

**RELEASE CHARACTERIZATION  
AND INTERIM REMEDIAL ACTION  
WORKPLAN  
OXY CASCADE CANYON  
#697-09-61 WELL PAD**

January 14, 2009

**WALSH Project Number:** 7830-161



---

Environmental Scientists and Engineers, LLC



Environmental Scientists and Engineers, LLC


# **RELEASE CHARACTERIZATION AND INTERIM REMEDIAL ACTION WORKPLAN OXY CASCADE CANYON #697-09-61 WELL PAD**

January 14, 2009

Prepared for:

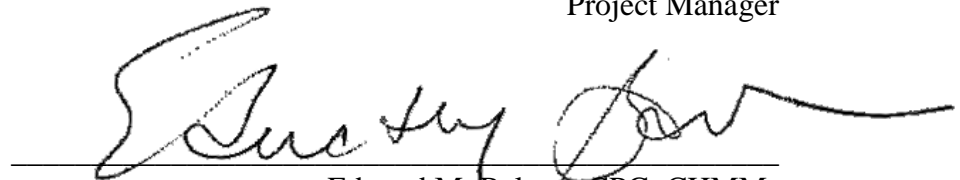
**OXY USA WTP LP**  
760 Horizon Drive  
Suite 101  
Grand Junction, CO 81506

Prepared by:



\_\_\_\_\_  
Brian W. Andersen, PG  
Project Manager

Reviewed by:



\_\_\_\_\_  
Edward M. Baltzer, CPG, CHMM  
Grand Junction District Manager

*Submitted by*  
**WALSH ENVIRONMENTAL SCIENTISTS AND ENGINEERS, LLC**  
535 Grand Avenue  
Grand Junction, CO 81501-2790  
(970) 241-4636

WALSH Project Number: 7830-161

## TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION.....</b>	<b>1</b>
1.1	OBJECTIVES .....	1
1.2	WORKPLAN CONTENTS .....	1
<b>2</b>	<b>RELEASE HISTORY .....</b>	<b>2</b>
2.1	INITIAL RESPONSE .....	2
2.1.1	<i>Excavation of Former Reserve Pit.....</i>	<i>3</i>
2.2	SENSITIVE AREA DETERMINATION .....	3
<b>3</b>	<b>SITE PHYSICAL CHARACTERISTICS.....</b>	<b>3</b>
3.1	REGIONAL GEOLOGY .....	4
3.2	SITE GEOLOGY .....	4
3.3	SITE SOIL .....	4
3.4	SITE HYDROLOGY .....	5
3.4.1	<i>Site Groundwater Flow Rates.....</i>	<i>5</i>
3.4.2	<i>Site Hydrocarbon Transport Rates.....</i>	<i>6</i>
<b>4</b>	<b>REMEDIAL INVESTIGATION ACTIVITIES .....</b>	<b>7</b>
4.1	SOIL CHARACTERIZATION.....	7
4.2	WATER CHARACTERIZATION .....	7
4.2.1	<i>Water Quality Sampling.....</i>	<i>8</i>
4.3	GROUNDWATER MONITORING AND PUMPING .....	10
4.4	NORTH TRENCH IMPOUNDMENTS .....	10
4.5	DAM 1 .....	10
4.6	SOUTH TRENCH IMPOUNDMENTS .....	11
4.7	DAM 2.....	11
4.8	DOWNSTREAM POINT OF COMPLIANCE.....	11
<b>5</b>	<b>PROPOSED INTERIM REMEDIES .....</b>	<b>11</b>
5.1	MONITORED NATURAL ATTENUATION WITH PUMPING.....	12
5.2	NO ACTION .....	12
5.3	GROUNDWATER REMEDIATION WITH ENHANCED MONITORED NATURAL ATTENUATION . .....	12
5.3.1	<i>In-Situ Chemical Oxidation (ISCO).....</i>	<i>12</i>
5.3.2	<i>Enhanced Bioremediation.....</i>	<i>13</i>
<b>6</b>	<b>RECOMMENDED CORRECTIVE ACTIONS .....</b>	<b>13</b>
6.1	SOIL SAMPLING.....	13
6.2	WATER MONITORING.....	13
6.2.1	<i>Water Quality Parameters .....</i>	<i>13</i>
6.2.2	<i>Monitoring of Water Levels, and Removal of Water from Impoundments .....</i>	<i>14</i>
6.3	IMPLEMENT SELECTED INTERIM REMEDY .....	14
6.3.1	<i>Prepare impoundments for use .....</i>	<i>14</i>
6.3.2	<i>Maintain Impoundments .....</i>	<i>14</i>

6.3.3	<i>In-Situ Chemical Oxidation</i> .....	14
7	<b>CONCLUSIONS</b> .....	15
8	<b>REFERENCES</b> .....	16

## **LIST OF APPENDICES**

APPENDIX A – FIGURES, TABLES, AND GRAPHS

APPENDIX B – LABORATORY ANALYTICAL DATA

## ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
bbl	barrels (42 gallons)
bblw	barrels water
bblw/day	barrels water per day
BTEX	benzene, toluene, ethylbenzene, xylene
CDPHE	Colorado Department of Public Health and Environment
COGCC	Colorado Oil and Gas Conservation Commission
cm/s	centimeters per second
DO	dissolved oxygen
$f_{oc}$	organic carbon fraction
ft/day	feet per day
ft/ft	feet per feet
$i$	groundwater gradient
ISCO	in-situ chemical oxidation
$K_d$	distribution coefficient
$K_s$	saturated hydraulic conductivity
$K_{oc}$	soil sorption coefficient
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MNA	monitored natural attenuation
$\mu\text{g/L}$	micrograms per liter
ORC <sup>®</sup>	proprietary oxygen releasing compound from Regenesi
ORP	oxidation reduction potential ( $e^{-1}\text{H}$ )
OXY	OXY USA WTP LP
PAH	polynuclear aromatic hydrocarbon
PID	photoionization Detector
ppm	parts per million
$\phi$	aquifer porosity ( $\phi$ )
$\rho$	bulk density ( $\rho$ )
$R$	retardation factor
RegenOx <sup>®</sup>	proprietary chemical oxidizer from Regenesi
RL	reporting limit
Site	vicinity of the Latham Cabin area
SVOC	semi-volatile organic compound
TDS	total dissolved solids
TVH	total volatile hydrocarbons
USDA	United States Department of Agriculture
$v$	groundwater velocity
VOC	volatile organic compounds
well pad	Cascade Canyon #697-09-61 Pad

## EXECUTIVE SUMMARY

This Release Characterization and Interim Remedial Action Workplan was prepared by Walsh Environmental Scientists & Engineers, LLC, on behalf of OXY USA WTP LP (OXY) in response to a release of produced water and condensate from the former reserve pit located at OXY's Cascade Canyon #697-09-61 well pad. The well pad is located in Section 9, Township 6 South, Range 97 West of the 6<sup>th</sup> Principal Meridian, Garfield County, Colorado. The well pad is situated east of an unnamed creek, and the release has extended to the drainage near a rancher's cabin located along the unnamed creek. The well pad, ranchers cabin, and the area upon which the release occurred and surfaced are located on property owned by OXY.

OXY has completed an initial assessment of the conditions at the site, and is implementing the following corrective actions and additional characterization activities:

- Surface water and groundwater will be monitored for petroleum hydrocarbons; benzene, toluene, ethylbenzene, and xylene (BTEX) and total volatile hydrocarbons (TVH) until all contaminants of concern are below maximum contaminant levels (MCL) for a one-year period.
- The concentration of selected metals in surface and groundwater at the site will be monitored. The concentrations of metals will be used to assess whether any exceedances of water quality standards may have occurred as a result of the release, and whether conditions are suitable for bioremediation. Water samples will be collected from within, and outside of, the hydrocarbon plume.
- Water levels in surface impoundments that were created to intercept contaminants will be monitored, and water will be removed to storage and treatment vessels as necessary to prevent migration of contaminants, as needed.
- The chemical and biological oxygen demand of groundwater and surface water will be determined, to assess the suitability and efficacy of remediation measures.
- The temperature, pH, specific conductivity, dissolved oxygen, and oxidation-reduction potential of surface water and groundwater will be monitored during sampling events to evaluate the efficacy of remedial actions.
- In-situ chemical oxidation of groundwater has been initiated.

# **RELEASE CHARACTERIZATION AND INTERIM REMEDIAL ACTION WORKPLAN OXY CASCADE CANYON #697-09-61 WELL PAD**

## **1 INTRODUCTION**

This Release Characterization and Interim Remedial Action Workplan was prepared by Walsh Environmental Scientists & Engineers, LLC, on behalf of OXY USA WTP LP (OXY) in response to a release of produced water and condensate from the former reserve pit located at OXY's Cascade Canyon #697-09-61 well pad. The well pad is located in Section 9, Township 6 South, Range 97 West of the 6<sup>th</sup> Principal Meridian, Garfield County, Colorado. Please refer to Figure 1, Appendix A. The well pad is situated east of an unnamed creek, and the release has extended to a rancher's cabin located along the unnamed creek. The 697-09-61 well pad release location (site) includes the former reserve pit, the seepages in the unnamed creek, and surrounding areas. The well pad, ranchers cabin, and the area upon which the release occurred and surfaced are located on property owned by OXY.

This workplan is an addendum to Colorado Oil and Gas Conservation Commission (COGCC) Form 27.

### **1.1 Objectives**

The objectives of this workplan are:

- Describe the characteristics of the site, the release, and the remedial activities OXY has conducted; and,
- Present proposed Interim Remedial Actions to be taken to further reduce contaminant migration and potential exposure to human or ecological receptors.

### **1.2 Workplan Contents**

This workplan is divided into the following Sections:

- **Section 1** Introduction.
- **Section 2** describes the release history and initial response activities, and includes the findings of the Sensitive Area Determination according to COGCC requirements.
- **Section 3** provides a description of the physical characteristics of the site, and includes the findings of an initial hydrological study of the site.
- **Section 4** describes the remedial investigation activities, including the results of water sampling events, and tracer dye testing.
- **Section 5** describes proposed interim remedies that were considered for the site.
- **Section 6** summarizes the recommended remedial investigation and Interim Remedial Actions planned for the site.

- **Section 7** Conclusions.
- **Appendix A** presents site figures, tabulated analytical data, time series graphs for selected sampling locations, and fluorometry data.
- **Appendix B** presents laboratory analytical data.

## 2 RELEASE HISTORY

The release was discovered during routine operational activities and in conjunction with grazing lessee on June 16, 2008. It is suspected that produced water, condensate, and/or drilling fluids may have been released from the former unlined reserve pit located on the well pad during drilling operations in 2007 and/or production in 2008. Operator records suggest that an estimated 180 barrels (bbl) of condensate and 9,000 bbl of produced water may have entered the ground at the former reserve pit during early 2008. An unknown volume of drilling fluids may have also been released from the former reserve pit during drilling in 2007.

The released materials apparently migrated into groundwater, which flowed toward the unnamed tributary to Cascade Canyon near a rancher's cabin located on property owned by OXY, and eventually surfaced as several hydrocarbon seeps. The seeps in the creek are located down a steep slope approximately 600 feet west of, and 200 feet below the former reserve pit. Seepage of hydrocarbons is predominately limited to two areas of rock outcroppings exposed along the base of the stream bed.

### 2.1 Initial Response

Initial response activities were conducted to intercept the contaminant plume(s), and reduce further migration away from the site. These actions included:

- Placing hydrocarbon sorbent booms into drainages;
- Excavating trenches to intercept groundwater before reaching the seep locations;
- Constructing two dams to detain water from the spring-fed stream;
- Excavation of former unlined reserve pit and replacement with lined reserve pit;
- Pumping water from the water impoundments for treatment prior to re-use;
- Placement of oxygen-releasing compounds at various locations, and,
- Collecting surface water samples on a semi-weekly to monthly basis.

The groundwater flow producing the northern section of seepage was intercepted by the North Trench. Discharge from the north source springs was further isolated from the stream by placement of soils overlain by an impermeable liner. This secondary impoundment was identified as the North Source. The groundwater flow producing the southern section of seepage was intercepted by two trenches: S1 Trench and S2 Trench, respectively (Figure 2).

The natural drainage along the unnamed creek was blocked by the placement of temporary dams at two locations. Stream drainage south of the northern seepage section was captured by Dam 1. Dam 1 ceased collecting water after completion of the north trench, and was abandoned and



reclaimed in October 2008. The stream drainage south of the S2 trench was captured by Dam 2, located approximately  $\frac{1}{3}$  mile below the S2 trench section. A bypass was created at Dam 2 in September 2008 to allow natural flow to resume.

Water and condensate were removed from all of the impoundments (i.e. sources, trenches, dams, etc.) three times daily and pumped into storage vessels prior to re-use for production activities. Refer to Figure 2 in Appendix A for the location of the various features described above.

### **2.1.1 Excavation of Former Reserve Pit**

The former unlined reserve pit at the 697-09-61 well pad was excavated on July 22, 2008. Samples were collected from the base of the pit, and from the bedrock underlying the pit. Analytical results indicated concentrations of petroleum hydrocarbons were above reporting limits (RLs) in both the base of pit and bedrock samples; however, the concentrations in the bedrock were only slightly above RLs, and were below their respective allowable limits. The bedrock sample was submitted for analysis of the regulated target analytes listed in COGCC Table 910-1 (COGCC, 2007). Sample results indicated the specific conductance, sodium absorption ratio, and boron concentration exceeded the allowable limits, indicating a release of produced water. Soil sample data was reported as part of the original NOAV and is included in Appendix B.

## **2.2 Sensitive Area Determination**

The COGCC requires a Sensitive Area Determination in the event of a spill of greater than 20 bbl net loss of waste [901e (4)]. The Sensitive Area Determination decision tree (Figure 901-1 of the COGCC regulations) was used to determine if the release area qualifies as a “sensitive area” as defined in the COGCC 900 series rules (COGCC, 2007). The release has chemistry that exceeds some criteria in box 1. The pit is underlain by a recharge zone for an unconfined aquifer as evidenced by the contaminant release (box 2), and has a hydraulic conductivity that exceeds  $10^{-6}$  centimeters per second (cm/sec; box 3). It is not in an area classified for domestic use by the Colorado Department of Health and Environment (CDPHE) Water Quality Control Commission or a local wellhead protection area (box 4). There are no domestic water wells within  $\frac{1}{8}$  mile or public water supply wells within  $\frac{1}{4}$  mile of the release registered with the Colorado Division of Water Resources; however there is an unregistered domestic water well in the form of a spring that is captured and piped into the rancher’s domestic cabin located on OXY’s property within  $\frac{1}{8}$  mile of the release point (box 5). Although the depth to average high groundwater from the base of the former reserve pit is greater than 20 feet, the release has impacted groundwater as evidenced by the release of petroleum into the intermittent drainage (box 6). The results of box 5 and box 6 of the COGCC decision tree indicate that at this time, the site appears to qualify as a “Sensitive Area.”

## **3 SITE PHYSICAL CHARACTERISTICS**

Research of physical characteristics for the site and surrounding areas was completed to assist in the site characterization process, and provided the basis for the Sensitive Area Determination. The following sections provide physical characteristics and baseline information on the release area.

### **3.1 Regional Geology**

The site is located in the west-central part of Colorado on the Colorado Plateau, southwest of the White River geological uplift. Tertiary basalt flows cover much of the area south of the Colorado River. Land both south and north of the Colorado River contain bedrock of Cenozoic age including the Parachute Creek Member of the Green River Formation, which is an oil shale unit about 900 to 1,200 feet thick in this area. It consists of black, dark-brown, and dark gray, commonly laminated marlstone, which weathers to a light gray. The upper part of the member contains the thickest and richest oil-shale beds. The 2-6 foot thick Mahogany bed is a persistent bed of very rich oil shale within the Mahogany zone, which forms a sheer 80-100 foot thick cliff or ledge of rich oil shale within the upper part of the Parachute Creek Member. Cliffs in the site area are capped by the Parachute Creek Member.

Glacial deposits are widely distributed throughout the upland areas, and alluvium and stream-laid gravel and boulders form a broad belt along the Colorado River and its tributaries [U.S. Department of Agriculture, Soil Conservation Service (USDA, 1988)]. The site is located just west of the Grand Hogback which separates the Colorado Plateau physiographic province from the White River Plateau to the northeast and the Sawatch Range to the southeast (Tweto, 1979). The Colorado Plateau is a relatively stable shelf area with no major mountain building episodes since the late Precambrian. It contains thick sequences of sedimentary rocks ranging in age from the late Paleozoic through the Tertiary period (Press and Siever, 1974). The Colorado Plateau is punctuated with areas of Tertiary volcanic activity expressed by extrusive igneous deposits.

### **3.2 Site Geology**

Bedrock at the site consists of the Tertiary-aged lowermost Uinta Formation (sandstones and siltstones) and/or the upper Parachute Creek Member. The Parachute Creek Member in turn overlies the Tertiary-aged Wasatch and Ohio Creek formations, which outcrop in the lower valleys. These formations consist of siltstone, sandstone, claystone, and conglomerate. Bedrock exposed at the site appears as a gray marlstone or shale, with portions that are massive, fractured, and fissile. The bedrock at the site is partially covered by alluvium and colluvium. This material is likely to be up to ten or more feet thick and will likely contain unconfined groundwater. Colluvium exposed in roadcuts and excavations appears as a thin layer of cobbles in a sandy or loamy soil matrix on hill slopes grading into a thicker layer of fine alluvium near the bases of slopes. Streams in the area frequently have bedrock floors indicating an erosional environment.

### **3.3 Site Soil**

Soil at the site is mapped as the Northwater-Adel Complex, 5-50% slopes in the valley bottom, Parachute-Irigul-Rhone association, 25-50% slopes in the hillside between the pad and the creek, and Parachute-Irigul Complex, 5-30% slopes at the flare pit. The Adel soil (in the drainage) is a deep, well-drained soil formed in colluvium, with dark grayish brown loam to 20 inches over brown clay loam to 31 inches, and brown clay loam to greater than 60 inches depth. The Parachute soil on the slope has 10 inches of grayish brown loam overlying up to 15 inches of very channery loam overlying rippable fractured siltstone. The Rhone soil, near the toe of the slope, is a deep-well-drained soil formed in colluvium derived from sandstone and hard shale. It is very dark grayish brown loam to 10 inches overlying grayish brown channery loam to 39

inches, overlying brown very channery loam to 55 inches overlying rippable, fractured siltstone (USDA, 1988).

### **3.4 Site Hydrology**

Hydrology at the site consists of small intermittent or ephemeral drainages in the higher elevations that coalesce into larger drainages in the valley floors. The study area is on a plateau that is about 9,000 feet above mean sea level (amsl) at its highest points, with the study area between 8,000 and 8,400 feet amsl (Figure 1). A small, unnamed tributary to Cascade Canyon is the predominant hydrology feature at the site. The unnamed creek drains an area of approximately 220 acres above its confluence with a similar drainage to the east. The drainage area above the release is about 170 acres, and the area of the aquifer that is likely to be impacted by the release is about 1.5 acres. Therefore, about 1% of the upper drainage area and less than 1% of the entire tributary drainage area is directly impacted by the release.

#### **3.4.1 Site Groundwater Flow Rates**

This section presents the results of a dye tracer test that was used to estimate how much time it would take water to travel from the lined production pit to the nearby ephemeral stream. Physical characteristics from the site are:

- The former reserve pit is 200 feet in elevation above the nearest seep and the plan-view distance is 600 feet, indicating a linear distance from the former reserve pit to nearest seep of approximately 635 feet.
- The average gradient is approximately 200 feet per 600 feet or 0.333 feet/feet.
- The transport pathway is through alluvium and fractured marlstone, and likely occurs as preferential flow through fractures and weathered bedrock.

Fluorescent dye with fluorescein was mixed with potable water to prepare 80 bbl of 18 parts per million (ppm) solution, which was added to the former reserve pit on June 19, 2008. Another 120 bbl water (bblw) was used to flush the pit after the fluorescent dye solution had percolated into the soil, followed by another 80 bblw used to flush residual dye from the truck used for mixing the tracer solution. Fluorescein was not visible at any of the trench locations.

Fluorescent dye with rhodamine was then mixed with potable water to prepare 120 bbl of 78 ppm solution, which was added to the former reserve pit on July 22, 2008. Another 120 bblw was used to flush the pit after the fluorescent dye solution had percolated into the soil.

A fluorometer capable of detecting parts per billion levels of rhodamine was used to measure concentrations of fluorescein at the seeps, interceptor trenches, and check dams (Dams 1 and 2). Indications of the dye were first detected in the creek area by June 25, 2008 and peak concentrations were measured on June 29, 2008, three to seven days after the injection.

The results of the dye tracer study indicate that the pit is hydraulically connected to the seeps at the stream, and that the travel time is likely between three and seven days (91 to 212 feet per day) under the saturated hydrologic conditions of the dye test.

### 3.4.2 Site Hydrocarbon Transport Rates

The fluid released into the former reserve pit is composed of produced water and gasoline-like hydrocarbons (natural gas condensate). The effect of chemical retardation on hydrocarbons in groundwater is such that dissolved gasoline-like constituents will migrate more slowly within the aquifer owing to their sorption to organic material. The alluvium travel velocity was used for these calculations to get an idea of the minimum travel time (the maximum travel time is infinity because some refined gasoline constituents are essentially immobile in groundwater). The relevant equation for determining the retardation factor ( $R$ ) is:

$$R = 1 + (\rho/\phi)K_d$$

where:  $\rho$  = bulk density ( $2.65 \text{ g/cm}^3 \times (1-\phi)$ )

$K_d$  = the distribution coefficient

$\phi$  = aquifer porosity

and to obtain the distribution coefficient ( $K_d$ )

$$K_d = K_{oc}f_{oc}$$

where:  $K_{oc}$  = the soil sorption coefficient for gasoline components

$f_{oc}$  = the organic carbon fraction of the aquifer

The octanol-water partition coefficient ( $K_{ow}$ ) is measured in a laboratory or estimated from basic chemical principles.<sup>1</sup> The  $K_{oc}$  must then be determined from the measured  $K_{ow}$  by the following equation for aromatic compounds<sup>2</sup>:

$$\text{Log}(K_{oc}) = \text{Log}(K_{ow}) - 0.21$$

The average  $f_{oc}$  for hazardous waste sites in the United States is 0.003. Because of the semi-arid conditions in the vicinity of the site, it is likely that the actual  $f_{oc}$  is lower than this value. To simulate likely site-specific conditions, we also used a value of 0.002.

The porosity of the weathered bedrock is also not well characterized, but will range somewhere between that for crystalline rock (~1%) and that for a gravel aquifer (50%). We chose values of 20% and 50% to represent a likely range of aquifer porosity.

Benzene is the primary constituent of concern and has a  $K_{ow}$  of 1.99. Using values presented gives a range of retardation rate for benzene between 1.3 and 3. This means that benzene will travel between 1.3 and 3 times more slowly than the groundwater. Using the lower estimate of groundwater travel time and retardation yields a time for benzene to reach the nearest seep of **4 days** (1.3 times the water travel time of 3 days). Using the upper estimate of groundwater travel time and retardation rate yields a time for **21 days** (3 times the water travel time of seven days) for benzene to migrate from the suspected source area to the ephemeral stream.

Natural attenuation of aromatic hydrocarbons will occur at some rate. The rate of attenuation for the gasoline-like constituents will be estimated as a part of the interim remedy, and will depend

<sup>1</sup> See for example, [http://www.syrres.com/eSc/est\\_kowdemo.htm](http://www.syrres.com/eSc/est_kowdemo.htm) for determinations of  $K_{ow}$  for compounds with a CAS number.

<sup>2</sup> Bedient, P.H., H.S. Rifai, and C.J. Newell. *Ground Water Contamination: Transport and Remediation*, Prentice Hall, Englewood Cliffs, NJ, 1994.

upon the proposed remedial solution, the level of sorption to soils and aquifer materials, and the availability of the remedial solutions to contact the contaminants. Typically, an oxidizer such as RegenOx<sup>®</sup> can enhance the oxidation of the petroleum hydrocarbons as the oxidizer flows through the aquifer. Bioremediation can also occur, depending upon the availability of nutrients and electron acceptors. Typically the bioremediation rate is expressed as the half-life, which can vary between constituents.

## **4 REMEDIAL INVESTIGATION ACTIVITIES**

The following remedial investigation activities have been conducted to further understand the extent and character of the contamination.

### **4.1 Soil Characterization**

Soil characterization samples were collected during the excavation of the North Trench, S1 Trench and S2 Trench, from the 0-6, 6-12, and 12-18 foot intervals, and were submitted to assess the extent of impacts in the vicinity of the site. Analytical results indicated detectable concentrations of petroleum hydrocarbons were present in the samples; however, the concentrations were below their respective allowable limits. The bedrock sample was submitted for analysis of the regulated target analytes listed in COGCC Table 910-1 (COGCC, 2007). Sample results indicated no analyte exceeded the allowable limits. Soil sample data is included in Appendix B.

### **4.2 Water Characterization**

A total of 19 sampling events have taken place at the site. The sampling events were conducted on the following dates:

- June 16 through June 19, 2008
- June 24, 2008
- June 30, 2008
- July 2, 2008
- July 7, 2008
- July 10, 2008
- July 18, 2008
- July 24, 2008
- July 31, 2008
- August 7, 2008
- August 14, 2008
- August 21, 2008
- September 4, 2008
- September 11, 2008
- September 19, 2008
- October 2, 2008
- October 15, 2008
- November 6, 2008
- November 20, 2008

During the initial event, water samples were collected from 28 locations. A total of eight key indicator locations were selected for regular monitoring, including: five surface impoundments; a background location; a stock tank, and, a compliance location. Samples have been regularly collected from the eight key indicator locations, which are identified in the following table along with their corresponding Map Identifiers (Figure 2).

### Sample Locations Descriptions

MAP ID	Sample Location	Location Description
1	Upstream	Upgradient sample location (Background location)
2	North Trench	Trench intercepting northern seep from suspected release
4	Water Trough	Water Trough associated with ranching activities
6	Dam 1	Upper dam in unnamed creek
7	S1 Trench	Trench 1 intercepting southern seep from suspected release
9	Dam 2	Lower dam in unnamed creek
10	Point of Compliance	Confluence of unnamed creek with Cascade Canyon
11	S2 Trench	Trench 2 intercepting southern seep from suspected release

#### 4.2.1 Water Quality Sampling

Petroleum hydrocarbons were detected at several sample locations, with the highest concentrations being found at the S1 Trench sampling location (Map ID 7). Analytical results indicate benzene and toluene concentrations at the North, S1, and S2 trench sample locations exceeded their respective maximum contaminant level (MCL) of 0.005 mg/L and 1.0 mg/L. Total xylenes concentrations detected in the North Source and North Trench locations also exceeded the MCLs during isolated sampling events. Other petroleum hydrocarbon constituents were detected, but at concentrations below their respective MCLs. To date, no petroleum hydrocarbons have been detected downstream from sample location (Map ID) 10. Petroleum hydrocarbon data collected were tabulated, and included in Appendix A along with Time Series Graphs for selected sample locations and analytes. The complete laboratory analytical reports are provided in Appendix B.

#### Petroleum Hydrocarbon Analytical Results

Petroleum hydrocarbons were detected at several of the sample locations. A review of the analytical results indicated only benzene, toluene, and total xylenes exceeded their respective MCLs at various locations and times.

Analytical results indicate benzene concentrations at five sampling locations (Map ID 1, 2, 6, 7, and 11) included samples exceeding the MCL of 0.005 mg/L. The maximum concentrations of benzene were observed at the S1 Trench sampling location (Map ID 7), which ranged from 0.64 to 2.5 mg/L.

Analytical results indicate toluene concentrations at three sampling locations (Map ID 2, 7, and 11) included samples exceeding the MCL of 1.0 mg/L. The maximum concentrations of toluene were observed at the North Source sampling location (Map ID 3), which ranged from 0.360 to 12.0 mg/L. This location is not regularly sampled, and currently appears to primarily fill by subflow from the North Trench. Hydrocarbon concentrations in the North Trench are decreasing though time.

Analytical results indicate total xylene concentrations at two sampling locations (Map ID 2 and 3) included samples exceeding the MCL of 10.0 mg/L. The maximum concentrations of total xylenes were observed at North Source sampling location (Map ID 3), which ranged from 1.7 to 19.0 mg/L.

In general, trends in analytical results demonstrate a gradual decline in benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations detected in samples collected from the site.

During the July 18, 2008 sampling event, additional sample volumes were collected from sampling locations at Map ID numbers 2 and 7 for analysis of other volatile and semi-volatile organic compounds (VOCs and SVOCs). A sample was also collected from one additional location: Joining Stream Current (Map ID 25). A review of the supplemental data indicated only petroleum hydrocarbons and phenol were detected in the analysis of VOCs. SVOCs, including several poly-aromatic hydrocarbons (PAHs) were also detected. The detected analytes include:

**VOCs**

- Benzene
- Ethylbenzene
- Toluene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Xylenes (undifferentiated)

**PAHs**

- Acenaphthene
- Anthracene
- Fluorene
- Naphthalene
- Phenanthrene
- Phenol

Laboratory data sheets are included in Appendix B.

**Metals Analytical Results**

During the July 18, 2008 sampling event, unfiltered water samples were collected from sampling locations at Map ID 1, 2, and 7 for analysis of chloride, sulfate, total dissolved solids (TDS) and various metals. Water samples for metals analysis were collected into sample bottles containing acid preservative. Thus, the laboratory results do not accurately indicate to concentration of dissolved metals in the water samples, as metals in suspended material is dissolved by the action of the acid preservative. Samples were also collected from two additional locations: the Upstream Fork and Joining Stream (current Map ID numbers 12 and 25, respectively). The analytical results for the water samples indicated the presence of the following metals:

- |          |              |
|----------|--------------|
| • Barium | • Chromium   |
| • Lead   | • Molybdenum |
| • Zinc   |              |

However, the laboratory data are not considered representative of the dissolved metal concentrations in surface water, as any suspended metals present in the water were dissolved by the nitric acid preservative.

The results of the metals analysis for the samples collected from surface waters in the vicinity of the cabin and from Map ID 25 sampling location indicated barium, molybdenum, and zinc concentrations were consistent with naturally-occurring waters in the site vicinity. The samples collected from Map ID 12 sampling location, which is downgradient from the cabin and the sample collected from Map ID 25 sampling location indicated low concentrations of chromium and lead, in addition to barium, molybdenum, and zinc.

### 4.3 Groundwater Monitoring and Pumping

The difficulty of reaching the site during the winter months suggests monitoring frequency will be reduced. The eight key indicator sampling points will be sampled monthly until sampling points are dry, or until data results stabilize below MCLs, or until winter weather conditions no longer allow safe access to the sample locations. When these instances occur, the sampling frequency will be revised.

Water pumping rates decreased between June and October. The average rates were as follows:

#### Pumping Volumes from Water Impoundments

Water Impoundment	Average Pumping Rate (June to October)
Dam 1	Dry. Not pumped since September 5, 2008
Dam 2	1,900 barrel per day, bypassed September 18, 2008
North Source/North Trench	135 barrels per day
S1 Trench	370 barrels per day
S2 Trench	30 barrels per day

The surface impoundments were modified in November to increase storage capacity and attempt to eliminate discharge during the winter months. A large lined impoundment was also created below the former S2 Trench, which will serve as an emergency overflow impoundment if needed to prevent accidental discharge into the stream. Additionally, buried pipelines connecting the impoundments to the frac tanks and pumping equipment were installed.

Currently, there is no direct discharge from the impoundments, other than potential subflow under the barrier dams. Pressure transducers will be placed in key impoundments to monitor water levels remotely, and the surface impoundments will continue to be pumped as needed to prevent overflow until data results indicate water in the impoundment has stabilized below MCLs or until winter weather conditions no longer allow safe access for the pumping crews to access the impoundment.

### 4.4 North Trench Impoundments

The North Trench/North Source impoundments have been removed and replaced with a series of four sequential impoundments, which consecutively cascade from the northernmost impoundment to the south. Recharge into the North Trench impoundments has been significantly reduced by the additional head created with the reconfiguration. These impoundments appear to be effectively intercepting water from entering the stream, as evidenced by the losing stream in the immediate downgradient area. The North Trench impoundments will be monitored throughout the winter, and periodically will be pumped into storage containers, as necessary to prevent overflow.

### 4.5 Dam 1

The Dam 1 surface impoundment was isolated from recharge. This surface impoundment had not required pumping since the first week of September, and was reclaimed in November.



#### **4.6 South Trench Impoundments**

The S1 and S2 trenches have been removed and replaced with a series of three, and four (respectively) consecutive cascading impoundments. Recharge into the South Trench impoundments has ceased as a result of the additional head created with the reconfiguration. These impoundments appear to be intercepting the majority of the water from entering the stream; however, the stream in this and the immediately downgradient area appears to be gaining, either as a result of subflow, or springs entering the valley from the west. The South Trench impoundments will be monitored throughout the winter, and periodically will be pumped into storage containers, as necessary to prevent overflow.

#### **4.7 Dam 2**

The Dam 2 impoundment collects surface water entering the creek from springs south of the S2 Trench. Analytical results for the samples collected from the Dam 2 location indicate no detectable concentrations of petroleum hydrocarbons since the July 10, 2008 sampling event. OXY was provided verbal approval from COGCC to allow water to bypass Dam 2, based upon the absence of detectable hydrocarbons. Dam 2 was bypassed on September 18, 2008, to allow water from the unnamed creek to freely flow into Cascade Canyon. The Dam 2 location will continue to be sampled and inspected bi-weekly as long as it is accessible and has water.

#### **4.8 Downstream Point of Compliance**

Analytical results for the samples collected from the downstream point of compliance below the Dam 2 location (Map ID 10) indicate detectable concentrations of petroleum hydrocarbons were present in the June 17 and 19 samples, and again in the sample collected on September 17, 2008. Although the same analytes were detected in both June samples collected from the Dam 2 location, xylenes were not detected in the September 17, 2008 sample. This may indicate a southeastward contaminant migration route directly into Cascade Canyon. Cascade Canyon immediately east (upgradient) of Dam 2 and west (downgradient) of the confluence with the unnamed creek will continue to be sampled and inspected bi-weekly as long as it is accessible and has water.

### **5 PROPOSED INTERIM REMEDIES**

OXY has prepared the Site for winter weather by increasing the total water storage capacity with the intent to eliminate all discharge. Remedial activities, including water pumping and water sampling, will continue at the site.

Monitored Natural Attenuation (MNA) with pumping is the current alternative being used for site remediation and prevention of further migration. OXY considered several interim remedies, including MNA, No Action, and In-Situ Chemical Oxidation (ISCO) with Enhanced MNA to supplement removal of contaminants. A comparison of the proposed interim remedies is provided in the following table, and detailed in the sections below.

### Comparison of Interim Remedial Alternatives

Alternative	Capital Costs	O&M Costs	Meets Regulatory Requirements	Accelerates Removal of Contaminants
<b>MNA</b> (with pumping)	Expended	Up to \$5,000/day	Yes	No
<b>No Action</b>	\$0	\$0	No	No
<b>Groundwater Remediation with Enhanced MNA</b>	\$30,000	Up to \$5,000/day (no additional O&M)	Yes	Yes

The interim remedy will require compatibility with long-term remedial measures, which may include enhanced MNA, air-sparging, or sparging with ozone. It is OXY's interest to pursue the interim remedy throughout the winter months.

#### 5.1 Monitored Natural Attenuation with Pumping

The MNA with pumping alternative would include continued pumping of water from the impoundments into storage containers, and monitoring of the various key indicator locations. This is the current practice for the site, and meets the requirements for local, state, and federal regulations. This alternative does not address any removal of source area contaminants, other than through naturally occurring desorption and advection, and any naturally occurring degradation. The disadvantage of this alternative is the continuing cost, which will continue to range from \$5,000 to \$150,000 per month.

#### 5.2 No Action

The No Action alternative would eliminate groundwater monitoring and pumping of water from the surface impoundments. This is not an acceptable measure, as it would allow further migration of known contamination, impacting additional media and increasing environmental risks.

#### 5.3 Groundwater Remediation with Enhanced Monitored Natural Attenuation

Soils underlying the former reserve pit have been reclaimed. However; it is possible that free-phase constituents are still present in the vadose zone below the pit and in the aquifer. As long as there is residual condensate present at the site, there will be a continual release of dissolved phase constituents. Remedial solutions that provide destruction of condensate constituents in dissolved phases are available, but may not be effective in areas where free-phase condensate is present.

The cost of the groundwater remediation with Enhanced MNA alternative would include pumping and monitoring costs, as well as the costs of materials and injections. Savings could result from an overall reduction in costs associated with remediating the site more quickly, and earlier discontinuation of monitoring and water removal.

##### 5.3.1 In-Situ Chemical Oxidation (ISCO)

The use of strong chemical oxidizers such as RegenOx<sup>®</sup> or Fenton's Reagent can provide an effective means of targeting areas with residual free-phase liquids and concentrated dissolved

phase constituents. Although Fenton's Reagent is effective for destruction of BTEX and the other petroleum hydrocarbons detected at the site, the low pH required for optimal conditions can be difficult to achieve, can result in dissolution of metals, and creates a health and safety hazard. RegenOx<sup>®</sup>, on the other hand, is effective for BTEX constituents, but operates under high pH conditions, and was specifically manufactured for ease of application, with environmental health and safety in mind.

### **5.3.2 Enhanced Bioremediation**

The enhanced bioremediation would include contaminant reduction using an oxygen releasing compound capable of providing low levels of oxygen over an extended period. The additional oxygen allows aerobic biodegradation of the hydrocarbons to occur if sufficient nutrients are available. Free-phase liquids have not been observed in the reconfigured surface impoundments, and OXY proposes to utilize enhanced bioremediation to remove dissolved phase contaminants from these impoundments.

## **6 RECOMMENDED CORRECTIVE ACTIONS**

OXY has completed an initial assessment of the conditions at the site and proposes to proceed with the following corrective actions based upon our review of the analytical data and the current conditions.

### **6.1 Soil Sampling**

Soil sampling is not necessary at this time; but will occur during reclamation activities and when impoundments are being removed. Water and impacted soils will be removed from the impoundments prior to collection of soil samples from native materials underlying the impoundments or creek(s).

### **6.2 Water Monitoring**

Continued monitoring of water will be conducted until all contaminants of concern are below MCLs. Analyses will include BTEX and TVH. During times that chemical oxidation is being performed, water will also be periodically analyzed for total dissolved solids, chemical oxygen demand, and biological oxygen demand to measure impact from the oxygenating compounds.

Calcium, iron, magnesium, sulfate, nitrate, phosphate, and total organic carbon, are key indicators of conditions for bioremediation. If remediation transitions into bioremediation, water samples from locations (Map ID) 1, 2, 7, 9, and 11 will be collected for these analytes.

#### **6.2.1 Water Quality Parameters**

Water temperature, pH, specific conductivity, dissolved oxygen, and oxidation-reduction potential (ORP) will be determined during sampling events. Gauging of discharge volumes and measurement of water levels (to extent possible) would also be useful to provide additional information for assessing corrective actions.

## **6.2.2 Monitoring of Water Levels, and Removal of Water from Impoundments**

Water levels in impoundments will be monitored. Water pumping will be limited to prevention of overflow.

The seepage in the area west of the S1 Trench will be monitored by pumping crews to assess the potential for release. Further interim measures may be required to contain seepage; including, but not limited to constructing a small dam and pumping the fluids from the area, or deepening/extending the S1 Trench to the north, to attempt capturing the seepage within the trench.

## **6.3 Implement Selected Interim Remedy**

The ISCO of the groundwater contamination, with secondary enhanced bioremediation of the surface impoundments alternative was implemented during early December. The following steps will be conducted:

### **6.3.1 Prepare impoundments for use (Completed)**

- Pump water from impoundments.
- Place about 1-2 feet of a mixture of crushed gravel fines (~70 yds<sup>3</sup>) and ORC<sup>®</sup>-Advance (140 pounds) to provide a substrate for microbial growth and to maintain oxygen in impoundments. Intent is to produce sufficient oxygen to prevent sulfur producing bacteria growth. Additional benefits would be bioremediation of influent water as it passes into the impoundment.

### **6.3.2 Maintain Impoundments**

- Monitoring of transducer data.
- Monthly site visits (based upon conditions):
  - Record water levels and volumes.
  - Pump out impoundments to reduce potential for displaced groundwater to migrate outside of containments.
  - Collect field parameters and influent water samples for laboratory analysis.

### **6.3.3 In-Situ Chemical Oxidation**

- Monthly applications (based upon conditions) of RegenOx<sup>®</sup> at the former pit on the well pad from December, 2008 to April, 2009.
- Alternating pulses of 1,500/500 pounds of RegenOx<sup>®</sup> mixed into 3,000/1,000 gallons water. Pulsing of water is intended to periodically flood any potential smear zones and maintain oxidizing conditions along the contaminant flowpath.

## **7 CONCLUSIONS**

OXY has initiated remedial activities in the Site vicinity, which include the placement of ORC<sup>®</sup> in the surface impoundments adjacent to seeps and providing regular injections of RegenOx<sup>®</sup>. Injections will continue on a monthly schedule. OXY will continue to monitor the water levels and collect water samples, as weather permits. A report discussing remedial activities and additional analytical results will be submitted periodically.

## 8 REFERENCES

Colorado Oil and Gas Conservation Commission (COGCC). 2007. 900 Series Rules - Exploration and Production Waste Management.

Press, Frank and Siever, Raymond. 1974. *Earth*. W.H. Freeman and Company, San Francisco.

Tweto, Ogden. 1979. *Geologic Map of Colorado*.

United States Department of Agriculture (USDA). 1988. Soil Survey of the Douglas Plateau Area.

## **Appendix A – Figures, Tables, and Graphs**





**OXY USA WTP LP**

760 Horizon Drive #101  
Grand Junction, CO 81506

**Figure 1 - Vicinity Map**  
**OXY Conn Camp #697-09-61 Well Pad**

1 inch equals 2,000 feet  
Garfield County, Colorado



0 1,000 2,000 3,000 Feet

Site

Cascade Canyon

Conn Creek

**Legend**

-  Existing Pad Boundary
-  Existing OXY Access Road

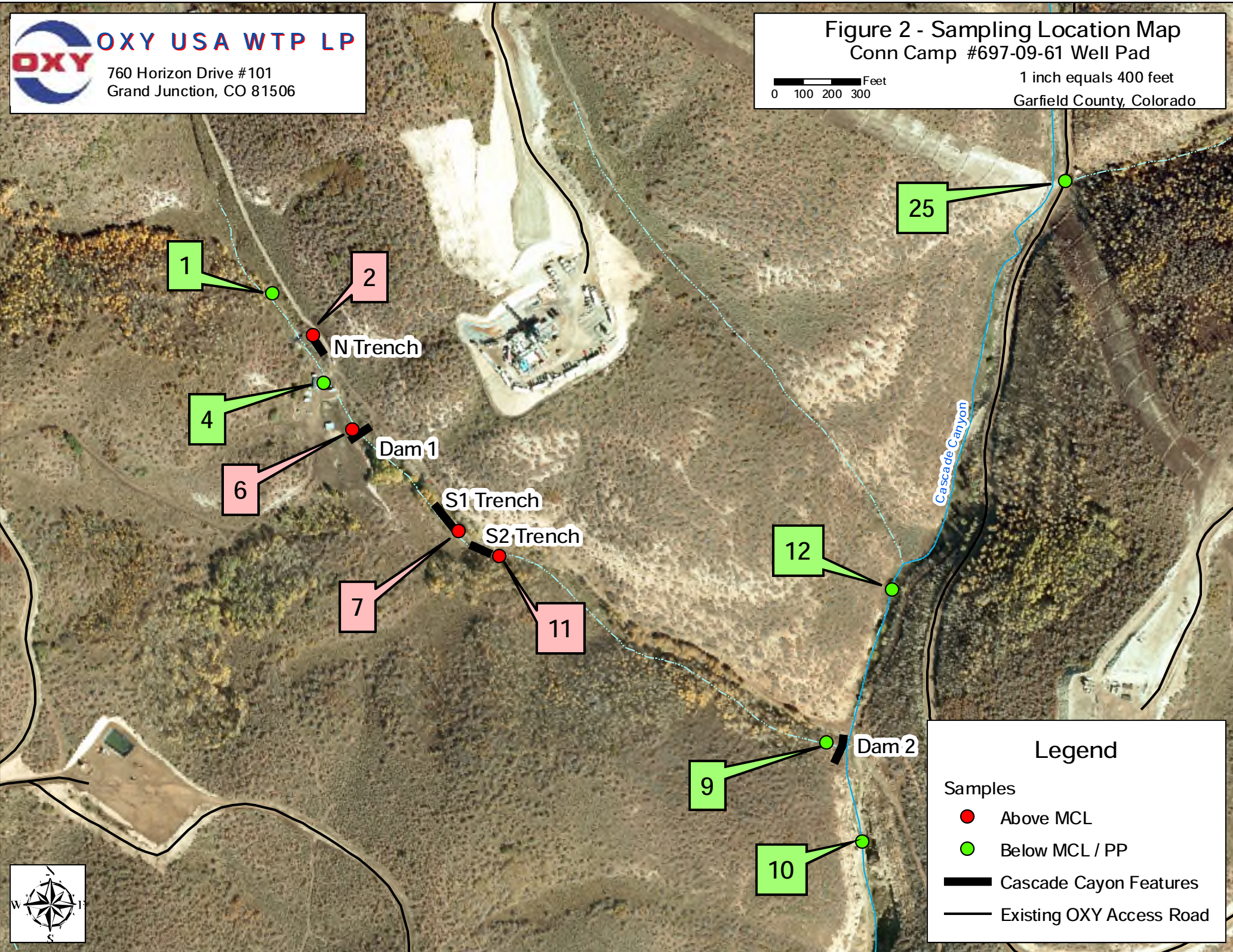




**Figure 2 - Sampling Location Map**  
Conn Camp #697-09-61 Well Pad

0 100 200 300 Feet

1 inch equals 400 feet  
Garfield County, Colorado



### Legend

#### Samples

- Above MCL
- Below MCL / PP

- Cascade Canyon Features
- Existing OXY Access Road



## Analytical Results for Soil Samples

Sample Identifier				N SEEP 0-6 FT		N SEEP 6-12 FT		N SEEP 12-18 FT		S SEEP 0-6 FT		S SEEP 6-12 FT		S SEEP 12-18 FT		S-ALPHA SEEP 0-		S-ALPHA SEEP 6-		S-ALPHA SEEP	
Collect Date				7/21/2008		7/21/2008		7/21/2008		7/21/2008		7/21/2008		7/21/2008		7/21/2008		7/21/2008		7/21/2008	
Method	Parameter	Units	Soil Limits	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
9045D	pH	su	6-9	7.3		7		7.1		7.3		7.4		7.2		7.5		7.1		6.5	
Calc.	Sodium		< 12	6.3		5.1		5.5		4.2		3.8		3.8		2.6		2.1		2.2	
9050AMod	Specific	umhos/	<4	530		430		540		780		520		660		870		900		880	
7471	Mercury	mg/kg	17	<0.020		<0.020		<0.020		<0.020		<0.020		<0.020		<0.020		<0.020		<0.020	
6010B	Arsenic	mg/kg	41	3.2		2.3		2.8		7.5		14		16		5.9		7.9		8.7	
6010B	Barium	mg/kg	180,000	210		200		190		140		160		160		230		200		250	
6010B	Boron	mg/kg	2	<10		<10		<10		<10		<10		<10		<10		<10		<10	
6010B	Cadmium	mg/kg	26	0.71		0.74		0.72		0.74		0.81		0.83		0.75		0.66		0.74	
6010B	Chromium	mg/kg	1500	34		29		31		20		22		27		28		23		21	
6010B	Copper	mg/kg	750	15		15		16		16		18		21		11		11		17	
6010B	Lead	mg/kg	300	14		13		15		14		16		16		13		12		15	
6010B	Magnesium	mg/kg	site-	4600		4700		4600		3300		3500		3900		4100		3200		4500	
6010B	Nickel	mg/kg	210	17		20		18		12		18		21		18		17		18	
6010B	Selenium	mg/kg	site-	<1.0		<1.0		<1.0		1.7		<1.0		<5.0	O	<5.0	O	<1.0		<1.0	
6010B	Silver	mg/kg	100	<0.50	J4	<0.50	J4	<0.50	J4	<0.50	J4	0.97		1		1		0.93		0.82	
6010B	Zinc	mg/kg	1400	58		59		59		46		52		54		54		46		51	
8021/8015	Benzene	mg/kg	5	<0.025		<0.002		<0.10		<0.002		<0.002		<0.002		<0.002		<0.002		<0.002	
8021/8015	Toluene	mg/kg	1000	<0.25		<0.025		<1.0		<0.025		<0.025		<0.025		<0.025		<0.025		<0.025	
8021/8015	Ethylbenzene	mg/kg	700	<0.025		0.12		1.4		<0.002		<0.002		<0.002		<0.002		<0.002		<0.002	
8021/8015	Total Xylene	mg/kg	1400-	0.22		0.1		1.4		<0.007		<0.007		0.034		<0.007		<0.007		<0.007	
GRO	TPH (GC/FID)	mg/kg	1000	63		35		430		<0.50		<0.50		<0.50		<0.50		<0.50		<0.50	
Data qualifiers																					
J4 Analyte was detected, but at concentrations below method reporting limit.																					
O Dilution required due to matrix interference. Detection limit raised.																					
Notes																					
1 Alternate, site-specific limit is 2x background																					
2 Site-specific limits to be approved																					
3 Proposed limts for TPH is 500 mg/Kg																					

# Soil Sample Results

## Pit Closure

Client Sample ID			BASE OF PIT		BEDROCK	
Collect Date			7/22/2008		7/22/2008	
Method	Parameter	Units	Value	Qual	Value	Qual
9045D	pH	su			9	
Calc.	Sodium Adsorption Ratio				43	
9050AMod	Specific Conductance	umhos/cm			4500	
7471	Mercury	mg/kg			0.02	
6010B	Arsenic	mg/kg			2.8	
6010B	Barium	mg/kg			410	
6010B	Boron	mg/kg			70	
6010B	Cadmium	mg/kg			3.2	
6010B	Chromium	mg/kg			40	
6010B	Copper	mg/kg			25	
6010B	Lead	mg/kg			18	
6010B	Magnesium	mg/kg			9000	
6010B	Nickel	mg/kg			26	
6010B	Selenium	mg/kg			5.5	
6010B	Silver	mg/kg			<0.50	
6010B	Zinc	mg/kg			54	
8021/8015	Benzene	mg/kg	0.0026			
8021/8015	Toluene	mg/kg	0.44			
8021/8015	Ethylbenzene	mg/kg	0.018			
8021/8015	Total Xylene	mg/kg	0.056			
GRO	TPH (GC/FID) Low Fraction	mg/kg	54			
8260B	Acetone	mg/kg			<2.5	
8260B	Acrylonitrile	mg/kg			<0.50	
8260B	Benzene	mg/kg			<0.050	
8260B	Bromobenzene	mg/kg			<0.050	
8260B	Bromodichloromethane	mg/kg			<0.050	
8260B	Bromoform	mg/kg			<0.050	
8260B	Bromomethane	mg/kg			<0.25	
8260B	n-Butylbenzene	mg/kg			<0.050	
8260B	sec-Butylbenzene	mg/kg			<0.050	
8260B	tert-Butylbenzene	mg/kg			<0.050	
8260B	Carbon tetrachloride	mg/kg			<0.050	
8260B	Chlorobenzene	mg/kg			<0.050	
8260B	Chlorodibromomethane	mg/kg			<0.050	
8260B	Chloroethane	mg/kg			<0.25	
8260B	2-Chloroethyl vinyl ether	mg/kg			<2.5	
8260B	Chloroform	mg/kg			<0.25	
8260B	Chloromethane	mg/kg			<0.050	
8260B	2-Chlorotoluene	mg/kg			<0.050	
8260B	4-Chlorotoluene	mg/kg			<0.050	
8260B	1,2-Dibromo-3-Chloropropane	mg/kg			<0.25	
8260B	1,2-Dibromoethane	mg/kg			<0.050	
8260B	Dibromomethane	mg/kg			<0.050	
8260B	1,2-Dichlorobenzene	mg/kg			<0.050	
8260B	1,3-Dichlorobenzene	mg/kg			<0.050	
8260B	1,4-Dichlorobenzene	mg/kg			<0.050	
8260B	Dichlorodifluoromethane	mg/kg			<0.25	
8260B	1,1-Dichloroethane	mg/kg			<0.050	
8260B	1,2-Dichloroethane	mg/kg			<0.050	
8260B	1,1-Dichloroethene	mg/kg			<0.050	

# Soil Sample Results

## Pit Closure

Client Sample ID			BASE OF PIT		BEDROCK	
Collect Date			7/22/2008		7/22/2008	
Method	Parameter	Units	Value	Qual	Value	Qual
8260B	cis-1,2-Dichloroethene	mg/kg			<0.050	
8260B	trans-1,2-Dichloroethene	mg/kg			<0.050	
8260B	1,2-Dichloropropane	mg/kg			<0.050	
8260B	1,1-Dichloropropene	mg/kg			<0.050	
8260B	1,3-Dichloropropane	mg/kg			<0.050	
8260B	cis-1,3-Dichloropropene	mg/kg			<0.050	
8260B	trans-1,3-Dichloropropene	mg/kg			<0.050	
8260B	2,2-Dichloropropane	mg/kg			<0.050	
8260B	Di-isopropyl ether	mg/kg			<0.050	
8260B	Ethylbenzene	mg/kg			<0.050	
8260B	Hexachlorobutadiene	mg/kg			<0.050	
8260B	Isopropylbenzene	mg/kg			<0.050	
8260B	p-Isopropyltoluene	mg/kg			0.34	
8260B	2-Butanone (MEK)	mg/kg			1.5	
8260B	Methylene Chloride	mg/kg			<0.25	
8260B	4-Methyl-2-pentanone (MIBK)	mg/kg			<0.50	
8260B	Methyl tert-butyl ether	mg/kg			<0.050	
8260B	Naphthalene	mg/kg			<0.25	
8260B	n-Propylbenzene	mg/kg			<0.050	
8260B	Styrene	mg/kg			<0.050	
8260B	1,1,1,2-Tetrachloroethane	mg/kg			<0.050	
8260B	1,1,2,2-Tetrachloroethane	mg/kg			<0.050	
8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg			<0.050	
8260B	Tetrachloroethene	mg/kg			<0.050	
8260B	Toluene	mg/kg			<0.25	
8260B	1,2,3-Trichlorobenzene	mg/kg			<0.050	
8260B	1,2,4-Trichlorobenzene	mg/kg			<0.050	
8260B	1,1,1-Trichloroethane	mg/kg			<0.050	
8260B	1,1,2-Trichloroethane	mg/kg			<0.050	
8260B	Trichloroethene	mg/kg			<0.050	
8260B	Trichlorofluoromethane	mg/kg			<0.25	
8260B	1,2,3-Trichloropropane	mg/kg			<0.050	
8260B	1,2,4-Trimethylbenzene	mg/kg			0.23	
8260B	1,2,3-Trimethylbenzene	mg/kg			0.8	
8260B	1,3,5-Trimethylbenzene	mg/kg			8.3	
8260B	Vinyl chloride	mg/kg			<0.050	
8260B	Xylenes, Total	mg/kg			0.33	
3546/DRO	TPH (GC/FID) High Fraction	mg/kg	7.9			

### Notes

Report generated on: 30-Sep-08 at: 11:47 PM

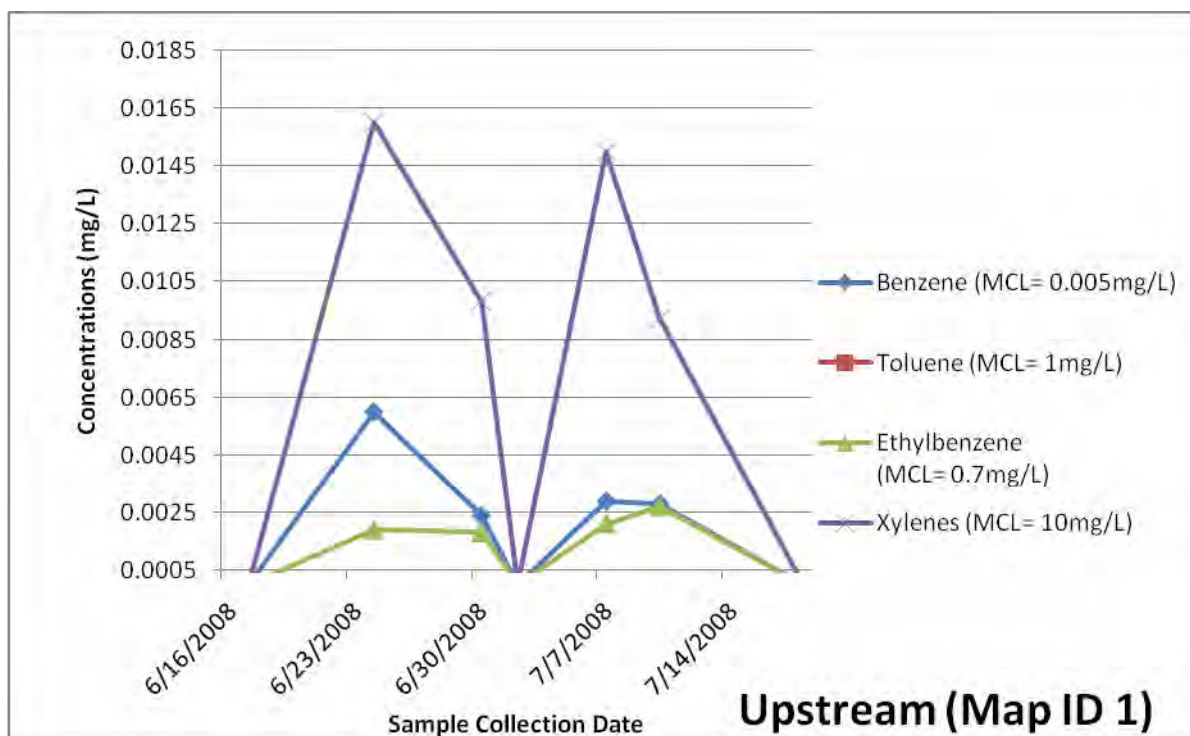
### Qualifiers:

- O (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate
- J4 The associated batch QC was outside the established quality control range for accuracy.

## Summary of Water Analysis

Upstream (Map ID #1)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	none
6/16/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
6/17/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
6/24/2008	<b>0.006</b>	<0.0050	0.0019	0.016	0.50
6/30/2008	0.0024	<0.0050	0.0018	0.0098	0.59
7/2/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/7/2008	0.0029	<0.0050	0.0021	0.015	0.94
7/10/2008	0.0028	<0.0050	0.0027	0.0092	0.59
7/18/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/31/2008	Dry				

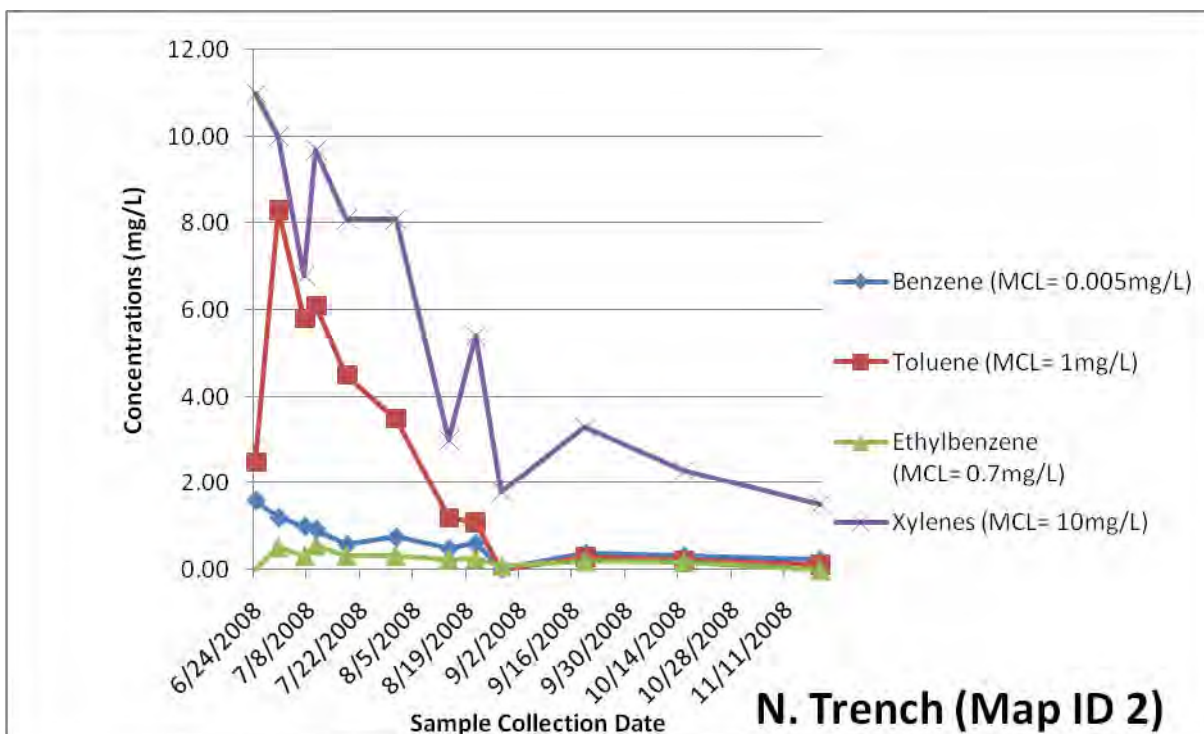
Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons



## Summary of Water Analysis

North Trench (Map ID #2)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	None
6/24/2008	<b>1.60</b>	<b>2.50</b>	<0.00050	<b>11.0</b>	<0.10
6/30/2008	<b>1.20</b>	<b>8.30</b>	0.520	10.0	46.0
7/7/2008	<b>1.00</b>	<b>5.80</b>	0.320	6.8	<50
7/10/2008	<b>0.93</b>	<b>6.10</b>	0.560	9.7	<50
7/18/2008	<b>0.58</b>	<b>4.5</b>	0.33	8.1	NA
7/31/2008	<b>0.76</b>	<b>3.50</b>	0.33	8.1	24.0
8/14/2008	<b>0.49</b>	<b>1.20</b>	0.250	3.0	22.0
8/21/2008	<b>0.61</b>	<b>1.10</b>	0.270	5.4	15.0
8/28/2008	<b>0.03</b>	<0.50	0.091	1.8	<10
9/19/2008	<b>0.38</b>	0.30	0.200	3.3	9.5
10/15/2008	<b>0.32</b>	0.23	0.180	2.3	6.9
11/20/2008	<b>0.23</b>	0.12	0.002	1.5	4.5

Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons



### Summary of Water Analysis

Water Trough (Map ID #4)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	none
6/17/2008	0.00071	0.0014	<0.00050	0.003	<0.10
6/30/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/2/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/7/2008	<0.0005	<0.0050	<0.00050	0.0015	<0.10
7/31/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/7/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/14/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/21/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/28/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/4/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/11/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/19/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
10/15/2008	<0.0005	<0.0050	<0.00050	0.0017	<0.10

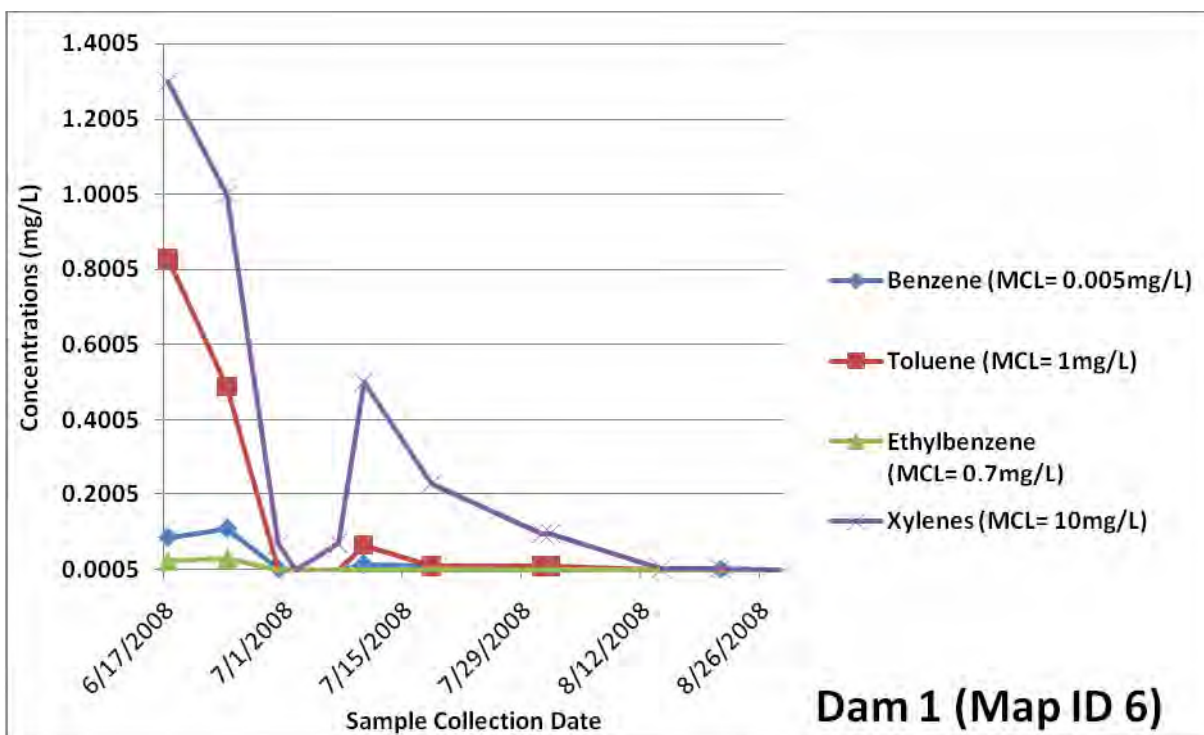
Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons

NO TIME SERIES GRAPH

## Summary of Water Analysis

Dam #1 (Map ID #6)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	none
6/17/2008	<b>0.087</b>	0.830	0.024	1.30	6.20
6/24/2008	<b>0.110</b>	0.490	0.032	1.00	4.00
6/30/2008	0.0019	<0.0050	<0.00050	0.067	1.10
7/2/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/7/2008	<0.0005	<0.0050	<0.00050	0.070	0.74
7/10/2008	<b>0.0150</b>	0.07	<0.00050	0.500	1.30
7/18/2008	<b>0.011</b>	0.0089	<0.00050	0.23	1.1
7/31/2008	<0.0005	0.0086	<0.00050	0.097	0.38
8/1/2008	<0.0005	0.01	<0.00050	0.097	0.38
8/14/2008	<0.0005	<0.0050	<0.00050	0.0019	<0.10
8/21/2008	0.00073	<0.0050	<0.00050	0.0043	<0.10
8/28/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/4/2008	No water present. Unable to sample				
9/11/2008	No water present. Unable to sample				
9/19/2008	No water present. Unable to sample				
10/15/2008	Dam Removed				

Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons

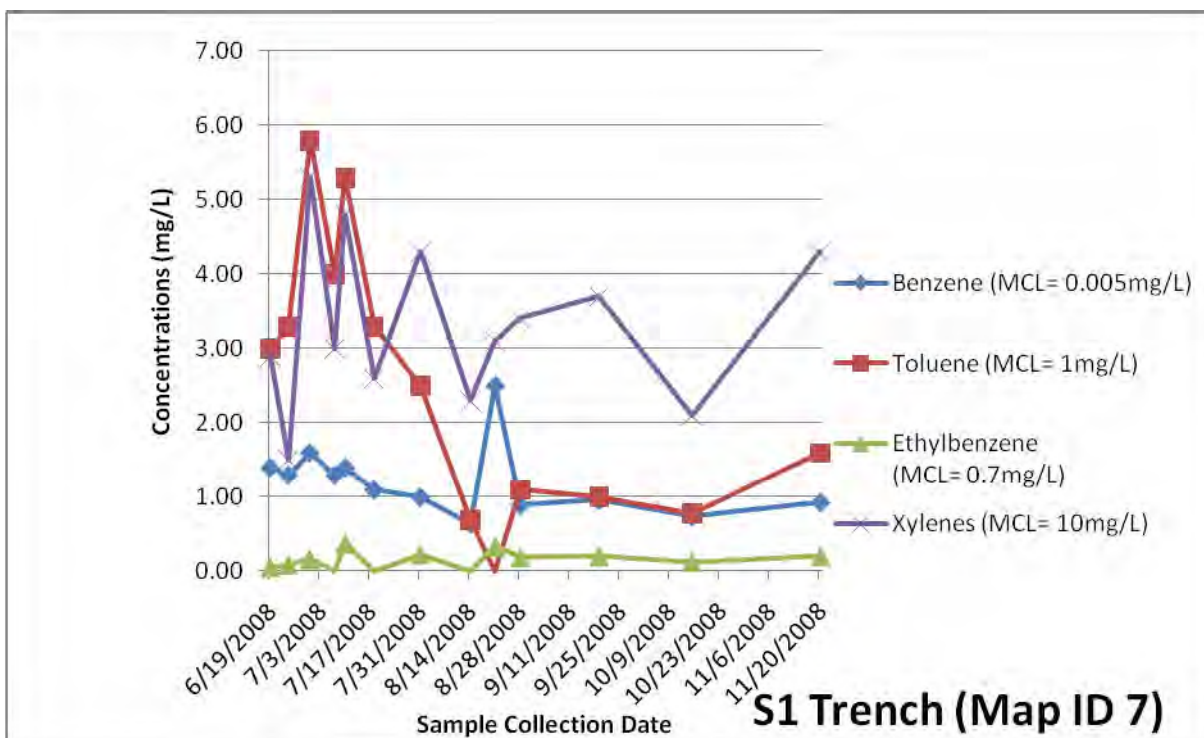




## Summary of Water Analysis

S1 Trench (Map ID #7)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	none
6/19/2008	<b>1.40</b>	<b>3.00</b>	0.044	2.90	None
6/24/2008	<b>1.30</b>	<b>3.30</b>	0.084	1.50	11.0
6/30/2008	<b>1.60</b>	<b>5.80</b>	0.160	5.30	27.0
7/7/2008	<b>1.30</b>	<b>4.00</b>	<0.25	3.00	<50
7/10/2008	<b>1.40</b>	<b>5.30</b>	0.370	4.80	<0.10
7/18/2008	<b>1.1</b>	<b>3.30</b>	<0.05	2.60	17.0
7/31/2008	<b>1.00</b>	<b>2.50</b>	0.22	4.30	15.0
8/14/2008	<b>0.64</b>	<b>0.69</b>	<0.05	2.30	12.0
8/21/2008	<b>2.50</b>	<b>&lt;2.5</b>	0.33	3.10	<50
8/28/2008	<b>0.89</b>	<b>1.10</b>	0.18	3.40	12.0
9/4/2008	No water present. Unable to sample				
9/19/2008	<b>0.96</b>	<b>1.00</b>	0.2	3.70	12.0
10/15/2008	<b>0.74</b>	0.78	0.12	2.10	<10
11/20/2008	<b>0.93</b>	<b>1.60</b>	0.2	4.30	13.0

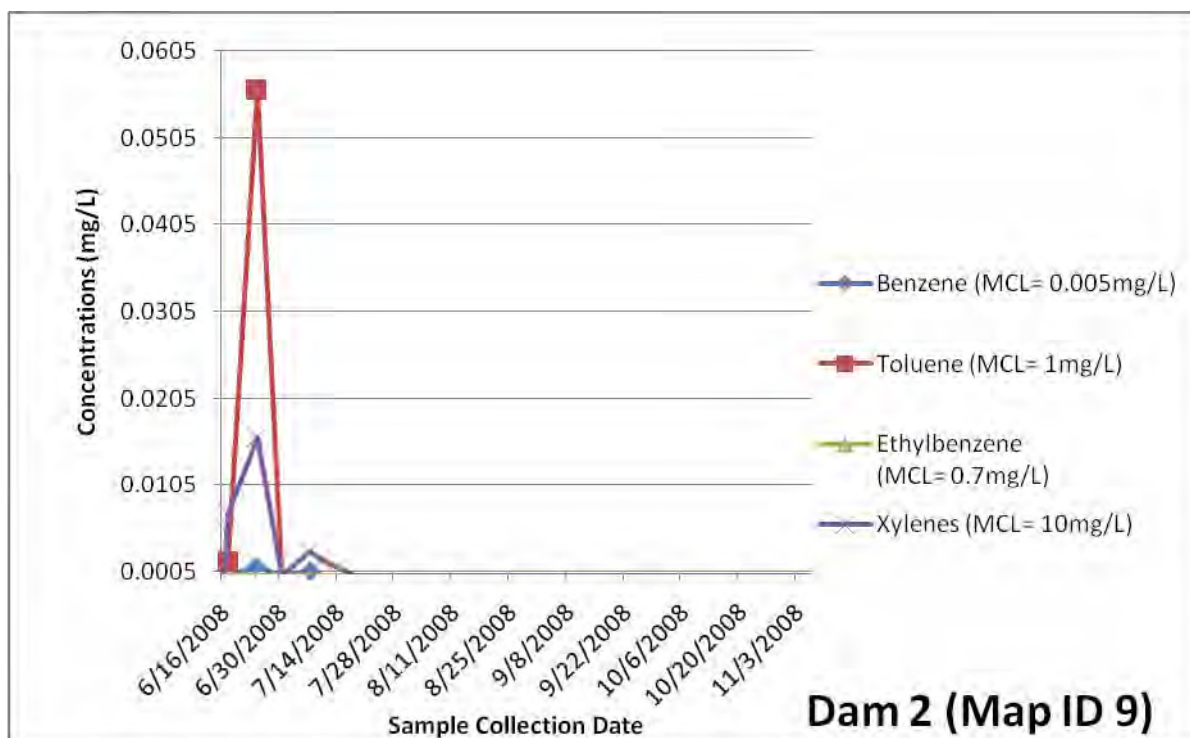
Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons



## Summary of Water Analysis

Dam #2 (Map ID #9)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	None
6/16/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
6/17/2008	<0.0005	0.0017	<0.00050	0.0071	<0.10
6/24/2008	0.0011	0.056	<0.00050	0.016	0.13
6/30/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/7/2008	0.0006	<0.0050	<0.00050	0.0028	<0.10
7/10/2008	<0.0005	<0.0050	<0.00050	0.0018	<0.10
7/18/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/31/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/7/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/14/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/21/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/28/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/4/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/11/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
10/15/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
11/6/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10

Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons



### Summary of Water Analysis

Downstream of Dam #2 (Map ID #10)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	none
6/16/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
6/17/2008	<0.0005	0.0016	<0.00050	<0.0015	<0.10
6/24/2008	<0.0005	<0.0050	<0.00050	0.0024	<0.10
6/30/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/7/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/10/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
7/31/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/7/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/14/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/21/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
8/28/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/4/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/11/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
9/19/2008	<0.0005	<0.0050	<0.00050	0.0015	<0.10
10/15/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
11/6/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10
11/20/2008	<0.0005	<0.0050	<0.00050	<0.0015	<0.10

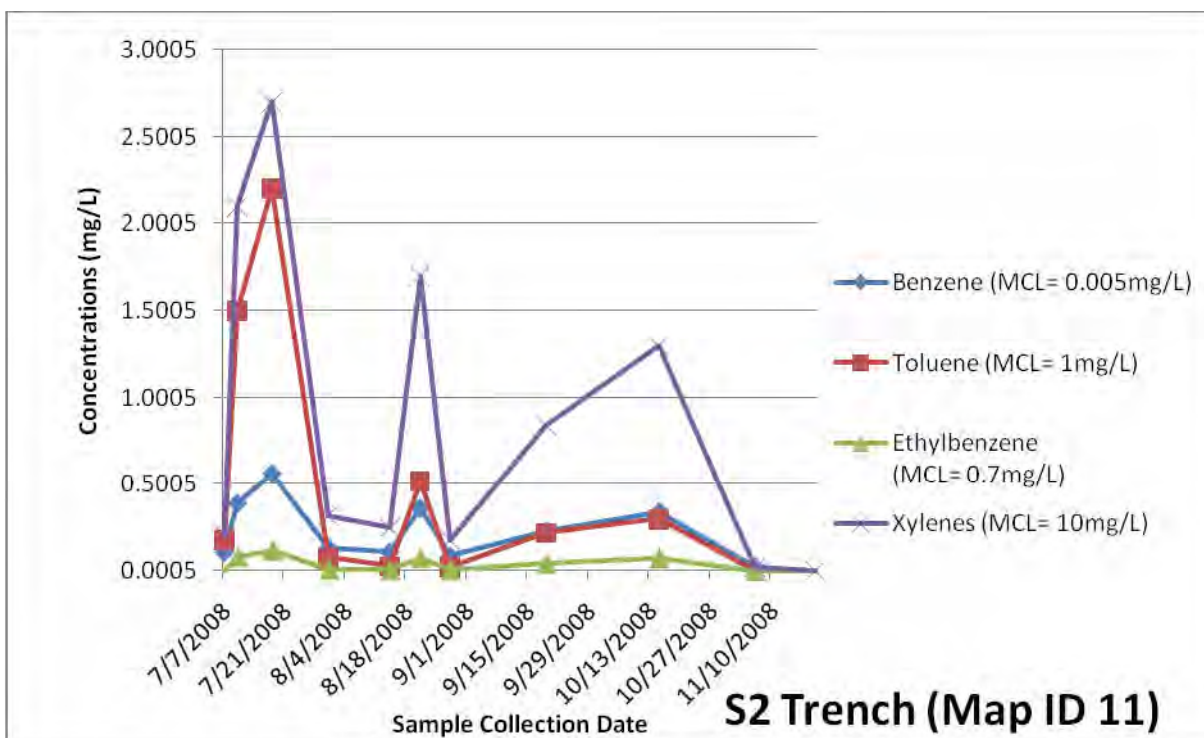
Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons

NO TIME SERIES GRAPH

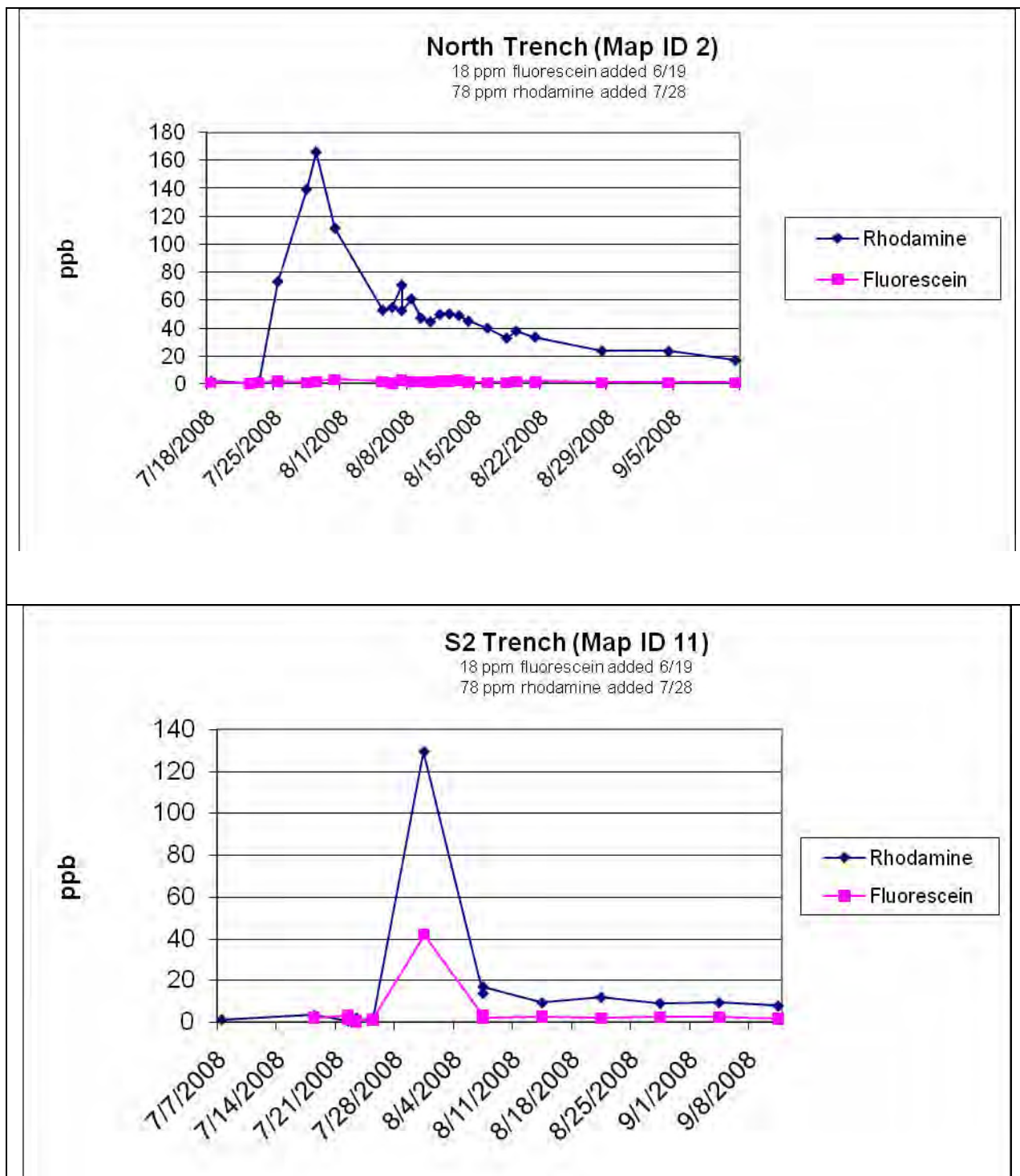
## Summary of Water Analysis

S2 Trench (Map ID #11)					
Sample Location / Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TVH (mg/L)
MCL	0.005	1.0	7.0	10.0	none
7/7/2008	<b>0.11</b>	0.18	<0.00050	0.21	1.2
7/10/2008	<b>0.39</b>	<b>1.5</b>	0.081	2.1	7.4
7/18/2008	<b>0.56</b>	<b>2.2</b>	0.12	2.7	17
7/31/2008	<b>0.13</b>	0.079	0.0075	0.32	0.98
8/14/2008	<b>0.11</b>	0.029	0.0058	0.25	1.2
8/14/2008	<b>0.11</b>	0.029	0.0058	0.25	1.2
8/21/2008	<b>0.36</b>	0.52	0.077	1.7	4.7
8/28/2008	<b>0.085</b>	0.024	0.0065	0.18	0.62
9/19/2008	<b>0.23</b>	0.22	0.045	0.84	2.6
10/15/2008	<b>0.34</b>	0.3	0.076	1.3	4
11/6/2008	<b>0.023</b>	<0.0050	0.0014	0.02	0.17
11/20/2008	<0.0005	<0.0050	<0.00050	0.0015	<0.10

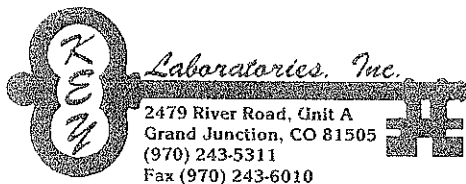
Notes: Sample results presented in Bold Red exceeds MCL  
MCL USEPA Established Maximum Contaminant Level  
mg/L Milligram per liter  
TVH total volatile hydrocarbons



### Fluorometry Results, Selected Locations



## **Appendix B – Laboratory Analytical Data**



# CHAIN OF CUSTODY RECORD

0619081644

Proj. No. <b>061908</b>		Company Name <b>Day 970-201-2305</b>		Phone # <b>970-243-2525</b>		Fax # <b>ATTN: John O'cana</b>		SAMPLE ANALYSES				CONTAINER/SIZE/TYPE	PRESERVATIVES	REMARKS	LABORATORY SAMPLE #
SAMPLERS: (Signature) <i>Brett Kennedy</i>		PRINT NAME: <b>Brett Kennedy</b>													
SAMPLE NO.	DATE	TIME	MATRIX	PROJECT NAME/ SAMPLE LOCATION	List	BTEX	2270	2260	6R0						
0619-01	6/19/08	1430	H <sub>2</sub> O	605-01 W	✓	✓	✓	✓	✓						1644
0619-02	↓	1700	↓	Source 2 upstream	✓	✓	✓	✓	✓						1645
0619-03	↓	1741	↓	Sump	✓	✓	✓	✓	✓						1646
0619-04	↓	1756	↓	Cnk b/sump	✓	✓	✓	✓	✓						1647
0619-05	✓	1800	✓	Tri6-SW	✓	✓	✓	✓	✓						1648
0619-06	6/19	1845	H <sub>2</sub> O	?	✓	✓	✓	✓	✓						1651
										TOTAL NO. OF CONTAINERS					
Relinquished by: (Signature) <i>Brett Kennedy</i>		Date / Time <b>06/20/08 1435</b>		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)					
Custody Seal No.				Custody Seal Present <input type="checkbox"/> Intact <input type="checkbox"/>		Date Required									
Method of Shipment:				Shipped by: (Signature)		Date Completed:		Received for Laboratory by: (Signature) <i>Costa King</i>		Date / Time <b>6/20/08 1435</b>					



Colorado Department  
of Public Health  
and Environment

Laboratory and Radiation Services Division  
8100 Lowry Boulevard, Denver, CO 80230-6928  
US Mail: PO Box 17123, Denver, CO 80217  
(303) 692-3090 fax (303) 344-9989

## REQUEST FOR ANALYTICAL SERVICES

Collection No:

--	--	--	--	--	--	--	--	--	--

### CUSTOMER

CustomerID : WP027890  
Name : Hernandez, Alonzo  
Address : 467 Chatfield Ln  
City/St/Zip : Grand Junction CO 81504  
Phone : 970-985-6055  
Contact :  
Contact Phone :

### SPECIMEN INFORMATION

Collected: 

--	--	--	--	--	--

 Time 

--	--	--	--

☐ a.m. ☐ p.m.  
month day year hour min  
Received: 

--	--	--	--	--	--

 Time 

--	--	--	--

☐ a.m. ☐ p.m.  
month day year hour min  
Collected by: \_\_\_\_\_ Water Type: \_\_\_\_\_

### SAMPLE SITE

PWS ID : CO0 

--	--	--	--	--	--	--	--

 - 

--	--	--

  
Name : \_\_\_\_\_  
Address : \_\_\_\_\_  
City County State Zip  
Description : \_\_\_\_\_  
Location Source Point of location

### COMMENTS

Purpose: ☐ Routine ☐ Special Purpose ☐ Repeat

Chlorine residual: 

--	--	--

 mg/L Temp., Water 

--	--

 °C

Temperature at Receipt: \_\_\_\_\_

Comments: \_\_\_\_\_

### TEST ORDER (Check appropriate box):

#### CHEMISTRY-INORGANIC

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Alkalinity, Phenolphthalein    | <input type="checkbox"/> ICP Scan                     | <input type="checkbox"/> Solids, Total      |
| <input checked="" type="checkbox"/> Alkalinity, Total   | <input type="checkbox"/> Lead                         | <input checked="" type="checkbox"/> Sulfate |
| <input type="checkbox"/> Aluminum                       | <input type="checkbox"/> Lithium                      | <input type="checkbox"/> Thallium           |
| <input type="checkbox"/> Antimony                       | <input checked="" type="checkbox"/> Magnesium         | <input type="checkbox"/> Uranium            |
| <input checked="" type="checkbox"/> Arsenic             | <input type="checkbox"/> Manganese                    | <input type="checkbox"/> Zinc               |
| <input checked="" type="checkbox"/> Barium              | <input type="checkbox"/> Mandatory (Phase I, II, V)   | <input type="checkbox"/> Other: _____       |
| <input type="checkbox"/> Beryllium                      | <input type="checkbox"/> Mercury                      |   |
| <input type="checkbox"/> BOD                            | <input type="checkbox"/> Molybdenum                   |   |
| <input type="checkbox"/> BOD, Carbonaceous              | <input type="checkbox"/> Nickel                       |   |
| <input type="checkbox"/> Boron                          | <input type="checkbox"/> Automated Ammonia            |   |
| <input type="checkbox"/> Cadmium                        | <input type="checkbox"/> Nitrogen, Kjeldahl           |   |
| <input checked="" type="checkbox"/> Calcium (Carbonate) | <input type="checkbox"/> Nitrogen, Total              |   |
| <input checked="" type="checkbox"/> Chloride            | <input type="checkbox"/> Nitrogen, Nitrate/Nitrite    |   |
| <input type="checkbox"/> Chlorine, Total residual       | <input type="checkbox"/> Nitrogen, Nitrite            |   |
| <input checked="" type="checkbox"/> Chromium            | <input type="checkbox"/> Nitrogen, Nitrate            |   |
| <input type="checkbox"/> Conductivity                   | <input checked="" type="checkbox"/> pH                |   |
| <input type="checkbox"/> Copper                         | <input type="checkbox"/> Phosphate, Ortho             |   |
| <input type="checkbox"/> Corrosivity (Langlier)         | <input type="checkbox"/> Phosphate, Total             |   |
| <input type="checkbox"/> Cyanide, Distilled             | <input type="checkbox"/> Potassium                    |   |
| <input type="checkbox"/> Cyanide, Direct                | <input type="checkbox"/> Selenium                     |   |
| <input type="checkbox"/> Cyanide, WAD                   | <input type="checkbox"/> Silicon (silicates)          |   |
| <input checked="" type="checkbox"/> Fluoride            | <input type="checkbox"/> Silver                       |   |
| <input type="checkbox"/> Hardness total                 | <input checked="" type="checkbox"/> Sodium            |   |
| <input type="checkbox"/> Heavy Metals                   | <input checked="" type="checkbox"/> Solids, Dissolved |   |
| <input type="checkbox"/> Iron                           | <input type="checkbox"/> Solids, Suspended            |   |

#### CHEMISTRY-ORGANIC

- ☐ Phase 1, 2, 5  
☐ VOC (Regulated)  
☐ SOC (Regulated)  
☐ DBP (Regulated)  
☒ VOC (Screen)  
☐ SVOC (Screen)  
☐ HEM (Oil & Grease)  
☐ THM  
☐ BTEX  
☐ TOC  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

#### MICROBIOLOGY

- ☐ Total Coliforms, PA  
☐ Total Coliforms, MTF  
☐ Fecal Coliforms, MTF  
☐ E.Coli., MPN  
☐ Heterotrophic Plate Count  
☐ Pseudomonas Culture  
☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

#### RADIOCHEMISTRY

- ☐ Alpha/Beta, Gross  
☐ Americium  
☐ Gamma Spectrometry, Nuclide Specific  
☐ Plutonium  
☐ Radium 226  
☐ Radium 228  
☐ Radon  
☐ Thorium  
☐ Uranium  
☐ Leak Test  
☐ Alpha/Beta, Gross  
☐ Carbon-14  
☐ Ni-63  
☐ H-3

☐ Other: \_\_\_\_\_  
☐ Other: \_\_\_\_\_

#### CPD

- ☐ VOC  
☐ Fat + Preservatives In Meat  
☐ Water Activity  
☐ Other: \_\_\_\_\_

### DISPOSITION

### CHAIN OF CUSTODY

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME



## Key Laboratories

2479 River Road, Unit A  
Grand Junction, Colorado 81502  
Phone (970) 243-5311 Fax (970) 243-6010

Client: Occidental Oil and Gas Corp

Client Project Name: Project #061908

Client Sample Number: 0619-01

Key Lab #: 08-1644  
Work Order #: 0620081644  
Date Received: 06/20/08  
Method: EPA ICP-MS Methods 6020 / 200.8  
Technician: 6/23/08 JS

Sampling Date: 6/19/2008  
Sampling Time: 14:30  
Sample Matrix: Water  
Sampler: Brett

Date Analyzed: Friday, June 20, 2008 20:27:18 Friday, June 20, 2008 20:36:49 Friday, June 20, 2008 20:06:19

Key Lab Sample ID# WI-0808-08-1644-21 WI-0606-08-1644-21 WI-0606-08-0908-01\_LMB

Sample Comments:

Sample Aliquot (mg): 40000 40000 40000 LMB  
Prep Spike Recovery: 1.042 1.247 1.627  
Prep/Digestion DF=>> 1.3 1.3 1.28  
Pass Audit =>> x Total DF=>> 12.50 625.00 12.50

Analyte	Ion	Time	Symbol	Audit	Analyte	Total Metals	Total Metals	Units	Total DF	MDL ppm	PQL ppm	Max CL ppm
Method	Mass	(min)										
ICP-MS	9	90	Be		Beryllium			mg/Liter	12.5	0.0005	0.002	15
ICP-MS	11	90	B		Boron			mg/Liter	12.5	0.083	0.28	13
ICP-MS	23	90	Na	x	Sodium		130	mg/Liter	12.5	0.13	0.5	28
ICP-MS	24	90	Mg	x	Magnesium		93	mg/Liter	12.5	0.063	0.26	25
ICP-MS	27	90	Al		Aluminum			mg/Liter	12.5	0.013	0.08	2.5
ICP-MS	28	90	Si		Silicon			mg/Liter	12.5	0.13	0.5	130
ICP-MS	31	90	P		Phosphorous			mg/Liter	12.5	0.13	0.5	28
ICP-MS	39	90	K		Potassium			mg/Liter	12.5	1	4	130
ICP-MS	40	140	Ca	x	Calcium		170	mg/Liter	12.5	0.31	1.3	130
ICP-MS	48	90	Ti		Titanium			mg/Liter	12.5	0.038	0.16	2.5
ICP-MS	51	90	V		Vanadium			mg/Liter	12.5	0.0028	0.01	2.5
ICP-MS	52	90	Cr	x	Chromium	<		mg/Liter	12.5	0.0078	0.03	2.5
ICP-MS	55	90	Mn		Manganese			mg/Liter	12.5	0.0019	0.0075	5
ICP-MS	56	90	Fe		Iron			mg/Liter	12.5	0.28	1	28
ICP-MS	59	90	Co		Cobalt			mg/Liter	12.5	0.0005	0.002	2.5
ICP-MS	60	90	Ni		Nickel			mg/Liter	12.5	0.0025	0.01	13
ICP-MS	63	90	Cu		Copper			mg/Liter	12.5	0.0025	0.01	2.5
ICP-MS	66	90	Zn		Zinc			mg/Liter	12.5	0.13	0.5	25
ICP-MS	75	90	As	x	Arsenic	0.033		mg/Liter	12.5	0.0038	0.016	2.5
ICP-MS	82	90	Se		Selenium			mg/Liter	12.5	0.0075	0.03	5
ICP-MS	88	90	Sr		Strontium			mg/Liter	12.5	0.0028	0.01	2.5
ICP-MS	96	90	Mo		Molybdenum			mg/Liter	12.5	0.0028	0.01	13
ICP-MS	107	90	Ag		Silver			mg/Liter	12.5	0.005	0.02	2.5
ICP-MS	111	90	Cd		Cadmium			mg/Liter	12.5	0.0005	0.002	13
ICP-MS	123	90	Sb		Antimony			mg/Liter	12.5	0.0008	0.002	2.5
ICP-MS	137	90	Ba	x	Barium	0.68		mg/Liter	12.5	0.0025	0.01	5
ICP-MS	200	90	Hg		Mercury			mg/Liter	12.5	0.0013	0.005	1.3
ICP-MS	205	90	Tl		Thallium			mg/Liter	12.5	0.0038	0.016	2.5
ICP-MS	204	90	Pb		Lead			mg/Liter	12.5	0.0078	0.03	2.5
ICP-MS	232	90	Th		Thorium			mg/Liter	12.5	0.00063	0.0028	2.5
ICP-MS	238	90	U		Uranium			mg/Liter	12.5	0.0005	0.002	2.5

Notes: LMB = laboratory method blank, M and MD = sample matrix replicates

Notes: LCS = spiked laboratory method blank, MS and MSD = spiked sample matrix replicates

Notes: Au is spiked as sample prep surrogate, DF = Dilution Factor, MDL = Method Detection Limit,

Notes: PQL = Primary Quantitation Limit, MQL = Maximum Quantitation Limit,

Notes: &lt; = less than MDL, E = Estimated Value over MQL, J = Greater than MDL but less than PQL (4 x MDL)

Notes: n.a. = Not Applicable, Blank Space = Not Requested or Not Reported

Notes: \*\*Total RCRA limits are 20 times the TCLP extract limits because of sample size (100g) and extract volume (2000mL).

\*\*EPA SW846 Method 1311, Revision 0, July 1992, Section "If a total analysis of the waste demonstrates that individual analytes are not present in the waste, or that they are present but at such low concentrations that the appropriate regulatory levels could not possibly be exceeded, the TCLP need not be run."

Analyst / Reviewer

6/23/08 JS

## Key Laboratories

2479 River Road, Unit A

Grand Junction, Colorado 81502

Phone (970) 243-5311 Fax (970) 243-6010

Client: Occidental Oil and Gas Corp

Client Project Name: Project #061908

Client Sample Number: 0619-02

Key Lab #: 08-1645

Work Order #: 0620081644

Date Received: 06/20/08

Method: EPA ICP-MS Methods 6020 / 200.8

Technician:

Sampling Date: 6/19/2008

Sampling Time: 17:00

Sample Matrix: Water

Sampler: Brett

Date Analyzed:

Friday, June 20, 2008 20:46:20

Friday, June 20, 2008 20:08:19

Key Lab Sample ID#

WI-0606-08-1645-22

WI-0606-08-1645-22

WI-0606-08-0000-01\_LMB

Sample Comments:

LMB

Sample Aliquot [mg]:

40000

40000

40000

Prep Spike Recovery:

1.078

1.211

1.027

Prep/Digestion DF==&gt;&gt;

1.3

1.3

1.25

Pass Audit ==&gt;&gt; x Total DF==&gt;&gt;

12.50

625.00

12.50

Analysis Method	Ion	Time [ms]	Symbol	Audit	Analyte	Total Metals	Total Metals	Units	Total DF	MDL ppm	PQL ppm	Max QL ppm
ICP-MS	9	90	Be		Beryllium			mg/Liter	12.5	0.0005	0.002	13
ICP-MS	11	90	B		Boron			mg/Liter	12.5	0.063	0.25	13
ICP-MS	23	90	Na	x	Sodium	200		mg/Liter	0.34 J	0.13	0.5	25
ICP-MS	24	90	Mg	x	Magnesium	43		mg/Liter	<	0.063	0.25	25
ICP-MS	27	90	Al		Aluminum			mg/Liter	12.5	0.013	0.05	2.5
ICP-MS	28	90	Si		Silicon			mg/Liter	12.5	0.13	0.5	130
ICP-MS	31	90	P		Phosphorous			mg/Liter	12.5	0.13	0.5	25
ICP-MS	39	90	K		Potassium			mg/Liter	12.5	1	4	130
ICP-MS	44	180	Ca	x	Calcium	63		mg/Liter	<	0.31	1.3	130
ICP-MS	46	90	Ti		Titanium			mg/Liter	12.5	0.038	0.15	2.5
ICP-MS	51	90	V		Vanadium			mg/Liter	12.5	0.0025	0.01	2.5
ICP-MS	52	90	Cr	x	Chromium	<		mg/Liter	<	0.0075	0.03	2.5
ICP-MS	55	90	Mn		Manganese			mg/Liter	12.5	0.0019	0.0075	5
ICP-MS	54	90	Fe		Iron			mg/Liter	12.5	0.25	1	25
ICP-MS	59	90	Co		Cobalt			mg/Liter	12.5	0.0005	0.002	2.5
ICP-MS	60	90	Ni		Nickel			mg/Liter	12.5	0.0025	0.01	13
ICP-MS	63	90	Cu		Copper			mg/Liter	12.5	0.0025	0.01	2.5
ICP-MS	66	90	Zn		Zinc			mg/Liter	12.5	0.13	0.5	25
ICP-MS	75	90	As	x	Arsenic	0.028	0.01	mg/Liter	<	0.0038	0.015	25
ICP-MS	82	90	Se		Selenium			mg/Liter	12.5	0.0075	0.03	5
ICP-MS	88	90	Sr		Strontium			mg/Liter	12.5	0.0025	0.01	25
ICP-MS	96	90	Mo		Molybdenum			mg/Liter	12.5	0.0025	0.01	13
ICP-MS	107	90	Ag		Silver			mg/Liter	12.5	0.005	0.02	2.5
ICP-MS	111	90	Cd		Cadmium			mg/Liter	12.5	0.0005	0.002	13
ICP-MS	123	90	Sb		Antimony			mg/Liter	12.5	0.0005	0.002	2.5
ICP-MS	137	90	Ba	x	Barium	0.22		mg/Liter	<	0.0025	0.01	5
ICP-MS	202	360	Hg		Mercury			mg/Liter	12.5	0.0013	0.005	1.3
ICP-MS	205	90	Tl		Thallium			mg/Liter	12.5	0.0038	0.015	2.5
ICP-MS	204	90	Pb		Lead			mg/Liter	12.5	0.0075	0.03	2.5
ICP-MS	232	90	Th		Thorium			mg/Liter	12.5	0.00063	0.0025	2.5
ICP-MS	238	90	U		Uranium			mg/Liter	12.5	0.0005	0.002	2.5

Notes: LMB = laboratory method blank, M and MD = sample matrix replicates

Notes: LCS = spiked laboratory method blank, MS and MSD = spiked sample matrix replicates

Notes: Au is spiked as sample prep surrogate, DF = Dilution Factor, MDL = Method Detection Limit,

Notes: PQL = Primary Quantitation Limit, MQL = Maximum Quantitation Limit,

Notes: &lt; = less than MDL, E = Estimated Value over MQL, J = Greater than MDL but less than PQL (4 x MDL)

Notes: n.a. = Not Applicable, Blank Space = Not Requested or Not Reported

Notes: \*\* (Total RCRA limits) are 20 times the TCLP extract limits because of sample size (100g) and extract volume (2000mL).

\*\*EPA SW846 Method 1311, Revision 0, July 1992, Section "If a total analysis of the waste demonstrates that individual analytes are not present in the waste, or that they are present but at such low concentrations that the appropriate regulatory levels could not possibly be exceeded, the TCLP need not be run."

Analyst / Reviewer

6/23/08

## Key Laboratories

2479 River Road, Unit A

Grand Junction, Colorado 81502

Phone (970) 243-5311 Fax (970) 243-6010

Client: Occidental Oil and Gas Corp

Client Project Name: Project #061903

Client Sample Number: 0619-03

Key Lab #: 08-1646

Work Order #: 0620081644

Date Received: 06/20/08

Method: EPA ICP-MS Methods 6020 / 200.8

Technician:

Sampling Date: 6/19/2008

Sampling Time: 17:41

Sample Matrix: Water

Sampler: Brett

Date Analyzed:

Friday, June 20, 2008 21:05:25 iday, June 20, 2008 21:14:59

Friday, June 20, 2008 20:08:19

Key Lab Sample ID#

WI-0606-08-1646-23

WI-0606-08-1646-23

WI-0606-08-0000-01\_LMB

Sample Comments:

LMB

Sample Aliquot [mg]:

40000

40000

40000

Prep Spike Recovery:

0.988

1.296

1.027

Prep/Digestion DF==&gt;&gt;

1.3

1.3

1.25

Pass Audit ==&gt;&gt; x Total DF==&gt;&gt;

12.50

625.00

12.50

Analysis Method	Ion Mass	Time [ms]	Symbol	Audit	Analyte	Total Metals	Total Metals	Units	Total DF	MDL ppm	PQL ppm	Max QL ppm
ICP-MS	9	90	Be		Beryllium			mg/Liter	12.5	0.0005	0.002	13
ICP-MS	11	90	B		Boron			mg/Liter	12.5	0.063	0.26	13
ICP-MS	23	90	Na	x	Sodium		290	mg/Liter	12.5	0.13	0.5	25
ICP-MS	24	90	Mg	x	Magnesium		130	mg/Liter	12.5	0.063	0.25	25
ICP-MS	27	90	Al		Aluminum			mg/Liter	12.5	0.013	0.05	2.5
ICP-MS	28	90	Si		Silicon			mg/Liter	12.5	0.13	0.5	130
ICP-MS	31	90	P		Phosphorous			mg/Liter	12.5	0.13	0.5	25
ICP-MS	39	90	K		Potassium			mg/Liter	12.5	1	4	130
ICP-MS	44	180	Ca	x	Calcium		270	mg/Liter	12.5	0.31	1.3	130
ICP-MS	46	90	Ti		Titanium			mg/Liter	12.5	0.038	0.15	2.5
ICP-MS	51	90	V		Vanadium			mg/Liter	12.5	0.0025	0.01	2.5
ICP-MS	52	90	Cr	x	Chromium		<	mg/Liter	12.5	0.0075	0.03	2.5
ICP-MS	55	90	Mn		Manganese			mg/Liter	12.5	0.0019	0.0075	5
ICP-MS	54	90	Fe		Iron			mg/Liter	12.5	0.25	1	25
ICP-MS	59	90	Co		Cobalt			mg/Liter	12.5	0.0005	0.002	2.5
ICP-MS	60	90	Ni		Nickel			mg/Liter	12.5	0.0025	0.01	13
ICP-MS	63	90	Cu		Copper			mg/Liter	12.5	0.0025	0.01	2.5
ICP-MS	66	90	Zn		Zinc			mg/Liter	12.5	0.13	0.5	25
ICP-MS	75	90	As	x	Arsenic		0.024	mg/Liter	12.5	0.0038	0.015	25
ICP-MS	82	90	Se		Selenium			mg/Liter	12.5	0.0075	0.03	5
ICP-MS	88	90	Sr		Strontium			mg/Liter	12.5	0.0025	0.01	25
ICP-MS	98	90	Mo		Molybdenum			mg/Liter	12.5	0.0025	0.01	13
ICP-MS	107	90	Ag		Silver			mg/Liter	12.5	0.005	0.02	2.5
ICP-MS	111	90	Cd		Cadmium			mg/Liter	12.5	0.0005	0.002	13
ICP-MS	123	90	Sb		Antimony			mg/Liter	12.5	0.0005	0.002	2.5
ICP-MS	137	90	Ba	x	Barium		0.49	mg/Liter	12.5	0.0025	0.01	5
ICP-MS	202	380	Hg		Mercury			mg/Liter	12.5	0.0013	0.005	1.3
ICP-MS	205	90	Tl		Thallium			mg/Liter	12.5	0.0038	0.015	2.5
ICP-MS	204	90	Pb		Lead			mg/Liter	12.5	0.0075	0.03	2.5
ICP-MS	232	90	Th		Thorium			mg/Liter	12.5	0.00063	0.0025	2.5
ICP-MS	238	90	U		Uranium			mg/Liter	12.5	0.0005	0.002	2.5

Notes: LMB = laboratory method blank, M and MD = sample matrix replicates

Notes: LCS = spiked laboratory method blank, MS and MSD = spiked sample matrix replicates

Notes: Au is spiked as sample prep surrogate, DF = Dilution Factor, MDL = Method Detection Limit,

Notes: PQL = Primary Quantitation Limit, MQL = Maximum Quantitation Limit,

Notes: &lt; = less than MDL, E = Estimated Value over MQL, J = Greater than MDL but less than PQL (4 x MDL)

Notes: n.a. = Not Applicable, Blank Space = Not Requested or Not Reported

Notes: \*\* (Total RCRA limits) are 20 times the TCLP extract limits because of sample size (100g) and extract volume (2000mL).

\*\*EPA SW846 Method 1311, Revision 0, July 1992, Section "If a total analysis of the waste demonstrates that individual analytes are not present in the waste, or that they are present but at such low concentrations that the appropriate regulatory levels could not possibly be exceeded, the TCLP need not be run."

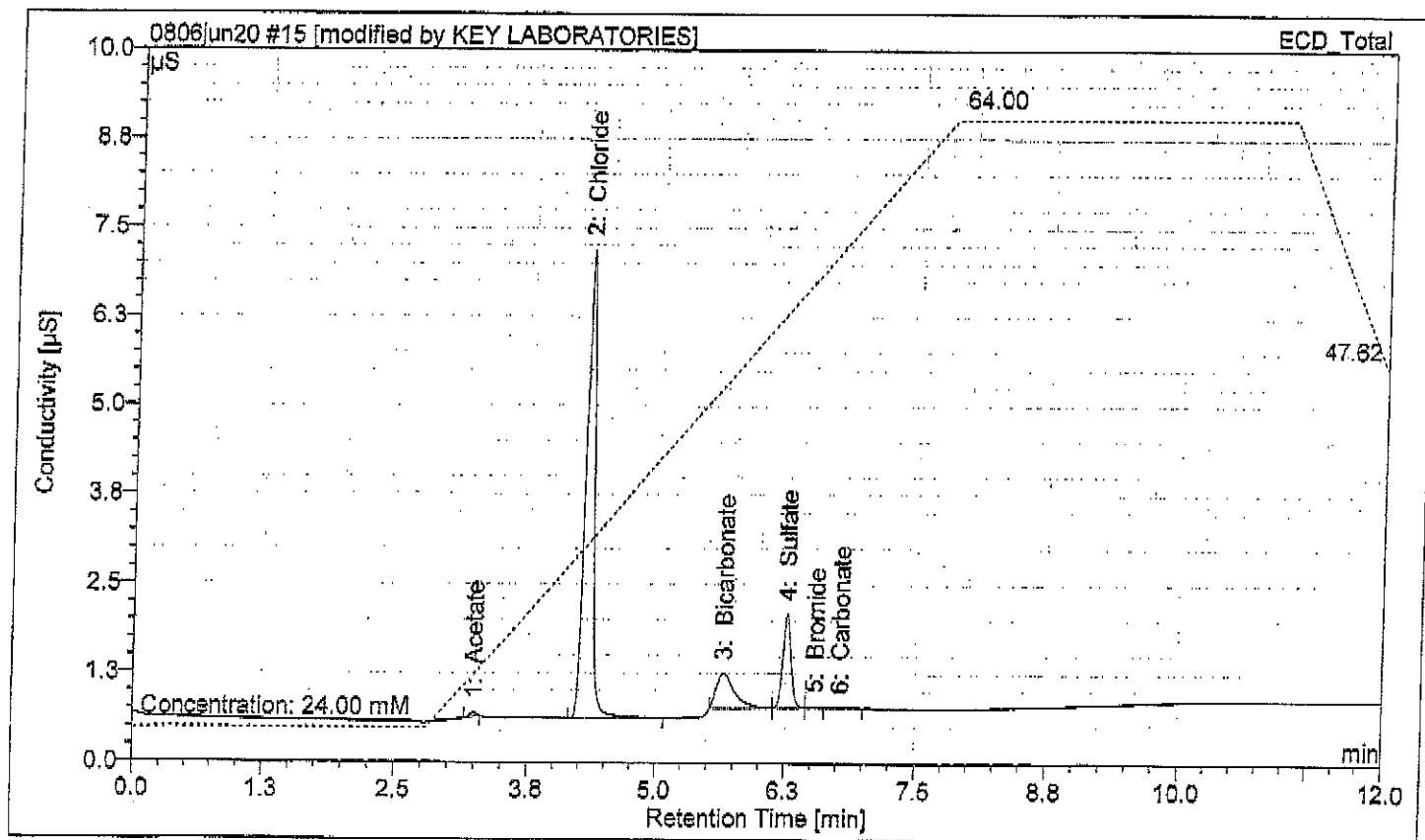
Analyst / Reviewer

6/23/08 Y

## Key Laboratories Anion Report

Sample Name:	0619-01, 08-1644, 50X, 0620081644,		Sample No.:	15
Sample ID:	water, 50Xdil, OXY,		LQL = Lower Quantitation Limit	
Sample Comments:	Project 061908		MQL = Maximum Quantitation Limit	
Sequence Directory:	ICS2000\Sequences\0806jun		E = Estimated, Value Exceeds MQL	
Sequence Name:	0806jun20		Raw = Dilution Factor not applied	
Program Method:	grad8AS18	Date:	6/23/08	Injection vol. [uL]: 25.0
Quantitation Method:	grad8AS18	Reviewer:	JS	Dilution Factor [DF]: 50.0000
Date Time Collected:	6/20/2008 9:36 PM		Sample Wt.: 1.0000	
System Operator:	KEY LABORATORIES		Sample Amt.: 1.0000	

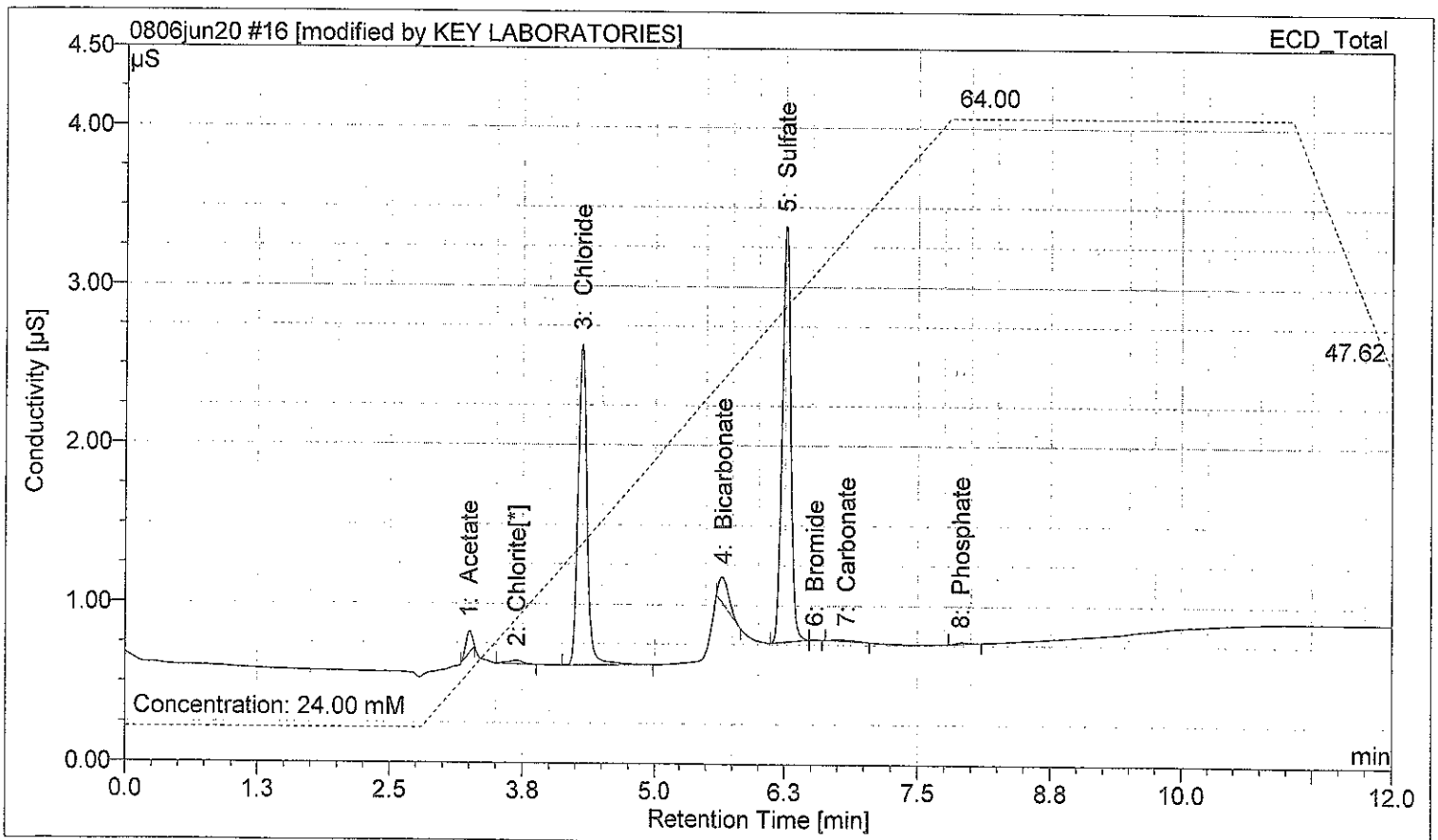
No.	Component	Retention	Area	Height	Raw LQL	Raw Amt	Pass QC	Amount	DF x LQL	DF x MQL
ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total		ECD_Total	ECD_Total	ECD_Total
	Name	Time	uS*min	uS	ppm	ppm	X = Pass	ppm	ppm	ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	0.0018	n.a.	X	n.a.	0.0905	1000.
2	Chloride	4.31	0.653	6.573	0.0524	2.1011	X	105.0566	2.5200	4000.
4	Sulfate	6.26	0.125	1.319	0.1780	0.5585	X	27.9257	8.9000	4000.



# Key Laboratories Anion Report

Sample Name:	0619-02, 08-1645, 50X, 0620081644,	Sample No.:	16
Sample ID:	water, 50Xdil, OXY,	LQL = Lower Quantitation Limit	
Sample Comments:	Project 061908	MQL = Maximum Quantitation Limit	
Sequence Directory:	ICS2000\Sequences\0806jun	E = Estimated, Value Exceeds MQL	
Sequence Name:	0806jun20	Raw = Dilution Factor not applied	
Program Method:	grad8AS18	Date:	6/23/08
Quantitation Method:	grad8AS18	Injection vol. [uL]:	25.0
Date Time Collected:	6/20/2008 9:52 PM	Dilution Factor [DF]:	50.0000
System Operator:	KEY LABORATORIES	Sample Wt.:	1.0000
		Sample Amt.:	1.0000

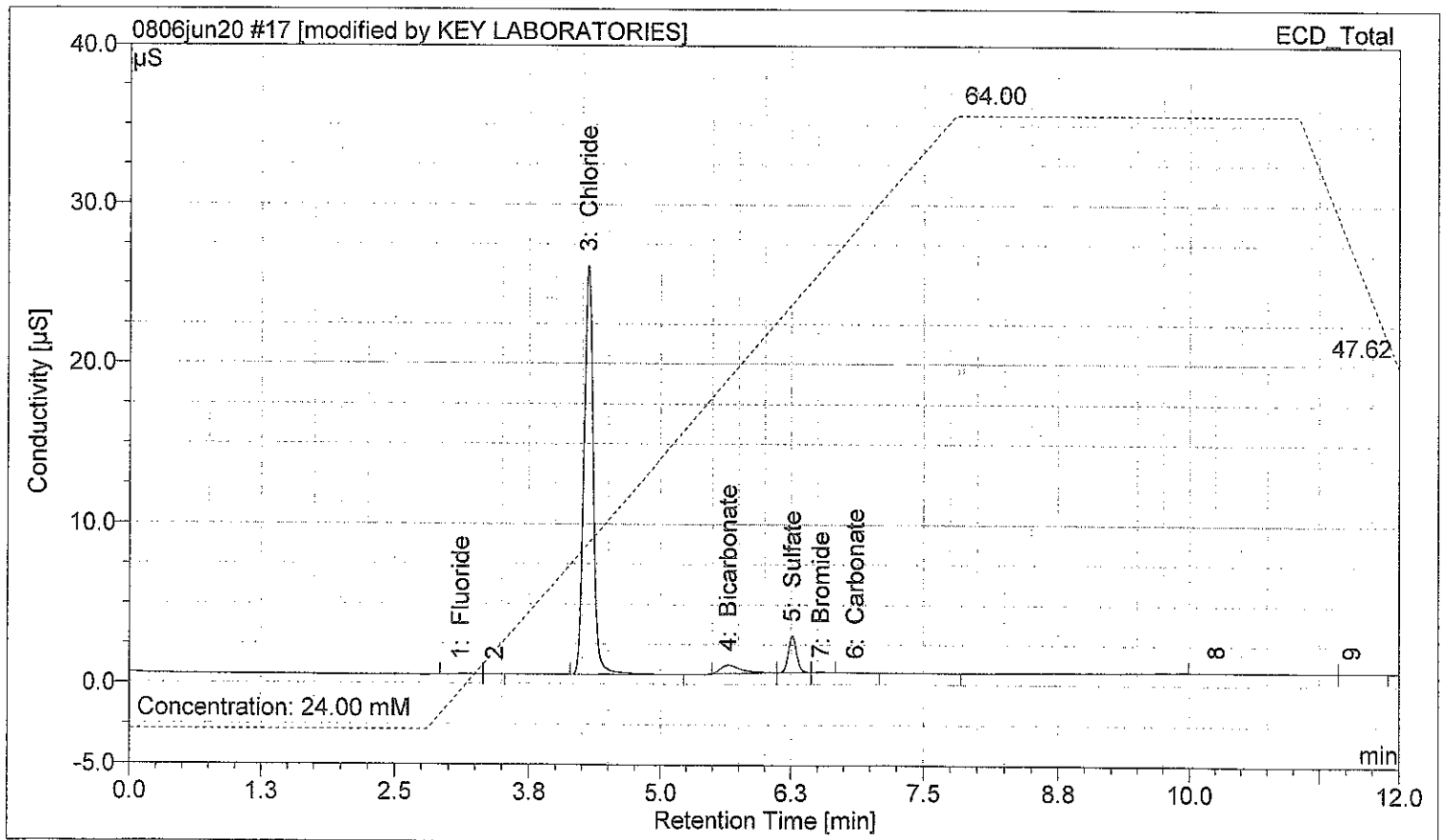
No.	Component	Retention	Area	Height	Raw LQL	Raw Amt	Pass QC	Amount	DF x LQL	DF x MQL
ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total		ECD_Total	ECD_Total	ECD_Total
	Name	Time	uS*min	uS	ppm	ppm	X = Pass	ppm	ppm	ppm
n.a.	Fluoride	n.a.	n.a.	n.a.	0.0018	n.a.	X	n.a.	0.0905	1000.
3	Chloride	4.31	0.198	2.018	0.0524	0.6383	X	31.9128	2.6200	4000.
5	Sulfate	6.26	0.246	2.612	0.1780	1.0995	X	54.9757	8.9000	4000.



# Key Laboratories Anion Report

<b>Sample Name:</b>	0619-03, 08-1646, 50X, 0620081644,		<b>Sample No.:</b>	17	
<b>Sample ID:</b>	water, 50Xdil, OXY,		<b>LQL = Lower Quantitation Limit</b>		
<b>Sample Comments:</b>	Project 061908		<b>MQL = Maximum Quantitation Limit</b>		
<b>Sequence Directory:</b>	ICS2000\Sequences\0806jun		<b>E = Estimated, Value Exceeds MQL</b>		
<b>Sequence Name:</b>	0806jun20		<b>Raw = Dilution Factor not applied</b>		
<b>Program Method:</b>	grad8AS18	<b>Date:</b>	6/23/08	<b>Injection vol. [uL]:</b>	25.0
<b>Quantitation Method:</b>	grad8AS18	<b>Reviewer:</b>	VS	<b>Dilution Factor [DF]:</b>	50.0000
<b>Date Time Collected:</b>	6/20/2008 10:07 PM			<b>Sample Wt.:</b>	1.0000
<b>System Operator:</b>	KEY LABORATORIES			<b>Sample Amt.:</b>	1.0000

No.	Component	Retention	Area	Height	Raw LQL	Raw Amt	Pass QC	Amount	DF x LQL	DF x MQL
ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total	ECD_Total		ECD_Total	ECD_Total	ECD_Total
	Name	Time	uS*min	uS	ppm	ppm	X = Pass	ppm	ppm	ppm
1	Fluoride	3.11	0.003	0.017	0.0018	0.0056	X	0.2803	0.0905	1000.
3	Chloride	4.31	2.620	25.555	0.0524	8.4159	X	420.7939	2.6200	4000.
5	Sulfate	6.26	0.214	2.273	0.1780	0.9532	X	47.6614	8.9000	4000.



**Key Laboratories, Inc.**

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

Client: Occidental Oil & GasClient Project Number: 61908KEY LAB #: 620081644  
Date Received: 6/20/2008

Sampling Date: 6/19/2008

Method:  
Technician: TESample Matrix: Water  
Sampler: Brett  
Custody Seal: NONE  
Preservatives: ICED

Date Analyzed: 6/20/2008 0:00

**pH SAMPLE RESULTS**

Client Sample Name	Lab Sample #	Instrument Result	Moisture	Factor	Final Results	Units
0619-01	08-1644	8.32		1	8.32	s.u.
0619-02	08-1645	7.26		1	7.26	s.u.
0619-03	08-1646	7.52		1	7.52	s.u.

**ALKALINITY SAMPLE RESULTS**

Client Sample Name	Lab Sample #	Instrument Result	Moisture	Factor	Final Results	Units
0619-01	08-1644	380		1	380	mg/L
0619-02	08-1645	282.5		1	282.5	mg/L
0619-03	08-1646	330		1	330	mg/L

**TOTAL DISSOLVED SOLIDS SAMPLE RESULTS**

Client Sample Name	Lab Sample #	Instrument Result	Moisture	Factor	Final Results	Units
0619-01	08-1644	0.0319		20000	638	mg/L
0619-02	08-1645	0.0281		20000	562	mg/L
0619-03	08-1646	0.0531		20000	1062	mg/L

QC Reviewer



**KEY LABORATORIES, INC.**

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

**8260 Analytical Report**

Client: Occidental Oil &amp; Gas

Client Project Name: 61908Lab QC Batch Sample: 08-1646, 0619-03Key Lab #: 08-0002Work Order #: 0101080000Date Received: 06/20/08Method: EPA SW846 3030/5035/8260Technician: KEYData File Name: 0201002.DDate Analyzed: 22 Jun 2008 8:32 pmData File Path: C:\MSDCHEM\1\DATA\0806JUN22\Lab Sample Information: 5uL #372Lab Sample Number: Blank, 08-0002, 0101080000Client Sample Number: BlankSampling Date: 6/19/2008

Sampling Time:

Sample Matrix: waterSampler: Brett

Reported=>> x		DF =		1									
CAS#	Type	Target Compounds	Audio	Resp	Amt	MDL	Units	DF	Final Cont	RDL	Dial	MOI	
75-71-8	M1	dichlorodifluoromethane	x	3687	0.07	2	ug	1.	<	2.		480	
74-87-3	MP1	chloromethane	x	2353	0.06	2	ug	1.	<	2.		480	
75-01-4	MC1	vinyl chloride	x	0	0.00	2	ug	1.	<	2.		480	
67-64-1	M1	acetone	x	63161	2.77	4	ug	1.	<	4.		480	
60-29-7	M1	diethyl ether	x	0	0.00	2	ug	1.	<	2.		480	
74-83-9	M1	bromomethane	x	0	0.00	2	ug	1.	<	2.		480	
75-00-3	M1	chloroethane	x	0	0.00	2	ug	1.	<	2.		480	
75-69-4	M1	trichlorofluoromethane	x	2875	0.04	1	ug	1.	<	1.		480	
75-35-4	MC1	1,1-dichloroethene	x	0	0.00	1	ug	1.	<	1.		480	
75-09-2	M1	methylene chloride	x	6943	0.21	1	ug	1.	<	1.		480	
76-13-1	M1	1,1,2-trichlorotrifluoroethane	x	0	0.00	1	ug	1.	<	1.		480	
107-03-1	M1	allyl chloride	x	5815	0.08	1	ug	1.	<	1.		480	
156-60-5	M1	trans 1,2-dichloroethene	x	0	0.00	1	ug	1.	<	1.		480	
1634-04-4	M1	[MTBE] tert-butylmethyl ether	x	0	0.00	1	ug	1.	<	1.		480	
75-34-3	MP1	1,1-dichloroethane	x	0	0.00	1	ug	1.	<	1.		480	
78-93-3	M1	[MEK] 2-butanone	x	0	0.00	4	ug	1.	<	4.		480	
156-39-4	M1	cis 1,2-dichloroethene	x	0	0.00	1	ug	1.	<	1.		480	
590-20-7	M1	2,2-dichloropropane	x	0	0.00	1	ug	1.	<	1.		480	
74-97-5	M1	bromochloromethane	x	0	0.00	1	ug	1.	<	1.		480	
67-66-3	MC1	chloroform (trichloromethane)	x	103862	1.46	1.5	ug	1.	<	1.5		480	
109-99-9	M1	tetrahydrofuran	x	31315	1.81	4	ug	1.	<	4.		480	
71-55-6	M1	1,1,1-trichloroethane	x	0	0.00	1	ug	1.	<	1.		480	
107-06-2	M1	1,2-dichloroethane	x	0	0.00	1	ug	1.	<	1.		480	
563-58-6	M1	1,1-dichloropropene	x	0	0.00	1	ug	1.	<	1.		480	
71-43-2	M1	benzene	x	20931	0.16	1	ug	1.	<	1.		480	
56-26-5	M1	carbon tetrachloride	x	0	0.00	1	ug	1.	<	1.		480	
79-01-6	M1	trichloroethene	x	0	0.00	1	ug	1.	<	1.		480	
78-87-5	MC1	1,2-dichloropropane	x	0	0.00	1	ug	1.	<	1.		480	
74-95-3	M1	dibromomethane	x	0	0.00	1	ug	1.	<	1.		480	
75-27-4	M1	bromodichloromethane	x	0	0.00	1	ug	1.	<	1.		480	
10061-01-5	M1	cis 1,3-dichloropropene	x	0	0.00	1	ug	1.	<	1.		480	
108-10-1	M1	[MIBK] 4-methyl-2-pentanone	x	0	0.00	1	ug	1.	<	1.		480	
108-88-3	MC1	toluene	x	32454	0.38	2	ug	1.	<	2.		480	
10061-02-6	M1	trans 1,3-dichloropropene	x	0	0.00	1	ug	1.	<	1.		480	
79-00-5	M1	1,1,2-trichloroethane	x	0	0.00	1	ug	1.	<	1.		480	
142-28-9	M2	1,3-dichloropropane	x	0	0.00	1.5	ug	1.	<	1.5		480	
124-48-1	M2	dibromochloromethane	x	0	0.00	1	ug	1.	<	1.		480	
127-18-4	M2	tetrachloroethene	x	0	0.00	1	ug	1.	<	1.		480	
106-93-4	M2	1,2-dibromoethane	x	0	0.00	1	ug	1.	<	1.		480	
108-90-7	MP2	chlorobenzene	x	1059	0.01	1	ug	1.	<	1.		480	
630-20-6	M2	1,1,1,2-tetrachloroethane	x	0	0.00	1	ug	1.	<	1.		480	
100-41-4	MC2	ethylbenzene	x	5334	0.03	1	ug	1.	<	1.		480	
	M2	m/p xylene	x	33846	0.28	1	ug	1.	<	1.		960	
100-42-5	M2	styrene	x	0	0.00	1	ug	1.	<	1.		480	
95-47-6	M2	o-xylene	x	15136	0.12	1	ug	1.	<	1.		480	
75-25-2	MP2	bromoform	x	0	0.00	1	ug	1.	<	1.		480	
79-34-5	MP2	1,1,2,2-tetrachloroethane	x	0	0.00	1	ug	1.	<	1.		480	
98-82-8	M2	isopropylbenzene	x	3179	0.02	1	ug	1.	<	1.		480	
95-18-4	M2	1,2,3-trichloropropane	x	0	0.00	1	ug	1.	<	1.		480	
108-86-1	M2	bromobenzene	x	0	0.00	1	ug	1.	<	1.		480	
95-49-8	M2	2-chlorotoluene	x	0	0.00	1	ug	1.	<	1.		480	
103-65-1	M2	n-propylbenzene	x	0	0.00	1	ug	1.	<	1.		480	



**KEY LABORATORIES, INC.**

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

**8260 Analytical Report**

Client: **Occidental Oil & Gas**  
Client Project Name: **61908**

Lab QC Batch Sample: **08-1646, 0619-03**  
Key Lab #: **08-0002**  
Work Order #: **0101080000**  
Date Received: **06/20/08**  
Method: **EPA SW846 5030/5035/8260**  
Technician: **KEY**  
Data File Name: **0201002.D**  
Date Analyzed: **22 Jun 2008 8:32 pm**  
Data File Path: **C:\MSDCHEM\DATA\0806JUN22\**  
Lab Sample Information: **5uL #372**  
Lab Sample Number: **Blank, 08-0002, 0101080000**

Client Sample Number: **Blank**  
Sampling Date: **6/19/2008**  
Sampling Time:  
Sample Matrix: **water**  
Sampler: **Brett**

Reported=>>			x	DF =			1					
CASE#	Type	Target Compounds	Audit	Resp.	Amr.	MDL	Units	DF	Final Conc.	RDL	Qual.	MDL
106-43-4	M2	4-chlorotoluene	x	0	0.00	1	ug	1.	<	1.		480
108-67-8	M2	1,3,5-trimethylbenzene	x	11043	0.09	1	ug	1.	<	1.		480
98-06-6	M2	tert-butylbenzene	x	3898	0.04	1	ug	1.	<	1.		480
95-63-6	M2	1,2,4-trimethylbenzene	x	18266	0.15	1	ug	1.	<	1.		480
96-12-8	M2	1,2-dibromo-3-chloropropane	x	0	0.00	1	ug	1.	<	1.		480
541-73-1	M3	1,3-dichlorobenzene	x	5051	0.08	1	ug	1.	<	1.		480
99-87-6	M3	p-isopropyltoluene	x	3365	0.03	1	ug	1.	<	1.		480
135-98-8	M3	sec-butylbenzene	x	6926	0.05	1	ug	1.	<	1.		480
106-46-7	M3	1,4-dichlorobenzene	x	6656	0.10	1	ug	1.	<	1.		480
95-50-1	M3	1,2-dichlorobenzene	x	4974	0.08	1	ug	1.	<	1.		480
104-51-8	M3	n-butylbenzene	x	3324	0.03	1	ug	1.	<	1.		480
87-61-6	M3	1,2,4-trichlorobenzene	x	6990	0.09	2	ug	1.	<	2.		480
87-68-3	M3	hexachlorobutadiene	x	3971	0.08	2	ug	1.	<	2.		480
91-20-3	M3	naphylene	x	22971	0.28	2	ug	1.	<	2.		480
120-82-1	M3	1,2,3-trichlorobenzene	x	7933	0.11	2	ug	1.	<	2.		480

CASE	Type	System Monitoring Compounds	Resp	Ampl	Area%	Units	Water	Units	Limit	50% Limit	Spike	%Rec	
1868-53-7	S1	di-bromofluoromethane	4894977	65.64	94	ug	5211326	65 -	135	50 -	150	69.9	93.9
17060-07-0	M1	1,2 dichloroethane-d4	2165497	70.37	101	ug	2150224	65 -	133	30 -	150	69.9	100.7
2037-26-5	S1	toluene-d8	5082390	68.01	96	ug	5285330	65 -	135	50 -	150	69.9	97.3
460-00-4	S2	4-bromofluorobenzene	4786767	65.68	87	ug	5531588	65 -	133	30 -	150	69.9	94.

CAS#	Type	Internal Standard Compounds	Resp.	Amnt	Area%	Units	Spike
462-06-6	I1	fluorobenzene	8474150	69.90	100	ug	8484018
3114-33-4	I2	chlorobenzene-d5	4617942	69.90	91	ug	5060990
3855-82-1	I3	1,4-dichlorobenzene-d4	3088453	69.90	79	ug	3894374

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst**

\_\_\_\_\_

**Approved**

\_\_\_\_\_

## KEY LABORATORIES, INC.

## 8260 Analytical Report

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

Client: Occidental Oil and Gas Corp

Client Project Name: Project #061908

Lab QC Batch Sample: 08-1646, 0619-03

Key Lab #: 08-1644

Work Order #: 0620081644

Date Received: 06/20/08

Method: EPA SW846 5030/5035/8260

Technician: KEY

Data File Name: 1200012.D

Date Analyzed: 23 Jun 2008 2:20 am

Data File Path: C:\MSDCHEM\DATA\0806JUN22\

Lab Sample Information: Water, 1xdl, Oxy, 605-01 W

Lab Sample Number: 0619-01, 08-1644, 0620081644

Client Sample Number: 0619-01

Sampling Date: 6/19/2008

Sampling Time: 14:30

Sample Matrix: Water

Sampler: Brett

Reported →		x	DF =		1			DF	Final Conc	RDE	Qual	MDL
CAS#	Type	Target Compounds	Andlt	Rep	Am't	MDL	Units	DF	Final Conc	RDE	Qual	MDL
75-71-8	M1	dichlorodifluoromethane	x	1590	0.04	2	ug	1.	<	2.		480
74-87-3	MP1	chloromethane	x	2684	0.07	2	ug	1.	<	2.		480
75-01-4	MC1	vinyl chloride	x	0	0.00	2	ug	1.	<	2.		480
67-64-1	M1	acetone	x	167804	8.37	4	ug	1.	8.4 ug/L	4.	J	480
60-29-7	M1	diethyl ether	x	0	0.00	2	ug	1.	<	2.		480
74-83-9	M1	bromomethane	x	0	0.00	2	ug	1.	<	2.		480
75-00-3	M1	chloroethane	x	0	0.00	2	ug	1.	<	2.		480
75-69-4	M1	trichlorofluoromethane	x	0	0.00	1	ug	1.	<	1.		480
75-35-4	MC1	1,1-dichloroethene	x	0	0.00	1	ug	1.	<	1.		480
75-09-2	M1	methylene chloride	x	4521	0.15	1	ug	1.	<	1.		480
76-13-1	M1	1,1,2-trichlorotrifluoroethane	x	0	0.00	1	ug	1.	<	1.		480
107-05-1	M1	allyl chloride	x	0	0.00	1	ug	1.	<	1.		480
156-60-5	M1	trans 1,2-dichloroethene	x	0	0.00	1	ug	1.	<	1.		480
1634-04-4	M1	[MTBE] tert-butylmethyl ether	x	0	0.00	1	ug	1.	<	1.		480
75-34-3	MP1	1,1-dichloroethane	x	0	0.00	1	ug	1.	<	1.		480
78-93-3	M1	[MEK] 2-butanone	x	26129	0.90	4	ug	1.	<	4.		480
156-59-4	M1	cis 1,2-dichloroethene	x	0	0.00	1	ug	1.	<	1.		480
590-20-7	M1	2,2-dichloropropane	x	0	0.00	1	ug	1.	<	1.		480
74-97-3	M1	bromochloromethane	x	0	0.00	1	ug	1.	<	1.		480
67-66-3	MC1	chloroform (trichloromethane)	x	0	0.00	1.5	ug	1.	<	1.5		480
109-99-9	M1	tetrahydrofuran	x	3256	0.21	4	ug	1.	<	4.		480
71-55-6	M1	1,1,1-trichloroethane	x	0	0.00	1	ug	1.	<	1.		480
107-06-2	M1	1,2-dichloroethane	x	0	0.00	1	ug	1.	<	1.		480
563-58-6	M1	1,1-dichloropropene	x	0	0.00	1	ug	1.	<	1.		480
71-43-2	M1	benzene	x	118883	1.02	1	ug	1.	1 ug/L	1.	J	480
56-26-5	M1	carbon tetrachloride	x	0	0.00	1	ug	1.	<	1.		480
79-01-6	M1	trichloroethane	x	7347	0.11	1	ug	1.	<	1.		480
78-87-5	MC1	1,2-dichloropropane	x	0	0.00	1	ug	1.	<	1.		480
74-95-3	M1	dibromomethane	x	0	0.00	1	ug	1.	<	1.		480
75-27-4	M1	bromodichloromethane	x	0	0.00	1	ug	1.	<	1.		480
10061-01-5	M1	cis 1,3-dichloropropene	x	0	0.00	1	ug	1.	<	1.		480
108-10-1	M1	[MIBK] 4-methyl-2-pentanone	x	0	0.00	1	ug	1.	<	1.		480
108-88-3	MC1	toluene	x	31516	0.42	2	ug	1.	<	2.		480
10061-02-6	M1	trans 1,3-dichloropropene	x	0	0.00	1	ug	1.	<	1.		480
79-00-5	M1	1,1,2-trichloroethane	x	9830	0.44	1	ug	1.	<	1.		480
142-28-9	M2	1,3-dichloropropane	x	0	0.00	1.5	ug	1.	<	1.5		480
124-48-1	M2	dibromochloromethane	x	0	0.00	1	ug	1.	<	1.		480
127-18-4	M2	tetrachloroethene	x	0	0.00	1	ug	1.	<	1.		480
106-93-4	M2	1,2-dibromoethane	x	0	0.00	1	ug	1.	<	1.		480
108-90-7	MP2	chlorobenzene	x	3991	0.05	1	ug	1.	<	1.		480
630-20-6	M2	1,1,1,2-tetrachloroethane	x	0	0.00	1	ug	1.	<	1.		480
100-41-4	MC2	ethylbenzene	x	9319	0.05	1	ug	1.	<	1.		480
	M2	m/p xylene	x	550714	5.40	1	ug	1.	5.4 ug/L	1.		960
100-42-5	M2	styrene	x	11998	0.16	1	ug	1.	<	1.		480
95-47-6	M2	o-xylene	x	460430	4.42	1	ug	1.	4.4 ug/L	1.		480
75-25-2	MP2	bromoform	x	0	0.00	1	ug	1.	<	1.		480
79-34-5	MP2	1,1,2,2-tetrachloroethane	x	1042	0.02	1	ug	1.	<	1.		480
98-82-8	M2	isopropylbenzene	x	1028	0.01	1	ug	1.	<	1.		480
96-18-4	M2	1,2,3-trichloropropane	x	0	0.00	1	ug	1.	<	1.		480
108-86-1	M2	bromobenzene	x	0	0.00	1	ug	1.	<	1.		480
95-49-8	M2	2-chlorotoluene	x	0	0.00	1	ug	1.	<	1.		480
103-65-1	M2	n-propylbenzene	x	0	0.00	1	ug	1.	<	1.		480

**KEY LABORATORIES, INC.**

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

**8260 Analytical Report**

Client: Occidental Oil and Gas Corp  
Client Project Name: Project #061908

Lab QC Batch Sample: 08-1646, 0619-03Key Lab #: 08-1644Work Order #: 0620081644Date Received: 06/20/08Method: EPA SW846 5030/5035/8260Technician: KEYData File Name: 1200012.DDate Analyzed: 23 Jun 2008 2:20 amData File Path: C:\MSDCHEM\DATA\0806JUN23\Lab Sample Information: Water, 1xdl, Oxy, 605-01 WLab Sample Number: 0619-01, 08-1644, 0620081644Client Sample Number: 0619-01Sampling Date: 6/19/2008Sampling Time: 14:30Sample Matrix: WaterSampler: Brett

Reported-->>			x	DF =			1					
CAS#	Type	Target Compounds	Accts	Resp	Amnt	MDL	Units	DF	Final Conc	RDL	Qual	MDL
106-43-4	M2	4-chlorotoluene	x	0	0.00	1	ug	1.	<	1.		480
108-67-8	M2	1,3,5-trimethylbenzene	x	3166152	30.98	1	ug	1.	31 ug/L	1.		480
98-06-6	M2	tert-butylbenzene	x	12658	0.14	1	ug	1.	<	1.		480
95-53-6	M2	1,2,4-trimethylbenzene	x	51171	0.50	1	ug	1.	<	1.		480
96-12-8	M2	1,2-dibromo-3-chloropropane	x	0	0.00	1	ug	1.	<	1.		480
541-73-1	M3	1,3-dichlorobenzene	x	2850	0.05	1	ug	1.	<	1.		480
99-87-6	M3	p-isopropyltoluene	x	248683	2.44	1	ug	1.	2.4 ug/L	1.	J	480
135-98-8	M3	sec-butylbenzene	x	1207	0.01	1	ug	1.	<	1.		480
106-46-7	M3	1,4-dichlorobenzene	x	2851	0.05	1	ug	1.	<	1.		480
95-50-1	M3	1,2-dichlorobenzene	x	0	0.00	1	ug	1.	<	1.		480
104-51-8	M3	n-butylbenzene	x	16889	0.17	1	ug	1.	<	1.		480
87-61-6	M3	1,2,4-trichlorobenzene	x	0	0.00	2	ug	1.	<	2.		480
87-68-3	M3	hexachlorobutadiene	x	0	0.00	2	ug	1.	<	2.		480
91-20-3	M3	naphthylene	x	87376	1.17	2	ug	1.	<	2.		480
120-82-1	M3	1,2,3-trichlorobenzene	x	0	0.00	2	ug	1.	<	2.		480

CAS#	Type	System Monitoring Compounds	Resp	Amnt	Area%	Units	Water	Limit	Limit	Sort	Units	% Rec
1868-53-7	S1	dibromofluoromethane	4427618	67.46	85	ug	5211320	65 -	135	50 -	150	69.9
17060-07-0	M1	1,2 dichloroethane-d4	1955514	72.20	91	ug	2150224	65 -	135	50 -	150	69.9
2037-26-5	S1	toluene-d8	4218615	64.14	80	ug	5285330	65 -	135	50 -	150	69.9
460-00-4	S2	4-bromofluorobenzene	4251188	69.14	77	ug	5531588	65 -	135	50 -	150	69.9

CAS#	Type	Internal Standard Compounds	Resp	Amnt	Area%	Units	Spike
462-06-6	I1	fluorobenzene	7458286	69.90	88	ug	8484018
3114-53-4	I2	chlorobenzene-d5	3893964	69.90	77	ug	5060990
3855-82-1	I3	1,4-dichlorobenzene-d4	2815765	69.90	72	ug	3894374

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst**

**Approved**


## KEY LABORATORIES, INC.

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

## 8260 Analytical Report

Client: Occidental Oil and Gas Corp

Client Project Name: Project #061908

Lab QC Batch Sample: 08-1646, 0619-03

Key Lab #: 08-1645

Work Order #: 0620081644

Date Received: 06/20/08

Method: EPA SW846 5030/5035/8260

Technician: KEY

Data File Name: 1300013.D

Date Analyzed: 23 Jun 2008 2:56 am

Data File Path: C:\MSDCHEM\DATA\0806JUN22\

Lab Sample Information: Water, 100xdl, Oxy, Source 2-Upstream

Lab Sample Number: 0619-02, 08-1645, 0620081644

Client Sample Number: 0619-02

Sampling Date: 6/19/2008

Sampling Time: 17:00

Sample Matrix: Water

Sampler: Brett

Revised

Reported=>> x			DF =		100							
CAS#	Type	Target Compound	Andlt	Resp	Amt	MDL	Units	DF	Final Conc	RDL	Qual	MDL
75-71-8	M1	dichlorodifluoromethane	x	1772	0.04	2	ug	100.	<	200.		48000
74-87-3	MPI	chloromethane	x	0	0.00	2	ug	100.	<	200.		48000
75-01-4	MC1	vinyl chloride	x	0	0.00	2	ug	100.	<	200.		48000
67-64-1	M1	acetone	x	81364	4.00	4	ug	100.	<	400.		48000
60-29-7	M1	diethyl ether	x	0	0.00	2	ug	100.	<	200.		48000
74-83-9	M1	bromomethane	x	1039	0.04	2	ug	100.	<	200.		48000
75-00-3	M1	chloroethane	x	0	0.00	2	ug	100.	<	200.		48000
75-69-4	M1	trichlorofluoromethane	x	0	0.00	1	ug	100.	<	100.		48000
75-35-4	MC1	1,1-dichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
75-09-2	M1	methylene chloride	x	5258	0.17	1	ug	100.	<	100.		48000
76-13-1	M1	1,1,2-trichlorotrifluoroethane	x	0	0.00	1	ug	100.	<	100.		48000
107-05-1	M1	allyl chloride	x	0	0.00	1	ug	100.	<	100.		48000
156-60-5	M1	trans 1,2-dichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
1634-04-4	M1	[MTBE] tert-butylmethyl ether	x	0	0.00	1	ug	100.	<	100.		48000
75-34-3	MPI	1,1-dichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
78-93-3	M1	[MEK] 2-butanone	x	0	0.00	4	ug	100.	<	400.		48000
156-59-4	M1	cis 1,2-dichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
590-20-7	M1	2,2-dichloropropane	x	0	0.00	1	ug	100.	<	100.		48000
74-97-5	M1	bromochloromethane	x	0	0.00	1	ug	100.	<	100.		48000
67-66-3	MC1	chloroform (trichloromethane)	x	75937	1.19	1.5	ug	100.	<	150.		48000
109-99-9	M1	tetrahydrofuran	x	19113	1.24	4	ug	100.	<	400.		48000
71-53-6	M1	1,1,1-trichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
107-06-2	M1	1,2-dichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
563-58-6	M1	1,1-dichloropropene	x	0	0.00	1	ug	100.	<	100.		48000
71-43-2	M1	benzene	x	1346667	11.36	1	ug	100.	1100 ug/L	100.		48000
56-26-5	M1	carbon tetrachloride	x	0	0.00	1	ug	100.	<	100.		48000
79-01-6	M1	trichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
78-87-5	MC1	1,2-dichloropropane	x	0	0.00	1	ug	100.	<	100.		48000
74-93-3	M1	dibromomethane	x	0	0.00	1	ug	100.	<	100.		48000
75-27-4	M1	bromodichloromethane	x	0	0.00	1	ug	100.	<	100.		48000
10061-01-5	M1	cis 1,3-dichloropropene	x	0	0.00	1	ug	100.	<	100.		48000
108-10-1	M1	[MIBK] 4-methyl-2-pentanone	x	0	0.00	1	ug	100.	<	100.		48000
106-88-3	MC1	toluene	x	7308913	96.16	2	ug	100.	9600 ug/L	200.		48000
10061-02-6	M1	trans 1,3-dichloropropene	x	0	0.00	1	ug	100.	<	100.		48000
79-00-5	M1	1,1,2-trichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
142-28-9	M2	1,3-dichloropropane	x	60303	1.46	1.5	ug	100.	<	150.		48000
124-48-1	M2	dibromochloromethane	x	0	0.00	1	ug	100.	<	100.		48000
127-18-4	M2	tetrachloroethene	x	0	0.00	1	ug	100.	<	100.		48000
106-93-4	M2	1,2-dibromoethane	x	0	0.00	1	ug	100.	<	100.		48000
106-90-7	MP2	chlorobenzene	x	0	0.00	1	ug	100.	<	100.		48000
630-20-6	M2	1,1,1,2-tetrachloroethane	x	0	0.00	1	ug	100.	<	100.		48000
100-41-4	MC2	ethylbenzene	x	321015	1.78	1	ug	100.	180 ug/L	100.		48000
	M2	m/p xylene	x	9484449	87.31	1	ug	100.	8700 ug/L	100.		96000
100-42-3	M2	styrene	x	30237	0.38	1	ug	100.	<	100.		48000
95-47-6	M2	o-xylene	x	1566359	14.11	1	ug	100.	1400 ug/L	100.		48000
75-25-2	MP2	bromoform	x	0	0.00	1	ug	100.	<	100.		48000
79-34-5	MP2	1,1,2,2-tetrachloroethane	x	0	0.00	1	ug	100.	<	100.		48000
98-82-8	M2	isopropylbenzene	x	23116	0.17	1	ug	100.	<	100.		48000
96-18-4	M2	1,2,3-trichloropropane	x	0	0.00	1	ug	100.	<	100.		48000
106-86-1	M2	bromobenzene	x	0	0.00	1	ug	100.	<	100.		48000
93-49-8	M2	2-chlorotoluene	x	0	0.00	1	ug	100.	<	100.		48000
103-65-1	M2	n-propylbenzene	x	2373	0.07	1	ug	100.	<	100.		48000

## KEY LABORATORIES, INC.

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

## 8260 Analytical Report

Client : Occidental Oil and Gas Corp  
Client Project Name : Project #061908

Lab QC Batch Sample : 08-1646, 0619-03  
Key Lab # : 08-1645  
Work Order # : 0620081644  
Date Received : 06/20/08  
Method : EPA SW846 5030/5035/8260  
Technician : KEY  
Data File Name : 1300013.D  
Date Analyzed : 23 Jun 2008 2:56 am  
Data File Path : C:\MSDCHEM\DATA\0806JUN22\  
Lab Sample Information : Water, 100xdl, Oxy, Source 2-Upstream  
Lab Sample Number : 0619-02, 08-1645, 0620081644

Client Sample Number : 0619-02

Sampling Date : 6/19/2008

Sampling Time : 17:00

Sample Matrix : Water

Sampler : Brett

*Preliminary*

Reported=>>> x					DF =		100					
CASH	Type	Target Compounds	Audit	Resp.	Amt.	MDL	Units	DF	Final Conc	RDL	Qual	MDL
75-71-8	M1	dichlorodifluoromethane	x	1772	0.04	2	ug	100.	<	200.		48000
74-87-3	MP1	chloromethane	x	0	0.00	2	ug	100.	<	200.		48000
75-01-4	MC1	vinyl chloride	x	0	0.00	2	ug	100.	<	200.		48000
67-64-1	M1	acetone	x	81364	4.00	4	ug	100.	<	400.		48000
60-29-7	M1	diethyl ether	x	0	0.00	2	ug	100.	<	200.		48000
74-83-9	M1	bromomethane	x	1059	0.04	2	ug	100.	<	200.		48000
75-00-3	M1	chloroethane	x	0	0.00	2	ug	100.	<	200.		48000
75-69-4	M1	trichlorofluoromethane	x	0	0.00	1	ug	100.	<	100.		48000
75-35-4	MC1	1,1-dichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
75-09-2	M1	methylene chloride	x	5258	0.17	1	ug	100.	<	100.		48000
76-13-1	M1	1,1,2-trichlorotrifluoroethane	x	0	0.00	1	ug	100.	<	100.		48000
107-05-1	M1	allyl chloride	x	0	0.00	1	ug	100.	<	100.		48000
156-60-5	M1	trans 1,2-dichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
1634-04-4	M1	[MTBE] tert-butylmethyl ether	x	0	0.00	1	ug	100.	<	100.		48000
75-34-3	MP1	1,1-dichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
78-93-3	M1	[MEK] 2-butanone	x	0	0.00	4	ug	100.	<	400.		48000
156-59-4	M1	cis 1,2-dichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
590-20-7	M1	2,2-dichloropropane	x	0	0.00	1	ug	100.	<	100.		48000
74-97-5	M1	bromochloromethane	x	0	0.00	1	ug	100.	<	100.		48000
67-66-3	MC1	chloroform (trichloromethane)	x	75937	1.19	1	ug	100.	120 ug/L	100.	J	48000
109-99-9	M1	tetrahydrofuran	x	19113	1.24	4	ug	100.	<	400.		48000
71-55-6	M1	1,1,1-trichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
107-06-2	M1	1,2 dichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
563-58-6	M1	1,1-dichloropropene	x	0	0.00	1	ug	100.	<	100.		48000
71-43-2	M1	benzene	x	1346667	11.36	1	ug	100.	1100 ug/L	100.		48000
56-26-5	M1	carbon tetrachloride	x	0	0.00	1	ug	100.	<	100.		48000
79-01-6	M1	trichloroethene	x	0	0.00	1	ug	100.	<	100.		48000
78-87-5	MC1	1,2-dichloropropane	x	0	0.00	1	ug	100.	<	100.		48000
74-95-3	M1	dibromomethane	x	0	0.00	1	ug	100.	<	100.		48000
75-27-4	M1	bromodichloromethane	x	0	0.00	1	ug	100.	<	100.		48000
10061-01-5	M1	cis 1,3-dichloropropene	x	0	0.00	1	ug	100.	<	100.		48000
108-10-1	M1	[MIBK] 4-methyl-2-pentanone	x	0	0.00	1	ug	100.	<	100.		48000
108-88-3	MC1	toluene	x	7308913	96.16	2	ug	100.	9600 ug/L	200.		48000
10061-02-6	M1	trans 1,3-dichloropropene	x	0	0.00	1	ug	100.	<	100.		48000
79-00-5	M1	1,1,2-trichloroethane	x	0	0.00	1	ug	100.	<	100.		48000
142-28-9	M2	1,3-dichloropropane	x	60303	1.46	1	ug	100.	150 ug/L	100.	J	48000
124-48-1	M2	dibromochloromethane	x	0	0.00	1	ug	100.	<	100.		48000
127-18-4	M2	tetrachloroethene	x	0	0.00	1	ug	100.	<	100.		48000
106-93-4	M2	1,2-dibromoethane	x	0	0.00	1	ug	100.	<	100.		48000
108-90-7	MP2	chlorobenzene	x	0	0.00	1	ug	100.	<	100.		48000
630-20-6	M2	1,1,1,2-tetrachloroethane	x	0	0.00	1	ug	100.	<	100.		48000
100-41-4	MC2	ethylbenzene	x	321015	1.78	1	ug	100.	180 ug/L	100.	J	48000
	M2	m/p xylene	x	9484449	87.31	1	ug	100.	8700 ug/L	100.		96000
100-42-5	M2	styrene	x	30237	0.38	1	ug	100.	<	100.		48000
95-47-6	M2	o-xylene	x	1566359	14.11	1	ug	100.	1400 ug/L	100.		48000
75-25-2	MP2	bromoform	x	0	0.00	1	ug	100.	<	100.		48000
79-34-5	MP2	1,1,2,2-tetrachloroethane	x	0	0.00	1	ug	100.	<	100.		48000
98-82-8	M2	isopropylbenzene	x	23116	0.17	1	ug	100.	<	100.		48000
96-18-4	M2	1,2,3-trichloropropane	x	0	0.00	1	ug	100.	<	100.		48000
108-86-1	M2	bromobenzene	x	0	0.00	1	ug	100.	<	100.		48000
95-49-8	M2	2-chlorotoluene	x	0	0.00	1	ug	100.	<	100.		48000
103-65-1	M2	n-propylbenzene	x	2373	0.07	1	ug	100.	<	100.		48000

# KEY LABORATORIES, INC.

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

## 8260 Analytical Report

Client : **Occidental Oil and Gas Corp**  
Client Project Name : **Project #061908**

Lab QC Batch Sample : **08-1646, 0619-03**  
Key Lab # : **08-1645**  
Work Order # : **0620081644**  
Date Received : **06/20/08**  
Method : **EPA SW846 5030/5035/8260**  
Technician : **KEY**  
Data File Name : **1300013.D**  
Date Analyzed : **23 Jun 2008 2:56 am**  
Data File Path : **C:\MSDCHEM\DATA\ 0806JUN22\**  
Lab Sample Information : **Water, 100xdil, Oxy, Source 2-Upstream**  
Lab Sample Number : **0619-02, 08-1645, 0620081644,**

Client Sample Number : **0619-02**  
Sampling Date : **6/19/2008**  
Sampling Time : **17:00**  
Sample Matrix : **Water**  
Sampler : **Brett**

Reported=>> x				DF =		100						
CAS#	Type	Target Compounds	Audit	Resp.	Amt.	MDL	Units	DF	Final Conc	RDL	Qual	MDL
106-43-4	M2	4-chlorotoluene	x	0	0.00	1	ug	100.	<	100.		48000
108-67-8	M2	1,3,5-trimethylbenzene	x	527673	4.85	1	ug	100.	480 ug/L	100.		48000
98-06-6	M2	tert-butylbenzene	x	0	0.00	1	ug	100.	<	100.		48000
95-63-6	M2	1,2,4-trimethylbenzene	x	579923	5.35	1	ug	100.	540 ug/L	100.		48000
96-12-8	M2	1,2-dibromo-3-chloropropane	x	0	0.00	1	ug	100.	<	100.		48000
541-73-1	M3	1,3-dichlorobenzene	x	0	0.00	1	ug	100.	<	100.		48000
99-87-6	M3	p-isopropyltoluene	x	12760	0.13	1	ug	100.	<	100.		48000
135-98-8	M3	sec-butylbenzene	x	6929	0.05	1	ug	100.	<	100.		48000
106-46-7	M3	1,4-dichlorobenzene	x	2634	0.05	1	ug	100.	<	100.		48000
95-50-1	M3	1,2-dichlorobenzene	x	0	0.00	1	ug	100.	<	100.		48000
104-51-8	M3	n-butylbenzene	x	5790	0.06	1	ug	100.	<	100.		48000
87-61-6	M3	1,2,4-trichlorobenzene	x	0	0.00	2	ug	100.	<	200.		48000
87-68-3	M3	hexachlorobutadiene	x	0	0.00	2	ug	100.	<	200.		48000
91-20-3	M3	naphthylene	x	31895	0.43	2	ug	100.	<	200.		48000
120-82-1	M3	1,2,3-trichlorobenzene	x	0	0.00	2	ug	100.	<	200.		48000

CAS#	Type	System Monitoring Compounds	Resp.	Amt.	Area%	Units	Water Limits	Soil Limits	Spike	%Rec	
1868-53-7	S1	dibromofluoromethane	4450574	66.75	85	ug	5211326	65 - 135	50 - 150	69.9	95.5
17060-07-0	M1	1,2 dichloroethane-d4	1989817	72.32	93	ug	2150224	65 - 135	50 - 150	69.9	103.5
2037-26-5	S1	toluene-d8	4526053	67.74	86	ug	5285330	65 - 135	50 - 150	69.9	96.9
460-00-4	S2	4-bromofluorobenzene	4392961	67.08	79	ug	5531588	65 - 135	50 - 150	69.9	96.

CAS#	Type	Internal Standard Compounds	Resp.	Amt.	Area%	Units	Spike
462-06-6	I1	fluorbenzene	7576647	69.90	89	ug	8484018
3114-55-4	I2	chlorobenzene-d5	4149290	69.90	82	ug	5060990
3855-82-1	I3	1,4-dichlorobenzene-d4	2801776	69.90	72	ug	3894374

MDL = Method Detection Limit  
PQL = Practical Quantitation Limit = 4 x MDL  
RDL = Reporting Detection Limit = MDL x Dilution Factor  
MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL < Result < PQL  
E qualifier = Estimated Result > Highest Calibration Standard

Analyst

Approved



## KEY LABORATORIES, INC.

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

## 8260 Analytical Report

Client : Occidental Oil and Gas Corp  
Client Project Name : Project #061908

Lab QC Batch Sample : 08-1646, 0619-03Client Sample Number : 0619-03

Key Lab # : 08-1646

Work Order # : 0620081644

Sampling Date : 6/19/2008

Date Received : 06/20/08

Sampling Time : 17:41

Method : EPA SW846 5030/5035/8260

Sample Matrix : Water

Technician : KEY

Sampler : Brett

Data File Name: 0900008.D

Date Analyzed : 23 Jun 2008 6:29 pm

Data File Path : C:\MSDCHEM\DATA\ 0806JUN23\

Lab Sample Information : Water, 10xdl, Oxy, Sump

Lab Sample Number : 0619-03, 08-1646, M, 0620081644

Reported=>> x				DF =		10						
CAS#	Type	Target Compounds	Audit	Resp.	Amt.	MDL	Units	DF	Final Conc	RDL	Qual	MDL
75-71-8	M1	dichlorodifluoromethane	x	0	0.00	2	ug	10.	<	20.		4800
74-87-3	MP1	chloromethane	x	2543	0.07	2	ug	10.	<	20.		4800
75-01-4	MC1	vinyl chloride	x	0	0.00	2	ug	10.	<	20.		4800
67-64-1	M1	acetone	x	101374	4.89	4.3	ug	10.	49 ug/L	43.	J	4800
60-29-7	M1	diethyl ether	x	0	0.00	2	ug	10.	<	20.		4800
74-83-9	M1	bromomethane	x	1413	0.06	2	ug	10.	<	20.		4800
75-00-3	M1	chloroethane	x	0	0.00	2	ug	10.	<	20.		4800
75-69-4	M1	trichlorofluoromethane	x	0	0.00	1	ug	10.	<	10.		4800
75-35-4	MC1	1,1-dichloroethene	x	0	0.00	1	ug	10.	<	10.		4800
75-09-2	M1	methylene chloride	x	5129	0.17	1	ug	10.	<	10.		4800
76-13-1	M1	1,1,2-trichlorotrifluoroethane	x	0	0.00	1	ug	10.	<	10.		4800
107-05-1	M1	allyl chloride	x	0	0.00	1	ug	10.	<	10.		4800
156-60-5	M1	trans 1,2-dichloroethene	x	0	0.00	1	ug	10.	<	10.		4800
1634-04-4	M1	[MTBE] tert-butylmethyl ether	x	0	0.00	1	ug	10.	<	10.		4800
75-34-3	MP1	1,1-dichloroethane	x	0	0.00	1	ug	10.	<	10.		4800
78-93-3	M1	[MEK] 2-butanone	x	0	0.00	4	ug	10.	<	40.		4800
156-59-4	M1	cis 1,2-dichloroethene	x	0	0.00	1	ug	10.	<	10.		4800
590-20-7	M1	2,2-dichloropropane	x	0	0.00	1	ug	10.	<	10.		4800
74-97-5	M1	bromochloromethane	x	0	0.00	1	ug	10.	<	10.		4800
67-66-3	MC1	chloroform (trichloromethane)	x	1195	0.02	1.5	ug	10.	<	15.		4800
109-99-9	M1	tetrahydrofuran	x	14475	0.92	4.55	ug	10.	<	45.5		4800
71-55-6	M1	1,1,1-trichloroethane	x	0	0.00	1	ug	10.	<	10.		4800
107-06-2	M1	1,2 dichloroethane	x	1058	0.02	1	ug	10.	<	10.		4800
563-58-6	M1	1,1-dichloropropene	x	0	0.00	1	ug	10.	<	10.		4800
71-43-2	M1	benzene	x	16494586	136.74	1	ug	10.	1400 ug/L	10.		4800
56-26-5	M1	carbon tetrachloride	x	0	0.00	1	ug	10.	<	10.		4800
79-01-6	M1	trichloroethene	x	1174	0.02	1	ug	10.	<	10.		4800
78-87-5	MC1	1,2-dichloropropane	x	0	0.00	1	ug	10.	<	10.		4800
74-95-3	M1	dibromomethane	x	0	0.00	1	ug	10.	<	10.		4800
75-27-4	M1	bromodichloromethane	x	0	0.00	1	ug	10.	<	10.		4800
10061-01-5	M1	cis 1,3-dichloropropene	x	0	0.00	1	ug	10.	<	10.		4800
108-10-1	M1	[MIBK] 4-methyl-2-pentanone	x	0	0.00	1	ug	10.	<	10.		4800
108-88-3	MC1	toluene	x	23550541	304.50	2	ug	10.	3000 ug/L	20.		4800
10061-02-6	M1	trans 1,3-dichloropropene	x	0	0.00	1	ug	10.	<	10.		4800
79-00-5	M1	1,1,2-trichloroethane	x	0	0.00	1	ug	10.	<	10.		4800
142-28-9	M2	1,3-dichloropropane	x	181959	4.22	1	ug	10.	42 ug/L	10.		4800
124-48-1	M2	dibromochloromethane	x	0	0.00	1	ug	10.	<	10.		4800
127-18-4	M2	tetrachloroethene	x	0	0.00	1	ug	10.	<	10.		4800
106-93-4	M2	1,2-dibromoethane	x	0	0.00	1	ug	10.	<	10.		4800
108-90-7	MP2	chlorobenzene	x	0	0.00	1	ug	10.	<	10.		4800
630-20-6	M2	1,1,1,2-tetrachloroethane	x	0	0.00	1	ug	10.	<	10.		4800
100-41-4	MC2	ethylbenzene	x	880557	4.68	1	ug	10.	47 ug/L	10.		4800
	M2	m/p xylene	x	30156255	266.59	1	ug	10.	2700 ug/L	10.		9600
100-42-5	M2	styrene	x	118252	1.43	1	ug	10.	14 ug/L	10.	J	4800
95-47-6	M2	o-xylene	x	5139301	44.47	1	ug	10.	440 ug/L	10.		4800
75-25-2	MP2	bromoform	x	0	0.00	1	ug	10.	<	10.		4800
79-34-5	MP2	1,1,2,2-tetrachloroethane	x	0	0.00	1	ug	10.	<	10.		4800
98-82-8	M2	isopropylbenzene	x	23583	0.17	1	ug	10.	<	10.		4800
96-18-4	M2	1,2,3-trichloropropane	x	0	0.00	1	ug	10.	<	10.		4800
108-86-1	M2	bromobenzene	x	0	0.00	1	ug	10.	<	10.		4800
95-49-8	M2	2-chlorotoluene	x	0	0.00	1	ug	10.	<	10.		4800
103-65-1	M2	n-propylbenzene	x	0	0.00	1	ug	10.	<	10.		4800

# KEY LABORATORIES, INC.

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

## 8260 Analytical Report

Client: **Occidental Oil and Gas Corp**  
Client Project Name: **Project #061908**

Lab QC Batch Sample: **08-1646, 0619-03**  
Key Lab #: **08-1646**  
Work Order #: **0620081644**  
Date Received: **06/20/08**  
Method: **EPA SW846 5030/5035/8260**  
Technician: **KEY**  
Data File Name: **0900008.D**  
Date Analyzed: **23 Jun 2008 6:29 pm**  
Data File Path: **C:\MSDCHEM\1\DATA\ 0806JUN23\**  
Lab Sample Information: **Water, 10x dil, Oxy, Sump**  
Lab Sample Number: **0619-03, 08-1646, M, 0620081644**

Client Sample Number: **0619-03**  
Sampling Date: **6/19/2008**  
Sampling Time: **17:41**  
Sample Matrix: **Water**  
Sampler: **Brett**

Reported=>> x			DF =		10									
CAS#	Type	Target Compounds	Audit	Resp.	Amt.	MDL	Units	DF	Final Conc	RDL	Qual	MDL		
106-43-4	M2	4-chlorotoluene	x	0	0.00	1	ug	10.	<	10.		4800		
108-67-8	M2	1,3,5-trimethylbenzene	x	1577760	13.92	1	ug	10.	140 ug/L	10.		4800		
98-06-6	M2	tert-butylbenzene	x	11991	0.12	1	ug	10.	<	10.		4800		
95-63-6	M2	1,2,4-trimethylbenzene	x	1748833	15.50	1	ug	10.	160 ug/L	10.		4800		
96-12-8	M2	1,2-dibromo-3-chloropropane	x	21472	3.12	1	ug	10.	31 ug/L	10.	J	4800		
541-73-1	M3	1,3-dichlorobenzene	x	7345	0.12	1	ug	10.	<	10.		4800		
99-87-6	M3	p-isopropyltoluene	x	23087	0.21	1	ug	10.	<	10.		4800		
135-98-8	M3	sec-butylbenzene	x	11586	0.08	1	ug	10.	<	10.		4800		
106-46-7	M3	1,4-dichlorobenzene	x	7350	0.11	1	ug	10.	<	10.		4800		
95-50-1	M3	1,2-dichlorobenzene	x	6687	0.11	1	ug	10.	<	10.		4800		
104-51-8	M3	n-butylbenzene	x	3833	0.04	1	ug	10.	<	10.		4800		
87-61-6	M3	1,2,4-trichlorobenzene	x	4637	0.06	2	ug	10.	<	20.		4800		
87-68-3	M3	hexachlorobutadiene	x	0	0.00	2	ug	10.	<	20.		4800		
91-20-3	M3	naphthylene	x	170862	2.08	2	ug	10.	21 ug/L	20.	J	4800		
120-82-1	M3	1,2,3-trichlorobenzene	x	3050	0.04	2	ug	10.	<	20.		4800		

CAS#	Type	System Monitoring Compounds	Resp.	Amt.	Area%	Units		Water Limits	r Limits	Soil Limits	Spike	%Rec	
1868-53-7	S1	dibromofluoromethane	4567339	67.33	88	ug	5211326	65 -	135 -	50 -	150	69.9	96.3
17060-07-0	M1	1,2 dichloroethane-d4	1945957	69.51	91	ug	2150224	65 -	135 -	50 -	150	69.9	99.4
2037-26-5	S1	toluene-d8	4698771	69.11	89	ug	5285330	65 -	135 -	50 -	150	69.9	98.9
460-00-4	S2	4-bromofluorobenzene	4761949	69.83	86	ug	5531588	65 -	135 -	50 -	150	69.9	99.9

CAS#	Type	Internal Standard Compounds	Resp.	Amt.	Area%	Units	Spike
462-06-6	I1	fluorobenzene	7709490	69.90	91	ug	8484018
3114-55-4	I2	chlorobenzene-d5	4321029	69.90	85	ug	5060990
3855-82-1	I3	1,4-dichlorobenzene-d4	3094796	69.90	79	ug	3894374

MDL = Method Detection Limit  
PQL = Practical Quantitation Limit = 4 x MDL  
RDL = Reporting Detection Limit = MDL x Dilution Factor  
MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL < Result < PQL  
E qualifier = Estimated Result > Highest Calibration Standard

Analyst

Approved

**KEY LABORATORIES, INC.**

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

**BTEX Analytical Report**

Client: **Occidental Oil and Gas Corp**  
Client Project Name: **Project #061908**

**Lab QC Batch Sample:**

Key Lab #: 08-1644  
Work Order #: 0620081644  
Date Received: 06/20/08  
Method: EPA SW846 5030/5035/8260  
Technician: KEY  
Data File Name: 1200012.D  
Date Analyzed: 23 Jun 2008 2:20 am  
Data File Path: C:\MSDCHEM\DATA\0806jun22\

Client Sample Number: **0619-01**

Sampling Date: 6/19/2008  
Sampling Time: 14:30  
Sample Matrix: Water  
Sampler: Brett

Lab Sample Information: Water, 1xdl, Oxy, 605-01 W

Lab Sample Number: **0619-01, 08-1644, 0620081644,**

Reported=>> x			Sample vol/wt = 5				DF = 1							
CASE#	Type	Target Compounds	Addit	Resp.	Amt.	MDL	Units	DF	Final Conc	RDL	Qual	MQL	Spike	%REC
H1		Gasoline [TVH]	x	61647531	501.96	150	ug	1.	0.5 mg/L	.15	J			
1634-04-4 M1		MTBE				0.25	ug						40	
71-43-2 M1		Benzene				0.33	ug							
108-88-3 MC1		Toluene				0.57	ug							
100-41-4 MC2		Ethylbenzene				0.27	ug							
		XYLENES (Total)				0.47	ug							
91-20-3 M3		Napthylene				2	ug							

CASE#	Type	Target Compounds	Audit	Resp	Amt	MDL	Units	DF	Final Conc	RDL	Qual	MQL
M2		M/P Xylene				1.1	ug					
95-47-6 M2		O-Xylene				0.47	ug					
108-67-8 M2		1,3,5-Trimethylbenzene				0.65	ug					
95-63-6 M2		1,2,4-Trimethylbenzene				1.18	ug					
		Gasoline (TVH) Subtraction Blank =			0							

CASE#	Type	System Monitoring Compounds	Resp	Amt	Area%	Units	Init Resp	Water Limits	Soil Limits	Spike	%Rec
1868-53-7 S1		Dibromofluoromethane	4407103	67.11	84	ug	5231036	86 - 118	80 - 120	69.9	96.
17060-07-0 S1		1,2-Dichloroethane-d4	1284713	72.25	90	ug	1430228	80 - 120	80 - 120	69.9	103.4
2037-26-5 S1		Toluene-d8	6473919	63.95	80	ug	8065379	88 - 110	81 - 117	69.9	91.5
460-00-4 S2		4-Bromofluorobenzene	4254343	64.47	76	ug	5570042	86 - 115	74 - 121	69.9	92.2

CASE#	Type	Internal Standard Compounds	Resp	Amt	Area%	Units	Init Resp	ISS Conc
462-06-6 I1		fluorbenzene	7458171	69.90	87	ug	8524463	69.9
3114-55-4 I2		Chlorobenzene-d5	3905576	69.90	78	ug	4992879	69.9
3855-82-1 I3		1,4-Dichlorobenzene-d4	2823795	69.90	74	ug	3830181	69.9

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst****Approved**

**KEY LABORATORIES, INC.**

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

**BTEX Analytical Report**

Client : Occidental Oil and Gas Corp

Client Project Name : Project #061908

Lab QC Batch Sample :

Key Lab # : 08-1645

Work Order # : 0620081644

Date Received : 06/20/08

Method : EPA SW846 5030/5035/8260

Technician : KEY

Data File Name : 1300013.D

Date Analyzed : 23 Jun 2008 2:56 am

Data File Path : C:\MSDCHEM\1\DATA\0806jun22\

Lab Sample Information : Water, 100x dil, Oxy, Source 2-Upstream

Lab Sample Number : 0619-02, 08-1645, 0620081644Client Sample Number : 0619-02

Sampling Date : 6/19/2008

Sampling Time : 17:00

Sample Matrix : Water

Sampler : Brett

Sample vol/wt = 5  
DF = 100

CAS#	Type	Target Compounds	Audit	Resp.	Amt.	MDL	Units	DF	Final Conc.	RDL	Qual	MOE	Spike	%Rec
H1		Gasoline (TVH)	x	19472576	156.30	150	ug	100.	16 mg/L	15.	J	4000		
1634-04-4	M1	MTBE				0.25	ug							
71-43-2	M1	Benzene				0.33	ug							
108-88-3	MC1	Toluene				0.57	ug							
100-41-4	MC2	Ethylbenzene				0.27	ug							
		XYLENES (Total)				0.47	ug							
91-20-3	M3	Napthylene				2	ug							

CAS#	Type	Target Compounds	Audit	Resp.	Amt.	MDL	Units	DF	Final Conc.	RDL	Qual	MOE
M2		M/P Xylene				1.1	ug					
95-47-6	M2	O-Xylene				0.47	ug					
108-67-8	M2	1,3,5-Trimethylbenzene				0.65	ug					
95-63-6	M2	1,2,4-Trimethylbenzene				1.18	ug					
		Gasoline (TVH) Subtraction Blank =			0							

CAS#	Type	System Monitoring Compounds	Resp.	Amt.	Area%	Units	Int. Resp.	Water Limits	Soil Limits	Spike	%Rec
1868-53-7	S1	Dibromofluoromethane	4455448	66.88	85	ug	5231036	86 - 118	80 - 120	69.9	95.7
17060-07-0	S1	1,2-Dichloroethane-d4	1324813	73.45	93	ug	1430228	80 - 120	80 - 120	69.9	105.1
2037-26-5	S1	Toluene-d8	7004686	68.21	87	ug	8065379	88 - 110	81 - 117	69.9	97.6
460-00-4	S2	4-Bromofluorobenzene	4354657	62.25	78	ug	5570042	86 - 115	74 - 121	69.9	89.

CAS#	Type	Internal Standard Compounds	Resp.	Amt.	Area%	Units	Int. Resp.	ISS Conc.
462-06-6	I1	fluorobenzene	7565741	69.90	89	ug	8524463	69.9
3114-55-4	I2	Chlorobenzene-d5	4140500	69.90	83	ug	4992879	69.9
3855-82-1	I3	1,4-Dichlorobenzene-d4	2803970	69.90	73	ug	3830181	69.9

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

Analyst

Approved

**KEY LABORATORIES, INC.**

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

**BTEX Analytical Report**Client: **Occidental Oil and Gas Corp**Client Project Name: **Project #061908**Lab QC Batch Sample: **08-1646, 0619-03**Key Lab #: **08-1646**Work Order #: **0620081644**Date Received: **06/20/08**Method: **EPA SW846 5030/5035/8260**Technician: **KEY**Data File Name: **0900008.D**Date Analyzed: **23 Jun 2008 6:29 pm**Data File Path: **C:\MSDCHEM\1\DATA\0806JUN23\**Lab Sample Information: **Water, 10x dil, Oxy, Sump**Lab Sample Number: **0619-03, 08-1646, M, 0620081644,**Client Sample Number: **0619-03**Sampling Date: **6/19/2008**Sampling Time: **17:41**Sample Matrix: **Water**Sampler: **Brett**Sample vol/wt = **5**  
DF = **10**Reported ==> **x**

CAS#	Type	Target Compounds	Audit	Resp.	Amc.	MDL	Units	DF	Final Conc	RDL	Qual	MQL	Spike	%Rec
	H1	Gasoline [TVH]	x	201792513	1592.75	150	ug	10.	16 mg/L	1.5		400		
1634-04-4	M1	MTBE				0.25	ug							
71-43-2	M1	Benzene				0.33	ug							
108-88-3	MC1	Toluene				0.57	ug							
100-41-4	MC2	Ethylbenzene				0.27	ug							
		XYLENES (Total)				0.47	ug							
91-20-3	M3	Napthylene				2	ug							

CAS#	Type	Target Compounds	Audit	Resp.	Amc.	MDL	Units	DF	Final Conc	RDL	Qual	MQL	Spike	%Rec
	M2	M/P Xylene				1.1	ug							
95-47-6	M2	O-Xylene				0.47	ug							
108-67-8	M2	1,3,5-Trimethylbenzene				0.65	ug							
95-63-6	M2	1,2,4-Trimethylbenzene				1.18	ug							
		Gasoline (TVH) Subtraction Blank =			0									

CAS#	Type	System Monitoring Compounds	Resp.	Amc.	Area%	Units	Init. Resp.	Water Limits	Soil Limits	Spike	%Rec
1868-53-7	S1	Dibromofluoromethane	4554529	67.23	87	ug	5231036	86 - 118	80 - 120	69.9	96.2
17060-07-0	S1	1,2-Dichloroethane-d4	1266738	69.06	89	ug	1430228	80 - 120	80 - 120	69.9	98.8
2037-26-5	S1	Toluene-d8	7274797	69.66	90	ug	8065379	88 - 110	81 - 117	69.9	99.7
460-00-4	S2	4-Bromofluorobenzene	4731251	65.17	85	ug	5570042	86 - 115	74 - 121	69.9	93.2

CAS#	Type	Internal Standard Compounds	Resp.	Amc.	Area%	Units	Init. Resp.	ISB Conc.
462-06-6	I1	fluorbenzene	7693751	69.90	90	ug	8524463	69.9
3114-55-4	I2	Chlorobenzene-d5	4296451	69.90	86	ug	4992879	69.9
3855-82-1	I3	1,4-Dichlorobenzene-d4	3101531	69.90	81	ug	3830181	69.9

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst****Approved**

Evergreen Analytical, Inc.  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID:	#2, Source 2	0619-02	Lab Work Order:	08-4312
Client Project ID:	Occidental Oil & Gas		Lab Sample ID:	08-4312-01A
Date Collected:	6/19/08		Sample Matrix:	Water
Date Received:	6/21/08		Lab File ID:	GCMS10625\2101005.D
Date Prepared:	6/23/08		Method Blank:	MB-15852
Date Analyzed:	6/26/08		Prep Factor:	0.001
Percent Moisture:	NA		Dilution Factor:	10.00

Method: SW8270C

## SEMIVOLATILE ORGANICS

Prep Method: SW3520C

Units: µg/L

Analytes	CAS Number	Result	LQL
Acenaphthene	83-32-9	U	53
Acenaphthylene	208-96-8	U	53
Anthracene	120-12-7	U	53
Benzo(a)anthracene	56-55-3	U	53
Benzo(b&k)fluoranthene	205-99-2 & 207-08-9	U	110
Benzoic acid	65-85-0	U	110
Benzo(g,h,i)perylene	191-24-2	U	53
Benzo(a)pyrene	50-32-8	U	53
Benzyl alcohol	100-51-6	U	53
4-Bromophenyl phenyl ether	101-55-3	U	53
Butyl benzyl phthalate	85-68-7	U	53
4-Chloroaniline	106-47-8	U	110
Bis(2-chloroethoxy)methane	111-91-1	U	53
Bis(2-chloroethyl)ether	111-44-4	U	53
4-Chloro-3-methylphenol	59-50-7	U	53
2-Chloronaphthalene	91-58-7	U	53
2-Chlorophenol	95-57-8	U	53
4-Chlorophenyl phenyl ether	7005-72-3	U	53
Chrysene	218-01-9	U	53
Dibenz(a,h)anthracene	53-70-3	U	53
Dibenzofuran	132-64-9	U	53
Di-n-butyl phthalate	84-74-2	U	53
1,2-Dichlorobenzene	95-50-1	U	53
1,3-Dichlorobenzene	541-73-1	U	53
1,4-Dichlorobenzene	106-46-7	U	53
3,3'-Dichlorobenzidine	91-94-1	U	53
Dichlorodisopropyl ether	108-60-1	U	53
2,4-Dichlorophenol	120-83-2	U	53
Diethyl phthalate	84-66-2	U	53
2,4-Dimethylphenol	105-67-9	350	140 - (850) S.W. 53
Dimethyl phthalate	131-11-3	U	53
4,6-Dinitro-2-methylphenol	534-52-1	U	53
2,4-Dinitrophenol	51-28-5	U	53
2,4-Dinitrotoluene	121-14-2	U	53
2,6-Dinitrotoluene	606-20-2	U	53
Di-n-octyl phthalate	117-84-0	U	53
Bis(2-ethylhexyl)phthalate	117-81-7	U	53
Fluoranthene	206-44-0	U	53
Fluorene	86-73-7	U	53
Hexachlorobenzene	118-74-1	U	53

TMB  
Analyst

Approved

Qualifiers: See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value, Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 6/26/08



Evergreen Analytical, Inc.  
4836 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID:	#2, Source 2	Lab Work Order:	08-4312
Client Project ID:	Occidental Oil & Gas	Lab Sample ID:	08-4312-01A
Date Collected:	6/19/08	Sample Matrix:	Water
Date Received:	6/21/08	Lab File ID:	\GCMS106252101005.D
Date Prepared:	6/23/08	Method Blank:	MB-15852
Date Analyzed:	6/26/08	Prep Factor:	0.001
Percent Moisture:	NA	Dilution Factor:	10.00

Method: SW8270C

## SEMIVOLATILE ORGANICS

Prep Method: SW3520C

Units: µg/L

Analytes	CAS Number	Result	LQL
Hexachlorobutadiene	87-68-3	U	53
Hexachlorocyclopentadiene	77-47-4	U	53
Hexachloroethane	67-72-1	U	53
Indeno(1,2,3-cd)pyrene	193-39-5	U	53
Isophorone	78-59-1	U	53
2-Methylnaphthalene	91-57-6	640	53
2-Methylphenol	95-48-7	U	53
4-Methylphenol	106-44-5	330	53
Naphthalene	91-20-3	330	53
2-Nitroaniline	88-74-4	U	53
3-Nitroaniline	99-09-2	U	53
4-Nitroaniline	100-01-6	U	53
Nitrobenzene	98-95-3	U	53
2-Nitrophenol	88-75-5	U	53
4-Nitrophenol	100-02-7	U	110
N-Nitrosodi-n-propylamine	621-64-7	U	53
N-Nitrosodiphenylamine	86-30-6	U	53
Pentachlorophenol	87-86-5	U	53
Phenanthrene	85-01-8	U	53
Phenol	108-95-2	U	53
Pyrene	129-00-0	U	53
1,2,4-Trichlorobenzene	120-82-1	U	53
2,4,5-Trichlorophenol	95-95-4	U	53
2,4,6-Trichlorophenol	88-06-2	U	53
Surr: 2,4,6-Tribromophenol	118-79-6	94	QC Limits: 32-138 %REC
Surr: 2-Fluorobiphenyl	321-60-8	108	QC Limits: 45-130 %REC
Surr: 2-Fluorophenol	367-12-4	114	QC Limits: 43-130 %REC
Surr: Nitrobenzene-d5	4165-60-0	129	QC Limits: 45-130 %REC
Surr: Phenol-d6	13127-88-3	110	QC Limits: 47-130 %REC
Surr: Terphenyl-d14	1718-51-0	94	QC Limits: 47-136 %REC

TMB  
Analyst

  
Approved

Qualifiers: See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit

MDL - Method Detection Limit

Surr - Surrogate Standard

Print Date: 6/26/08

Evergreen Analytical, Inc.  
4936 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: #2, Sump-0619-03  
Client Project ID: Occidental Oil & Gas  
Date Collected: 6/19/08  
Date Received: 6/21/08  
Date Prepared: 6/23/08  
Date Analyzed: 6/25/08  
Percent Moisture: NA

0619-03

Lab Work Order: 08-4312  
Lab Sample ID: 08-4312-02A  
Sample Matrix: Water  
Lab File ID: \GCMS10625\0901009.D  
Method Blank: MB-15852  
Prep Factor: 0.001  
Dilution Factor: 1.00

Method: SW8270C

## SEMIVOLATILE ORGANICS

Prep Method: SW3520C

Units: µg/L

Analytes	CAS Number	Result	LQL
Accenaphthene	83-32-9	U	5.3
Acenaphthylene	208-96-8	U	5.3
Anthracene	120-12-7	U	5.3
Benzo(a)anthracene	56-55-3	U	5.3
Benzo(b&k)fluoranthene	205-99-2 & 207-08-9	U	11
Benzoic acid	65-85-0	13	11
Benzo(g,h,i)perylene	191-24-2	U	5.3
Benzo(a)pyrene	50-32-8	U	5.3
Benzyl alcohol	100-51-6	4.1 J	5.3
4-Bromophenyl phenyl ether	101-55-3	U	5.3
Butyl benzyl phthalate	85-68-7	U	5.3
4-Chloroaniline	106-47-8	U	11
Bis(2-chloroethoxy)methane	111-91-1	U	5.3
Bis(2-chloroethyl)ether	111-44-4	U	5.3
4-Chloro-3-methylphenol	59-50-7	U	5.3
2-Chloronaphthalene	91-58-7	U	5.3
2-Chlorophenol	95-57-8	U	5.3
4-Chlorophenyl phenyl ether	7005-72-3	U	5.3
Chrysene	218-01-9	U	5.3
Dibenz(a,h)anthracene	53-70-3	U	5.3
Dibenzofuran	132-64-9	U	5.3
Di-n-butyl phthalate	84-74-2	U	5.3
1,2-Dichlorobenzene	95-50-1	U	5.3
1,3-Dichlorobenzene	541-73-1	U	5.3
1,4-Dichlorobenzene	106-46-7	U	5.3
3,3'-Dichlorobenzidine	91-94-1	U	5.3
Dichlorodisopropyl ether	108-60-1	U	5.3
2,4-Dichlorophenol	120-83-2	U	5.3
Diethyl phthalate	84-66-2	U	5.3
2,4-Dimethylphenol	105-67-9	26	5.3
Dimethyl phthalate	131-11-3	U	5.3
4,6-Dinitro-2-methylphenol	534-52-1	U	5.3
2,4-Dinitrophenol	51-28-5	U	5.3
2,4-Dinitrotoluene	121-14-2	U	5.3
2,6-Dinitrotoluene	606-20-2	U	5.3
Di-n-octyl phthalate	117-84-0	U	5.3
Bis(2-ethylhexyl)phthalate	117-81-7	U	5.3
Fluoranthene	206-44-0	U	5.3
Fluorene	86-73-7	U	5.3
Hexachlorobenzene	118-74-1	U	5.3

  
Analyst

  
Approved

Qualifiers: See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value. Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard

Print Date: 6/26/08

**Evergreen Analytical, Inc.**  
4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862  
(303) 425-6021

Client Sample ID: #2, Sump-0619-03  
Client Project ID: Occidental Oil & Gas  
Date Collected: 6/19/08  
Date Received: 6/21/08  
Date Prepared: 6/23/08  
Date Analyzed: 6/25/08  
Percent Moisture: NA

Lab Work Order: 08-4312  
Lab Sample ID: 08-4312-02A  
Sample Matrix: Water  
Lab File ID: \GCMS10625\0901009.D  
Method Blank: MB-15852  
Prep Factor: 0.001  
Dilution Factor: 1.00

Method: SW8270C

**SEMIVOLATILE ORGANICS**

Prep Method: SW3520C

Units: µg/L

Analytes	CAS Number	Result	LQL
Hexachlorobutadiene	87-68-3	U	5.3
Hexachlorocyclopentadiene	77-47-4	U	5.3
Hexachloroethane	57-72-1	U	5.3
Indeno(1,2,3-cd)pyrene	193-39-5	U	5.3
Isophorone	78-59-1	U	5.3
2-Methylnaphthalene	91-57-6	6.1	5.3
2-Methylphenol	95-48-7	56	5.3
4-Methylphenol	106-44-5	61	5.3
Naphthalene	91-20-3	9.9	5.3
2-Nitroaniline	88-74-4	U	5.3
3-Nitroaniline	99-09-2	U	5.3
4-Nitroaniline	100-01-6	U	5.3
Nitrobenzene	98-95-3	U	5.3
2-Nitrophenol	88-75-5	U	5.3
4-Nitrophenol	100-02-7	U	11
N-Nitrosodi-n-propylamine	621-64-7	U	5.3
N-Nitrosodiphenylamine	86-30-6	U	5.3
Pentachlorophenol	87-86-5	U	5.3
Phenanthrene	85-01-8	U	5.3
Phenol	108-95-2	44	5.3
Pyrene	129-00-0	U	5.3
1,2,4-Trichlorobenzene	120-82-1	U	5.3
2,4,5-Trichlorophenol	95-95-4	U	5.3
2,4,6-Trichlorophenol	88-06-2	U	5.3
Surr: 2,4,6-Tribromophenol	118-79-6	113	QC Limits: 32-138 %REC
Surr: 2-Fluorobiphenyl	321-60-8	96	QC Limits: 45-130 %REC
Surr: 2-Fluorophenol	367-12-4	99	QC Limits: 43-130 %REC
Surr: Nitrobenzene-d5	4165-60-0	97	QC Limits: 45-130 %REC
Surr: Phenol-d6	13127-88-3	100	QC Limits: 47-130 %REC
Surr: Terphenyl-d14	1718-51-0	100	QC Limits: 47-136 %REC

  
Analyst

  
Approved

Qualifiers: See case narrative for a discussion

B - Analyte detected in the Method Blank, value not subtracted from result  
E - Extrapolated value, Value exceeds calibration range  
H - Prep or Analytical holding time exceeded  
S - Spike Recovery outside acceptance limits  
X - See case narrative  
\* - Value exceeded the Maximum Contamination Level (MCL), TCLP limit, or if compound is undetected, LQL exceeds MCL.

Qualifiers: U - Analyte not detected at or above the reporting limit

J - Estimated value below the LQL

Definitions: NA - Not Applicable  
LQL - Lower Quantitation Limit  
MDL - Method Detection Limit  
Surr - Surrogate Standard  
Print Date: 6/26/08

**KEY LABORATORIES, INC.**

2479 River Road Unit A  
Grand Junction, CO 81505  
(970)243-5311 FAX (970)243-6010

**BTEX Analytical Report**

Client: **Occidental Oil and Gas Corp**  
Client Project Name: **Project #061908**

Lab QC Batch Sample: **08-1646, 0619-03**Key Lab #: **08-1647**Work Order #: **0620081644**Date Received: **06/20/08**Method: **EPA SW846 5030/5035/8260**Technician: **KEY**Data File Name: **1300012.D**Date Analyzed: **23 Jun 2008 8:11 pm**Data File Path: **C:\MSDCHEM\1\DATA\0806JUN23\**Lab Sample Information: **Water, 100x dil, Oxy, Creek by Sump**Lab Sample Number: **0619-04, 08-1647, 0620081644**Client Sample Number: **0619-04**Sampling Date: **6/19/2008**Sampling Time: **17:46**Sample Matrix: **Water**Sampler: **Brett**Sample vol/wt = **5**Reported => **x** DF = **100**

CAS#	Type	Target Compound	Audit	Resp.	Amc	MDL	Units	DF	Final Conc	RDL	Qual	MQL	Spike	%Rec
H1		Gasoline (TVH)	x	-2147484	-260.91	150	ug	100.	<	15.		4000		
1634-04-4	M1	MTBE				0.25	ug							
71-43-2	M1	Benzene	x	816869	7.34	0.33	ug	100.	730 ug/L	33.		48000		
108-88-3	MC1	Toluene	x	1104855	15.47	0.57	ug	100.	1500 ug/L	57.		48000		
100-41-4	MC2	Ethylbenzene	x	14616	0.10	0.27	ug	100.	<	27.		48000		
		XYLENES (Total)	x		37.4	0.47	ug	100.	3700 ug/L	47.		14400000		
91-20-3	M3	Naphthylene	x	65219	0.91	2	ug	100.	<	200.		48000		

CAS#	Type	Target Compound	Audit	Resp.	Amc	MDL	Units	DF	Final Conc	RDL	Qual	MQL		
M2		M/P Xylene	x	3414625	31.42	1.1	ug	100.	3100 ug/L	110.		96000		
95-47-6	M2	O-Xylene	x	666998	5.99	0.47	ug	100.	600 ug/L	47.		48000		
108-67-8	M2	1,3,5-Trimethylbenzene	x	582281	5.32	0.65	ug	100.	530 ug/L	65.		48000		
95-63-6	M2	1,2,4-Trimethylbenzene	x	736647	6.73	1.18	ug	100.	670 ug/L	118.		48000		
		Gasoline (TVH) Subtraction Blank =			0									

CAS#	Type	System Monitoring Compound	Resp.	Amc	Area%	Units	Init Resp	Water Limits	Soil Limits	Spike	%Rec
1868-53-7	S1	Dibromofluoromethane	4234584	67.62	81	ug	5231036	86 - 118	80 - 120	69.9	96.7
17060-07-0	S1	1,2-Dichloroethane-d4	1141323	67.31	80	ug	1430228	80 - 120	80 - 120	69.9	96.3
2037-26-5	S1	Toluene-d8	6604395	68.41	82	ug	8065379	88 - 110	81 - 117	69.9	97.9
460-00-4	S2	4-Bromofluorobenzene	4161513	63.21	75	ug	5570042	86 - 115	74 - 121	69.9	90.4

CAS#	Type	Internal Standard Compound	Resp.	Amc	Area%	Units	Init Resp	ISS Conc
462-06-6	I1	fluorobenzene	7112433	69.90	83	ug	8524463	69.9
3114-55-4	I2	Chlorobenzene-d5	3896292	69.90	78	ug	4992879	69.9
3855-82-1	I3	1,4-Dichlorobenzene-d4	2700119	69.90	70	ug	3830181	69.9

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst****Approved**

**KEY LABORATORIES, INC.**

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

**BTEX Analytical Report**Client: **Occidental Oil and Gas Corp**Client Project Name: **Project #061908**Lab QC Batch Sample: **08-1646, 0619-03**Key Lab #: **08-1648**Work Order #: **0620081644**Date Received: **06/20/08**Method: **EPA SW846 5030/5035/8260**Technician: **KEY**Data File Name: **1400013.D**Date Analyzed: **23 Jun 2008 8:37 pm**Data File Path: **C:\MSDCHEM\1\DATA\0806JUN23\**Lab Sample Information: **Water, 20xdl, Oxy, Trib-SW**Lab Sample Number: **0619-05, 08-1648, 0620081644,**Client Sample Number: **0619-05**Sampling Date: **6/19/2008**Sampling Time: **18:00**Sample Matrix: **Water**Sampler: **Brett**

Reported=>>>			x	Sample vol/wt =			5	DF =			20			
CAS#	Type	Target Compounds	Audit	Resp	Amc	MDL	Units	DF	Final Conc	RDL	Qual	MQL	Spike	%REC
H1		Gasoline (TVH)	x	104278158	902.80	150	ug	20.	18 mg/L	3.		800		
1634-04-4	M1	MTBE				0.25	ug							
71-43-2	M1	Benzene	x	4334335	39.46	0.33	ug	20.	790 ug/L	6.6		9600		
108-88-3	MC1	Toluene	x	7332588	104.14	0.57	ug	20.	2100 ug/L	11.4		9600		
100-41-4	MC2	Ethylbenzene	x	0	0.00	0.27	ug	20.	<	5.4		9600		
		XYLENES (Total)	x		265.2	0.47	ug	20.	5300 ug/L	9.4		576000		
91-20-3	M3	Naphthylene	x	77568	1.08	2	ug	20.	<	40.		9600		

CAS#	Type	Target Compounds	Audit	Resp	Amc	MDL	Units	DF	Final Conc	RDL	Qual	MQL	Spike	%REC
M2		M/P Xylene	x	24469694	230.40	1.1	ug	20.	4600 ug/L	22.		19200		
95-47-6	M2	O-Xylene	x	3788248	34.83	0.47	ug	20.	700 ug/L	9.4		9600		
108-67-8	M2	1,3,5-Trimethylbenzene	x	1983772	18.56	0.65	ug	20.	370 ug/L	13.		9600		
95-63-6	M2	1,2,4-Trimethylbenzene	x	2125661	19.87	1.18	ug	20.	400 ug/L	23.6		9600		
		Gasoline (TVH) Subtraction Blank =			0									

CAS#	Type	System Monitoring Compounds	Resp	Amc	Area%	Units	Init Resp	Water Limits	Soil Limits	Spike	%Rec
1868-53-7	S1	Dibromofluoromethane	4151634	67.22	79	ug	5231036	86 - 118	80 - 120	69.9	96.2
17060-07-0	S1	1,2-Dichloroethane-d4	1149936	68.76	80	ug	1430228	80 - 120	80 - 120	69.9	98.4
2037-26-5	S1	Toluene-d8	6437075	67.61	80	ug	8065379	88 - 110	81 - 117	69.9	96.7
460-00-4	S2	4-Bromofluorobenzene	4186861	65.08	75	ug	5570042	86 - 115	74 - 121	69.9	93.1

CAS#	Type	Internal Standard Compounds	Resp	Amc	Area%	Units	Init Resp	ISS Conc
462-06-6	I1	fluorbenzene	7014246	69.90	82	ug	8524463	69.9
3114-55-4	I2	Chlorobenzene-d5	3807790	69.90	76	ug	4992879	69.9
3855-82-1	I3	1,4-Dichlorobenzene-d4	2703961	69.90	71	ug	3830181	69.9

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst****Approved**

**KEY LABORATORIES, INC.**

2479 River Road Unit A

Grand Junction, CO 81505

(970)243-5311 FAX (970)243-6010

**BTEX Analytical Report**Client: **Occidental Oil and Gas Corp**Client Project Name: **Project #061908**

Lab QC Batch Sample:

Client Sample Number: **0619-06**Key Lab #: **08-1651**Work Order #: **0620081644**Date Received: **06/20/08**Sampling Date: **6/19/2008**Method: **EPA SW846 5030/5035/8260**Sampling Time: **18:45**Technician: **KEY**Sample Matrix: **Water**Data File Name: **2000020.D**Sampler: **Brett**Date Analyzed: **23 Jun 2008 7:07 am**Data File Path: **C:\MSDCHEM\1\DATA\0806jun22\**Lab Sample Information: **Water, 1x dil, Oxy, @18:45 hours**Lab Sample Number: **0619-06, 08-1651, 0620081644**

Reported=>>>		Sample vol/wt =		DF =									
CAS#	Type	Target Compounds	Audit	Resp.	Am.	MDL	Units	DF	Final Conc.	RDL	Qual	MOI	Spike %Rec
H1		Gasoline [TVH]	x	-2147484	-391.73	150	ug	1.	<	.15		40	
1634-04-4	M1	MTBE				0.25	ug						
71-43-2	M1	Benzene	x	93088	0.69	0.33	ug	1.	0.69 ug/L	.33	J	480	
108-88-3	MC1	Toluene	x	138217	1.59	0.57	ug	1.	1.6 ug/L	.57	J	480	
100-41-4	MC2	Ethylbenzene	x	0	0.00	0.27	ug	1.	<	.27		480	
		XYLENES (Total)	x		3.7	0.47	ug	1.	3.7 ug/L	.47		1440	
91-20-3	M3	Napthylene	x	66411	0.78	2	ug	1.	<	2.		480	

CAS#	Type	Target Compounds	Audit	Resp.	Am.	MDL	Units	DF	Final Conc.	RDL	Qual	MOI	
M2		M/P Xylene	x	400958	3.13	1.1	ug	1.	3.1 ug/L	1.1	J	960	
95-47-6	M2	O-Xylene	x	74346	0.57	0.47	ug	1.	0.57 ug/L	.47	J	480	
108-67-8	M2	1,3,5-Trimethylbenzene	x	84224	0.65	0.65	ug	1.	0.65 ug/L	.65	J	480	
95-63-6	M2	1,2,4-Trimethylbenzene	x	117932	0.92	1.18	ug	1.	<	1.18		480	
		Gasoline (TVH) Subtraction Blank =			0								

CAS#	Type	System Monitoring Compounds	Resp.	Am.	Area%	Units	Init Resp.	Water Limits	Soil Limits	Spike	%Rec
1868-53-7	S1	Dibromofluoromethane	4775863	62.53	91	ug	5231036	86 - 118	80 - 120	69.9	89.5
17060-07-0	S1	1,2-Dichloroethane-d4	1403695	67.88	98	ug	1430228	80 - 120	80 - 120	69.9	97.1
2037-26-5	S1	Toluene-d8	8006047	68.00	99	ug	8065379	88 - 110	81 - 117	69.9	97.3
460-00-4	S2	4-Bromofluorobenzene	4908765	63.35	88	ug	5570042	86 - 115	74 - 121	69.9	90.6

CAS#	Type	Internal Standard Compounds	Resp.	Am.	Area%	Units	Init Resp.	ISS Conc.
462-06-6	I1	fluorobenzene	8673829	69.90	102	ug	8524463	69.9
3114-55-4	I2	Chlorobenzene-d5	4586217	69.90	92	ug	4992879	69.9
3855-82-1	I3	1,4-Dichlorobenzene-d4	3231890	69.90	84	ug	3830181	69.9

MDL = Method Detection Limit

PQL = Practical Quantitation Limit = 4 x MDL

RDL = Reporting Detection Limit = MDL x Dilution Factor

MQL = Maximum Quantitation Limit = 110% x DF x Highest Calibration Standard

Reporting basis is Kg for solids and L for liquids

J qualifier = MDL &lt; Result &lt; PQL

E qualifier = Estimated Result &gt; Highest Calibration Standard

**Analyst****Approved**

Company Name/Address: <b>Walsh Env.- Grand Junction /</b> <i>Oxy</i> 535 Grand Avenue Grand Junction, CO 81501			Alternate billing information:			Analysis/Container/Preservative			Chain of Custody Page <u>1</u> of <u>2</u>		
Report to: <i>Brett Kennedy</i>			Email to: <i>brett-kennedy@oxy.com</i>			Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b>  12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859			CoCode: <b>WALSHGJC</b> (lab use only) Template/Prelogin Shipped Via:		
Project Description: <i>Latham - Creek</i>			City/State Collected: <i>-</i>								
Phone: (970) 241-4636 FAX: <i>-</i>		Client Project #: <i>-</i>		ESC Key: <i>-</i>							
Collected by: <i>Brett Kennedy</i>		Site/Facility ID#: <i>-</i>		P.O.#: <i>-</i>							
Collected by (signature): <i>Brett Kennedy</i> Immediately Packed on Ice N <i>Y</i>		<b>Rush?</b> (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day.....200% <input checked="" type="checkbox"/> Next Day.....100% <input type="checkbox"/> Two Day.....50% <input type="checkbox"/> Three Day.....25%		Date Results Needed: Email? <input type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes							
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time					
<i>062408-05 Lpstream</i>		<i>grab</i>	<i>120</i>	<i>Surface</i>	<i>0624108</i>	<i>0955</i>					
<i>062408-06 N Trench</i>						<i>1000</i>					
<i>062408-07 N Source</i>						<i>1007</i>					
<del><i>062408-08 FROTH</i></del>						<del><i>1014</i></del>					
<i>062408-10 Dam 1</i>						<i>1022</i>					
<i>062408-11 S Trench</i>						<i>1033</i>					
<i>062408-12 S Source</i>						<i>1040</i>					
<i>062408-13 Dam 2</i>						<i>1134</i>					
<i>062408-14 Creek Confluence</i>		<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>1125</i>					

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

*9669 7430 9905*

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <i>Brett Kennedy</i>		Date: <i>0624108</i>		Time: <i>1445</i>		Received by: (Signature) <i>[Signature]</i>		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <i>OK</i>	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <i>54.0c</i>		Bottles Received: <i>27</i>	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) <i>Nobels</i>		Date: <i>6/28/08</i>		Time: <i>0900</i>	
								pH Checked:		NCF:	



Company Name/Address: <b>Walsh Env.- Grand Junction/</b> <i>Day</i> 535 Grand Avenue Grand Junction, CO 81501			Alternate billing information:			Analysis/Container/Preservative						Chain of Custody Page 2 of 2		
Report to: <i>Brett Kennedy</i>			Email to: <i>brett-kennedy@day.com</i>			<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>Prepared by:</p> <p><b>ENVIRONMENTAL SCIENCE CORP.</b></p> <p>12065 Lebanon Road Mt. Juliet, TN 37122</p> <p>Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859</p> </div> <div style="width: 50%;"> <p>CoCode: <b>WALSHGJC</b> (lab use only)</p> <p>Template/Prelogin</p> <p>Shipped Via:</p> </div> </div>						CoCode: <b>WALSHGJC</b> (lab use only) Template/Prelogin Shipped Via:		
Project Description: <i>Latham - Creek</i>			City/State Collected: <i>—</i>											
Phone: (970) 241-4636 FAX:		Client Project #: <i>—</i>		ESC Key: <i>—</i>										
Collected by: <i>Brett Kennedy</i>			Site/Facility ID#: <i>—</i>		P.O.#: <i>—</i>									
Collected by (signature): <i>Brett Kennedy</i> Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>			<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day..... 200% <input type="checkbox"/> Next Day..... 100% <input type="checkbox"/> Two Day..... 50% <input type="checkbox"/> Three Day..... 25%											Date Results Needed: Email? <input type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes
Sample ID			Comp/Grab	Matrix*	Depth	Date	Time							
<i>062408-15 Upstream South Y</i>			<i>Grab</i>	<i>P20</i>	<i>Surf</i>	<i>06/24/08</i>	<i>1121</i>							
<i>3</i>			<i>X</i>	<i>X</i>	<i>X</i>									

Company Name/Address: <b>Walsh Env.- Grand Junction / Oxy</b> 535 Grand Avenue Grand Junction, CO 81501			Alternate billing information:			Analysis/Container/Preservative										Chain of Custody Page <u>1</u> of <u>1</u>			
Report to: <b>Brett Kennedy</b>			Email to: <b>brett-kennedy@oxy.com</b>			<div style="text-align: center;"> <b>ENVIRONMENTAL SCIENCE CORP.</b>          12065 Lebanon Road          Mt. Juliet, TN 37122          Phone (615) 758-5858          Phone (800) 767-5859          FAX (615) 758-5859       </div>										Prepared by:			
Project Description: <b>605-01</b>			City/State Collected: <b>—</b>													CoCode: <b>WALSHGJC</b> (lab use only)			
Phone: <b>(970) 241-4636</b> FAX:		Client Project #:		ESC Key:												Template/Prelogin			
Collected by: <b>Brett Kennedy</b>		Site/Facility ID#:		P.O.#:												Shipped Via:			
Collected by (signature): 		<b>Rush?</b> (Lab MUST Be Notified) <input checked="" type="checkbox"/> Same Day ..... 200% <input checked="" type="checkbox"/> Next Day ..... 100% <input type="checkbox"/> Two Day ..... 50% <input type="checkbox"/> Three Day ..... 25%		Date Results Needed: <b>6/26/08</b> Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes												No. of Cntrs			
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Sample ID		Comp/Grab		Matrix*		Depth		Date		Time		BTEX TDS GR0		Remarks/Contaminant		Sample # (lab only)	
<b>062408-01 605-01 Goshute</b>		<b>6rex6</b>		<b>1/20</b>		<b>surface</b>		<b>6/24/08</b>		<b>0825</b>		<b>3</b>		<b>X X X</b>		<b>1351933-01</b>			
<b>062408-02 605-01 N Spring</b>										<b>0835</b>				<b>X X X</b>		<b>02</b>			
<b>062408-03 605-01 Spring</b>										<b>0844</b>				<b>X X X</b>		<b>03</b>			
<b>062408-04 605-01 Pagan</b>										<b>0854</b>				<b>X X X</b>		<b>04</b>			

\*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other \_\_\_\_\_

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) 		Date: <b>6/24/08</b>		Time: <b>1430</b>		Received by: (Signature) 		Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <b>OK</b>					
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <b>3.4</b>		Bottles Received: <b>12</b>		CoC Seals Intact <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA			
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: <b>6/25/08</b>		Time: <b>0900</b>		pH Checked:		NCF:	



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Thursday June 26, 2008

Report Number: L351930

Samples Received: 06/25/08

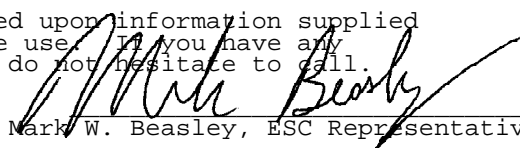
Client Project:

Description: Latham Creek

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

9 Samples Reported: 06/26/08 13:22 Printed: 06/26/08 13:22

Page 1 of 12



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-05 UPSTREAM

Collected By : Brett Kennedy  
Collection Date : 06/24/08 09:55

ESC Sample # : L351930-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	340	10.	mg/l	2540C	06/26/08	1
Benzene	0.0060	0.00050	mg/l	8021/8015	06/25/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	06/25/08	1
Ethylbenzene	0.0019	0.00050	mg/l	8021/8015	06/25/08	1
Total Xylene	0.016	0.0015	mg/l	8021/8015	06/25/08	1
TPH (GC/FID) Low Fraction	0.50	0.10	mg/l	GRO	06/25/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.0		% Rec.	8021/8015	06/25/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/25/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-06 N TRENCH

Collected By : Brett Kennedy  
Collection Date : 06/24/08 10:00

ESC Sample # : L351930-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	470	10.	mg/l	2540C	06/26/08	1
Benzene	1.6	0.25	mg/l	8021/8015	06/25/08	500
Toluene	11.	2.5	mg/l	8021/8015	06/25/08	500
Ethylbenzene	BDL	0.25	mg/l	8021/8015	06/25/08	500
Total Xylene	11.	0.75	mg/l	8021/8015	06/25/08	500
TPH (GC/FID) Low Fraction	BDL	50.	mg/l	GRO	06/25/08	500
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.8		% Rec.	8021/8015	06/25/08	500
a,a,a-Trifluorotoluene(PID)	99.7		% Rec.	8021/8015	06/25/08	500

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-07 N SOURCE

Collected By : Brett Kennedy  
Collection Date : 06/24/08 10:07

ESC Sample # : L351930-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	360	10.	mg/l	2540C	06/26/08	1
Benzene	0.13	0.00050	mg/l	8021/8015	06/25/08	1
Toluene	0.36	0.0050	mg/l	8021/8015	06/25/08	1
Ethylbenzene	0.0011	0.00050	mg/l	8021/8015	06/25/08	1
Total Xylene	1.6	0.0015	mg/l	8021/8015	06/25/08	1
TPH (GC/FID) Low Fraction	6.5	0.10	mg/l	GRO	06/25/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.9		% Rec.	8021/8015	06/25/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/25/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-10 DAM 1

Collected By : Brett Kennedy  
Collection Date : 06/24/08 10:22

ESC Sample # : L351930-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	370	10.	mg/l	2540C	06/26/08	1
Benzene	0.11	0.00050	mg/l	8021/8015	06/25/08	1
Toluene	0.49	0.0050	mg/l	8021/8015	06/25/08	1
Ethylbenzene	0.032	0.00050	mg/l	8021/8015	06/25/08	1
Total Xylene	1.0	0.0015	mg/l	8021/8015	06/25/08	1
TPH (GC/FID) Low Fraction	4.0	0.10	mg/l	GRO	06/25/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.2		% Rec.	8021/8015	06/25/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/25/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-11 S TRENCH

Collected By : Brett Kennedy  
Collection Date : 06/24/08 10:33

ESC Sample # : L351930-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	800	10.	mg/l	2540C	06/26/08	1
Benzene	1.2	0.025	mg/l	8021/8015	06/26/08	50
Toluene	3.3	0.25	mg/l	8021/8015	06/26/08	50
Ethylbenzene	0.084	0.025	mg/l	8021/8015	06/26/08	50
Total Xylene	1.5	0.075	mg/l	8021/8015	06/26/08	50
TPH (GC/FID) Low Fraction	11.	5.0	mg/l	GRO	06/26/08	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.6		% Rec.	8021/8015	06/26/08	50
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	06/26/08	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-12 S SOURCE

Collected By : Brett Kennedy  
Collection Date : 06/24/08 10:40

ESC Sample # : L351930-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	540	10.	mg/l	2540C	06/26/08	1
Benzene	0.94	0.050	mg/l	8021/8015	06/25/08	100
Toluene	3.0	0.50	mg/l	8021/8015	06/25/08	100
Ethylbenzene	0.071	0.050	mg/l	8021/8015	06/25/08	100
Total Xylene	3.8	0.15	mg/l	8021/8015	06/25/08	100
TPH (GC/FID) Low Fraction	15.	10.	mg/l	GRO	06/25/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.7		% Rec.	8021/8015	06/25/08	100
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	06/25/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek

Sample ID : 062408-13 DAM 2

Collected By : Brett Kennedy  
Collection Date : 06/24/08 11:34

ESC Sample # : L351930-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	1300	10.	mg/l	2540C	06/26/08	1
Benzene	0.0011	0.00050	mg/l	8021/8015	06/25/08	1
Toluene	0.0056	0.0050	mg/l	8021/8015	06/25/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	06/25/08	1
Total Xylene	0.016	0.0015	mg/l	8021/8015	06/25/08	1
TPH (GC/FID) Low Fraction	0.13	0.10	mg/l	GRO	06/25/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.8		% Rec.	8021/8015	06/25/08	1
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	06/25/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek  
Sample ID : 062408-14 CREEK CONFLUENCE  
Collected By : Brett Kennedy  
Collection Date : 06/24/08 11:25

ESC Sample # : L351930-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	350	10.	mg/l	2540C	06/26/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	06/25/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	06/25/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	06/25/08	1
Total Xylene	0.0024	0.0015	mg/l	8021/8015	06/25/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	06/25/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.6		% Rec.	8021/8015	06/25/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	06/25/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

June 26, 2008

Date Received : June 25, 2008  
Description : Latham Creek  
Sample ID : 062408-15 UPSTREAM SOUTH Y  
Collected By : Brett Kennedy  
Collection Date : 06/24/08 11:21

ESC Sample # : L351930-09

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	340	10.	mg/l	2540C	06/26/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	06/25/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	06/25/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	06/25/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	06/25/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	06/25/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.7		% Rec.	8021/8015	06/25/08	1
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	06/25/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 06/26/08 13:22 Printed: 06/26/08 13:22

Attachment A  
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L351930-03	Toluene	E
	Total Xylene	E
L351930-04	Toluene	E
	Total Xylene	E

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
06/26/08 at 13:22:44

TSR Signing Reports: 134  
R2 - Rush: Next Day

Sample: L351930-01 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-02 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-03 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-04 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-05 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-06 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-07 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-08 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22  
Sample: L351930-09 Account: WALSHGJCO Received: 06/25/08 09:00 Due Date: 06/26/08 00:00 RPT Date: 06/26/08 13:22









ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Wednesday July 09, 2008

Report Number: L353765

Samples Received: 07/08/08

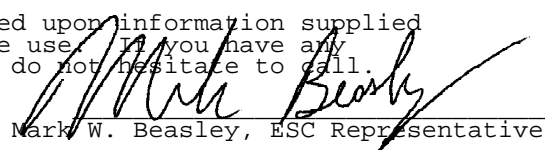
Client Project: 7830-160

Description: 09-61D

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

11 Samples Reported: 07/09/08 13:36 Printed: 07/09/08 13:36

Page 1 of 14



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 1-LATHAM UPSTREAM

Collected By : Blair Rollins  
Collection Date : 07/07/08 08:30

ESC Sample # : L353765-01

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0029	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	0.0021	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	0.015	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	0.94	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	87.5		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D  
Sample ID : 2-LATHAM NORTH TRENCH  
Collected By : Blair Rollins  
Collection Date : 07/07/08 08:35

ESC Sample # : L353765-02

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1.0	0.25	mg/l	8021/8015	07/08/08	500
Toluene	5.8	2.5	mg/l	8021/8015	07/08/08	500
Ethylbenzene	0.32	0.25	mg/l	8021/8015	07/08/08	500
Total Xylene	6.8	0.75	mg/l	8021/8015	07/08/08	500
TPH (GC/FID) Low Fraction	BDL	50.	mg/l	GRO	07/08/08	500
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	98.8		% Rec.	8021/8015	07/08/08	500
a,a,a-Trifluorotoluene(PID)	108.		% Rec.	8021/8015	07/08/08	500

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D  
Sample ID : 3-LATHAM NORTH SOURCE  
Collected By : Blair Rollins  
Collection Date : 07/07/08 08:40

ESC Sample # : L353765-03

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.027	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	0.12	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	0.0050	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	1.7	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	6.0	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	83.2		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D  
Sample ID : 4-LATHAM WATER TROTH  
Collected By : Blair Rollins  
Collection Date : 07/07/08 08:50

ESC Sample # : L353765-04

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	0.0015	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	92.4		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	95.9		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 6-LATHAM DAM 1

Collected By : Blair Rollins  
Collection Date : 07/07/08 09:00

ESC Sample # : L353765-05

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0022	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	0.070	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	0.74	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	84.0		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 7-LATHAM S1 TRENCH

Collected By : Blair Rollins  
Collection Date : 07/07/08 09:15

ESC Sample # : L353765-06

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1.3	0.25	mg/l	8021/8015	07/08/08	500
Toluene	4.0	2.5	mg/l	8021/8015	07/08/08	500
Ethylbenzene	BDL	0.25	mg/l	8021/8015	07/08/08	500
Total Xylene	3.0	0.75	mg/l	8021/8015	07/08/08	500
TPH (GC/FID) Low Fraction	BDL	50.	mg/l	GRO	07/08/08	500
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	99.1		% Rec.	8021/8015	07/08/08	500
a,a,a-Trifluorotoluene(PID)	108.		% Rec.	8021/8015	07/08/08	500

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 8-LATHAM S1 SOURCE

Collected By : Blair Rollins  
Collection Date : 07/07/08 09:30

ESC Sample # : L353765-07

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.89	0.12	mg/l	8021/8015	07/08/08	250
Toluene	3.5	1.2	mg/l	8021/8015	07/08/08	250
Ethylbenzene	BDL	0.12	mg/l	8021/8015	07/08/08	250
Total Xylene	2.7	0.38	mg/l	8021/8015	07/08/08	250
TPH (GC/FID) Low Fraction	BDL	25.	mg/l	GRO	07/08/08	250
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/8015	07/08/08	250
a,a,a-Trifluorotoluene(PID)	109.		% Rec.	8021/8015	07/08/08	250

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 11-LATHAM S2 TRENCH

Collected By : Blair Rollins  
Collection Date : 07/07/08 09:40

ESC Sample # : L353765-08

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.11	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	0.18	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	0.21	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	1.2	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.4		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	108.		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 37-LATHAM S2 SOURCE

Collected By : Blair Rollins  
Collection Date : 07/07/08 09:50

ESC Sample # : L353765-09

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.21	0.025	mg/l	8021/8015	07/08/08	50
Toluene	0.49	0.25	mg/l	8021/8015	07/08/08	50
Ethylbenzene	0.089	0.025	mg/l	8021/8015	07/08/08	50
Total Xylene	1.1	0.075	mg/l	8021/8015	07/08/08	50
TPH (GC/FID) Low Fraction	5.1	5.0	mg/l	GRO	07/08/08	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	99.9		% Rec.	8021/8015	07/08/08	50
a,a,a-Trifluorotoluene(PID)	109.		% Rec.	8021/8015	07/08/08	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D

Sample ID : 9-LATHAM DAM 2

Collected By : Blair Rollins  
Collection Date : 07/07/08 10:10

ESC Sample # : L353765-10

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	1000	10.	mg/l	2540C	07/09/08	1
Benzene	0.00061	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	0.0028	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	98.8		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	108.		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 09, 2008

Date Received : July 08, 2008  
Description : 09-61D  
Sample ID : 10-LATHAM CREEK CONF.  
Collected By : Blair Rollins  
Collection Date : 07/07/08 10:20

ESC Sample # : L353765-11

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	340	10.	mg/l	2540C	07/09/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/09/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	07/09/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	07/09/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	92.0		% Rec.	8021/8015	07/09/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/09/08 13:36 Printed: 07/09/08 13:36

Attachment A  
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L353765-03	Total Xylene	E

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
07/09/08 at 13:36:49

TSR Signing Reports: 134  
R2 - Rush: Next Day

Sample: L353765-01 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-02 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-03 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-04 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-05 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-06 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-07 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-08 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-09 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-10 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36  
Sample: L353765-11 Account: WALSHGJCO Received: 07/08/08 09:00 Due Date: 07/09/08 00:00 RPT Date: 07/09/08 13:36



Company Name/Address: <b>Walsh Env.- Grand Junction</b>  535 Grand Avenue Grand Junction, CO 81501				Alternate billing information:				Analysis/Container/Preservative				Chain of Custody Page 1 of 1	
Report to: <u>Ed Baltzer</u>				Email to: <u>ebaltzer@walshenv.com</u>				BTEX / TPH				Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b>  12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Project Description: <u>09-61D</u>				City/State Collected									
Phone: (970) 241-4636		Client Project #: <u>7830-1160</u>		ESC Key:									
FAX:		Site/Facility ID#: <u>09-61D</u>		P.O.#:									
Collected by: <u>Blair K. Rollins</u>		Collected by (signature): <u>[Signature]</u>		Immediately Packed on Ice N <u>Y</u>									
Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day..... 200% <input type="checkbox"/> Next Day..... 100% <input type="checkbox"/> Two Day..... 50% <input checked="" type="checkbox"/> Three Day..... 25%				Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes				No. of Cntrs		CoCode: <b>WALSHGJC</b> (lab use only) Template/Prelogin Shipped Via:			
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant	Sample # (lab only)			
1 Latham upstream		grab	SW	NA	7/10/08	1000	2	✓		1354496			
2 Latham North trench		grab	SW	NA	7/10/08	1010	2	✓		02			
6 Latham Dam 1		grab	SW	NA	7/10/08	1020	2	✓		03			
7 Latham S1 Trench		grab	SW	NA	7/10/08	1030	2	✓		04			
11 Latham S2 Trench		grab	SW	NA	7/10/08	1045	2	✓		05			
9 Latham Dam 2		grab	SW	NA	7/10/08	1110	2	✓		06			
10 Latham creek conf.		grab	SW	N/A	7/10/08	1100	2	✓		07			

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <u>[Signature]</u>		Date: <u>7/10/08</u>	Time: <u>1700</u>	Received by: (Signature) <u>FED EX</u>		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <u>[Signature]</u>	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: <u>23°</u>	Bottles Received: <u>14</u>	CoC Seals Intact <u>Y</u> <u>N</u> <u>NA</u>	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <u>K. Duke</u>		Date: <u>7/11/08</u>	Time: <u>0900</u>	pH Checked:	NCF:



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Monday July 14, 2008

Report Number: L354496

Samples Received: 07/11/08

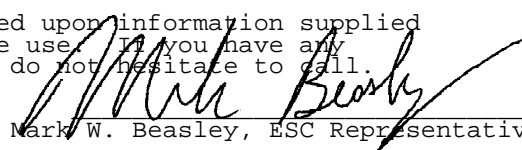
Client Project: 7830-160

Description: 09-61D

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

7 Samples Reported: 07/14/08 14:41 Printed: 07/14/08 14:42

Page 1 of 8



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D

Sample ID : 1 LATHAM UPSTREAM

Collected By : Blair K. Rollins  
Collection Date : 07/10/08 10:00

ESC Sample # : L354496-01

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0028	0.00050	mg/l	602/8015	07/12/08	1
Toluene	BDL	0.0050	mg/l	602/8015	07/12/08	1
Ethylbenzene	0.0027	0.00050	mg/l	602/8015	07/12/08	1
Total Xylene	0.0092	0.0015	mg/l	602/8015	07/12/08	1
TPH (GC/FID) Low Fraction	0.59	0.10	mg/l	TNGRO	07/12/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	89.1		% Rec.	602/8015	07/12/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/12/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D  
Sample ID : 2 LATHAM NORTH TRENCH  
Collected By : Blair K. Rollins  
Collection Date : 07/10/08 10:10

ESC Sample # : L354496-02

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.93	0.25	mg/l	602/8015	07/11/08	500
Toluene	6.1	2.5	mg/l	602/8015	07/11/08	500
Ethylbenzene	0.56	0.25	mg/l	602/8015	07/11/08	500
Total Xylene	9.7	0.75	mg/l	602/8015	07/11/08	500
TPH (GC/FID) Low Fraction	BDL	50.	mg/l	TNGRO	07/11/08	500
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	92.2		% Rec.	602/8015	07/11/08	500
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/11/08	500

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D

Sample ID : 6LATHAM DAM 1

Collected By : Blair K. Rollins  
Collection Date : 07/10/08 10:20

ESC Sample # : L354496-03

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.015	0.0050	mg/l	602/8015	07/11/08	10
Toluene	0.066	0.050	mg/l	602/8015	07/11/08	10
Ethylbenzene	BDL	0.0050	mg/l	602/8015	07/11/08	10
Total Xylene	0.50	0.015	mg/l	602/8015	07/11/08	10
TPH (GC/FID) Low Fraction	1.3	1.0	mg/l	TNGRO	07/11/08	10
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.3		% Rec.	602/8015	07/11/08	10
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/11/08	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D

Sample ID : 7 LATHAM S1 TRENCH

Collected By : Blair K. Rollins  
Collection Date : 07/10/08 10:30

ESC Sample # : L354496-04

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1.4	0.25	mg/l	602/8015	07/11/08	500
Toluene	5.3	2.5	mg/l	602/8015	07/11/08	500
Ethylbenzene	0.37	0.25	mg/l	602/8015	07/11/08	500
Total Xylene	4.8	0.75	mg/l	602/8015	07/11/08	500
TPH (GC/FID) Low Fraction	BDL	50.	mg/l	TNGRO	07/11/08	500
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.2		% Rec.	602/8015	07/11/08	500
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/11/08	500

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D

Sample ID : 11 LATHAM S2 TRENCH

Collected By : Blair K. Rollins  
Collection Date : 07/10/08 10:45

ESC Sample # : L354496-05

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.39	0.012	mg/l	602/8015	07/11/08	25
Toluene	1.5	0.12	mg/l	602/8015	07/11/08	25
Ethylbenzene	0.081	0.012	mg/l	602/8015	07/11/08	25
Total Xylene	2.1	0.038	mg/l	602/8015	07/11/08	25
TPH (GC/FID) Low Fraction	7.4	2.5	mg/l	TNGRO	07/11/08	25
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.2		% Rec.	602/8015	07/11/08	25
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/11/08	25

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D

Sample ID : 9 LATHAM DAM 2

Collected By : Blair K. Rollins  
Collection Date : 07/10/08 11:10

ESC Sample # : L354496-06

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	602/8015	07/12/08	1
Toluene	BDL	0.0050	mg/l	602/8015	07/12/08	1
Ethylbenzene	BDL	0.00050	mg/l	602/8015	07/12/08	1
Total Xylene	0.0018	0.0015	mg/l	602/8015	07/12/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	TNGRO	07/12/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	92.1		% Rec.	602/8015	07/12/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/12/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 14, 2008

Date Received : July 11, 2008  
Description : 09-61D  
Sample ID : 10 LATHAM CREEK CONF  
Collected By : Blair K. Rollins  
Collection Date : 07/10/08 11:00

ESC Sample # : L354496-07

Site ID : 09-61D

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	602/8015	07/12/08	1
Toluene	BDL	0.0050	mg/l	602/8015	07/12/08	1
Ethylbenzene	BDL	0.00050	mg/l	602/8015	07/12/08	1
Total Xylene	BDL	0.0015	mg/l	602/8015	07/12/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	TNGRO	07/12/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	92.0		% Rec.	602/8015	07/12/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	602/8015	07/12/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/14/08 14:41 Printed: 07/14/08 14:42

Summary of Remarks For Samples Printed  
07/14/08 at 14:42:17

TSR Signing Reports: 134  
R4 - Rush: Three Day

Sample: L354496-01 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41  
Sample: L354496-02 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41  
Sample: L354496-03 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41  
Sample: L354496-04 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41  
Sample: L354496-05 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41  
Sample: L354496-06 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41  
Sample: L354496-07 Account: WALSHGJCO Received: 07/11/08 09:00 Due Date: 07/16/08 00:00 RPT Date: 07/14/08 14:41

Company Name/Address: <b>Walsh Env.- Grand Junction /</b> <div style="text-align: right; font-size: 1.5em; margin-right: 50px;">Ory</div> 535 Grand Avenue Grand Junction, CO 81501				Alternate billing information:  Email to: <u>brett-kennedy@ory.com</u>				Analysis/Container/Preservative <div style="font-size: 0.8em; text-align: center;">             As, Cd, Cr, Cu, Pb, Hg, Mn, Ni, Se, Ag, Zn              TDS, Chlorides, Sulfates              8260 VOC              8270 SVOC           </div>				Chain of Custody Page ___ of ___  Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b> 12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Report to: <u>Brett Kennedy</u> <u>Edward Dautzen</u>				Email to: <u>edautzen@walshenv.com</u>									
Project Description: <u>09-61 PAD</u>				City/State Collected: <u>CO</u>									
Phone: <u>(970) 241-4636</u> FAX:		Client Project #: <u>7830-160</u>		ESC Key:									
Collected by: <u>Brett Kennedy</u>		Site/Facility ID#:		P.O.#: <u>7830-160</u>									
Collected by (signature): Immediately Packed on Ice N <u>Y</u>		<input checked="" type="checkbox"/> <b>Rush?</b> (Lab MUST Be Notified) Same Day.....200% Next Day.....100% Two Day.....50% Three Day.....25%		Date Results Needed: Email? <u>No</u> Yes FAX? <u>No</u> Yes		No. of Cntrs							
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time							
1 Upstream cabin		6066	SW	NA	7/18/08	1155	3	✓	✓	✓			
2 N. Trench			SW			1210	4		✓	✓	✓		
6 DAM 1			SW			1202	2	✓	H <sub>2</sub> O				
7 S. Trench			SW			1255	4		✓	✓	✓		
9 DAM 2			SW			1318	2	✓					
10 Downstream			SW			1318	2		✓	✓	✓		
11 S. Trench 2			SW			1239	2	✓					
12 Upstream fork			SW			1329	3	✓	✓	✓			
25 Joining stream-creek			SW			1350	4		✓	✓	✓		

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other Surface Water

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <u>Brett Kennedy</u>		Date: <u>7/18/08</u>	Time: <u>1715</u>	Received by: (Signature) <u>[Signature]</u>		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: <u>pH adjusted @ lab for metals</u> (lab use only) <u>7/19/08 1700</u> CoC Seal Intact <u>Y</u> <u>N</u> <u>NA</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date:	Time:	Received by: (Signature) <u>[Signature]</u>		Temp: <u>3.8°C</u>		Bottles Received: <u>40</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Date:	Time:	Received for lab by: (Signature) <u>[Signature]</u>		Date: <u>7/19/08</u>		Time: <u>09:00a.m.</u>	
						pH Checked:		NCF: <u>✓</u>	

Company Name/Address:

**Walsh Env.- Grand Junction**535 Grand Avenue  
Grand Junction, CO 81501

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody  
Page \_\_\_ of \_\_\_

Prepared by:

**ENVIRONMENTAL  
SCIENCE CORP.**12065 Lebanon Road  
Mt Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to:

*Brett Kennedy*  
*Edward Baltzer*

Email to:

*bkc H - Kennedy@day.com*  
*ebaltzer@walshenv.com*

Project

Description: *605 - AI PAD*

City/State

Collected *CO*

Phone: (970) 241-4636

Client Project #:

ESC Key:

FAX:

*7830-160*Collected by: *Brett Kennedy*

Site/Facility ID#:

P.O.#:

*7830-160*

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

☐ Same Day.....200%  
☐ Next Day.....100%  
☐ Two Day.....50%  
☐ Three Day.....25%

Date Results Needed:

Email? ☐ No ☐ YesFAX? ☐ No ☐ YesNo.  
of  
Cntrs

Immediately

Packed on Ice N ☐ Y ☐GoCode: **WALSHGJC** (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Analysis/Container/Preservative	Remarks/Contaminant	Sample # (lab only)
<i>605-01 - upstream</i>		<i>DW</i>					<i>8260</i>		
<i>605-01 - N SPRING</i>	<i>0920</i>	<i>DW</i>	<i>SW</i>	<i>7/19/08</i>	<i>0920</i>	<i>4</i>	<i>8270</i>		<i>6355764-10</i>
<i>605-01 - S SPRING</i>	<i>0910</i>	<i>DW</i>	<i>↓</i>	<i>↓</i>	<i>0910</i>	<i>4</i>			<i>11</i>
<i>605-01 - Downstream</i>	<i>0942</i>	<i>DW</i>	<i>↓</i>	<i>↓</i>	<i>0942</i>	<i>4</i>			
<i>605-01 - Lower pit</i>	<i>0930</i>	<i>DW</i>	<i>↓</i>	<i>↓</i>	<i>0930</i>	<i>2</i>			

\*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other *Surface water*

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS☐ FedEx ☐ Courier ☐

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: *3.1°C*

Bottles Received:

CoC Seals Intact ☐ Y ☒ N

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: *7/19/08*Time: *09:00 a.m.*

pH Checked:

NCF: ☒

Mark

# ENVIRONMENTAL SCIENCE CORP.

## SAMPLE NON-CONFORMANCE FORM

Sample No.: L355964

Date: 7/19/08

Evaluated by: Jonah

Client: WALSHCO

### Non-Conformance (check applicable items)

- |   |  |
|---|--|
| <input type="checkbox"/> Chain of Custody is missing                          | <input checked="" type="checkbox"/> Login Clarification Needed                                     |
| <input type="checkbox"/> Improper container type                              | <input type="checkbox"/> Improper preservation   |
| <input type="checkbox"/> Chain of custody is incomplete                       | <input type="checkbox"/> Container lid not in tact   |
| <input type="checkbox"/> Parameter(s) past holding time                       | <input type="checkbox"/> Improper temperature  |
| <input type="checkbox"/> Broken container(s) see below                        | <input type="checkbox"/> Broken container: sufficient sample volume remains for analysis requested |
| <input type="checkbox"/> Insufficient packing material around container       |  |
| <input type="checkbox"/> Insufficient packing material inside cooler          |  |
| <input type="checkbox"/> Improper handling by carrier (FedEx / UPS / Courier) |  |
| <input type="checkbox"/> Sample was frozen                                    |  |

Comments: 10 Down stream - did not receive bottles for Metals, TDS, Chloride, Sulfate  
12 Upstream for 25 Joining stream current - Did not sm

### Login Instructions:

TSR Initials: MB

Client informed by call / email / fax / voice mail date: 7/21/08 time: 1020

Client contact: Brett K

- V/M 7/21/08 0920

- Cancel this sample, client will resample



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170

Grand Junction, CO 81506

Report Summary

Thursday July 31, 2008

Report Number: L355964

Samples Received: 07/19/08

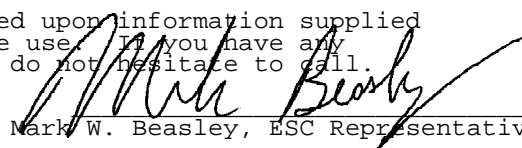
Client Project: 7830-160

Description: 09-61 PAD

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

12 Samples Reported: 07/31/08 15:49 Printed: 07/31/08 16:48

Page 1 of 29



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 1 UPSTREAM

Collected By : Brett Kennedy  
Collection Date : 07/18/08 11:55

ESC Sample # : L355964-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	16.	1.0	mg/l	9056	07/22/08	1
Sulfate	68.	5.0	mg/l	9056	07/22/08	1
Dissolved Solids	360	10.	mg/l	2540C	07/24/08	1
Mercury	BDL	0.00020	mg/l	7470A	07/25/08	1
Arsenic	BDL	0.020	mg/l	6010B	07/26/08	1
Barium	0.14	0.0050	mg/l	6010B	07/26/08	1
Cadmium	BDL	0.0050	mg/l	6010B	07/26/08	1
Chromium	BDL	0.010	mg/l	6010B	07/26/08	1
Copper	BDL	0.020	mg/l	6010B	07/26/08	1
Lead	BDL	0.0050	mg/l	6010B	07/26/08	1
Molybdenum	0.0081	0.0050	mg/l	6010B	07/26/08	1
Nickel	BDL	0.020	mg/l	6010B	07/26/08	1
Selenium	BDL	0.020	mg/l	6010B	07/26/08	1
Silver	BDL	0.010	mg/l	6010B	07/26/08	1
Zinc	0.040	0.030	mg/l	6010B	07/26/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/23/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	07/23/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	07/23/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	07/23/08	1
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	07/23/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 2 N TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:10

ESC Sample # : L355964-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	36.	1.0	mg/l	9056	07/22/08	1
Sulfate	50.	5.0	mg/l	9056	07/22/08	1
Dissolved Solids	410	10.	mg/l	2540C	07/24/08	1
Mercury	BDL	0.00020	mg/l	7470A	07/25/08	1
Arsenic	BDL	0.020	mg/l	6010B	07/26/08	1
Barium	0.078	0.0050	mg/l	6010B	07/26/08	1
Cadmium	BDL	0.0050	mg/l	6010B	07/26/08	1
Chromium	BDL	0.010	mg/l	6010B	07/26/08	1
Copper	BDL	0.020	mg/l	6010B	07/26/08	1
Lead	BDL	0.0050	mg/l	6010B	07/26/08	1
Molybdenum	0.017	0.0050	mg/l	6010B	07/26/08	1
Nickel	BDL	0.020	mg/l	6010B	07/26/08	1
Selenium	BDL	0.020	mg/l	6010B	07/26/08	1
Silver	BDL	0.010	mg/l	6010B	07/26/08	1
Zinc	BDL	0.030	mg/l	6010B	07/26/08	1
Volatile Organics						
Acetone	BDL	12.	mg/l	8260B	07/23/08	250
Acrolein	BDL	12.	mg/l	8260B	07/23/08	250
Acrylonitrile	BDL	2.5	mg/l	8260B	07/23/08	250
Benzene	0.58	0.25	mg/l	8260B	07/23/08	250
Bromobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Bromodichloromethane	BDL	0.25	mg/l	8260B	07/23/08	250
Bromoform	BDL	0.25	mg/l	8260B	07/23/08	250
Bromomethane	BDL	1.2	mg/l	8260B	07/23/08	250
n-Butylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
sec-Butylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
tert-Butylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Carbon tetrachloride	BDL	0.25	mg/l	8260B	07/23/08	250
Chlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Chlorodibromomethane	BDL	0.25	mg/l	8260B	07/23/08	250
Chloroethane	BDL	1.2	mg/l	8260B	07/23/08	250
2-Chloroethyl vinyl ether	BDL	12.	mg/l	8260B	07/23/08	250
Chloroform	BDL	1.2	mg/l	8260B	07/23/08	250
Chloromethane	BDL	0.62	mg/l	8260B	07/23/08	250
2-Chlorotoluene	BDL	0.25	mg/l	8260B	07/23/08	250
4-Chlorotoluene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dibromo-3-Chloropropane	BDL	1.2	mg/l	8260B	07/23/08	250
1,2-Dibromoethane	BDL	0.25	mg/l	8260B	07/23/08	250
Dibromomethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L355964-02 (SV8270BNA) - Dilution due to matrix





# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 2 N TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:10

ESC Sample # : L355964-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,4-Dichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Dichlorodifluoromethane	BDL	1.2	mg/l	8260B	07/23/08	250
1,1-Dichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1-Dichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
cis-1,2-Dichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
trans-1,2-Dichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1-Dichloropropene	BDL	0.25	mg/l	8260B	07/23/08	250
1,3-Dichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
cis-1,3-Dichloropropene	BDL	0.25	mg/l	8260B	07/23/08	250
trans-1,3-Dichloropropene	BDL	0.25	mg/l	8260B	07/23/08	250
2,2-Dichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
Di-isopropyl ether	BDL	0.25	mg/l	8260B	07/23/08	250
Ethylbenzene	0.33	0.25	mg/l	8260B	07/23/08	250
Hexachlorobutadiene	BDL	0.25	mg/l	8260B	07/23/08	250
Isopropylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
p-Isopropyltoluene	BDL	0.25	mg/l	8260B	07/23/08	250
2-Butanone (MEK)	BDL	2.5	mg/l	8260B	07/23/08	250
Methylene Chloride	BDL	1.2	mg/l	8260B	07/23/08	250
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/l	8260B	07/23/08	250
Methyl tert-butyl ether	BDL	0.25	mg/l	8260B	07/23/08	250
Naphthalene	BDL	1.2	mg/l	8260B	07/23/08	250
n-Propylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Styrene	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,1,2-Tetrachloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,2,2-Tetrachloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.25	mg/l	8260B	07/23/08	250
Tetrachloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
Toluene	4.5	1.2	mg/l	8260B	07/23/08	250
1,2,3-Trichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2,4-Trichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,1-Trichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,2-Trichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
Trichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
Trichlorofluoromethane	BDL	1.2	mg/l	8260B	07/23/08	250
1,2,3-Trichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
1,2,4-Trimethylbenzene	0.50	0.25	mg/l	8260B	07/23/08	250
1,2,3-Trimethylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,3,5-Trimethylbenzene	0.42	0.25	mg/l	8260B	07/23/08	250
Vinyl chloride	BDL	0.25	mg/l	8260B	07/23/08	250
Xylenes, Total	8.1	0.75	mg/l	8260B	07/23/08	250
Surrogate Recovery						

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L355964-02 (SV8270BNA) - Dilution due to matrix



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 2 N TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:10

ESC Sample # : L355964-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene-d8	99.0		% Rec.	8260B	07/23/08	250
Dibromofluoromethane	103.		% Rec.	8260B	07/23/08	250
4-Bromofluorobenzene	104.		% Rec.	8260B	07/23/08	250
Base/Neutral Extractables						
Acenaphthene	0.0011	0.0010	mg/l	8270C	07/29/08	1
Acenaphthylene	BDL	0.0010	mg/l	8270C	07/29/08	1
Anthracene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzidine	BDL	0.050	mg/l	8270C	07/29/08	1
Benzo(a)anthracene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(b)fluoranthene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(k)fluoranthene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(g,h,i)perylene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(a)pyrene	BDL	0.0010	mg/l	8270C	07/29/08	1
Bis(2-chlorethoxy)methane	BDL	0.20	mg/l	8270C	07/30/08	20
Bis(2-chloroethyl)ether	BDL	0.20	mg/l	8270C	07/30/08	20
Bis(2-chloroisopropyl)ether	BDL	0.20	mg/l	8270C	07/30/08	20
4-Bromophenyl-phenylether	BDL	0.010	mg/l	8270C	07/29/08	1
2-Chloronaphthalene	BDL	0.010	mg/l	8270C	07/29/08	1
4-Chlorophenyl-phenylether	BDL	0.010	mg/l	8270C	07/29/08	1
Chrysene	BDL	0.0010	mg/l	8270C	07/29/08	1
Dibenz(a,h)anthracene	BDL	0.0010	mg/l	8270C	07/29/08	1
3,3-Dichlorobenzidine	BDL	0.010	mg/l	8270C	07/29/08	1
2,4-Dinitrotoluene	BDL	0.010	mg/l	8270C	07/29/08	1
2,6-Dinitrotoluene	BDL	0.010	mg/l	8270C	07/29/08	1
Fluoranthene	BDL	0.0010	mg/l	8270C	07/29/08	1
Fluorene	0.0052	0.0010	mg/l	8270C	07/29/08	1
Hexachlorobenzene	BDL	0.010	mg/l	8270C	07/29/08	1
Hexachloro-1,3-butadiene	BDL	0.20	mg/l	8270C	07/30/08	20
Hexachlorocyclopentadiene	BDL	0.010	mg/l	8270C	07/29/08	1
Hexachloroethane	BDL	0.20	mg/l	8270C	07/30/08	20
Indeno(1,2,3-cd)pyrene	BDL	0.0010	mg/l	8270C	07/29/08	1
Isophorone	BDL	0.20	mg/l	8270C	07/30/08	20
Naphthalene	0.040	0.020	mg/l	8270C	07/30/08	20
Nitrobenzene	BDL	0.20	mg/l	8270C	07/30/08	20
n-Nitrosodimethylamine	BDL	1.0	mg/l	8270C	07/30/08	20
n-Nitrosodiphenylamine	BDL	0.010	mg/l	8270C	07/29/08	1
n-Nitrosodi-n-propylamine	BDL	0.20	mg/l	8270C	07/30/08	20
Phenanthrene	0.0025	0.0010	mg/l	8270C	07/29/08	1
Benzybutyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Bis(2-ethylhexyl)phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Di-n-butyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Diethyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Dimethyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)  
L355964-02 (SV8270BNA) - Dilution due to matrix



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 2 N TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:10

ESC Sample # : L355964-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-octyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Pyrene	BDL	0.0010	mg/l	8270C	07/29/08	1
1,2,4-Trichlorobenzene	BDL	0.20	mg/l	8270C	07/30/08	20
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.20	mg/l	8270C	07/30/08	20
2-Chlorophenol	BDL	0.20	mg/l	8270C	07/30/08	20
2,4-Dichlorophenol	BDL	0.20	mg/l	8270C	07/30/08	20
2,4-Dimethylphenol	BDL	0.20	mg/l	8270C	07/30/08	20
4,6-Dinitro-2-methylphenol	BDL	0.010	mg/l	8270C	07/29/08	1
2,4-Dinitrophenol	BDL	0.010	mg/l	8270C	07/29/08	1
2-Nitrophenol	BDL	0.20	mg/l	8270C	07/30/08	20
4-Nitrophenol	BDL	0.010	mg/l	8270C	07/29/08	1
Pentachlorophenol	BDL	0.010	mg/l	8270C	07/29/08	1
Phenol	BDL	0.20	mg/l	8270C	07/30/08	20
2,4,6-Trichlorophenol	BDL	0.010	mg/l	8270C	07/29/08	1
Surrogate Recovery						
Nitrobenzene-d5	0.770		% Rec.	8270C	07/29/08	1
2-Fluorobiphenyl	73.9		% Rec.	8270C	07/29/08	1
p-Terphenyl-d14	94.9		% Rec.	8270C	07/29/08	1
Phenol-d5	25.4		% Rec.	8270C	07/29/08	1
2-Fluorophenol	8.49		% Rec.	8270C	07/29/08	1
2,4,6-Tribromophenol	68.0		% Rec.	8270C	07/29/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49  
L355964-02 (SV8270BNA) - Dilution due to matrix



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 6 DAM 1

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:22

ESC Sample # : L355964-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.011	0.00050	mg/l	8021/8015	07/23/08	1
Toluene	0.0089	0.0050	mg/l	8021/8015	07/23/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Total Xylene	0.23	0.0015	mg/l	8021/8015	07/23/08	1
TPH (GC/FID) Low Fraction	1.1	0.10	mg/l	GRO	07/23/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	07/23/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	07/23/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 7 S TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:55

ESC Sample # : L355964-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	150	1.0	mg/l	9056	07/22/08	1
Sulfate	40.	5.0	mg/l	9056	07/22/08	1
Dissolved Solids	620	10.	mg/l	2540C	07/24/08	1
Mercury	BDL	0.00020	mg/l	7470A	07/25/08	1
Arsenic	BDL	0.020	mg/l	6010B	07/26/08	1
Barium	0.16	0.0050	mg/l	6010B	07/26/08	1
Cadmium	BDL	0.0050	mg/l	6010B	07/26/08	1
Chromium	BDL	0.010	mg/l	6010B	07/26/08	1
Copper	BDL	0.020	mg/l	6010B	07/26/08	1
Lead	BDL	0.0050	mg/l	6010B	07/26/08	1
Molybdenum	0.025	0.0050	mg/l	6010B	07/26/08	1
Nickel	BDL	0.020	mg/l	6010B	07/26/08	1
Selenium	BDL	0.020	mg/l	6010B	07/26/08	1
Silver	BDL	0.010	mg/l	6010B	07/26/08	1
Zinc	BDL	0.030	mg/l	6010B	07/26/08	1
Volatile Organics						
Acetone	BDL	12.	mg/l	8260B	07/23/08	250
Acrolein	BDL	12.	mg/l	8260B	07/23/08	250
Acrylonitrile	BDL	2.5	mg/l	8260B	07/23/08	250
Benzene	1.1	0.25	mg/l	8260B	07/23/08	250
Bromobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Bromodichloromethane	BDL	0.25	mg/l	8260B	07/23/08	250
Bromoform	BDL	0.25	mg/l	8260B	07/23/08	250
Bromomethane	BDL	1.2	mg/l	8260B	07/23/08	250
n-Butylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
sec-Butylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
tert-Butylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Carbon tetrachloride	BDL	0.25	mg/l	8260B	07/23/08	250
Chlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Chlorodibromomethane	BDL	0.25	mg/l	8260B	07/23/08	250
Chloroethane	BDL	1.2	mg/l	8260B	07/23/08	250
2-Chloroethyl vinyl ether	BDL	12.	mg/l	8260B	07/23/08	250
Chloroform	BDL	1.2	mg/l	8260B	07/23/08	250
Chloromethane	BDL	0.62	mg/l	8260B	07/23/08	250
2-Chlorotoluene	BDL	0.25	mg/l	8260B	07/23/08	250
4-Chlorotoluene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dibromo-3-Chloropropane	BDL	1.2	mg/l	8260B	07/23/08	250
1,2-Dibromoethane	BDL	0.25	mg/l	8260B	07/23/08	250
Dibromomethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)  
L355964-04 (SV8270BNA) - Dilution due to matrix



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 7 S TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:55

ESC Sample # : L355964-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,4-Dichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Dichlorodifluoromethane	BDL	1.2	mg/l	8260B	07/23/08	250
1,1-Dichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1-Dichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
cis-1,2-Dichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
trans-1,2-Dichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2-Dichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1-Dichloropropene	BDL	0.25	mg/l	8260B	07/23/08	250
1,3-Dichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
cis-1,3-Dichloropropene	BDL	0.25	mg/l	8260B	07/23/08	250
trans-1,3-Dichloropropene	BDL	0.25	mg/l	8260B	07/23/08	250
2,2-Dichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
Di-isopropyl ether	BDL	0.25	mg/l	8260B	07/23/08	250
Ethylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Hexachlorobutadiene	BDL	0.25	mg/l	8260B	07/23/08	250
Isopropylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
p-Isopropyltoluene	BDL	0.25	mg/l	8260B	07/23/08	250
2-Butanone (MEK)	BDL	2.5	mg/l	8260B	07/23/08	250
Methylene Chloride	BDL	1.2	mg/l	8260B	07/23/08	250
4-Methyl-2-pentanone (MIBK)	BDL	2.5	mg/l	8260B	07/23/08	250
Methyl tert-butyl ether	BDL	0.25	mg/l	8260B	07/23/08	250
Naphthalene	BDL	1.2	mg/l	8260B	07/23/08	250
n-Propylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Styrene	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,1,2-Tetrachloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,2,2-Tetrachloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.25	mg/l	8260B	07/23/08	250
Tetrachloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
Toluene	3.3	1.2	mg/l	8260B	07/23/08	250
1,2,3-Trichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2,4-Trichlorobenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,1-Trichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
1,1,2-Trichloroethane	BDL	0.25	mg/l	8260B	07/23/08	250
Trichloroethene	BDL	0.25	mg/l	8260B	07/23/08	250
Trichlorofluoromethane	BDL	1.2	mg/l	8260B	07/23/08	250
1,2,3-Trichloropropane	BDL	0.25	mg/l	8260B	07/23/08	250
1,2,4-Trimethylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,2,3-Trimethylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
1,3,5-Trimethylbenzene	BDL	0.25	mg/l	8260B	07/23/08	250
Vinyl chloride	BDL	0.25	mg/l	8260B	07/23/08	250
Xylenes, Total	2.6	0.75	mg/l	8260B	07/23/08	250
Surrogate Recovery						

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L355964-04 (SV8270BNA) - Dilution due to matrix



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 7 S TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:55

ESC Sample # : L355964-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene-d8	101.		% Rec.	8260B	07/23/08	250
Dibromofluoromethane	103.		% Rec.	8260B	07/23/08	250
4-Bromofluorobenzene	105.		% Rec.	8260B	07/23/08	250
Base/Neutral Extractables						
Acenaphthene	BDL	0.020	mg/l	8270C	07/30/08	20
Acenaphthylene	BDL	0.020	mg/l	8270C	07/30/08	20
Anthracene	0.0078	0.0010	mg/l	8270C	07/29/08	1
Benzidine	BDL	0.050	mg/l	8270C	07/29/08	1
Benzo(a)anthracene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(b)fluoranthene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(k)fluoranthene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(g,h,i)perylene	BDL	0.0010	mg/l	8270C	07/29/08	1
Benzo(a)pyrene	BDL	0.0010	mg/l	8270C	07/29/08	1
Bis(2-chlorethoxy)methane	BDL	0.20	mg/l	8270C	07/30/08	20
Bis(2-chloroethyl)ether	BDL	0.010	mg/l	8270C	07/29/08	1
Bis(2-chloroisopropyl)ether	BDL	0.010	mg/l	8270C	07/29/08	1
4-Bromophenyl-phenylether	BDL	0.010	mg/l	8270C	07/29/08	1
2-Chloronaphthalene	BDL	0.20	mg/l	8270C	07/30/08	20
4-Chlorophenyl-phenylether	BDL	0.20	mg/l	8270C	07/30/08	20
Chrysene	BDL	0.0010	mg/l	8270C	07/29/08	1
Dibenz(a,h)anthracene	BDL	0.0010	mg/l	8270C	07/29/08	1
3,3-Dichlorobenzidine	BDL	0.010	mg/l	8270C	07/29/08	1
2,4-Dinitrotoluene	BDL	0.20	mg/l	8270C	07/30/08	20
2,6-Dinitrotoluene	BDL	0.20	mg/l	8270C	07/30/08	20
Fluoranthene	BDL	0.0010	mg/l	8270C	07/29/08	1
Fluorene	0.053	0.020	mg/l	8270C	07/30/08	20
Hexachlorobenzene	BDL	0.010	mg/l	8270C	07/29/08	1
Hexachloro-1,3-butadiene	BDL	0.20	mg/l	8270C	07/30/08	20
Hexachlorocyclopentadiene	BDL	0.20	mg/l	8270C	07/30/08	20
Hexachloroethane	BDL	0.010	mg/l	8270C	07/29/08	1
Indeno(1,2,3-cd)pyrene	BDL	0.0010	mg/l	8270C	07/29/08	1
Isophorone	BDL	0.20	mg/l	8270C	07/30/08	20
Naphthalene	0.047	0.020	mg/l	8270C	07/30/08	20
Nitrobenzene	BDL	0.20	mg/l	8270C	07/30/08	20
n-Nitrosodimethylamine	BDL	0.050	mg/l	8270C	07/29/08	1
n-Nitrosodiphenylamine	BDL	0.010	mg/l	8270C	07/29/08	1
n-Nitrosodi-n-propylamine	BDL	0.010	mg/l	8270C	07/29/08	1
Phenanthrene	0.028	0.0010	mg/l	8270C	07/29/08	1
Benzybutyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Bis(2-ethylhexyl)phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Di-n-butyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Diethyl phthalate	BDL	0.20	mg/l	8270C	07/30/08	20
Dimethyl phthalate	BDL	0.20	mg/l	8270C	07/30/08	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L355964-04 (SV8270BNA) - Dilution due to matrix



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 7 S TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:55

ESC Sample # : L355964-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Di-n-octyl phthalate	BDL	0.010	mg/l	8270C	07/29/08	1
Pyrene	BDL	0.0010	mg/l	8270C	07/29/08	1
1,2,4-Trichlorobenzene	BDL	0.20	mg/l	8270C	07/30/08	20
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.20	mg/l	8270C	07/30/08	20
2-Chlorophenol	BDL	0.010	mg/l	8270C	07/29/08	1
2,4-Dichlorophenol	BDL	0.20	mg/l	8270C	07/30/08	20
2,4-Dimethylphenol	BDL	0.20	mg/l	8270C	07/30/08	20
4,6-Dinitro-2-methylphenol	BDL	0.010	mg/l	8270C	07/29/08	1
2,4-Dinitrophenol	BDL	0.20	mg/l	8270C	07/30/08	20
2-Nitrophenol	BDL	0.20	mg/l	8270C	07/30/08	20
4-Nitrophenol	BDL	0.20	mg/l	8270C	07/30/08	20
Pentachlorophenol	BDL	0.010	mg/l	8270C	07/29/08	1
Phenol	0.012	0.010	mg/l	8270C	07/29/08	1
2,4,6-Trichlorophenol	BDL	0.20	mg/l	8270C	07/30/08	20
Surrogate Recovery						
p-Terphenyl-d14	96.1		% Rec.	8270C	07/29/08	1
Phenol-d5	22.5		% Rec.	8270C	07/29/08	1
2-Fluorophenol	18.0		% Rec.	8270C	07/29/08	1
2,4,6-Tribromophenol	40.4		% Rec.	8270C	07/29/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49  
L355964-04 (SV8270BNA) - Dilution due to matrix





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 9 DAM 2

Collected By : Brett Kennedy  
Collection Date : 07/18/08 13:10

ESC Sample # : L355964-05

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/23/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	07/23/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	07/23/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	105.		% Rec.	8021/8015	07/23/08	1
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	07/23/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 11 S TRENCH

Collected By : Brett Kennedy  
Collection Date : 07/18/08 12:39

ESC Sample # : L355964-07

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.56	0.050	mg/l	8021/8015	07/23/08	100
Toluene	2.2	0.50	mg/l	8021/8015	07/23/08	100
Ethylbenzene	0.12	0.050	mg/l	8021/8015	07/23/08	100
Total Xylene	2.7	0.15	mg/l	8021/8015	07/23/08	100
TPH (GC/FID) Low Fraction	17.	10.	mg/l	GRO	07/23/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	105.		% Rec.	8021/8015	07/23/08	100
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	07/23/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 12 UPSTREAM FORK

Collected By : Brett Kennedy  
Collection Date : 07/18/08 13:29

ESC Sample # : L355964-08

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	21.	1.0	mg/l	9056	07/22/08	1
Sulfate	47.	5.0	mg/l	9056	07/22/08	1
Dissolved Solids	330	10.	mg/l	2540C	07/24/08	1
Mercury	BDL	0.00020	mg/l	7470A	07/25/08	1
Arsenic	BDL	0.020	mg/l	6010B	07/26/08	1
Barium	0.34	0.0050	mg/l	6010B	07/26/08	1
Cadmium	BDL	0.0050	mg/l	6010B	07/26/08	1
Chromium	0.023	0.010	mg/l	6010B	07/26/08	1
Copper	BDL	0.020	mg/l	6010B	07/26/08	1
Lead	0.0098	0.0050	mg/l	6010B	07/26/08	1
Molybdenum	0.0071	0.0050	mg/l	6010B	07/26/08	1
Nickel	BDL	0.020	mg/l	6010B	07/26/08	1
Selenium	BDL	0.020	mg/l	6010B	07/26/08	1
Silver	BDL	0.010	mg/l	6010B	07/26/08	1
Zinc	0.064	0.030	mg/l	6010B	07/26/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	07/23/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	07/23/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	07/23/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	07/23/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	07/23/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	07/23/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD  
Sample ID : 25 JOINING STREAM CURRENT  
Collected By : Brett Kennedy  
Collection Date : 07/18/08 13:50

ESC Sample # : L355964-09

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	92.	1.0	mg/l	9056	07/22/08	1
Sulfate	43.	5.0	mg/l	9056	07/22/08	1
Dissolved Solids	480	10.	mg/l	2540C	07/24/08	1
Mercury	BDL	0.00020	mg/l	7470A	07/25/08	1
Arsenic	BDL	0.020	mg/l	6010B	07/26/08	1
Barium	0.13	0.0050	mg/l	6010B	07/26/08	1
Cadmium	BDL	0.0050	mg/l	6010B	07/26/08	1
Chromium	BDL	0.010	mg/l	6010B	07/26/08	1
Copper	BDL	0.020	mg/l	6010B	07/26/08	1
Lead	BDL	0.0050	mg/l	6010B	07/26/08	1
Molybdenum	BDL	0.0050	mg/l	6010B	07/26/08	1
Nickel	BDL	0.020	mg/l	6010B	07/26/08	1
Selenium	BDL	0.020	mg/l	6010B	07/26/08	1
Silver	BDL	0.010	mg/l	6010B	07/26/08	1
Zinc	BDL	0.030	mg/l	6010B	07/26/08	1
Volatile Organics						
Acetone	BDL	0.050	mg/l	8260B	07/23/08	1
Acrolein	BDL	0.050	mg/l	8260B	07/23/08	1
Acrylonitrile	BDL	0.010	mg/l	8260B	07/23/08	1
Benzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Bromobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Bromodichloromethane	BDL	0.0010	mg/l	8260B	07/23/08	1
Bromoform	BDL	0.0010	mg/l	8260B	07/23/08	1
Bromomethane	BDL	0.0050	mg/l	8260B	07/23/08	1
n-Butylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
sec-Butylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
tert-Butylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Carbon tetrachloride	BDL	0.0010	mg/l	8260B	07/23/08	1
Chlorobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Chlorodibromomethane	BDL	0.0010	mg/l	8260B	07/23/08	1
Chloroethane	BDL	0.0050	mg/l	8260B	07/23/08	1
2-Chloroethyl vinyl ether	BDL	0.050	mg/l	8260B	07/23/08	1
Chloroform	BDL	0.0050	mg/l	8260B	07/23/08	1
Chloromethane	BDL	0.0025	mg/l	8260B	07/23/08	1
2-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/23/08	1
4-Chlorotoluene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2-Dibromo-3-Chloropropane	BDL	0.0050	mg/l	8260B	07/23/08	1
1,2-Dibromoethane	BDL	0.0010	mg/l	8260B	07/23/08	1
Dibromomethane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD

Sample ID : 25 JOINING STREAM CURRENT

Collected By : Brett Kennedy  
Collection Date : 07/18/08 13:50

ESC Sample # : L355964-09

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,4-Dichlorobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Dichlorodifluoromethane	BDL	0.0050	mg/l	8260B	07/23/08	1
1,1-Dichloroethane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2-Dichloroethane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1-Dichloroethene	BDL	0.0010	mg/l	8260B	07/23/08	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/23/08	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1-Dichloropropene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,3-Dichloropropane	BDL	0.0010	mg/l	8260B	07/23/08	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/23/08	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/l	8260B	07/23/08	1
2,2-Dichloropropane	BDL	0.0010	mg/l	8260B	07/23/08	1
Di-isopropyl ether	BDL	0.0010	mg/l	8260B	07/23/08	1
Ethylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Hexachlorobutadiene	BDL	0.0010	mg/l	8260B	07/23/08	1
Isopropylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
p-Isopropyltoluene	BDL	0.0010	mg/l	8260B	07/23/08	1
2-Butanone (MEK)	BDL	0.010	mg/l	8260B	07/23/08	1
Methylene Chloride	BDL	0.0050	mg/l	8260B	07/23/08	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/l	8260B	07/23/08	1
Methyl tert-butyl ether	BDL	0.0010	mg/l	8260B	07/23/08	1
Naphthalene	BDL	0.0050	mg/l	8260B	07/23/08	1
n-Propylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Styrene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0010	mg/l	8260B	07/23/08	1
Tetrachloroethene	BDL	0.0010	mg/l	8260B	07/23/08	1
Toluene	BDL	0.0050	mg/l	8260B	07/23/08	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1,1-Trichloroethane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,1,2-Trichloroethane	BDL	0.0010	mg/l	8260B	07/23/08	1
Trichloroethene	BDL	0.0010	mg/l	8260B	07/23/08	1
Trichlorofluoromethane	BDL	0.0050	mg/l	8260B	07/23/08	1
1,2,3-Trichloropropane	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/l	8260B	07/23/08	1
Vinyl chloride	BDL	0.0010	mg/l	8260B	07/23/08	1
Xylenes, Total	BDL	0.0030	mg/l	8260B	07/23/08	1
Surrogate Recovery						

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

July 31, 2008

Date Received : July 19, 2008  
Description : 09-61 PAD  
Sample ID : 25 JOINING STREAM CURRENT  
Collected By : Brett Kennedy  
Collection Date : 07/18/08 13:50

ESC Sample # : L355964-09

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene-d8	99.9		% Rec.	8260B	07/23/08	1
Dibromofluoromethane	106.		% Rec.	8260B	07/23/08	1
4-Bromofluorobenzene	99.9		% Rec.	8260B	07/23/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 07/31/08 15:49 Printed: 07/31/08 16:49

Attachment A  
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L355964-02	Benzidine	J3
	Nitrobenzene-d5	J2
	2-Fluorophenol	J2
L355964-04	Benzidine	J3
L355964-10	Acetone	J4
	Bromobenzene	J3
	2-Butanone (MEK)	J4
	4-Methyl-2-pentanone (MIBK)	J4
	Benzidine	J3
L355964-11	Acetone	J3
	Acrylonitrile	J3
	2-Butanone (MEK)	J3
	4-Methyl-2-pentanone (MIBK)	J3
	Benzidine	J3

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



Summary of Remarks For Samples Printed  
07/31/08 at 16:49:34

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L355964-01 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Metals pH adjusted at lab 7/19/08 17:00  
Sample: L355964-02 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Metals pH adjusted at lab 7/19/08 17:00  
Sample: L355964-03 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
  
Sample: L355964-04 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Metals pH adjusted at lab 7/19/08 17:00  
Sample: L355964-05 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Removed dash 6 per NCF. Client will resample.  
Sample: L355964-07 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
  
Sample: L355964-08 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Metals pH adjusted at lab 7/19/08 17:00  
Sample: L355964-09 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Metals pH adjusted at lab 7/19/08 17:00  
Sample: L355964-10 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
  
Sample: L355964-11 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
  
Sample: L355964-12 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49  
Metals pH adjusted at lab 7/19/08 17:00  
Sample: L355964-13 Account: OXYGJCO Received: 07/19/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/31/08 15:49



# ENVIRONMENTAL SCIENCE CORP.

## SAMPLE NON-CONFORMANCE FORM

Sample No.: L356193Date: 7/22/08Evaluated by: RJKClient: WALSHGSCO

### Non-Conformance (check applicable items)

- |   |  |
|---|--|
| <input type="checkbox"/> Chain of Custody is missing                          | <input type="checkbox"/> Login Clarification Needed  |
| <input type="checkbox"/> Improper container type                              | <input type="checkbox"/> Improper preservation   |
| <input type="checkbox"/> Chain of custody is incomplete                       | <input type="checkbox"/> Container lid not intact  |
| <input type="checkbox"/> Parameter(s) past holding time                       | <input type="checkbox"/> Improper temperature  |
| <input type="checkbox"/> Broken container(s) <b>see below</b>                 | <input type="checkbox"/> Broken container: sufficient sample volume remains for analysis requested |
| <input type="checkbox"/> Insufficient packing material around container       |  |
| <input type="checkbox"/> Insufficient packing material inside cooler          |  |
| <input type="checkbox"/> Improper handling by carrier (FedEx / UPS / Courier) |  |
| <input type="checkbox"/> Sample was frozen                                    |  |

Comments: ① What TPH? ② Client requests MA? MG or MN?  
Clarify Hot water sol. Barium

### Login Instructions:

TSR Initials: MBClient informed by call email / fax / voice mail date: 7/23/08 time: 1615Client contact: Brett / Ed1) GROUNDWATER2) MPECRA + Cu, Mg, Ni, Zn, BLog R4 due 7/25



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Saturday July 26, 2008

Report Number: L356193

Samples Received: 07/22/08

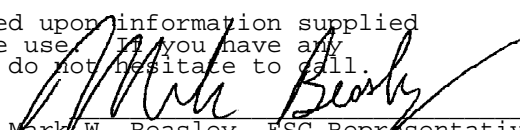
Client Project:

Description: Latham Creek

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

9 Samples Reported: 07/26/08 17:43 Printed: 07/26/08 17:43

Page 1 of 12



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek  
Sample ID : N SEEP 0-6 FT  
Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:04

ESC Sample # : L356193-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.3		su	9045D	07/25/08	1
Sodium Adsorption Ratio	6.3			Calc.	07/25/08	1
Specific Conductance	530		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	3.2	1.0	mg/kg	6010B	07/25/08	1
Barium	210	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.71	0.25	mg/kg	6010B	07/25/08	1
Chromium	34.	0.50	mg/kg	6010B	07/25/08	1
Copper	15.	1.0	mg/kg	6010B	07/25/08	1
Lead	14.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	4600	5.0	mg/kg	6010B	07/25/08	1
Nickel	17.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	1.0	mg/kg	6010B	07/25/08	1
Silver	BDL	0.50	mg/kg	6010B	07/25/08	1
Zinc	58.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.025	mg/kg	8021/8015	07/23/08	50
Toluene	BDL	0.25	mg/kg	8021/8015	07/23/08	50
Ethylbenzene	BDL	0.025	mg/kg	8021/8015	07/23/08	50
Total Xylene	0.22	0.075	mg/kg	8021/8015	07/23/08	50
TPH (GC/FID) Low Fraction	63.	5.0	mg/kg	GRO	07/23/08	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.3		% Rec.	8021/8015	07/23/08	50
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/23/08	50
TPH (GC/FID) High Fraction	130	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	110.		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-01 (PH) - 7.3@21.0c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek

Sample ID : N SEEP 6-12 FT

Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:08

ESC Sample # : L356193-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.0		su	9045D	07/25/08	1
Sodium Adsorption Ratio	5.1			Calc.	07/25/08	1
Specific Conductance	430		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	2.3	1.0	mg/kg	6010B	07/25/08	1
Barium	200	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.74	0.25	mg/kg	6010B	07/25/08	1
Chromium	29.	0.50	mg/kg	6010B	07/25/08	1
Copper	15.	1.0	mg/kg	6010B	07/25/08	1
Lead	13.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	4700	5.0	mg/kg	6010B	07/25/08	1
Nickel	20.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	1.0	mg/kg	6010B	07/25/08	1
Silver	BDL	0.50	mg/kg	6010B	07/25/08	1
Zinc	59.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	0.12	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	0.10	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	35.	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	89.3		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	99.7		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	140	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	98.6		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-02 (PH) - 7.0@21.1c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek

Sample ID : N SEEP 12-18 FT

Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:12

ESC Sample # : L356193-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.1		su	9045D	07/25/08	1
Sodium Adsorption Ratio	5.5			Calc.	07/25/08	1
Specific Conductance	540		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	2.8	1.0	mg/kg	6010B	07/25/08	1
Barium	190	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.72	0.25	mg/kg	6010B	07/25/08	1
Chromium	31.	0.50	mg/kg	6010B	07/25/08	1
Copper	16.	1.0	mg/kg	6010B	07/25/08	1
Lead	15.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	4600	5.0	mg/kg	6010B	07/25/08	1
Nickel	18.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	1.0	mg/kg	6010B	07/25/08	1
Silver	BDL	0.50	mg/kg	6010B	07/25/08	1
Zinc	59.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.10	mg/kg	8021/8015	07/23/08	200
Toluene	BDL	1.0	mg/kg	8021/8015	07/23/08	200
Ethylbenzene	1.4	0.10	mg/kg	8021/8015	07/23/08	200
Total Xylene	1.4	0.30	mg/kg	8021/8015	07/23/08	200
TPH (GC/FID) Low Fraction	430	20.	mg/kg	GRO	07/23/08	200
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.7		% Rec.	8021/8015	07/23/08	200
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/23/08	200
TPH (GC/FID) High Fraction	110	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	96.5		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-03 (PH) - 7.1@21.3c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek  
Sample ID : S SEEP 0-6 FT  
Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:27

ESC Sample # : L356193-04

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.3		su	9045D	07/25/08	1
Sodium Adsorption Ratio	4.2			Calc.	07/25/08	1
Specific Conductance	780		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	7.5	1.0	mg/kg	6010B	07/25/08	1
Barium	140	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.74	0.25	mg/kg	6010B	07/25/08	1
Chromium	20.	0.50	mg/kg	6010B	07/25/08	1
Copper	16.	1.0	mg/kg	6010B	07/25/08	1
Lead	14.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	3300	5.0	mg/kg	6010B	07/25/08	1
Nickel	12.	1.0	mg/kg	6010B	07/25/08	1
Selenium	1.7	1.0	mg/kg	6010B	07/25/08	1
Silver	BDL	0.50	mg/kg	6010B	07/25/08	1
Zinc	46.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.6		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	16.	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	89.6		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-04 (PH) - 7.3@21.3c





# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek

Sample ID : S SEEP 6-12 FT

Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:31

ESC Sample # : L356193-05

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.4		su	9045D	07/25/08	1
Sodium Adsorption Ratio	3.8			Calc.	07/25/08	1
Specific Conductance	520		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	14.	1.0	mg/kg	6010B	07/25/08	1
Barium	160	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.81	0.25	mg/kg	6010B	07/25/08	1
Chromium	22.	0.50	mg/kg	6010B	07/25/08	1
Copper	18.	1.0	mg/kg	6010B	07/25/08	1
Lead	16.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	3500	5.0	mg/kg	6010B	07/25/08	1
Nickel	18.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	1.0	mg/kg	6010B	07/25/08	1
Silver	0.97	0.50	mg/kg	6010B	07/25/08	1
Zinc	52.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.9		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	11.	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	103.		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-05 (PH) - 7.4@21.0c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek  
Sample ID : S SEEP 12-18 FT  
Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:35

ESC Sample # : L356193-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.2		su	9045D	07/25/08	1
Sodium Adsorption Ratio	3.8			Calc.	07/25/08	1
Specific Conductance	660		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	16.	1.0	mg/kg	6010B	07/25/08	1
Barium	160	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.83	0.25	mg/kg	6010B	07/25/08	1
Chromium	27.	0.50	mg/kg	6010B	07/25/08	1
Copper	21.	1.0	mg/kg	6010B	07/25/08	1
Lead	16.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	3900	5.0	mg/kg	6010B	07/25/08	1
Nickel	21.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	5.0	mg/kg	6010B	07/25/08	5
Silver	1.0	0.50	mg/kg	6010B	07/25/08	1
Zinc	54.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	0.034	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.7		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	BDL	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	94.7		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-06 (PH) - 7.2@21.3c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek  
Sample ID : S-ALPHA SEEP 0-6 FT  
Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:49

ESC Sample # : L356193-07

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.5		su	9045D	07/25/08	1
Sodium Adsorption Ratio	2.6			Calc.	07/25/08	1
Specific Conductance	870		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/24/08	1
Arsenic	5.9	1.0	mg/kg	6010B	07/25/08	1
Barium	230	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.75	0.25	mg/kg	6010B	07/25/08	1
Chromium	28.	0.50	mg/kg	6010B	07/25/08	1
Copper	11.	1.0	mg/kg	6010B	07/25/08	1
Lead	13.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	4100	5.0	mg/kg	6010B	07/25/08	1
Nickel	18.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	5.0	mg/kg	6010B	07/25/08	5
Silver	1.0	0.50	mg/kg	6010B	07/25/08	1
Zinc	54.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.7		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	98.9		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	9.3	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	103.		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-07 (PH) - 7.5@21.3c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek  
Sample ID : S-ALPHA SEEP 6-12 FT  
Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:52

ESC Sample # : L356193-08

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	7.1		su	9045D	07/25/08	1
Sodium Adsorption Ratio	2.1			Calc.	07/25/08	1
Specific Conductance	900		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/25/08	1
Arsenic	7.9	1.0	mg/kg	6010B	07/25/08	1
Barium	200	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.66	0.25	mg/kg	6010B	07/25/08	1
Chromium	23.	0.50	mg/kg	6010B	07/25/08	1
Copper	11.	1.0	mg/kg	6010B	07/25/08	1
Lead	12.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	3200	5.0	mg/kg	6010B	07/25/08	1
Nickel	17.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	1.0	mg/kg	6010B	07/25/08	1
Silver	0.93	0.50	mg/kg	6010B	07/25/08	1
Zinc	46.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.4		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	15.	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	102.		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-08 (PH) - 7.1@21.2c



# ENVIRONMENTAL SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

## REPORT OF ANALYSIS

Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

July 26, 2008

Date Received : July 22, 2008  
Description : Latham Creek  
Sample ID : S-ALPHA SEEP 12-18 FT  
Collected By : Brett Kennedy  
Collection Date : 07/21/08 14:54

ESC Sample # : L356193-09

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	6.5		su	9045D	07/25/08	1
Sodium Adsorption Ratio	2.2			Calc.	07/25/08	1
Specific Conductance	880		umhos/cm	9050AMod	07/25/08	1
Mercury	BDL	0.020	mg/kg	7471	07/25/08	1
Arsenic	8.7	1.0	mg/kg	6010B	07/25/08	1
Barium	250	0.25	mg/kg	6010B	07/25/08	1
Boron	BDL	10.	mg/kg	6010B	07/25/08	1
Cadmium	0.74	0.25	mg/kg	6010B	07/25/08	1
Chromium	21.	0.50	mg/kg	6010B	07/25/08	1
Copper	17.	1.0	mg/kg	6010B	07/25/08	1
Lead	15.	0.25	mg/kg	6010B	07/25/08	1
Magnesium	4500	5.0	mg/kg	6010B	07/25/08	1
Nickel	18.	1.0	mg/kg	6010B	07/25/08	1
Selenium	BDL	1.0	mg/kg	6010B	07/25/08	1
Silver	0.82	0.50	mg/kg	6010B	07/25/08	1
Zinc	51.	1.5	mg/kg	6010B	07/25/08	1
Benzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/23/08	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/23/08	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/23/08	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/23/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.4		% Rec.	8021/8015	07/23/08	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/23/08	5
TPH (GC/FID) High Fraction	12.	4.0	mg/kg	3546/DRO	07/24/08	1
Surrogate Recovery (50-150)						
o-Terphenyl	97.5		% Rec.	3546/DRO	07/24/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/26/08 17:43 Printed: 07/26/08 17:44  
L356193-09 (PH) - 6.5@21..3c

Attachment A  
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L356193-06	Selenium	O
L356193-07	Selenium	O

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
07/26/08 at 17:44:10

TSR Signing Reports: 134  
R4 - Rush: Three Day

Sample: L356193-01 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-02 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-03 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-04 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-05 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-06 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-07 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-08 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43  
Sample: L356193-09 Account: WALSHGJCO Received: 07/22/08 09:00 Due Date: 07/25/08 00:00 RPT Date: 07/26/08 17:43



Company Name/Address:

**Walsh Env.- Grand Junction**535 Grand Avenue  
Grand Junction.CO 81501

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody  
Page \_\_\_ of \_\_\_

Prepared by:

**ENVIRONMENTAL  
SCIENCE CORP.**12065 Lebanon Road  
Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to:

Brett Kennedy / Ed Baltzer

Email to: brett-kennedy@oxy.com

ebaltzer@walshenv.com

Project

Description: Latham

City/State

Collected CO

Phone: (970) 241-4636

FAX:

Client Project #:

7830-160

ESC Key:

Collected by:

Bob Stockton

Site/Facility ID#:

P.O.#:

7830-160

Collected by (signature):

**[Rush?]** (Lab MUST Be Notified)

Same Day.....200%

Next Day.....100%

Two Day.....50%

Three Day.....25%

Date Results Needed:

Email? ☐ No ☒ YesFAX? ☒ No ☐ Yes

No.

of

Con

Trs

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix\*

Depth

Date

Time

073108 - DOC #10

Grab

SW

N/A

7/31/08

0931

3

✓

✓

073108 - Dam 2 #9

Grab

SW

NA

7/31/08

0944

2

✓

✓

073108 - S1 #7

Grab

SW

NA

7/31/08

1001

2

✓

✓

073108 - S2 #11

Grab

SW

NA

7/31/08

1006

2

✓

✓

073108 - US #1

Grab

SW

NA

7/31/08

1020

2

✓

✓

073108 - NT #2

Grab

SW

NA

7/31/08

1026

2

✓

✓

073108 - Dam 1 #6

Grab

SW

NA

7/31/08

1036

2

✓

✓

073108 - NT #4

Grab

SW

NA

7/31/08

1041

2

✓

✓

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH Temp

Other

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS☒ FedEx ☐ Courier ☐

Condition:

(lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp:

Bottles Received:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

pH Checked:

NCF:

✓



# ENVIRONMENTAL SCIENCE CORP.

## SAMPLE NON-CONFORMANCE FORM

Sample No. : 6357816

Date: 8/1/08

Evaluated by: Joseph

Client: WALSHGSCO

### Non-Conformance (check applicable items)

- |   |  |
|---|--|
| <input type="checkbox"/> Chain of Custody is missing                          | <input checked="" type="checkbox"/> Login Clarification Needed                                     |
| <input type="checkbox"/> Improper container type                              | <input type="checkbox"/> Improper preservation   |
| <input type="checkbox"/> Chain of custody is incomplete                       | <input type="checkbox"/> Container lid not in tact   |
| <input type="checkbox"/> Parameter(s) past holding time                       | <input type="checkbox"/> Improper temperature  |
| <input type="checkbox"/> Broken container(s) <b>see below</b>                 | <input type="checkbox"/> Broken container: sufficient sample volume remains for analysis requested |
| <input type="checkbox"/> Insufficient packing material around container       |  |
| <input type="checkbox"/> Insufficient packing material inside cooler          |  |
| <input type="checkbox"/> Improper handling by carrier (FedEx / UPS / Courier) |  |
| <input type="checkbox"/> Sample was frozen                                    |  |

Comments: Received a TDS bottle for 073108-DOC #10, not listed on the chain.

Login Instructions:

TSR Initials: MB

Client informed by call / email / fax / voice mail date: 8/1/08 time: 1640

Client contact: \_\_\_\_\_

- Am for TDS



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Monday August 11, 2008

Report Number: L357816

Samples Received: 08/01/08

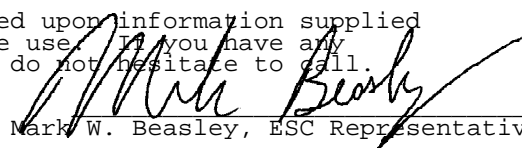
Client Project: 7830-160

Description: Latham

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

13 Samples Reported: 08/07/08 12:01 Revised: 08/11/08 14:59

Page 1 of 16



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham

Sample ID : 073108-DOC 10

Collected By : Bob Stockton  
Collection Date : 07/31/08 09:31

ESC Sample # : L357816-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dissolved Solids	360	10.	mg/l	2540C	08/07/08	1
Benzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/04/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/04/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/04/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.0		% Rec.	8021/8015	08/04/08	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	08/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham

Sample ID : 073108-DAM2 9

Collected By : Bob Stockton  
Collection Date : 07/31/08 09:44

ESC Sample # : L357816-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/04/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/04/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/04/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.8		% Rec.	8021/8015	08/04/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham

Sample ID : 073108-S1 7

Collected By : Bob Stockton  
Collection Date : 07/31/08 10:01

ESC Sample # : L357816-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	1.0	0.0050	mg/l	8021/8015	08/06/08	10
Toluene	2.5	0.050	mg/l	8021/8015	08/06/08	10
Ethylbenzene	0.22	0.0050	mg/l	8021/8015	08/06/08	10
Total Xylene	4.3	0.015	mg/l	8021/8015	08/06/08	10
TPH (GC/FID) Low Fraction	15.	1.0	mg/l	GRO	08/06/08	10
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	90.1		% Rec.	8021/8015	08/06/08	10
a,a,a-Trifluorotoluene(PID)	98.3		% Rec.	8021/8015	08/06/08	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham

Sample ID : 073108-S2 11

Collected By : Bob Stockton  
Collection Date : 07/31/08 10:06

ESC Sample # : L357816-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.13	0.00050	mg/l	8021/8015	08/04/08	1
Toluene	0.079	0.0050	mg/l	8021/8015	08/04/08	1
Ethylbenzene	0.0075	0.00050	mg/l	8021/8015	08/04/08	1
Total Xylene	0.32	0.0015	mg/l	8021/8015	08/04/08	1
TPH (GC/FID) Low Fraction	0.98	0.10	mg/l	GRO	08/04/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.0		% Rec.	8021/8015	08/04/08	1
a,a,a-Trifluorotoluene(PID)	103.		% Rec.	8021/8015	08/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham

Sample ID : 073108-US 1

Collected By : Bob Stockton  
Collection Date : 07/31/08 10:20

ESC Sample # : L357816-05

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.0057	0.00050	mg/l	8021/8015	08/06/08	1
Toluene	0.0051	0.0050	mg/l	8021/8015	08/06/08	1
Ethylbenzene	0.00080	0.00050	mg/l	8021/8015	08/06/08	1
Total Xylene	0.16	0.0015	mg/l	8021/8015	08/06/08	1
TPH (GC/FID) Low Fraction	0.67	0.10	mg/l	GRO	08/06/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	90.4		% Rec.	8021/8015	08/06/08	1
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	08/06/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham  
Sample ID : 073108-NT 2  
Collected By : Bob Stockton  
Collection Date : 07/31/08 10:28

ESC Sample # : L357816-06

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.76	0.025	mg/l	8021/8015	08/04/08	50
Toluene	3.5	0.25	mg/l	8021/8015	08/04/08	50
Ethylbenzene	0.33	0.025	mg/l	8021/8015	08/04/08	50
Total Xylene	8.1	0.075	mg/l	8021/8015	08/04/08	50
TPH (GC/FID) Low Fraction	24.	5.0	mg/l	GRO	08/04/08	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.4		% Rec.	8021/8015	08/04/08	50
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/04/08	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham

Sample ID : 073108-DAM1 6

Collected By : Bob Stockton  
Collection Date : 07/31/08 10:36

ESC Sample # : L357816-07

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Toluene	0.0086	0.0050	mg/l	8021/8015	08/04/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Total Xylene	0.097	0.0015	mg/l	8021/8015	08/04/08	1
TPH (GC/FID) Low Fraction	0.38	0.10	mg/l	GRO	08/04/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.2		% Rec.	8021/8015	08/04/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	08/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 11, 2008

Date Received : August 01, 2008  
Description : Latham  
Sample ID : 073108-NT 4  
Collected By : Bob Stockton  
Collection Date : 07/31/08 10:41

ESC Sample # : L357816-08

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/04/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/04/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/04/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/04/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	08/04/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/04/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/07/08 12:01 Revised: 08/11/08 14:59

Attachment A  
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L357816-03	Toluene	E
	Total Xylene	E

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
08/11/08 at 14:59:24

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L357816-01 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-02 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-03 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-04 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-05 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-06 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-07 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-08 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-09 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-10 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-11 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-12 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01  
Sample: L357816-13 Account: WALSHGJCO Received: 08/01/08 09:00 Due Date: 08/08/08 00:00 RPT Date: 08/07/08 12:01

Company Name/Address: <b>Walsh Env.- Grand Junction</b>  535 Grand Avenue Grand Junction.CO 81501		Alternate billing information:		Analysis/Container/Preservative				Chain of Custody Page ____ of ____  Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b>  12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859			
Report to: <b>Brett Kennedy / Ed Baltzer</b>		Email to: <b>brett.kennedy@oxy.com</b> <b>ebaltzer@walshenv.com</b>		<div style="font-size: 2em; font-weight: bold;">BTX</div> <div style="font-size: 2em; font-weight: bold;">TVH</div>							
Project Description: <b>Latham</b>		City/State Collected: <b>CO</b>									
Phone: <b>(970) 241-4636</b> FAX:		Client Project #: <b>7830-1160</b> ESC Key:									
Collected by: <b>Tara Hicks</b>		Site/Facility ID#:								P.O.#: <b>7830-1160</b>	
Collected by (signature): <i>Tara Hicks</i> Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		<b>Rush?</b> (Lab MUST Be Notified) <input type="checkbox"/> Same Day ..... 200% <input type="checkbox"/> Next Day ..... 100% <input type="checkbox"/> Two Day ..... 50% <input type="checkbox"/> Three Day ..... 25%								Date Results Needed: Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
CoCode: <b>WALSHGJC</b> (lab use only) Template/Prelogin Shipped Via:		Remarks/Contaminant		Sample # (lab only)							

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs				
080708-WT #4	Grab	SW	NA	8/7/08	10:15	2	✓	✓		
080708-Dam 2 #9	Grab	SW	NA	8/7/08	10:50	2	✓	✓		
080708-DOC #10	Grab	SW	NA	8/7/08	11:00	2	✓	✓		

\*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - Waste/Water **DW** - Drinking Water **OT** - Other \_\_\_\_\_

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <i>Tara Hicks</i>		Date: <b>8/7/08</b>		Time: <b>3:45</b>		Received by: (Signature) <b>FED EX</b>		Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <b>OK</b>	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <b>4.7</b>		Bottles Received: <b>64</b>	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) <i>Josh Belkin</i>		Date: <b>8-8-08</b>		pH Checked: <b>6.4</b> NCF:	





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Tuesday August 12, 2008

Report Number: L359042

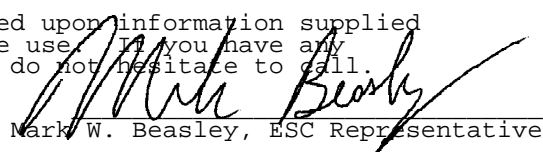
Samples Received: 08/08/08

Client Project: 7830-160

Description: Latham

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

3 Samples Reported: 08/12/08 15:35 Printed: 08/12/08 15:35

Page 1 of 4



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 12, 2008

Date Received : August 08, 2008  
Description : Latham

Sample ID : 080708-WT-4

Collected By : Tara Hicks  
Collection Date : 08/07/08 10:15

ESC Sample # : L359042-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/12/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/12/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/12/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/12/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/12/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	08/12/08	1
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021/8015	08/12/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/12/08 15:35 Printed: 08/12/08 15:35



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 12, 2008

Date Received : August 08, 2008  
Description : Latham

Sample ID : 080708-DAM 2 9

Collected By : Tara Hicks  
Collection Date : 08/07/08 10:50

ESC Sample # : L359042-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/12/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/12/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/12/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/12/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/12/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	107.		% Rec.	8021/8015	08/12/08	1
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021/8015	08/12/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/12/08 15:35 Printed: 08/12/08 15:35



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 12, 2008

Date Received : August 08, 2008  
Description : Latham

Sample ID : 080708-DOC 10

Collected By : Tara Hicks  
Collection Date : 08/07/08 11:00

ESC Sample # : L359042-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/12/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/12/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/12/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/12/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/12/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	107.		% Rec.	8021/8015	08/12/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/12/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/12/08 15:35 Printed: 08/12/08 15:35

Summary of Remarks For Samples Printed  
08/12/08 at 15:35:50

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L359042-01 Account: WALSHGJCO Received: 08/08/08 09:00 Due Date: 08/15/08 00:00 RPT Date: 08/12/08 15:35

Sample: L359042-02 Account: WALSHGJCO Received: 08/08/08 09:00 Due Date: 08/15/08 00:00 RPT Date: 08/12/08 15:35

Sample: L359042-03 Account: WALSHGJCO Received: 08/08/08 09:00 Due Date: 08/15/08 00:00 RPT Date: 08/12/08 15:35

Company Name/Address: <b>Walsh Env.- Grand Junction</b>  535 Grand Avenue Grand Junction, CO 81501		Alternate billing information:		Analysis/Container/Preservative				Chain of Custody Page ___ of ___  Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b> 12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859	
Report to: <b>Brett Kennedy / Ed Baltzer</b>		Email to: <b>brett.kennedy@wshenvi.com</b> <b>ebaltzer@wshenvi.com</b>		BTEX TVH					
Project Description: <b>Latham</b>		City/State Collected: <b>CO</b>							
Phone: (970) 241-4636 FAX:		Client Project #: <b>7830-1260</b> ESC Key:							
Collected by: <b>Tara Hicks</b>		Site/Facility ID#:							
Collected by (signature): <i>Tara Hicks</i>		P.O.#: <b>7830-160</b>							
Packed on Ice N ___ Y <input checked="" type="checkbox"/>		<b>Rush?</b> (Lab MUST Be Notified) ___ Same Day ..... 200% ___ Next Day ..... 100% ___ Two Day ..... 50% ___ Three Day ..... 25%		Date Results Needed: Email? ___ No <input checked="" type="checkbox"/> Yes FAX? <input checked="" type="checkbox"/> No ___ Yes		No. of Cntrs		CoCode: <b>WALSHGJC</b> (lab use only) Template/Prelogin Shipped Via:	
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant	Sample # (lab only)
081408 - DOC #10	Grab	SW	NA	8/14/08	11:05	2	✓		1360312nd
081408 - Dam 2 #9	Grab	SW	NA	8/14/08	11:00	2	✓		22
081408 - S2 #7	Grab	SW	NA	8/14/08	10:25	2	✓		22
081408 - S2 #11	Grab	SW	NA	8/14/08	10:40	2	✓		24
081408 - US #1	Grab	SW	NA	8/14/08	10:05	2	✓		25
081408 - UT #2	Grab	SW	NA	8/14/08	10:30	2	✓		26
081408 - Dam 2 #6	Grab	SW	NA	8/14/08	10:18	2	✓		27
081408 - WT #4	Grab	SW	NA	8/14/08	10:11	2	✓		28

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Relinquished by: (Signature) <i>[Signature]</i>		Date: 8/14/08	Time: 3:15	Received by: (Signature) <b>FED EX</b>		168 7430 9857 Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only)	
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received by: (Signature) <i>[Signature]</i>		Temp: 4.3°C	Bottles Received: 28		
Relinquished by: (Signature) <i>[Signature]</i>		Date:	Time:	Received for lab by: (Signature) <b>M-12</b>		Date: 8-15-08	Time: 0900		

Company Name/Address:

**Walsh Env.- Grand Junction**535 Grand Avenue  
Grand Junction, CO 81501

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody  
Page \_\_\_ of \_\_\_

Prepared by:

**ENVIRONMENTAL  
SCIENCE CORP.**12065 Lebanon Road  
Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to: **Brett Kennedy / Ed Baltzer**Email to: **b.kennedy@WalshEnv.com**  
**ebaltzer@WalshEnv.com**Project  
Description: **605-01**City/State  
Collected: **CO**

Phone: (970) 241-4636

Client Project #:

ESC Key:

FAX:

**7830-160**Collected by: **Tara Hicks**

Site/Facility ID#:

P.O.#: **7830-160**

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Date Results Needed:

☐ Same Day ..... 200%  
☐ Next Day ..... 100%  
☐ Two Day ..... 50%  
☐ Three Day ..... 25%

Email? ☐ No ☒ YesFAX? ☐ No ☒ YesNo.  
of  
Cntrs**BTEX**  
**GRO**CoCode **WALSHGJC** (lab use only)

Template/Prelogin

Shipped Via:

Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Remarks/Contaminant	Sample # (lab only)
081408 - Upstream #1	Grab	SW	NA	8/14/08		2 ✓		136031209
081408 - N. Spring #2	Grab	SW	NA	8/14/08		2 ✓		-10
081408 - New Pond #5	Grab	SW	NA	8/14/08		2 ✓		-11
081408 - S. Spring #3	Grab	SW	NA	8/14/08		2 ✓		-12
081408 - Downstream #4	Grab	SW	NA	8/14/08		2 ✓		-13
<del>New Pond #5</del>						<del>2</del>		

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <i>Tara Hicks</i>	Date: 8/14/08	Time: 3:15	Received by: (Signature) <b>FED EX</b>	Samples returned via: <input checked="" type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other		Condition: (lab use only)	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3°	Bottles Received: 26		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>M-J</i>	Date: 8-15-08	Time: 0800	pH Checked:	NCF: <i>(initials)</i>



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Tuesday August 19, 2008

Report Number: L360312

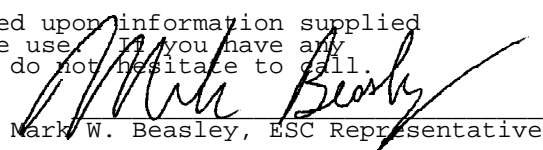
Samples Received: 08/15/08

Client Project: 7830-160

Description: Latham

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

13 Samples Reported: 08/19/08 13:31 Printed: 08/19/08 13:31

Page 1 of 14





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-DOC 10

Collected By : Tara Hicks  
Collection Date : 08/14/08 11:05

ESC Sample # : L360312-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	105.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-DAM2 9

Collected By : Tara Hicks  
Collection Date : 08/14/08 11:00

ESC Sample # : L360312-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-S1 7

Collected By : Tara Hicks  
Collection Date : 08/14/08 10:25

ESC Sample # : L360312-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.64	0.050	mg/l	8021/8015	08/19/08	100
Toluene	0.69	0.50	mg/l	8021/8015	08/19/08	100
Ethylbenzene	BDL	0.050	mg/l	8021/8015	08/19/08	100
Total Xylene	2.3	0.15	mg/l	8021/8015	08/19/08	100
TPH (GC/FID) Low Fraction	12.	10.	mg/l	GRO	08/19/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	08/19/08	100
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/19/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham  
Sample ID : 081408-S2 11  
Collected By : Tara Hicks  
Collection Date : 08/14/08 10:40

ESC Sample # : L360312-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.11	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	0.029	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	0.0058	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	0.25	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	1.2	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-US 1

Collected By : Tara Hicks  
Collection Date : 08/14/08 10:05

ESC Sample # : L360312-05

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.036	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	0.0077	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	0.43	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	2.8	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.2		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-NT 2

Collected By : Tara Hicks  
Collection Date : 08/14/08 10:30

ESC Sample # : L360312-06

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.49	0.0025	mg/l	8021/8015	08/19/08	5
Toluene	1.2	0.025	mg/l	8021/8015	08/19/08	5
Ethylbenzene	0.25	0.0025	mg/l	8021/8015	08/19/08	5
Total Xylene	3.0	0.0075	mg/l	8021/8015	08/19/08	5
TPH (GC/FID) Low Fraction	22.	0.50	mg/l	GRO	08/19/08	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8021/8015	08/19/08	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/19/08	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-DAM1 6

Collected By : Tara Hicks  
Collection Date : 08/14/08 10:18

ESC Sample # : L360312-07

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	0.0019	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	105.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : Latham

Sample ID : 081408-WT

Collected By : Tara Hicks  
Collection Date : 08/14/08 10:11

ESC Sample # : L360312-08

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : 605-01

Sample ID : 081408-UPSTREAM 1

Collected By : Tara Hicks  
Collection Date : 08/14/08 00:00

ESC Sample # : L360312-09

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	107.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : 605-01

Sample ID : 081408-N. SPRING 2

Collected By : Tara Hicks  
Collection Date : 08/14/08 00:00

ESC Sample # : L360312-10

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.016	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	0.0010	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	0.050	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	0.90	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	71.5		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	98.8		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : 605-01

Sample ID : 081408-NEW POND 5

Collected By : Tara Hicks  
Collection Date : 08/14/08 00:00

ESC Sample # : L360312-11

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	105.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : 605-01

Sample ID : 081408-S. SPRING 3

Collected By : Tara Hicks  
Collection Date : 08/14/08 00:00

ESC Sample # : L360312-12

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.34	0.12	mg/l	8021/8015	08/19/08	250
Toluene	BDL	1.2	mg/l	8021/8015	08/19/08	250
Ethylbenzene	BDL	0.12	mg/l	8021/8015	08/19/08	250
Total Xylene	2.5	0.38	mg/l	8021/8015	08/19/08	250
TPH (GC/FID) Low Fraction	BDL	25.	mg/l	GRO	08/19/08	250
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	08/19/08	250
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/19/08	250

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

August 19, 2008

Date Received : August 15, 2008  
Description : 605-01

Sample ID : 081408-DOWNSTREAM 4

Collected By : Tara Hicks  
Collection Date : 08/14/08 00:00

ESC Sample # : L360312-13

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/18/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/18/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/18/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/18/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	106.		% Rec.	8021/8015	08/18/08	1
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/18/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 08/19/08 13:31 Printed: 08/19/08 13:31

Summary of Remarks For Samples Printed  
08/19/08 at 13:31:53

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L360312-01 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-02 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-03 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-04 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-05 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-06 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-07 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-08 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-09 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-10 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-11 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-12 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31  
Sample: L360312-13 Account: WALSHGJCO Received: 08/15/08 09:00 Due Date: 08/22/08 00:00 RPT Date: 08/19/08 13:31

Company Name/Address:

**Walsh Env.- Grand Junction**535 Grand Avenue  
Grand Junction.CO 81501

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody  
Page \_\_\_\_ of \_\_\_\_

Prepared by:

**ENVIRONMENTAL  
SCIENCE CORP.**12065 Lebanon Road  
Mt. Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to:

Erin Kennedy / Ed Baltzer

Email to: breth.kennedy@oxy.com  
ebaltzer@walshenv.com

Project

Description: Latham

City/State  
Collected CO

Phone: (970) 241-4636

Client Project #:

ESC Key:

FAX:

7830-160

Collected by: Tara Hicks

Site/Facility ID#:

P.O.#: 7830-160

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

\_\_\_\_ Same Day..... 200%

\_\_\_\_ Next Day..... 100%

\_\_\_\_ Two Day..... 50%

\_\_\_\_ Three Day..... 25%

Date Results Needed:

Email? ☐ No ☒ YesFAX? ☐ No ☒ YesNo  
of  
Cntrs

BTEX / GRO

CoCode: WALSHGJC (lab use only)

Template/Prelogin

Shipped Via:

Sample ID

Comp/Grab

Matrix\*

Depth

Date

Time

Remarks/Contaminant

Sample # (lab only)

082808 Creek Confluence <sup>10</sup>	Grab	SW	NA	8/28/08	12:30	2	✓	✓
082808 Dam 2 #9	Grab	SW	NA	8/28/08	12:44	2	✓	✓
082808 S1 Trench #7	Grab	SW	NA	8/28/08	11:00	2	✓	✓
082808 S2 Trench #11	Grab	SW	NA	8/28/08	11:05	2	✓	✓
082808 North Trench 2	Grab	SW	NA	8/28/08	10:55	2	✓	✓
082808 Dam 1 #6	Grab	SW	NA	8/28/08	10:50	2	✓	✓
082808 Spring / pond 32	Grab	SW	NA	8/28/08	10:41	2	✓	✓
082808 Water Trough	Grab	SW	NA	8/28/08	10:47	2	✓	✓
	Grab	SW	NA	8/28/08				

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH Temp

Remarks:

Flow Other

Relinquished by: (Signature) Tara Hicks	Date: 8/28/08	Time: 3:30	Received by: (Signature) FED EX	949 7457 5735 Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> Other		Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 31.0°	Bottles Received: 24	pH Checked: NCF:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) M-SJ	Date: 8-24-08	Time: 8:00	

Company Name/Address:

**OXY USA - Grand Junction, CO**2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody  
Page \_\_\_\_ of \_\_\_\_

Prepared by:

 **ENVIRONMENTAL  
SCIENCE CORP.**12065 Lebanon Road  
Mt Juliet, TN 37122

Phone (615) 758-5858

Phone (800) 767-5859

FAX (615) 758-5859

Report to:

Brett Kennedy / Ed Baltzer

Email to: brett\_kennedy@oxy.com  
ebaltzer@walshenv.com

Project

Description: ~~Ed~~ 005-01City/State  
Collected

CO

Phone: (970) 263-3601

Client Project #:

ESC Key:

FAX:

7830-160

Collected by: Tara Hicks

Site/Facility ID#:

P.O.#:

7830-160

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Same Day..... 200%

Next Day..... 100%

Two Day..... 50%

Three Day..... 25%

Date Results Needed:

Email? ☐ No ☒ YesFAX? ☒ No ☐ YesNo.  
of  
CntrsBTEX  
GRD

CoCode: OXYGJCO (lab use only)

Template/Prelogin

Shipped Via:

Remarks/Contaminant

Sample # (lab only)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No.	of	Cntrs
082808 North Spring 40	Grab	SW	NA	8/28/08	11:15	2	✓	✓
082808 South Spring 42	Grab	SW	NA	8/28/08	11:52	2	✓	✓
082808 Lower P.T. 44	Grab	SW	NA	8/28/08	11:56	2	✓	✓
082808 Downstream	Grab	SW	NA	8/28/08	12:04	2	✓	✓

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

Relinquished by: (Signature) Tara Hicks	Date: 8/28/08	Time: 3:30	Received by: (Signature) FED EX	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.10	Bottles Received: 24
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8-29-08	Time: 0200
				pH Checked:	NCF:





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Monday September 08, 2008

Report Number: L362623

Samples Received: 08/29/08

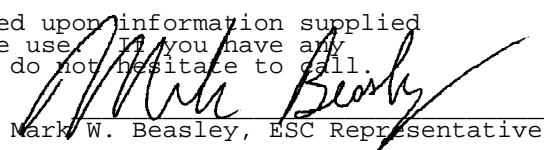
Client Project: 7830-160

Description: Latham

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

*Laboratory Certification Numbers*

  
Mark W. Beasley, ESC Representative

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

12 Samples Reported: 09/07/08 07:29 Revised: 09/08/08 12:33

Page 1 of 13



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham  
Sample ID : 082808 CREEK CONFLUENCE 10  
Collected By : Tara Hicks  
Collection Date : 08/28/08 12:36

ESC Sample # : L362623-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/31/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/31/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/31/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.2		% Rec.	8021/8015	08/31/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	08/31/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham

Sample ID : 082808 DAM 2 9

Collected By : Tara Hicks  
Collection Date : 08/28/08 12:44

ESC Sample # : L362623-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/31/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/31/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/31/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	08/31/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/31/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham

Sample ID : 082808 S1 TRENCH 7

Collected By : Tara Hicks  
Collection Date : 08/28/08 11:00

ESC Sample # : L362623-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.89	0.050	mg/l	8021/8015	08/31/08	100
Toluene	1.1	0.50	mg/l	8021/8015	08/31/08	100
Ethylbenzene	0.18	0.050	mg/l	8021/8015	08/31/08	100
Total Xylene	3.4	0.15	mg/l	8021/8015	08/31/08	100
TPH (GC/FID) Low Fraction	12.	10.	mg/l	GRO	08/31/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.1		% Rec.	8021/8015	08/31/08	100
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/31/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham

Sample ID : 082808 S2 TRENCH 11

Collected By : Tara Hicks  
Collection Date : 08/28/08 11:05

ESC Sample # : L362623-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.085	0.00050	mg/l	8021/8015	08/31/08	1
Toluene	0.024	0.0050	mg/l	8021/8015	08/31/08	1
Ethylbenzene	0.0065	0.00050	mg/l	8021/8015	08/31/08	1
Total Xylene	0.18	0.0015	mg/l	8021/8015	08/31/08	1
TPH (GC/FID) Low Fraction	0.62	0.10	mg/l	GRO	08/31/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.1		% Rec.	8021/8015	08/31/08	1
a,a,a-Trifluorotoluene(PID)	98.5		% Rec.	8021/8015	08/31/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham  
Sample ID : 082808 NORTH TRENCH 2  
Collected By : Tara Hicks  
Collection Date : 08/28/08 10:55

ESC Sample # : L362623-05

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.28	0.050	mg/l	8021/8015	08/31/08	100
Toluene	BDL	0.50	mg/l	8021/8015	08/31/08	100
Ethylbenzene	0.091	0.050	mg/l	8021/8015	08/31/08	100
Total Xylene	1.8	0.15	mg/l	8021/8015	08/31/08	100
TPH (GC/FID) Low Fraction	BDL	10.	mg/l	GRO	08/31/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	08/31/08	100
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/31/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham

Sample ID : 082808 DAM 1 6

Collected By : Tara Hicks  
Collection Date : 08/28/08 10:50

ESC Sample # : L362623-06

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/31/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/31/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/31/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.9		% Rec.	8021/8015	08/31/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	08/31/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham  
Sample ID : 082808 SPRING POND 32  
Collected By : Tara Hicks  
Collection Date : 08/28/08 10:41

ESC Sample # : L362623-07

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/31/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Total Xylene	0.0022	0.0015	mg/l	8021/8015	08/31/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/31/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	08/31/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	08/31/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 08, 2008

Date Received : August 29, 2008  
Description : Latham

Sample ID : 082808 WATER TROUGH

Collected By : Tara Hicks  
Collection Date : 08/28/08 10:47

ESC Sample # : L362623-08

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	08/31/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	08/31/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	08/31/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	08/31/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	93.4		% Rec.	8021/8015	08/31/08	1
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	08/31/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/07/08 07:29 Revised: 09/08/08 12:33

Summary of Remarks For Samples Printed  
09/08/08 at 12:33:30

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L362623-01 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-02 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-03 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-04 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-05 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-06 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-07 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-08 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-09 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-10 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-11 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29  
Sample: L362623-12 Account: WALSHGJCO Received: 08/29/08 09:00 Due Date: 09/08/08 00:00 RPT Date: 09/07/08 07:29

Company Name/Address: <b>Walsh Env.- Grand Junction</b>  535 Grand Avenue Grand Junction, CO 81501			Alternate billing information: OXY-USA GRD JCT, CO <del>254</del> 2754 COMPASS DR STE 170 GRAND JUNCTION, CO 81506 Email to: <u>brett_kennedy@oxy.com</u> <u>ebaltzer@walshenv.com</u>			Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GRO</div> </div>						Chain of Custody Page ____ of ____  Prepared by:  <div style="text-align: center;"> <b>ENVIRONMENTAL SCIENCE CORP.</b>          12065 Lebanon Road          Mt. Juliet, TN 37122           Phone (615) 758-5858          Phone (800) 767-5859          FAX (615) 758-5859       </div>	
Report to: <b>BRETT KENNEDY / ED BALTZER</b>			Project Description: <b>09-61</b>			City/State Collected <b>CO</b>							
Phone: (970) 241-4636 FAX:		Client Project #: <b>7830-160</b>		ESC Key:				No. of Cntrs <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GRO</div>					
Collected by: <b>Robert Stockton</b>		Site/Facility ID#:		P.O.#: <b>7830-160</b>									
Collected by (signature): 		<input checked="" type="checkbox"/> <b>Rush?</b> (Lab MUST Be Notified) Same Day..... 200% Next Day..... 100% Two Day..... 50% Three Day..... 25%		Date Results Needed: Email? <input type="checkbox"/> No <input type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes									
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Sample ID		Comp/Grab		Matrix*						Depth	
CREEK CONFLUENCE 10		GRAB		SW		NA		9/19/08		1105		2 ✓ ✓	
DAM 2 #9		GRAB		SW		NA		9/19/08		1112		2 ✓ ✓	
S1 TRENCH #7		GRAB		SW		NA		9/19/08		1135		2 ✓ ✓	
S2 TRENCH #11		GRAB		SW		NA		9/19/08		1127		2 ✓ ✓	
NORTH TRENCH 2		GRAB		SW		NA		9/19/08		1149		2 ✓ ✓	
<del>DAM 1 #6</del>		<del>GRAB</del>		<del>SW</del>		<del>NA</del>		<del>9/19/08</del>		<del>1150</del>		<del>2 ✓ ✓</del>	
<del>SPRING/POND 32</del>		<del>GRAB</del>		<del>SW</del>		<del>NA</del>		<del>9/19/08</del>		<del>1200</del>		<del>2 ✓ ✓</del>	
WATER TROUGH 4		GRAB		SW		NA		9/19/08		1200		2 ✓ ✓	
<del>WJ</del>		<del>GRAB</del>		<del>SW</del>		<del>NA</del>		<del>9/19/08</del>		<del>1200</del>		<del>2 ✓ ✓</del>	

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Remarks:

7880 7806

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) 		Date: <b>9/19/08</b>		Time: <b>1715</b>		Received by: (Signature) <b>Fed Ex</b>		Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <b>6</b>	
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: <b>3.7°C</b>		Bottles Received: <b>120</b>	
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) 		Date: <b>9/22/08</b>		Time: <b>09:30</b>	
								CoC Seals Intact <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA		pH Checked: NCF	



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Monday September 29, 2008

Report Number: L366301

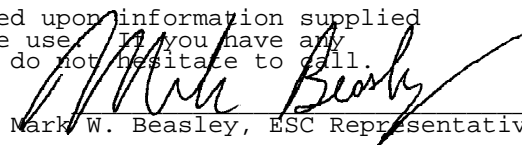
Samples Received: 09/22/08

Client Project: 7830-160

Description: 09-61

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.

6 Samples Reported: 09/29/08 17:01 Printed: 09/29/08 17:01

Page 1 of 7



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 29, 2008

Date Received : September 22, 2008  
Description : 09-61

Sample ID : CREEK CONFLUENCE 10

Collected By : Robert Stockton  
Collection Date : 09/19/08 11:05

ESC Sample # : L366301-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	09/28/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	09/28/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	09/28/08	1
Total Xylene	0.0015	0.0015	mg/l	8021/8015	09/28/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	09/28/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.4		% Rec.	8021/8015	09/28/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/28/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/29/08 17:01 Printed: 09/29/08 17:01



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 29, 2008

Date Received : September 22, 2008  
Description : 09-61

Sample ID : DAM2 9

Collected By : Robert Stockton  
Collection Date : 09/19/08 11:12

ESC Sample # : L366301-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	09/28/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	09/28/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	09/28/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	09/28/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	09/28/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.7		% Rec.	8021/8015	09/28/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/28/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/29/08 17:01 Printed: 09/29/08 17:01



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 29, 2008

Date Received : September 22, 2008  
Description : 09-61

Sample ID : S1 TRENCH 7

Collected By : Robert Stockton  
Collection Date : 09/19/08 11:35

ESC Sample # : L366301-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.96	0.050	mg/l	8021/8015	09/28/08	100
Toluene	1.0	0.50	mg/l	8021/8015	09/28/08	100
Ethylbenzene	0.20	0.050	mg/l	8021/8015	09/28/08	100
Total Xylene	3.7	0.15	mg/l	8021/8015	09/28/08	100
TPH (GC/FID) Low Fraction	12.	10.	mg/l	GRO	09/28/08	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.3		% Rec.	8021/8015	09/28/08	100
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/28/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/29/08 17:01 Printed: 09/29/08 17:01



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 29, 2008

Date Received : September 22, 2008  
Description : 09-61

Sample ID : S2 TRENCH 11

Collected By : Robert Stockton  
Collection Date : 09/19/08 11:27

ESC Sample # : L366301-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.23	0.0050	mg/l	8021/8015	09/28/08	10
Toluene	0.22	0.050	mg/l	8021/8015	09/28/08	10
Ethylbenzene	0.045	0.0050	mg/l	8021/8015	09/28/08	10
Total Xylene	0.84	0.015	mg/l	8021/8015	09/28/08	10
TPH (GC/FID) Low Fraction	2.6	1.0	mg/l	GRO	09/28/08	10
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.8		% Rec.	8021/8015	09/28/08	10
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	09/28/08	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/29/08 17:01 Printed: 09/29/08 17:01





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 29, 2008

Date Received : September 22, 2008  
Description : 09-61

Sample ID : NORTH TRENCH 2

Collected By : Robert Stockton  
Collection Date : 09/19/08 11:49

ESC Sample # : L366301-05

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.38	0.025	mg/l	8021/8015	09/28/08	50
Toluene	0.30	0.25	mg/l	8021/8015	09/28/08	50
Ethylbenzene	0.20	0.025	mg/l	8021/8015	09/28/08	50
Total Xylene	3.3	0.075	mg/l	8021/8015	09/28/08	50
TPH (GC/FID) Low Fraction	9.5	5.0	mg/l	GRO	09/28/08	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.5		% Rec.	8021/8015	09/28/08	50
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/28/08	50

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/29/08 17:01 Printed: 09/29/08 17:01



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

September 29, 2008

Date Received : September 22, 2008  
Description : 09-61

Sample ID : WATER TROUGH 4

Collected By : Robert Stockton  
Collection Date : 09/19/08 12:00

ESC Sample # : L366301-06

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	09/28/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	09/28/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	09/28/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	09/28/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	09/28/08	1
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.2		% Rec.	8021/8015	09/28/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	09/28/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 09/29/08 17:01 Printed: 09/29/08 17:01

Summary of Remarks For Samples Printed  
09/29/08 at 17:01:32

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L366301-01 Account: WALSHGJCO Received: 09/22/08 09:30 Due Date: 09/29/08 00:00 RPT Date: 09/29/08 17:01  
Sample: L366301-02 Account: WALSHGJCO Received: 09/22/08 09:30 Due Date: 09/29/08 00:00 RPT Date: 09/29/08 17:01  
Sample: L366301-03 Account: WALSHGJCO Received: 09/22/08 09:30 Due Date: 09/29/08 00:00 RPT Date: 09/29/08 17:01  
Sample: L366301-04 Account: WALSHGJCO Received: 09/22/08 09:30 Due Date: 09/29/08 00:00 RPT Date: 09/29/08 17:01  
Sample: L366301-05 Account: WALSHGJCO Received: 09/22/08 09:30 Due Date: 09/29/08 00:00 RPT Date: 09/29/08 17:01  
Sample: L366301-06 Account: WALSHGJCO Received: 09/22/08 09:30 Due Date: 09/29/08 00:00 RPT Date: 09/29/08 17:01

Company Name/Address: <b>Walsh Env.- Grand Junction</b>  535 Grand Avenue Grand Junction, CO 81501				Alternate billing information: <b>OXY-USA GRD JCT CO</b> <b>2754 COMPASS DR</b> <b>SUITE 170</b> <b>GRAND JUNCTION, CO</b> <b>81506</b> Email to: <b>broth-kennedy@oxy.com</b> <b>e.baltzer@walshenv.com</b>				Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GRO</div> </div>				Chain of Custody Page ___ of ___  Prepared by:  <div style="text-align: center;"> <b>ENVIRONMENTAL SCIENCE CORP.</b>          12065 Lebanon Road          Mt. Juliet, TN 37122           Phone (615) 758-5858          Phone (800) 767-5859          FAX (615) 758-5859       </div>																																																														
Report to: <b>BRETT KENNEDY/ ED BALTZER</b>				City/State Collected <b>CO</b>				CoCode: <b>WALSHGJC</b> (lab use only) Template/Prelogin  Shipped Via:																																																																		
Project Description: <b>09-61</b>				Client Project #: <b>7830-160</b>																																																																						
Phone: (970) 241-4636 FAX:				ESC Key:																																																																						
Collected by: <b>DAVID SPENSER</b>				Site/Facility ID#:																																																																						
Collected by (signature): 				P.O.#: <b>7830-160</b>																																																																						
Immediately Packed on Ice N ___ Y <input checked="" type="checkbox"/>				<div style="border: 1px solid black; padding: 5px;"> <b>Rush?</b> (Lab MUST Be Notified)          ___ Same Day..... 200%          ___ Next Day..... 100%          ___ Two Day..... 50%          ___ Three Day..... 25%       </div>				Date Results Needed: Email? ___ No ___ Yes FAX? ___ No ___ Yes																																																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Comp/Grab</th> <th>Matrix*</th> <th>Depth</th> <th>Date</th> <th>Time</th> <th>No. of Cntrs</th> </tr> </thead> <tbody> <tr> <td>CREEK CONFLUENCE 10</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>15 OCT 08</td> <td>11:09</td> <td>2</td> </tr> <tr> <td>DAM 2 #9</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>15 OCT 08</td> <td>11:00</td> <td>2</td> </tr> <tr> <td>S1 TRENCH #7</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>15 OCT 08</td> <td>11:34</td> <td>2</td> </tr> <tr> <td>S2 TRENCH #11</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>10/15/08</td> <td>11:25</td> <td>2</td> </tr> <tr> <td>NORTH TRENCH 2</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>10/15/08</td> <td>11:55</td> <td>2</td> </tr> <tr> <td>DAM 1 #6</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>10/15/08</td> <td></td> <td>2</td> </tr> <tr> <td>SPRING/POND 32</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>10/15/08</td> <td></td> <td>2</td> </tr> <tr> <td>WATER TROUGH 4</td> <td>GRAB</td> <td>SW</td> <td>NA</td> <td>10/15/08</td> <td>11:49</td> <td>2</td> </tr> </tbody> </table>				Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	CREEK CONFLUENCE 10	GRAB	SW	NA	15 OCT 08	11:09	2	DAM 2 #9	GRAB	SW	NA	15 OCT 08	11:00	2	S1 TRENCH #7	GRAB	SW	NA	15 OCT 08	11:34	2	S2 TRENCH #11	GRAB	SW	NA	10/15/08	11:25	2	NORTH TRENCH 2	GRAB	SW	NA	10/15/08	11:55	2	DAM 1 #6	GRAB	SW	NA	10/15/08		2	SPRING/POND 32	GRAB	SW	NA	10/15/08		2	WATER TROUGH 4	GRAB	SW	NA	10/15/08	11:49	2	Remarks/Contaminant  <div style="text-align: center; font-size: 2em;">DRY</div> <div style="text-align: center; font-size: 2em;">DRY</div>				Sample # (lab only)  <div style="text-align: center; font-size: 1.5em;">01</div> <div style="text-align: center; font-size: 1.5em;">02</div> <div style="text-align: center; font-size: 1.5em;">03</div> <div style="text-align: center; font-size: 1.5em;">04</div> <div style="text-align: center; font-size: 1.5em;">05</div> <div style="text-align: center; font-size: 1.5em;">06</div>			
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs																																																																				
CREEK CONFLUENCE 10	GRAB	SW	NA	15 OCT 08	11:09	2																																																																				
DAM 2 #9	GRAB	SW	NA	15 OCT 08	11:00	2																																																																				
S1 TRENCH #7	GRAB	SW	NA	15 OCT 08	11:34	2																																																																				
S2 TRENCH #11	GRAB	SW	NA	10/15/08	11:25	2																																																																				
NORTH TRENCH 2	GRAB	SW	NA	10/15/08	11:55	2																																																																				
DAM 1 #6	GRAB	SW	NA	10/15/08		2																																																																				
SPRING/POND 32	GRAB	SW	NA	10/15/08		2																																																																				
WATER TROUGH 4	GRAB	SW	NA	10/15/08	11:49	2																																																																				

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

Remarks:

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) 		Date: <b>16 OCT 08</b> Time: <b>1700</b>		Received by: (Signature) 		Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <b>OK</b>	
Relinquished by: (Signature)		Date: Time:		Received by: (Signature)		Temp: <b>3.2°C</b>		Bottles Received: <b>12</b>	
Relinquished by: (Signature)		Date: Time:		Received by: (Signature)		Date: <b>10-17-08</b> Time: <b>0900</b>		CoC Seals Intact ___ Y ___ N ___ NA pH Checked: NCF:	



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Wednesday October 22, 2008

Report Number: L370520

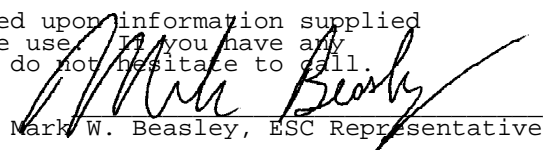
Samples Received: 10/17/08

Client Project: 7830-160

Description: 09-61

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.  
Where applicable, sampling conducted by ESC is performed per guidance provided  
in laboratory standard operating procedures: 060302, 060303, and 060304.



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

October 22, 2008

Date Received : October 17, 2008  
Description : 09-61

Sample ID : CREEK CONFLUENCE 10

Collected By : David Spencer  
Collection Date : 10/15/08 11:09

ESC Sample # : L370520-01

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	10/21/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	10/21/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	10/21/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	10/21/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	10/22/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	90.3		% Rec.	8021/8015	10/22/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	10/21/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 10/22/08 17:05 Printed: 10/22/08 17:05



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

October 22, 2008

Date Received : October 17, 2008  
Description : 09-61

Sample ID : DAM 2 NO. 9

Collected By : David Spencer  
Collection Date : 10/15/08 11:00

ESC Sample # : L370520-02

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	10/21/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	10/21/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	10/21/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	10/21/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	10/21/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	94.1		% Rec.	8021/8015	10/21/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	10/21/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 10/22/08 17:05 Printed: 10/22/08 17:05



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

October 22, 2008

Date Received : October 17, 2008  
Description : 09-61

Sample ID : S1 TRENCH NO. 7

Collected By : David Spencer  
Collection Date : 10/15/08 11:34

ESC Sample # : L370520-03

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.74	0.050	mg/l	8021/8015	10/22/08	100
Toluene	0.78	0.50	mg/l	8021/8015	10/22/08	100
Ethylbenzene	0.12	0.050	mg/l	8021/8015	10/22/08	100
Total Xylene	2.1	0.15	mg/l	8021/8015	10/22/08	100
TPH (GC/FID) Low Fraction	BDL	10.	mg/l	GRO	10/22/08	100
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.4		% Rec.	8021/8015	10/22/08	100
a,a,a-Trifluorotoluene(PID)	99.2		% Rec.	8021/8015	10/22/08	100

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 10/22/08 17:05 Printed: 10/22/08 17:05





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

October 22, 2008

Date Received : October 17, 2008  
Description : 09-61

Sample ID : S2 TRENCH NO. 11

Collected By : David Spencer  
Collection Date : 10/15/08 11:25

ESC Sample # : L370520-04

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.34	0.0025	mg/l	8021/8015	10/22/08	5
Toluene	0.30	0.025	mg/l	8021/8015	10/22/08	5
Ethylbenzene	0.076	0.0025	mg/l	8021/8015	10/22/08	5
Total Xylene	1.3	0.0075	mg/l	8021/8015	10/22/08	5
TPH (GC/FID) Low Fraction	4.0	0.50	mg/l	GRO	10/22/08	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.8		% Rec.	8021/8015	10/22/08	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	10/22/08	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 10/22/08 17:05 Printed: 10/22/08 17:05



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

October 22, 2008

Date Received : October 17, 2008  
Description : 09-61

Sample ID : NORTH TRENCH 2

Collected By : David Spencer  
Collection Date : 10/15/08 11:55

ESC Sample # : L370520-05

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.32	0.0025	mg/l	8021/8015	10/22/08	5
Toluene	0.23	0.025	mg/l	8021/8015	10/22/08	5
Ethylbenzene	0.18	0.0025	mg/l	8021/8015	10/22/08	5
Total Xylene	2.3	0.0075	mg/l	8021/8015	10/22/08	5
TPH (GC/FID) Low Fraction	6.9	0.50	mg/l	GRO	10/22/08	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	92.3		% Rec.	8021/8015	10/22/08	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	10/22/08	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 10/22/08 17:05 Printed: 10/22/08 17:05



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Ed Baltzer, Brett Kennedy  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

October 22, 2008

Date Received : October 17, 2008  
Description : 09-61

Sample ID : WATER TROUGH 4

Collected By : David Spencer  
Collection Date : 10/15/08 11:49

ESC Sample # : L370520-06

Site ID :

Project # : 7830-160

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	10/22/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	10/22/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	10/22/08	1
Total Xylene	0.0017	0.0015	mg/l	8021/8015	10/22/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	10/22/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	91.4		% Rec.	8021/8015	10/22/08	1
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	10/22/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 10/22/08 17:05 Printed: 10/22/08 17:05

Summary of Remarks For Samples Printed  
10/22/08 at 17:05:54

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L370520-01 Account: WALSHGJCO Received: 10/17/08 09:00 Due Date: 10/24/08 00:00 RPT Date: 10/22/08 17:05  
Sample: L370520-02 Account: WALSHGJCO Received: 10/17/08 09:00 Due Date: 10/24/08 00:00 RPT Date: 10/22/08 17:05  
Sample: L370520-03 Account: WALSHGJCO Received: 10/17/08 09:00 Due Date: 10/24/08 00:00 RPT Date: 10/22/08 17:05  
Sample: L370520-04 Account: WALSHGJCO Received: 10/17/08 09:00 Due Date: 10/24/08 00:00 RPT Date: 10/22/08 17:05  
Sample: L370520-05 Account: WALSHGJCO Received: 10/17/08 09:00 Due Date: 10/24/08 00:00 RPT Date: 10/22/08 17:05  
Sample: L370520-06 Account: WALSHGJCO Received: 10/17/08 09:00 Due Date: 10/24/08 00:00 RPT Date: 10/22/08 17:05





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Brett Kennedy, Ed Baltzer  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170

Grand Junction, CO 81506

Report Summary

Tuesday November 11, 2008

Report Number: L373656

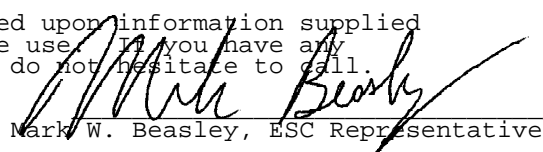
Samples Received: 11/07/08

Client Project: 7830-161

Description: 09-61

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.  
Where applicable, sampling conducted by ESC is performed per guidance provided  
in laboratory standard operating procedures: 060302, 060303, and 060304.



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy, Ed Baltzer  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

November 11, 2008

Date Received : November 07, 2008  
Description : 09-61

Sample ID : CREEK CONFLUENCE 10

Collected By : David Spencer  
Collection Date : 11/06/08 11:52

ESC Sample # : L373656-01

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	11/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/09/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/09/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	11/09/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	11/09/08	1
a,a,a-Trifluorotoluene(PID)	110.		% Rec.	8021/8015	11/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/11/08 10:33 Printed: 11/11/08 10:34



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy, Ed Baltzer  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

November 11, 2008

Date Received : November 07, 2008  
Description : 09-61

Sample ID : DAM 2 9

Collected By : David Spencer  
Collection Date : 11/06/08 12:05

ESC Sample # : L373656-02

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	11/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/09/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/09/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/09/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	11/09/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	8021/8015	11/09/08	1
a,a,a-Trifluorotoluene(PID)	110.		% Rec.	8021/8015	11/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/11/08 10:33 Printed: 11/11/08 10:34





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Brett Kennedy, Ed Baltzer  
OXY USA - Grand Junction, CO  
2754 Compass Dr., Ste. 170  
Grand Junction, CO 81506

November 11, 2008

Date Received : November 07, 2008  
Description : 09-61

Sample ID : S2 TRENCH 11

Collected By : David Spencer  
Collection Date : 11/06/08 12:28

ESC Sample # : L373656-03

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.023	0.00050	mg/l	8021/8015	11/09/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/09/08	1
Ethylbenzene	0.0014	0.00050	mg/l	8021/8015	11/09/08	1
Total Xylene	0.020	0.0015	mg/l	8021/8015	11/09/08	1
TPH (GC/FID) Low Fraction	0.17	0.10	mg/l	GRO	11/09/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.5		% Rec.	8021/8015	11/09/08	1
a,a,a-Trifluorotoluene(PID)	108.		% Rec.	8021/8015	11/09/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/11/08 10:33 Printed: 11/11/08 10:34

Summary of Remarks For Samples Printed  
11/11/08 at 10:34:17

TSR Signing Reports: 134  
R5 - Desired TAT

expect MSA

Sample: L373656-01 Account: OXYGJCO Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/11/08 10:33

Sample: L373656-02 Account: OXYGJCO Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/11/08 10:33

Sample: L373656-03 Account: OXYGJCO Received: 11/07/08 09:00 Due Date: 11/14/08 00:00 RPT Date: 11/11/08 10:33

Company Name/Address: <b>Walsh Env.- Grand Junction</b>  535 Grand Avenue Grand Junction, CO 81501			Alternate billing information: OXY-USA GRO JCT; CO 2754 Compass Dr Suite 170 Grand Junction, CO 81506			Analysis/Container/Preservative <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GRO</div> </div>			Chain of Custody Page ____ of ____  Prepared by:  <b>ENVIRONMENTAL SCIENCE CORP.</b>  12065 Lebanon Road Mt. Juliet, TN 37122  Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859  <b>B020</b>		
Report to: <u>Brett Kennedy / Ed Baltzer</u>			Email to: <u>brett_kennedy@oxy.com</u> <u>ebaltzer@earthenvu.com</u>								
Project Description: <u>09-61</u>			City/State Collected: <u>CO</u>								
Phone: (970) 241-4636		Client Project #: <u>7830-161</u>		ESC Key:							
FAX:											
Collected by: <u>DAVID SPENCER</u>		Site/Facility ID#:		P.O.#:							
Collected by (signature):  Immediately Packed on Ice N ____ Y ____		<b>Rush?</b> ( Lab MUST Be Notified ) ____ Same Day.....200% ____ Next Day.....100% ____ Two Day.....50% ____ Three Day.....25%		Date Results Needed: Email? ____ No ____ Yes FAX? ____ No ____ Yes		No. of Cntrs		CoCode <b>WALSHGJC</b> (lab use only) Template/Prelogin Shipped Via:			
Sample ID	Comp/Grab	Matrix*	Depth	Date	Time			Remarks/Contaminant		Sample # (lab only)	
Creek Confluence 10	GRAB	SW	NA	11/20/08	11:05	2	X	X			L376218-01
Dam 2 9	GRAB	SW	NA	11/20/08			X	X	Frozen		
S2 TRENCH #11	GRAB	SW	NA	11/20/08	12:14	2	X	X			-02
Water Trough #4	Grab	SW	NA	11/20/08	11:30	2	X	X			-03
North Trench #2	Grab	SW	NA	11/20/08	11:44	2	X	X			-04
S1 Trench #7	Grab	SW	NA	11/20/08	11:58	2	X	X			-05

\*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other \_\_\_\_\_

Remarks: \_\_\_\_\_

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature) <u>DeJure</u>	Date: <u>11/20/08</u>	Time: <u>1700</u>	Received by: (Signature) <u>Fed Ex</u>	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier		Condition: (lab use only) <div style="text-align: center;">OK</div>	
	Relinquished by: (Signature)	Date:		Time:	Received by: (Signature)	Temp: <u>3.1°C</u>	Bottles Received: <u>20V</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <u>Elroy Smith</u>	Date: <u>11-21-08</u>	Time: <u>0900</u>	pH Checked:	NCF



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Project Manager  
Walsh Env.- Grand Junction  
535 Grand Avenue

Grand Junction, CO 81501

Report Summary

Friday November 28, 2008

Report Number: L376218

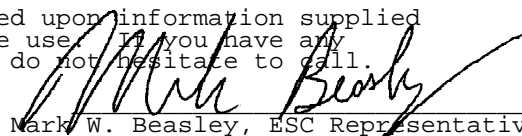
Samples Received: 11/21/08

Client Project: 7830-161

Description: 09-61

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Mark W. Beasley, ESC Representative

*Laboratory Certification Numbers*

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140  
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.  
Where applicable, sampling conducted by ESC is performed per guidance provided  
in laboratory standard operating procedures: 060302, 060303, and 060304.



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Project Manager  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

November 28, 2008

Date Received : November 21, 2008  
Description : 09-61  
Sample ID : CREEK CONFLUENCE 10  
Collected By : David Spencer  
Collection Date : 11/20/08 11:05

ESC Sample # : L376218-01

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	11/27/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/27/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/27/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/27/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	11/27/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	11/27/08	1
a,a,a-Trifluorotoluene(PID)	99.8		% Rec.	8021/8015	11/27/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/28/08 14:15 Printed: 11/28/08 14:15



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Project Manager  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

November 28, 2008

Date Received : November 21, 2008  
Description : 09-61

Sample ID : S2 TRENCH 11

Collected By : David Spencer  
Collection Date : 11/20/08 12:14

ESC Sample # : L376218-02

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	11/27/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/27/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/27/08	1
Total Xylene	0.0015	0.0015	mg/l	8021/8015	11/27/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	11/27/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.1		% Rec.	8021/8015	11/27/08	1
a,a,a-Trifluorotoluene(PID)	99.7		% Rec.	8021/8015	11/27/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/28/08 14:15 Printed: 11/28/08 14:15



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Project Manager  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

November 28, 2008

Date Received : November 21, 2008  
Description : 09-61

Sample ID : WATER TROUGH 4

Collected By : David Spencer  
Collection Date : 11/20/08 11:30

ESC Sample # : L376218-03

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.00050	mg/l	8021/8015	11/27/08	1
Toluene	BDL	0.0050	mg/l	8021/8015	11/27/08	1
Ethylbenzene	BDL	0.00050	mg/l	8021/8015	11/27/08	1
Total Xylene	BDL	0.0015	mg/l	8021/8015	11/27/08	1
TPH (GC/FID) Low Fraction	BDL	0.10	mg/l	GRO	11/27/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.0		% Rec.	8021/8015	11/27/08	1
a,a,a-Trifluorotoluene(PID)	99.4		% Rec.	8021/8015	11/27/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/28/08 14:15 Printed: 11/28/08 14:15



ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Project Manager  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

November 28, 2008

Date Received : November 21, 2008  
Description : 09-61

Sample ID : NORTH TRENCH 2

Collected By : David Spencer  
Collection Date : 11/20/08 11:44

ESC Sample # : L376218-04

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.23	0.00050	mg/l	8021/8015	11/27/08	1
Toluene	0.12	0.0050	mg/l	8021/8015	11/27/08	1
Ethylbenzene	0.0020	0.00050	mg/l	8021/8015	11/27/08	1
Total Xylene	1.5	0.0015	mg/l	8021/8015	11/27/08	1
TPH (GC/FID) Low Fraction	4.5	0.10	mg/l	GRO	11/27/08	1
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	86.6		% Rec.	8021/8015	11/27/08	1
a,a,a-Trifluorotoluene(PID)	97.7		% Rec.	8021/8015	11/27/08	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/28/08 14:15 Printed: 11/28/08 14:15





ENVIRONMENTAL  
SCIENCE CORP.

12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Project Manager  
Walsh Env.- Grand Junction  
535 Grand Avenue  
Grand Junction, CO 81501

November 28, 2008

Date Received : November 21, 2008  
Description : 09-61

Sample ID : S1 TRENCH 7

Collected By : David Spencer  
Collection Date : 11/20/08 11:58

ESC Sample # : L376218-05

Site ID :

Project # : 7830-161

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.93	0.0050	mg/l	8021/8015	11/27/08	10
Toluene	1.6	0.050	mg/l	8021/8015	11/27/08	10
Ethylbenzene	0.20	0.0050	mg/l	8021/8015	11/27/08	10
Total Xylene	4.3	0.015	mg/l	8021/8015	11/27/08	10
TPH (GC/FID) Low Fraction	13.	1.0	mg/l	GRO	11/27/08	10
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	92.6		% Rec.	8021/8015	11/27/08	10
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	11/27/08	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

.

Reported: 11/28/08 14:15 Printed: 11/28/08 14:15

Attachment A  
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L376218-04	WG395745	SAMP	Total Xylene	R547547	E

Attachment B  
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed  
11/28/08 at 14:15:39

TSR Signing Reports: 134  
R5 - Desired TAT

Sample: L376218-01 Account: WALSHGJCO Received: 11/21/08 09:00 Due Date: 12/01/08 00:00 RPT Date: 11/28/08 14:15  
Sample: L376218-02 Account: WALSHGJCO Received: 11/21/08 09:00 Due Date: 12/01/08 00:00 RPT Date: 11/28/08 14:15  
Sample: L376218-03 Account: WALSHGJCO Received: 11/21/08 09:00 Due Date: 12/01/08 00:00 RPT Date: 11/28/08 14:15  
Sample: L376218-04 Account: WALSHGJCO Received: 11/21/08 09:00 Due Date: 12/01/08 00:00 RPT Date: 11/28/08 14:15  
Sample: L376218-05 Account: WALSHGJCO Received: 11/21/08 09:00 Due Date: 12/01/08 00:00 RPT Date: 11/28/08 14:15



---

Environmental Scientists and Engineers, LLC

Corporate Headquarters: Boulder, Colorado  
Grand Junction, Colorado  
Colorado Springs, Colorado  
Fort Collins, Colorado  
Quito, Ecuador  
Lima, Peru