	9.83			98.3	52.5 - 135	0.710	10.5
Benzene	ND		10.0	9.67			96.7	72.3 - 120	0.935	10.7
Trichloroethene	6.67		10.0	16.8			101	80 - 120	1.36	10
Toluene	0.400		10.0	11.2			108	62.7 - 137	4.21	13
Chlorobenzene	ND		10.0	10.3			103	78.9 - 120	1.27	11.2

Surrogate	Matrix Spike Dup		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	87.0		66.5 - 145
Toluene-d8	89.2		75.4 - 120
4-bromofluorobenzene	90.0		68.4 - 123

# Certification Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Spokane	Alaska	Alaska UST	10	UST-071
TestAmerica Spokane	Washington	State Program	10	C569

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



# Method Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUI0154

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Method	Method Description	Protocol	Laboratory
EPA 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL SPK

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**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244  
 425-420-9200 FAX 420-9210  
 11922 E. First Ave, Spokane, WA 99206-5302  
 509-924-9200 FAX 924-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145  
 503-906-9200 FAX 906-9210  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **SU1054**

CLIENT: <b>VRS Corp</b>		INVOICE TO: <b>VRS Corp</b>		TURNAROUND REQUEST	
REPORT TO: <b>Jeff Leppo</b>		ADDRESS: <b>46 Margaret PkH</b>		in Business Days *	
PHONE: <b>928-4491</b>		P.O. NUMBER:		<input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
PROJECT NAME: <b>SCRIP</b>		PRESERVATIVE		<input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
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**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SUTR154</u>		Client: <u>URS</u>		Project: <u>SCR P</u>	
Date/Time Received: <u>9-21-11 16:50</u>		By: <u>CS</u>			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other: _____					
List Air Bill Number(s) or Attach a photocopy of the Air Bill:					
Receipt Phase	Yes	No	NA	Comments	
Were samples received in a cooler:	<u>X</u>				
Custody Seals are present and intact:		<u>X</u>			
Are CoC documents present:	<u>X</u>				
Necessary signatures:	<u>X</u>				
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____					
Temperature by IR Gun: <u>4.6</u> °C Thermometer Serial #81500 (acceptance criteria 0-6 °C)					
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____					
Log-in Phase	Yes	No	NA	Comments	
Date/Time: <u>9-21-11 16:50</u> By: <u>CS</u>					
Are sample labels affixed and completed for each container	<u>X</u>				
Samples containers were received intact:	<u>X</u>				
Do sample IDs match the CoC	<u>X</u>				
Appropriate sample containers were received for tests requested	<u>X</u>				
Are sample volumes adequate for tests requested	<u>X</u>				
Appropriate preservatives were used for the tests requested	<u>X</u>				
pH of inorganic samples checked and is within method specification	<u>X</u>				
Are VOC samples free of bubbles >6mm (1/4" diameter)	<u>X</u>				
Are dissolved parameters field filtered			<u>R</u>		
Do any samples need to be filtered or preserved by the lab			<u>R</u>		
Does this project require quick turnaround analysis			<u>R</u>		
Are there any short hold time tests (see chart below)			<u>R</u>		
Are any samples within 2 days of or past expiration		<u>X</u>			
Was the CoC scanned	<u>X</u>				
Were there Non-conformance issues at login		<u>X</u>			
If yes, was a CAR generated #			<u>R</u>		

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SUJ0090  
Client Project/Site: 36310095  
Client Project Description: Spokane County Raceway

For:  
URS Corp.  
920 N. Argonne Road Suite 300  
Spokane, WA 99212

Attn: Jeff Leppo



Authorized for release by:  
10/14/2011 01:09:24 PM

Randee Decker  
Project Manager  
Randee.Decker@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

 **Ask  
The  
Expert**

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)



*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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# Sample Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SUJ0090-01	MW-6	Water	10/12/11 11:50	10/12/11 14:30

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## Definitions/Glossary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

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### Qualifiers

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#### GCMS Volatiles

Qualifier	Qualifier Description
A-01	Internal Standard recovery was below method limits. A high bias to the analyte result is indicated.

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### Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

Client Sample ID: MW-6

Lab Sample ID: SUJ0090-01

Date Collected: 10/12/11 11:50

Matrix: Water

Date Received: 10/12/11 14:30

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Chloromethane	ND		3.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Vinyl chloride	ND		0.200		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Bromomethane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Chloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Carbon disulfide	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Methylene chloride	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Acetone	ND		25.0		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Bromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Chloroform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
2-Butanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Benzene	ND		0.200		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Trichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Dibromomethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Bromodichloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Toluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Tetrachloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Dibromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
2-Hexanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Ethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Chlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
m,p-Xylene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
o-Xylene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Styrene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Bromoform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Isopropylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
n-Propylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Bromobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
2-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00



# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

Client Sample ID: MW-6  
Date Collected: 10/12/11 11:50  
Date Received: 10/12/11 14:30

Lab Sample ID: SUJ0090-01  
Matrix: Water

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
n-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
Naphthalene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 17:34	1.00
<b>Surrogate</b>	<b>% Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	107		66.5 - 145				10/13/11 08:42	10/13/11 17:34	1.00
Toluene-d8	86.0		75.4 - 120				10/13/11 08:42	10/13/11 17:34	1.00
4-bromofluorobenzene	110		68.4 - 123				10/13/11 08:42	10/13/11 17:34	1.00

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11J0129-BLK1

Matrix: Water

Analysis Batch: 11J0129

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11J0129\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chloromethane	ND		3.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Vinyl chloride	ND		0.200		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromomethane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Trichlorofluoromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Carbon disulfide	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Methylene chloride	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Acetone	ND		25.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1-Dichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
2,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chloroform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Carbon tetrachloride	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
2-Butanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Benzene	ND		0.200		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Trichloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Dibromomethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromodichloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Toluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Tetrachloroethene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Dibromochloromethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,3-Dichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dibromoethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
2-Hexanone	ND		10.0		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Ethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Chlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
m,p-Xylene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
o-Xylene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Styrene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromoform	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Isopropylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
n-Propylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Bromobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00

## QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

### Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J0129-BLK1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Method Blank  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
4-Chlorotoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
tert-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
sec-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
p-Isopropyltoluene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
n-Butylbenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Hexachlorobutadiene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Naphthalene	ND		2.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		10/13/11 08:42	10/13/11 16:08	1.00
Surrogate	Blank	Blank	Limits		Unit	D	Prepared	Analyzed	Dil Fac
% Recovery	Qualifier								
Dibromofluoromethane	99.8		66.5 - 145				10/13/11 08:42	10/13/11 16:08	1.00
Toluene-d8	82.4		75.4 - 120				10/13/11 08:42	10/13/11 16:08	1.00
4-bromofluorobenzene	92.2		68.4 - 123				10/13/11 08:42	10/13/11 16:08	1.00

Lab Sample ID: 11J0129-BS1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: Lab Control Sample  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec.	
							Limits	
1,1-Dichloroethene	10.0	11.6		ug/l		116	60.4 - 140	
Benzene	10.0	11.0		ug/l		110	72.9 - 120	
Trichloroethene	10.0	10.9		ug/l		109	73.7 - 120	
Toluene	10.0	10.9		ug/l		109	72.4 - 132	
Chlorobenzene	10.0	10.4		ug/l		104	80 - 120	
Surrogate	LCS	LCS	Limits		Unit	D	% Rec	Limits
% Recovery	Qualifier							
Dibromofluoromethane	91.4		66.5 - 145					
Toluene-d8	81.4		75.4 - 120					
4-bromofluorobenzene	93.2		68.4 - 123					

Lab Sample ID: 11J0129-MS1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: MW-6  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	% Rec	% Rec.	
									Limits	
1,1-Dichloroethene	ND		10.0	12.6		ug/l		126	52.5 - 135	
Benzene	ND		10.0	11.8		ug/l		118	72.3 - 120	
Trichloroethene	ND		10.0	11.5		ug/l		115	80 - 120	
Toluene	0.470		10.0	11.5		ug/l		110	62.7 - 137	
Chlorobenzene	ND		10.0	10.6		ug/l		106	78.9 - 120	

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11J0129-MS1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: MW-6  
Prep Type: Total  
Prep Batch: 11J0129\_P

Surrogate	Matrix Spike		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	104		66.5 - 145
Toluene-d8	84.4		75.4 - 120
4-bromofluorobenzene	111		68.4 - 123

Lab Sample ID: 11J0129-MSD1  
Matrix: Water  
Analysis Batch: 11J0129

Client Sample ID: MW-6  
Prep Type: Total  
Prep Batch: 11J0129\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	% Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
1,1-Dichloroethene	ND		10.0	13.2	A-01		132	52.5 - 135	4.97	10.5
Benzene	ND		10.0	12.0			120	72.3 - 120	2.02	10.7
Trichloroethene	ND		10.0	11.8			118	80 - 120	2.75	10
Toluene	0.470		10.0	11.8			114	62.7 - 137	3.00	13
Chlorobenzene	ND		10.0	11.0			110	78.9 - 120	3.43	11.2

Surrogate	Matrix Spike Dup		Limits
	% Recovery	Qualifier	
Dibromofluoromethane	106	A-01	66.5 - 145
Toluene-d8	80.8		75.4 - 120
4-bromofluorobenzene	99.2		68.4 - 123

# Certification Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Spokane	Alaska	Alaska UST	10	UST-071
TestAmerica Spokane	Washington	State Program	10	C569

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



# Method Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUJ0090

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<u>Method</u>	<u>Method Description</u>	<u>Protocol</u>	<u>Laboratory</u>
EPA 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL SPK

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**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

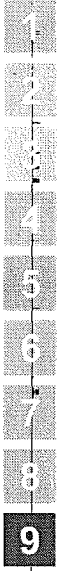




**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>5050090</u>	Client: <u>URS</u>	Project: <u>Spokane County Raceway</u>		
Date/Time Received: <u>10-12-11 14:30</u>	By: <u>CS</u>			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:		<input checked="" type="checkbox"/>		
Custody Seals are present and intact:		<input checked="" type="checkbox"/>		
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature by IR Gun: <u>9.4</u> °C Thermometer Serial #81500 (acceptance criteria 0-6 °C)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Login Phase	Yes	No	NA	Comments
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)	<input checked="" type="checkbox"/>			
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab			<input checked="" type="checkbox"/>	
Does this project require quick turnaround analysis	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<u>3 days</u>
Are there any short hold time tests (see chart below)		<input checked="" type="checkbox"/>		
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep





**APPENDIX E**

**LABORATORY REPORTS – GROUNDWATER (NOVEMBER 2011)**





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Spokane  
11922 East 1st. Avenue  
Spokane, WA 99206  
Tel: (509)924-9200

TestAmerica Job ID: SUK0128  
Client Project/Site: 36310095  
Client Project Description: Spokane County Raceway

For:  
URS Corp.  
920 N. Argonne Road Suite 300  
Spokane, WA 99212

Attn: Jeff Leppo



Authorized for release by:  
11/30/2011 11:24:19 AM

Randee Decker  
Project Manager  
Randee.Decker@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?

 **Ask  
The  
Expert**

Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Sample Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SUK0128-01	MW-4	Water	11/22/11 10:10	11/22/11 15:00
SUK0128-02	MW-5	Water	11/22/11 11:15	11/22/11 15:00
SUK0128-03	MW-6	Water	11/22/11 12:50	11/22/11 15:00
SUK0128-04	MW-D	Water	11/22/11 00:00	11/22/11 15:00



## Definitions/Glossary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

### Glossary

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

Client Sample ID: MW-4

Lab Sample ID: SUK0128-01

Date Collected: 11/22/11 10:10

Matrix: Water

Date Received: 11/22/11 15:00

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Chloromethane	ND		3.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Vinyl chloride	ND		0.200		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Bromomethane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Chloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Trichlorofluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Carbon disulfide	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Methylene chloride	ND		10.0		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Acetone	ND		25.0		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1-Dichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
2,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Bromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Chloroform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Carbon tetrachloride	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
2-Butanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Benzene	ND		0.200		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
<b>Trichloroethene</b>	<b>8.52</b>		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Dibromomethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Bromodichloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Toluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Tetrachloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Dibromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,3-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2-Dibromoethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
2-Hexanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Ethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Chlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
m,p-Xylene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
o-Xylene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Styrene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Bromoform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Isopropylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
n-Propylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Bromobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
2-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00



# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

**Client Sample ID: MW-4**  
Date Collected: 11/22/11 10:10  
Date Received: 11/22/11 15:00

**Lab Sample ID: SUK0128-01**  
Matrix: Water

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
4-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
tert-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
sec-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
p-Isopropyltoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
n-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Hexachlorobutadiene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
Naphthalene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 12:54	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	87.6		66.5 - 145				11/29/11 08:32	11/29/11 12:54	1.00
Toluene-d8	93.2		75.4 - 120				11/29/11 08:32	11/29/11 12:54	1.00
4-bromofluorobenzene	115		68.4 - 123				11/29/11 08:32	11/29/11 12:54	1.00

**Client Sample ID: MW-5**  
Date Collected: 11/22/11 11:15  
Date Received: 11/22/11 15:00

**Lab Sample ID: SUK0128-02**  
Matrix: Water

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Chloromethane	ND		3.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Vinyl chloride	ND		0.200		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Bromomethane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Chloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Trichlorofluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Carbon disulfide	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Methylene chloride	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Acetone	ND		25.0		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1-Dichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
2,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Bromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Chloroform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Carbon tetrachloride	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
2-Butanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Benzene	ND		0.200		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

**Client Sample ID: MW-5**  
Date Collected: 11/22/11 11:15  
Date Received: 11/22/11 15:00

**Lab Sample ID: SUK0128-02**  
Matrix: Water

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	8.55		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Dibromomethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Bromodichloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Toluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Tetrachloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Dibromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,3-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2-Dibromoethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
2-Hexanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Ethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Chlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
m,p-Xylene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
o-Xylene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Styrene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Bromoform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Isopropylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
n-Propylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Bromobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
2-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
4-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
tert-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
sec-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
p-Isopropyltoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
n-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Hexachlorobutadiene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
Naphthalene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:22	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	86.6		66.5 - 145				11/29/11 08:32	11/29/11 13:22	1.00
Toluene-d8	94.4		75.4 - 120				11/29/11 08:32	11/29/11 13:22	1.00
4-bromofluorobenzene	98.8		68.4 - 123				11/29/11 08:32	11/29/11 13:22	1.00

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

Client Sample ID: MW-6

Lab Sample ID: SUK0128-03

Date Collected: 11/22/11 12:50

Matrix: Water

Date Received: 11/22/11 15:00

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Chloromethane	ND		3.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Vinyl chloride	ND		0.200		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Bromomethane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Chloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Trichlorofluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Carbon disulfide	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Methylene chloride	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Acetone	ND		25.0		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1-Dichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
2,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Bromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Chloroform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Carbon tetrachloride	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
2-Butanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Benzene	ND		0.200		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Trichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Dibromomethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Bromodichloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Toluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Tetrachloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Dibromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,3-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2-Dibromoethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
2-Hexanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Ethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Chlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
m,p-Xylene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
o-Xylene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Styrene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Bromoform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Isopropylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
n-Propylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Bromobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
2-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

**Client Sample ID: MW-6**

**Lab Sample ID: SUK0128-03**

Date Collected: 11/22/11 12:50

Matrix: Water

Date Received: 11/22/11 15:00

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
4-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
tert-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
sec-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
p-Isopropyltoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
n-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Hexachlorobutadiene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
Naphthalene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 13:50	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	92.0		66.5 - 145				11/29/11 08:32	11/29/11 13:50	1.00
Toluene-d8	94.2		75.4 - 120				11/29/11 08:32	11/29/11 13:50	1.00
4-bromofluorobenzene	89.0		68.4 - 123				11/29/11 08:32	11/29/11 13:50	1.00

**Client Sample ID: MW-D**

**Lab Sample ID: SUK0128-04**

Date Collected: 11/22/11 00:00

Matrix: Water

Date Received: 11/22/11 15:00

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Chloromethane	ND		3.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Vinyl chloride	ND		0.200		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Bromomethane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Chloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Trichlorofluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Carbon disulfide	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Methylene chloride	ND		10.0		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Acetone	ND		25.0		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1-Dichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
2,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Bromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Chloroform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Carbon tetrachloride	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
2-Butanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Benzene	ND		0.200		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00

# Client Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SÜK0128

Client Sample ID: MW-D

Lab Sample ID: SÜK0128-04

Date Collected: 11/22/11 00:00

Matrix: Water

Date Received: 11/22/11 15:00

**Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	11.0		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Dibromomethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Bromodichloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Toluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Tetrachloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Dibromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,3-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2-Dibromoethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
2-Hexanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Ethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Chlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
m,p-Xylene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
o-Xylene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Styrene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Bromoform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Isopropylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
n-Propylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Bromobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
2-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
4-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
tert-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
sec-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
p-Isopropyltoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
n-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Hexachlorobutadiene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
Naphthalene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 14:18	1.00
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Dibromofluoromethane	86.2		66.5 - 145				11/29/11 08:32	11/29/11 14:18	1.00
Toluene-d8	94.6		75.4 - 120				11/29/11 08:32	11/29/11 14:18	1.00
4-bromofluorobenzene	89.2		68.4 - 123				11/29/11 08:32	11/29/11 14:18	1.00

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B

Lab Sample ID: 11K0148-BLK1

Matrix: Water

Analysis Batch: 11K0148

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11K0148\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Chloromethane	ND		3.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Vinyl chloride	ND		0.200		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Bromomethane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Chloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Trichlorofluoromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Carbon disulfide	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Methylene chloride	ND		10.0		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Acetone	ND		25.0		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
trans-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Methyl tert-butyl ether	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1-Dichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
cis-1,2-Dichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
2,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Bromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Chloroform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Carbon tetrachloride	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1,1-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
2-Butanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Benzene	ND		0.200		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2-Dichloroethane (EDC)	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Trichloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Dibromomethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Bromodichloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
cis-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Toluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
4-Methyl-2-pentanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
trans-1,3-Dichloropropene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Tetrachloroethene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1,2-Trichloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Dibromochloromethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,3-Dichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2-Dibromoethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
2-Hexanone	ND		10.0		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Ethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Chlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1,1,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
m,p-Xylene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
o-Xylene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Styrene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Bromoform	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Isopropylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
n-Propylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,1,2,2-Tetrachloroethane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Bromobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,3,5-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00

## QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

### Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11K0148-BLK1

Matrix: Water

Analysis Batch: 11K0148

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11K0148\_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2,3-Trichloropropane	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
4-Chlorotoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
tert-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2,4-Trimethylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
sec-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
p-Isopropyltoluene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,3-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,4-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
n-Butylbenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2-Dichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2-Dibromo-3-chloropropane	ND		5.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Hexachlorobutadiene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2,4-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
Naphthalene	ND		2.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00
1,2,3-Trichlorobenzene	ND		1.00		ug/l		11/29/11 08:32	11/29/11 10:34	1.00

Surrogate	Blank %Recovery	Blank Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	84.4		66.5 - 145	11/29/11 08:32	11/29/11 10:34	1.00
Toluene-d8	95.0		75.4 - 120	11/29/11 08:32	11/29/11 10:34	1.00
4-bromofluorobenzene	88.6		68.4 - 123	11/29/11 08:32	11/29/11 10:34	1.00

Lab Sample ID: 11K0148-BS1

Matrix: Water

Analysis Batch: 11K0148

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 11K0148\_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	10.0	8.66		ug/l		86.6	60.4 - 140
Benzene	10.0	8.46		ug/l		84.6	72.9 - 120
Trichloroethene	10.0	10.1		ug/l		101	73.7 - 120
Toluene	10.0	10.7		ug/l		107	72.4 - 132
Chlorobenzene	10.0	9.85		ug/l		98.5	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	78.8		66.5 - 145
Toluene-d8	97.6		75.4 - 120
4-bromofluorobenzene	92.4		68.4 - 123

Lab Sample ID: 11K0148-MS1

Matrix: Water

Analysis Batch: 11K0148

Client Sample ID: MW-D

Prep Type: Total

Prep Batch: 11K0148\_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	ND		10.0	9.33		ug/l		93.3	52.5 - 135
Benzene	ND		10.0	9.07		ug/l		90.7	72.3 - 120
Trichloroethene	11.0		10.0	19.8		ug/l		88.9	80 - 120
Toluene	ND		10.0	11.3		ug/l		113	62.7 - 137
Chlorobenzene	ND		10.0	10.4		ug/l		104	78.9 - 120

# QC Sample Results

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

## Method: EPA 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11K0148-MS1  
Matrix: Water  
Analysis Batch: 11K0148

Client Sample ID: MW-D  
Prep Type: Total  
Prep Batch: 11K0148\_P

Surrogate	Matrix Spike	Matrix Spike	Limits
	%Recovery	Qualifier	
Dibromofluoromethane	85.2		66.5 - 145
Toluene-d8	93.8		75.4 - 120
4-bromofluorobenzene	90.4		68.4 - 123

Lab Sample ID: 11K0148-MSD1  
Matrix: Water  
Analysis Batch: 11K0148

Client Sample ID: MW-D  
Prep Type: Total  
Prep Batch: 11K0148\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier					
1,1-Dichloroethene	ND		10.0	9.45			94.5	52.5 - 135	1.28	10.5
Benzene	ND		10.0	9.54			95.4	72.3 - 120	5.05	10.7
Trichloroethene	11.0		10.0	20.1			91.7	80 - 120	1.40	10
Toluene	ND		10.0	11.3			113	62.7 - 137	0.619	13
Chlorobenzene	ND		10.0	10.8			108	78.9 - 120	3.76	11.2

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	%Recovery	Qualifier	
Dibromofluoromethane	91.4		66.5 - 145
Toluene-d8	91.0		75.4 - 120
4-bromofluorobenzene	87.8		68.4 - 123



# Certification Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

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Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Spokane	Alaska	Alaska UST	10	UST-071
TestAmerica Spokane	Washington	State Program	10	C569

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Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



# Method Summary

Client: URS Corp.  
Project/Site: 36310095

TestAmerica Job ID: SUK0128

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Method	Method Description	Protocol	Laboratory
EPA 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL SPK

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**Protocol References:**

**Laboratory References:**

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244  
 425-420-9200 FAX 420-9210  
 11922 E. First Ave, Spokane, WA 99206-5302  
 509-924-9200 FAX 924-9290  
 9405 SW Nimbus Ave, Beaverton, OR 97008-7145  
 503-906-9200 FAX 906-9210  
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119  
 907-563-9200 FAX 563-9210

## CHAIN OF CUSTODY REPORT

Work Order #: **SU0128**

CLIENT: <b>VFS</b>		INVOICE TO: <b>VFS Corp</b>		TURNAROUND REQUEST			
REPORT TO: <b>JEFF WELPO</b>		ADDRESS:		in Business Days*			
PHONE: <b>928-4413</b>		FAX:		<input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
PROJECT NAME: <b>SCRIP</b>		P.O. NUMBER:		Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses			
PROJECT NUMBER: <b>3631009S</b>		PRESERVATIVE		<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
SAMPLED BY: <b>JL/GP</b>		REQUESTED ANALYSES		OTHER Specify:			
				* Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PS	MS	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/OID
MW-4	11-22-11 10:10	X		W	2		
MW-5	11-22-11 11:18	X		W	2		
MW-6	11-22-11 12:50	X		W	2		
MW-D	11-22-11 -	X		W	2		
5							
6							
7							
8							
9							
10							
RELEASED BY: <i>[Signature]</i>		DATE: 11-22-11		RECEIVED BY: <i>[Signature]</i>		DATE: 11-22-11	
PRINT NAME: <b>Greg P. Rasmussen</b>		FIRM: <b>VFS Corp</b>		PRINT NAME: <b>Job Staphorn</b>		FIRM: <b>TestAmerica</b>	
RELEASED BY:		DATE: 15:00		RECEIVED BY:		DATE: 15:00	
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:	
RELEASED BY:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:	
ADDITIONAL REMARKS:		11-30-11		Thank you, Site Low-Level Detection.		PAGE 1 OF 1	

**TestAmerica Spokane  
Sample Receipt Form**

Work Order #: <u>SUK028</u>	Client: <u>URS</u>	Project: <u>SCRIP</u>		
Date/Time Received: <u>11-22-11 15:00</u>		By: <u>CS</u>		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:		X		
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature by IR Gun: <u>12.3</u> °C Thermometer Serial #81500 (acceptance criteria 0-6 °C)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Log-In Phase	Yes	No	NA	Comments
Date/Time: <u>11-22-11 15:00</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)	X			
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis			X	
Are there any short hold time tests (see chart below)		X		
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep



