Argonaut Holdings, LLC

March 22, 2012

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6540

SUBJECT: Report Statement
Quarterly Groundwater Monitoring Report #1
Former Oakland Truck Center Site
8099 South Coliseum Way
Oakland, California
CASE # RO0001389
Facility Global ID# T0600101692

To Whom It May Concern:

Argonaut Holdings, LLC (Argonaut), is the owner of the property located at 8099 South Coliseum Way in Oakland, California. Attached please find the first quarterly groundwater monitoring report for the property located at 8099 South Coliseum Way in Oakland, California.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions please contact Marilyn Dedyne at 313-506-9461, or our authorized agent, Chuck Dittmar of ARCADIS at (810)-225-1966.

Sincerely,

Mark R. Sloan
President, Argonaut Holdings, LLC

ARCADIS
Infrastructure · Water · Environment · Buildings

Imagine the result

Quarterly Monitoring Report #1

Former Oakland Truck Center
8099 South Coliseum Way
Oakland, California 94621
Case ID RO-0001389

Field Work Dates: October 29 and November 22, 2010

Prepared on Behalf of Argonaut Holdings, Inc.

Prepared for the Alameda County Health Care Services Agency

ARCADIS

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STATE OF CALIFORNIA

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Our Ref.:
B0064601.0000.00008

Date:
June 10, 2011

Table of Contents

Appendices

1. Introduction

On behalf of Argonaut Holdings, Inc., ARCADIS U.S., Inc. (ARCADIS) is submitting this *Leaking Underground Storage Tank Site Investigation Report* for the Former Oakland Truck Center (hereafter referred to as the "Site") located in Oakland, California (Figure 1). One 500-gallon used oil underground storage tank (UST), one 1,000-gallon used oil UST, one 2,000-gallon unleaded gasoline UST, and one 2,000-gallon diesel fuel UST were installed in 1980 in two separate excavations west of the Main Site Building. According to previous reports, the four USTs were removed on August 5, 1993. Based on analytical results from soil samples collected during UST removal activities, a UST Unauthorized Release/Contamination Site Report was filed with the Alameda County Health Care Services Agency (ACHCSA) on August 10, 1993. In June 2007, the ACHCSA approved the monitored natural attenuation approach and requested quarterly sampling and monitoring of the existing groundwater monitoring wells. The purpose of the subsequent investigation was to evaluate groundwater quality at the Site to support the efforts to pursue closure of open Leaking Underground Storage Tank (LUST) Case ID RO-0001389 as requested by the ACHCSA in June 2007.

2. Background

Site description, assessment history, geologic and hydrogeologic settings, and previous remedial activities performed at the Site are discussed in the following subsections. Please refer to Figure 2 for the locations of the monitoring wells.

2.1 Site and Surrounding Area Description

The Site is an active new and used truck dealership and service facility located at 8099 South Coliseum Way in Oakland, California. It currently consists of two buildings, the Main Site Building and the Used Truck Center Trailer, situated on approximately 6.38 acres of land. Based on historical information, one former building existed on the eastern portion of the Site. The former building was owned and occupied by the California Department of Transportation (Caltrans) and was utilized as a maintenance facility.

The Site is zoned C-36/S-4, regional commercial. It is anticipated that future use of the Site will include commercial facilities. The Site is bounded by South Coliseum Way to the north and by Caltrans property to the east, south, and west. Surrounding properties are comprised of commercial uses. Based on a search of local and regional water agency records performed by Environmental Data Resources (EDR), there are no public supply wells within one mile of the Site. The nearest potential receptor is the San Leandro Bay, which is located approximately 3,500 feet west of the Site.

2.2 Site Assessment History

One 500-gallon used oil UST, one 1,000-gallon used oil UST, one 2,000-gallon unleaded gasoline UST, and one 2,000-gallon diesel fuel UST were installed in 1980 in two separate excavations west of the Main Site Building. According to previous reports (Clayton, 1993), the four USTs were removed on August 5, 1993. Based on analytical results from soil samples collected during UST removal activities, a UST Unauthorized Release/Contamination Site Report was filed with ACHCSA on August 10, 1993. This report identified corroded, leaky pipes and overfilling of the USTs as the main sources of site-related constituents of concern (COCs). Impacted soils surrounding the USTs were excavated and disposed off-site.

Several subsurface investigations, hydrogeologic evaluations, a risk assessment, and a remediation feasibility study were conducted by Fluor Daniel GTI (FD-GTI) in 1993, 1995, 1996, and 1997 (please refer to the references section for a list of previous reports for historical investigations) prior to Phase II Environmental Site Assessment

(ESA) activities completed by ARCADIS (operating as Encore Environmental Consortium, LLC, or EEC) in April 2008. Residual impacts to the soil in the vicinity of the former USTs were noted to be primarily of higher molecular weight total petroleum hydrocarbons (TPHs) and polynuclear aromatic hydrocarbons (PAHs). In the 1995 FD-GTI site investigation, several soil borings were advanced throughout the Site. Free phase hydrocarbon product was reportedly observed in soil boring SB-3 located near the oil/water separator located east of the Main Site Building; consequently, a groundwater sample was not collected at this boring. However, a product sample was collected and analyzed for a hydrocarbon screen. TPH as mineral spirits was detected at 590,000 milligrams per kilogram (mg/kg) for the product sample collected from SB-3.

In addition, the investigations indicated the presence of a potential off-site source located to the east-southeast. Soil borings (SB-7, SB-8, and SB-9 by EEC in 2008 and SB-7A, SB-8A, SB-8A1, and SB-9A by EEC in October 2010), advanced in the southeastern portion of the Site, demonstrated that there does not appear to be an on-site source at this portion of the Site and that the impact observed in this area of the Site appears to have originated from the CalTrans property located immediately adjacent to the eastern and southeastern Site boundary. According to the previous EEC reports, the CalTrans property is reported on the LUST and Contaminated Sites (CS) databases. Based on the general north-northwest groundwater flow direction at the Site (Figure 3), impact from this adjacent off-site property would likely impact the Site.

2.3 Geology and Hydrology

2.3.1 Regional Geology

According to the United States Department of Agriculture's (USDA) Soil Conservation Service (SCS), regional data indicate that the surface soil texture in the area of the Site is variable. The soil component name is URBAN LAND. The soil hydrologic group and soil drainage classification are not reported. Soils do not meet the requirements for a hydric soil. The shallow and deeper soil types in the vicinity of the Site were not reported in the EDR report. Underlying the surface, shallow and deeper soils are bedrock deposits classified as Cenozoic Era, Quaternary System, and Quaternary Series.

2.3.2 Site Geology

During previous subsurface investigations, the soils encountered at the Site consisted primarily of fill material of sand, gravel, and clay from ground surface to approximately

9 feet below ground surface (bgs) and grayish-blue clay from approximately 9 to 20 feet bgs, with some interbedded sand and gravel layers throughout the top 20 feet.

2.3.3 Hydrology

In October 2010, groundwater levels in the monitoring wells ranged from 4.15 to 8.58 feet below the top of casing. According to the Aquifer Characterization Report prepared by FD-GTI on May 14, 1996, the aquifer material is comprised of a 4-foot thick sand and gravel bed located approximately from 12 to 18 feet bgs. These materials are most likely discontinuous stream channel deposits. Groundwater flow beneath the Site was reported to the north under a gradient of approximately 0.01 foot per foot. Based on water level measurements from the October and November 2010 groundwater monitoring event, the current groundwater flow is to the north-northwest.

A 24-hour constant rate pumping test was conducted at monitoring well MW-2 in April 1996 by FD-GTI to determine aquifer hydraulic properties, including hydraulic conductivity, transmissivity, storability, and specific yield. The aquifer properties ranged from 317 gallons per day per square foot (gpd/ft^2) (42 feet per day [ft/d]) to 733 gpd/ft^2 (98 ft/d) for hydraulic conductivity; 1,270 gallons per day per foot (gpd/ft) (170 square feet per day [ft^2/d]) to 2,930 gpd/ft (392 ft^2/d) for transmissivity; 0.006 to 0.00006 for storability; and 4 to 5 gallons per minute (gpm) for specific yield with a 5-foot drawdown in MW-2. The relatively high hydraulic conductivity values measured during the pump test were representative of the sand and gravel layer observed at some of the groundwater monitoring well locations at the Site. FD-GTI concluded that the presence of finer grained layers would significantly affect groundwater flow at the Site.

2.4 Previously Approved Remedial Approach

The risk assessment completed by FD-GTI in January 1997 included a remedial approach for the Site that consisted of intrinsic bioremediation and monitoring (termed "monitored natural attenuation"). FD-GTI also proposed placing a deed restriction against constructing a building in the vicinity of MW-3, based on the observed benzene concentrations that exceeded the calculated Site Specific Target Level (SSTL). In June 2007, the ACHCSA approved the monitored natural attenuation approach and requested quarterly sampling and monitoring of the eight then-existing groundwater monitoring wells (MW-1 through MW-8). Requirements included monitoring bioremediation parameters such as dissolved oxygen (DO), oxidation-reduction potential (ORP), nitrate, sulfate, alkalinity, and ferrous iron, in addition to benzene, toluene, ethylbenzene, and xylenes (BTEX), TPH as diesel (TPH-d), TPH as motor oil (TPH-o), and TPH as gasoline (TPH-g). ACHCSA also requested sampling from the

drainage ditch located adjacent to the downgradient Site boundary. In July 2009, ARCADIS collected two sediment samples, SW-2 and SW-3 from the ditch located at the northwestern portion of the Site. In addition, a surface water sample was also collected from SW-3. TPH-o and TPH were detected in SW-2 at 300 mg/kg and 41 mg/kg, respectively. TPH-o was detected in SW-3 at 420 mg/kg. TPH was not detected in the surface water or sediment samples collected from SW-3. The detected concentrations did not exceed the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Commercial Soil or Surface Water Environmental Screening Levels (ESLs). Volatile organic compounds (VOCs) were not detected above laboratory reporting limits in sediment samples SW-2 and SW-3 and surface water sample SW-3.

3. Investigation Activities

The following subsections present pre-field activities, groundwater monitoring activities, analytical results, and data evaluation.

3.1 Pre-Field Activities

Pursuant to the Code of Federal Regulations (CFR), Title 29, Section 1910.120 and the California Code of Regulations (CCR) Title 8, Section 5192, ARCADIS prepared a site-specific Health and Safety Plan (HASP) to address health and safety concerns related to the groundwater monitoring activities proposed at the Site. The HASP was developed to identify and control potential hazards in order to minimize exposures of workers involved in the environmental assessment activities to site-related COCs. The HASP included the following information:

- Site description,
- Roles and responsibilities,
- Project hazards and control information,
- General safety practices,
- Personal protective equipment,
- Work zones and decontamination,
- Training and medical surveillance, and
- Emergency procedures.

3.2 Field Activities

3.2.1 Land Surveying

On July 27, 2009, ARCADIS contracted Towill, Inc. to survey the eleven existing and newly installed groundwater monitoring wells (MW-1 through MW-11) and to tie in the building corners and oil/water separator to complete the site base map. Horizontal location coordinates and elevations were recorded using a global positioning system (GPS) and a combination of conventional survey methods. Coordinates were based on California Coordinate System, Zone 5 (NAD83) State Plane Coordinates in the U.S. Survey Foot units as required for uploading the data to the State of California GeoTracker website. Elevations were based on the North American Vertical Datum (NAVD88). Top of casing (TOC) elevations of the surveyed groundwater monitoring wells are listed in Table 1.

3.2.2 Groundwater Sampling

ARCADIS mobilized to the Site on October 29, 2010 to measure depth to groundwater and to collect groundwater samples from the eleven existing groundwater wells; however, ARCADIS was unable to access monitoring well MW-3 due to a parked vehicle. ARCADIS re-mobilized back to the Site on November 22, 2010 to sample well MW-3. Groundwater was encountered between 4.15 and 8.58 feet bgs (8.35 and 3.86 feet above mean sea level) in the monitoring wells during the two aforementioned mobilizations. Please refer to Figure 3 for a Potentiometric Surface Map. Groundwater samples were collected in preserved laboratory-supplied containers, stored on ice, and shipped overnight to ESC Lab Sciences in Mt. Juliet, Tennessee for analysis.

Low flow sampling techniques using a peristaltic pump and dedicated polyethylene tubing were utilized to collect groundwater samples from each of the monitoring wells. During well purging, the following groundwater measurements were recorded: depth to water, depth to bottom of the well, pH, temperature, ORP, DO, and specific conductivity. Field data of each groundwater monitoring well are summarized in Table 1.

3.2.3 Analytical Methods

Groundwater analyses were selected based on the potential source(s) of contamination (used oil, unleaded gasoline, and diesel fuel). Each collected groundwater samples were analyzed for TPH-Low Fraction and TPH-DRO (C10-C22, C22-C32, and C32-C40) by Environmental Protection Agency (EPA) Method 8015 and VOCs by EPA Method 8260B. In addition, groundwater samples from MW-1 through MW-11 were analyzed for alkalinity by Standard Method (SM) 2320B, sulfate and nitrogen by EPA Method 9056, phosphate by EPA Method 365.1, and ferrous iron by SM Fe-3500.

3.2.4 Quality Assurance / Quality Control

ARCADIS employed quality assurance/quality control (QA/QC) procedures in accordance with the ARCADIS Field Health and Safety Handbook (August 2010) and ARCADIS Procedures which detail standard operating procedures (SOPs) for the primary field activities. Related QA/QC guidance and procedures were employed for the following activities:

- Data recording / field books,
- Groundwater sample collection for laboratory analysis,
- Sample handling and shipping,
- Usage and calibration of field instruments, and
- Equipment decontamination.

3.2.5 Decontamination Procedures

Prior to sampling, all non-disposable sampling equipment was decontaminated using a phosphate-free detergent solution, and then rinsed with tap water. Disposable sampling equipment (including Nitrile gloves, plastic bags, and groundwater sample collection polyethylene tubing) was disposed of outside the sampling area in order to prevent cross-contamination of groundwater samples. Decontamination fluids were stored in 55-gallon Department of Transportation-approved drums for subsequent off-site disposal.

3.2.6 Analytical Results

Laboratory analytical results for the collected groundwater samples are summarized in Table 2. Groundwater TPH concentrations were compared to the SFRWQCB ESLs. Cleanup criteria for VOCs are based on City of Oakland Risk-Based Screening Level (RSBLs), SFRWQCB ESLs, and California Department of Public Health (DPH) Maximum Contaminant Levels (MCLs) for groundwater. An MCL is defined as the highest concentration of a contaminant that is allowed in drinking water. The groundwater analytical results are discussed below.

3.2.6.1 TPH

TPH Low Fraction was not detected above the laboratory reporting limits in the collected groundwater samples.

TPH-DRO C10-C22 was detected at concentrations ranging between 0.33 milligrams per liter (mg/L) (MW-10) and 7.5 mg/L (MW-6), exceeding the 0.21 mg/L SFRWQCB ESL in each of the monitored wells. TPH-DRO C22-C32 was detected at concentrations ranging between 0.034 mg/L (MW-10) and 3.6 mg/L (MW-6), exceeding the 0.21 mg/L SFRWQCB ESL in the groundwater sample collected from each of the monitoring wells except MW-10. TPH-DRO C32-C40 was detected at concentrations

ranging between non-detect (MW-10) and 0.71 (MW-6); however, the observed concentrations exceeded the 0.21 mg/L SFRWQCB ESL in wells MW-3 through MW-7.

3.2.6.2 VOCs

None of the VOCs analyzed for were detected above the laboratory reporting limits in the groundwater samples collected from monitoring wells MW-1, MW-3, MW-9, MW-10, and MW-11. The VOCs detected in the monitoring wells MW-4, MW-7, and MW_8 were below applicable SFRWQCB ESLs, California DPH MCLs, and City of Oakland RBSLs for Ingestion of Groundwater. Methyl tert-butyl ether (MTBE) was detected in the groundwater samples collected from monitoring wells MW-5 and MW-6 exceeding California DPH MCLs and City of Oakland RBSLs. Acetone was detected in one well (MW-7) at an estimated concentration of 18 micrograms per liter (µg/L). 1,1-Dichloroethene was detected in one well (MW-2) at an estimated concentration of 0.56 µg/L. Cis-1,2-dichloroethene was detected in one well (MW-4) at a concentration of 1.0 µg/L. MTBE was detected in five wells (MW-2, MW-5, MW-6, MW-7, and MW-8) at concentrations of 4.1 µg/L, 14 µg/L, 18 µg/L, 2.4 µg/L, and 1.7 µg/L, respectively. Vinyl chloride was detected in one well (MW-2) at an estimated concentration of 0.37 µg/L. Monitoring wells MW-5 and MW-6 are located in the vicinity of the former gasoline and diesel USTs.

3.2.6.3 Intrinsic Bioremediation/Natural Attenuation

As mentioned earlier, groundwater samples were also analyzed for alkalinity, sulfate, nitrogen, phosphate, and ferrous iron to determine if natural attenuation was occurring at the Site. In addition, pH, specific conductivity, ORP and DO were monitored during groundwater monitoring well purging. Alkalinity in the monitored wells ranged from 490 milligrams per liter (mg/L) (MW-8) to 1,800 mg/L (MW-1). Ferrous iron concentrations ranged from 0.91 mg/L (MW-3) to 74 mg/L (MW-1). Sulfate concentrations ranged from non-detect (MW-1, MW-4, MW-5, MW-6, MW-7, and MW-8) to 180 mg/L (MW-11). Phosphate concentrations ranged from 0.87 mg/L (MW-8) to 6.2 mg/L (MW-3 and MW-9). Nitrate (as nitrogen) was not detected in the groundwater samples. DO concentrations ranged from 0.12 mg/L (MW-7) to 0.29 mg/L (MW-9). pH ranged from 6.71 (MW-6) to 7.31 (MW-2). Specific conductivity ranged from 0.1129 Siemens per meter (S/m) (MW-8) to 0.8981 S/m (MW-11). ORP ranged from -64.0 millivolts (mV) (MW-11) to -139.7 mV (MW-10). Turbidity was not monitored during this sampling event.

3.3 Data Evaluation

Analytical data collected during the groundwater investigation activities were compared to historical data to identify any concentration trends in groundwater and to obtain an overall status of the impact to groundwater at the Site.

Historical groundwater analytical results indicated that, based on the majority of the samples which contained total dissolved solids (TDS) concentrations in excess of 3,000 mg/L, the shallow groundwater under the Site was not suitable for drinking water use. The groundwater samples collected during the 2010 monitoring event were not analyzed for TDS.

The bioremediation parameter data indicated that intrinsic bioremediation is occurring at the Site. The nitrogen and iron data were not taken into consideration as an indication of microbial activity because the analyses were performed close to the analytical methods' holding times and; therefore, there is some uncertainty in these data. However, the relatively low sulfate and phosphate concentrations throughout the Site are likely due to assimilation and use to support microbial growth in the areas with previously higher impacts. In addition, the lower pH and DO concentrations in areas of higher TPH concentrations relative to other areas on the Site are also indicative of increased microbial activity in these areas. As the microorganisms aerobically biodegrade the organic COCs, they utilize DO (lowering DO levels in the groundwater) and generate slightly acidic waste byproducts (lowering the pH).

Since this is the first quarterly groundwater sampling event, trends in TPH, VOCs, and bioremediation parameters could not be evaluated. Concentration trends will be prepared and provided in future monitoring reports once enough analytical data are collected.

4. Conclusions and Recommendations

The purpose of this groundwater investigation was to assess the current groundwater conditions at the Site to support the efforts to pursue closure of open LUST Case ID RO-0001389.

4.1 Conclusions

All eleven groundwater monitoring wells at the Site were sampled for VOCs, TPH, and intrinsic bioremediation parameters. Concentrations of TPH and VOCs were detected in several of the collected groundwater samples. The TPH constituents detected at low concentrations in several of the groundwater samples are likely weathered residual components of the petroleum products released to the subsurface in the past, and are an indication of intrinsic bioremediation occurring at the Site. Based on the results of this site investigation, ARCADIS concludes that intrinsic bioremediation has been occurring at the Site. The Site is capped with asphalt and concrete, and the current and future land use is commercial. No drinking water supply wells are located on-site or within one mile of the Site.

4.2 Recommendations

Based on the results of this site investigation and the anticipated future use of the Site for commercial or light industrial purposes, ARCADIS recommends continuing quarterly groundwater monitoring for the next three quarters to evaluate trends in TPH and VOC concentrations, along with the bioremediation parameters, monitored during this sampling event. Should the trends in TPH and VOC concentrations remain stable or decrease over the proposed quarterly monitoring period, ARCADIS will recommend applying for a “Low Risk Closure” status for the Site, and will request a “No Further Action” letter from the ACHCSA for the Site. The “Low Risk Closure” status may include a deed notice or restriction based on the conditions documented from previous assessments and during the proposed quarterly groundwater monitoring at the Site.

References

State of California Water Resources Control Board, UST Program Tank Permit Application Information, GMC Truck Center, 8099 South Coliseum Way, Oakland, California; November 15, 1989.

Clayton Environmental Consultants (Clayton), Phase I Level II ESA, GMC Truck, 8099 Coliseum Way, California; August 6, 1993.

Clayton, Phase I ESA, GMC Truck, 8099 Coliseum Way, Oakland, California; August 26, 1993.

Groundwater Technology, Inc. (GTI), Work Plan for Further Assessment, GMC Truck Center, 8099 South Coliseum Way, Oakland, California; January 26, 1995.

Fluor Daniel GTI (FD-GTI)_, Report of Sampling and Analysis of Activities, GMC Truck Center, 8099 South Coliseum Way, Oakland, California; April 12, 1996.

FD-GTI, Aquifer Characterization Report, GMC Truck Center, 8099 South Coliseum Way, Oakland, California; May 14, 1996.

FD-GTI, Risk-Based Corrective Action of Soil and Groundwater, General Motors Corporation White Truck Center, 8099 Coliseum Way, Oakland, California; January 9, 1997, revised March 1997.

ARCADIS U.S., Inc. (ARCADIS), Phase I ESA, Oakland Truck Center, 8099 South Coliseum Way, Oakland, California; March 24, 2008.

ARCADIS, Phase II ESA, Oakland Truck Center, 8099 South Coliseum Way, Oakland, California; June 19, 2008.

ARCADIS Field Method Guidelines Manual; latest revision August 2010.

ARCADIS Health and Safety Plan. For Activities at Oakland Truck Center, 8099 South Coliseum Way, Oakland, California; October 2010.

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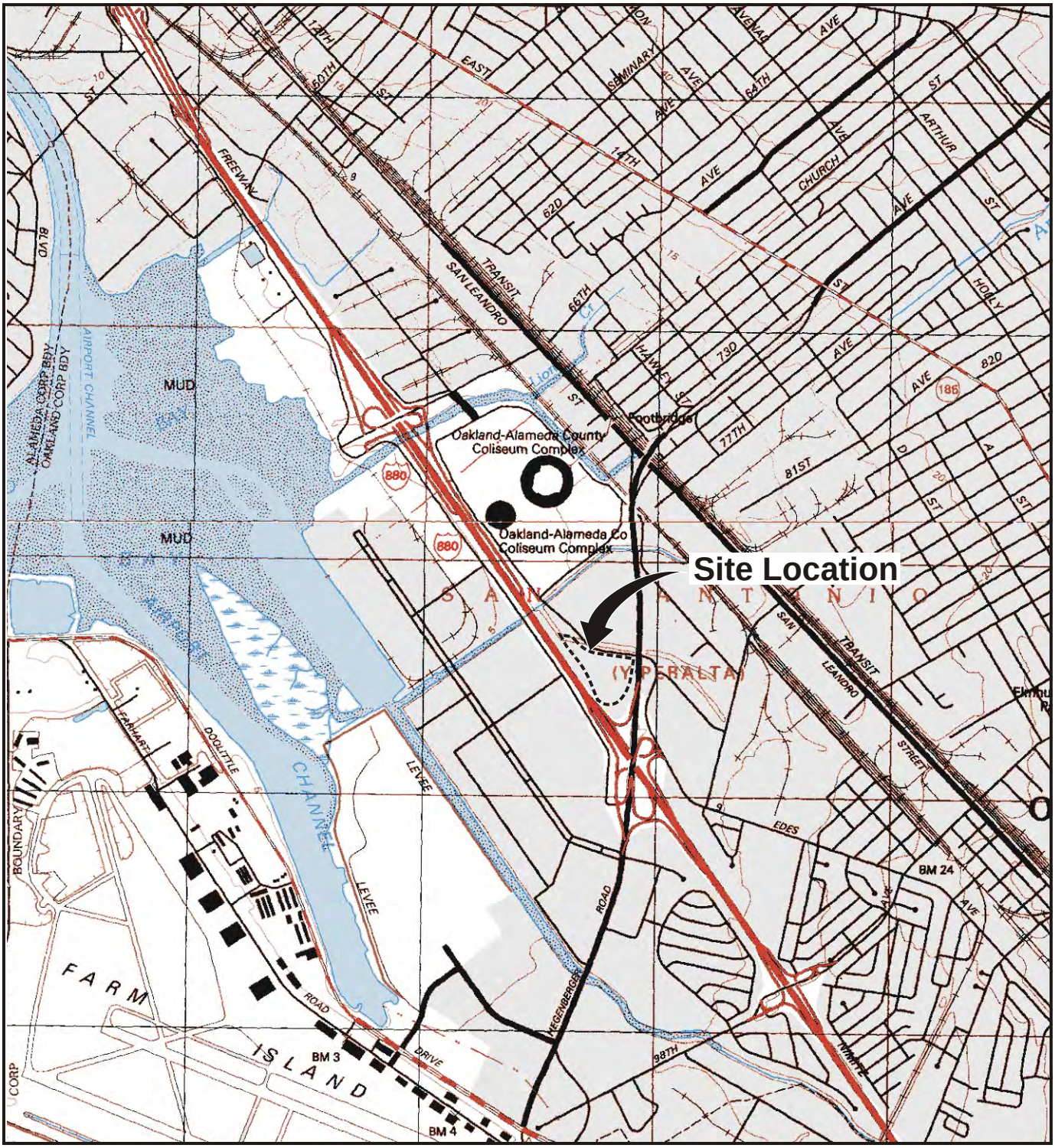
Appendix **A**

Figures



REFERENCE: BASE MAP USGS 7.5 MIN. QUADS. OAKLAND EAST, CA. 1997, AND SAN LEANDRO, CA. 1993.

2000' 0 2000'

Approximate Scale: 1" = 2000'

Area Location

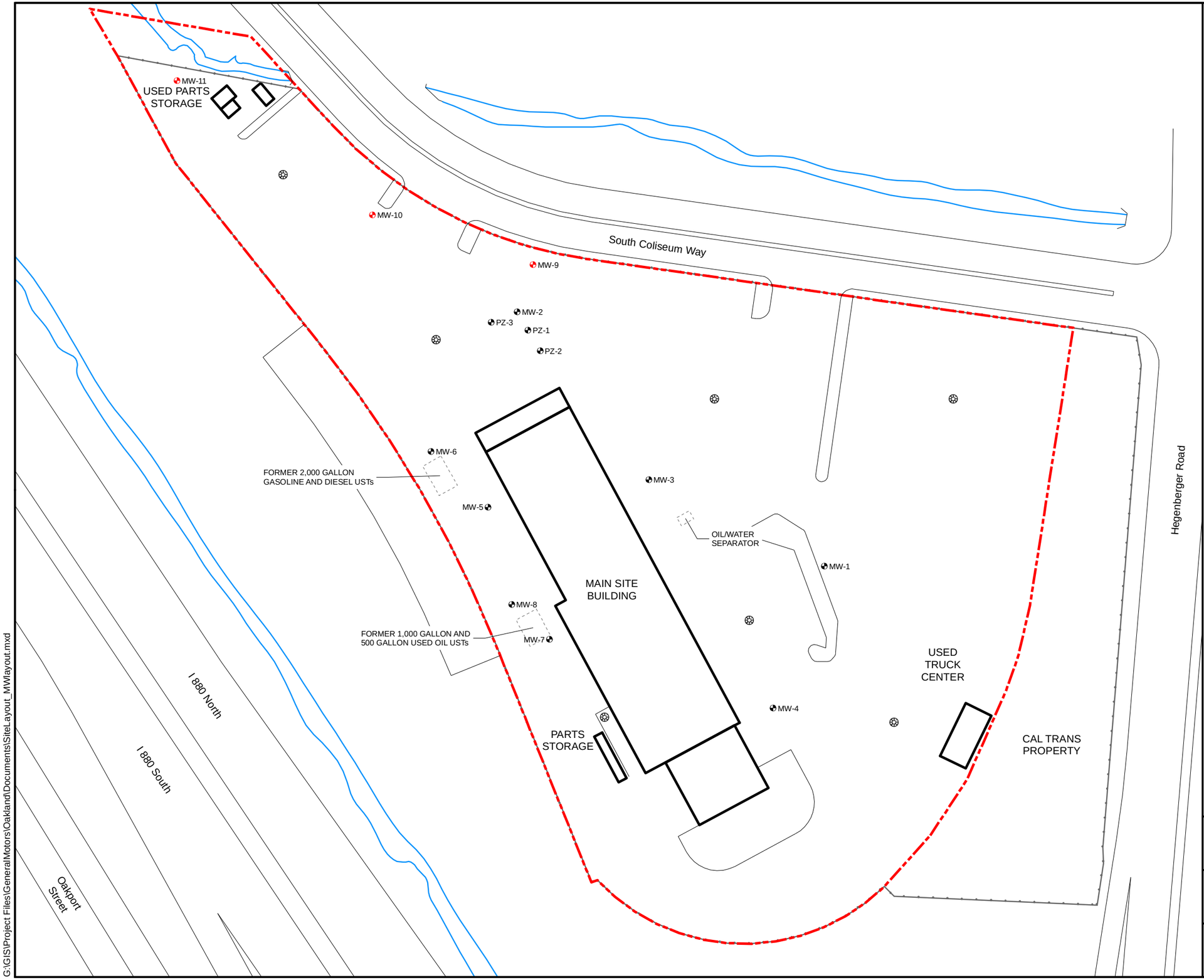
FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CA 94621

SITE LOCATION MAP

ARCADIS

FIGURE
1

05/17/2011 SYRACUSE-141ENV-DJHOWES
B0064601/0000/00008/CDR/64601N01.CDR



PROJECT NUMBER: B006460
CITY:NOVI DIV/GROUP:ENV DB: PIC: PM: TM: TR:
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LEGEND

- MONITORING WELL (ARCADIS; JULY 2009)
- MONITORING WELL LOCATION (FLOUR; MARCH 1996)
- STORMWATER DRAIN
- DITCH
- FENCE
- PROPERTY BOUNDARY

NOTE:

MONITORING WELL LOCATIONS (MW-1 THROUGH MW-11) WERE SURVEYED ON JULY 28, 2009.

0 80 160

SCALE IN FEET

FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

SITE MAP SHOWING MONITORING WELL LOCATIONS

ARCADIS

FIGURE
2

MW-11
3.72
USED PARTS
STORAGE
MW-10
3.83
South Coliseum Way
MW-9
3.86
MW-2
3.95
PZ-3
PZ-1
PZ-2
4.0
4.5
5.0
5.5
6.0
MW-6
4.95
FORMER 2,000 GALLON
GASOLINE AND DIESEL USTs
MW-5
5.22
MW-3
5.81
OIL/WATER
SEPARATOR
MW-1
6.13
MW-8
5.90
FORMER 1,000 GALLON AND
500 GALLON USED OIL USTs
MW-7
5.35*
MAIN SITE
BUILDING
MW-4
8.35
PARTS
STORAGE
USED
TRUCK
CENTER
CAL TRANS
PROPERTY
Hegenberger Road
I 880 North
I 880 South
Oakport
Street

PROJECT NUMBER: B006460.00.07
CITY:NOVI DIV/GROUP:ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\GeneralMotors\Oakland\201010_potentiometric surface.mxd

LEGEND

- MONITORING WELL (ARCADIS; JULY 2009)
- MONITORING WELL LOCATION (FLOUR; MARCH 1996)
- STORMWATER DRAIN
- DITCH
- FENCE
- PROPERTY BOUNDARY
- 5.5 — POTENTIOMETRIC SURFACE IN FEET ABOVE MEAN SEA LEVEL
- INFERRED POTENTIOMETRIC ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- * ELEVATION NOT USED IN CONTOURING

NOTE:

1. SOIL BORING LOCATIONS ARE APPROXIMATE.

2. MONITORING WELL LOCATIONS (MW-1 THROUGH MW-11) WERE SURVEYED ON JULY 28, 2009.

0 80 160

SCALE IN FEET

FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

POTENTIOMETRIC SURFACE MAP OCTOBER AND NOVEMBER 2010

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FIGURE
3

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Appendix **B**

Tables

TABLE 1
FIELD DATA

FORMER OAKLAND TRUCK CENTER
8099 S. COLISEUM WAY
OAKLAND, CALIFORNIA 94621

Well ID	Date	TOC (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Bottom (ft btoc)	Temperature (°C)	pH	DO (mg/L)	Specific Conductivity (S/m)	Turbidity (NTU)	ORP (mV)
MW-1	4/21/2008	12.46	4.61	7.85	20.13	NM	NM	NM	NM	NM	NM
	7/29/2009	12.46	7.20	5.26	20.24	21.85	7.42	4.22	0.4520	53.9	-138.0
	10/29/2010	12.46	6.33	6.13	20.35	22.21	7.10	0.25	0.3778	NM	-110.5
MW-2	4/21/2008	12.37	8.76	3.61	19.70	NM	NM	NM	NM	NM	NM
	7/29/2009	12.37	9.03	3.34	20.02	20.59	7.53	5.78	0.9990	0.0	-54.0
	10/29/2010	12.37	8.42	3.95	20.07	21.90	7.31	0.23	0.6697	NM	-133.2
MW-3	4/21/2008	13.06	7.30	5.76	20.02	NM	NM	NM	NM	NM	NM
	7/28/2009	13.06	10.20	2.86	20.00	22.42	7.30	2.85	0.9490	348.0	-153.0
	10/29/2010	13.06	7.49	5.57	20.30	NM	NM	NM	NM	NM	NM
	11/22/2010	13.03	7.22	5.81	20.25	20.54	7.11	0.25	0.3769	NM	-113.9
MW-4	4/23/2008	12.50	4.25	8.25	17.79	NM	NM	NM	NM	NM	NM
	7/29/2009	12.50	6.12	6.38	17.54	21.97	7.38	1.38	0.3380	110.0	-122.0
	10/29/2010	12.50	4.15	8.35	18.00	23.03	7.00	0.19	0.2160	NM	-129.8
MW-5	4/22/2008	13.38	7.19	6.19	17.95	NM	NM	NM	NM	NM	NM
	7/29/2009	13.38	8.19	5.19	9.88	23.36	7.27	3.91	0.3990	5.0	-150.0
	10/29/2010	13.38	8.16	5.22	17.10	24.47	7.05	0.15	0.3459	NM	-89.1
MW-6	4/22/2008	12.33	7.20	5.13	17.71	NM	NM	NM	NM	NM	NM
	7/29/2009	12.33	7.70	4.63	17.90	21.84	7.28	5.59	0.3610	37.2	-127.0
	10/29/2010	12.33	7.38	4.95	17.95	22.31	6.71	0.15	0.3366	NM	-106.4
MW-7	4/23/2008	13.17	7.06	6.11	17.89	NM	NM	NM	NM	NM	NM
	7/28/2009	13.17	8.04	5.13	18.05	24.16	6.69	1.27	0.2130	47.0	-133.0
	10/29/2010	13.17	7.82	5.35	18.10	22.87	6.85	0.12	0.2251	NM	-110.1
MW-8	4/23/2008	12.64	6.28	6.36	20.95	NM	NM	NM	NM	NM	NM
	7/29/2009	12.64	7.44	5.20	20.11	20.45	5.99	7.71	0.1520	39.2	-130.0
	10/29/2010	12.64	6.74	5.90	20.22	23.08	6.93	0.18	0.1129	NM	-101.1
MW-9	7/28/2009	12.44	9.74	2.70	20.11	20.78	9.31	4.78	0.6590	0.0	-142.0
	10/29/2010	12.44	8.58	3.86	20.25	21.17	7.10	0.29	0.6523	NM	-126.6

TABLE 1
FIELD DATA

FORMER OAKLAND TRUCK CENTER
8099 S. COLISEUM WAY
OAKLAND, CALIFORNIA 94621

Well ID	Date	TOC (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)	Depth to Bottom (ft btoc)	Temperature (°C)	pH	DO (mg/L)	Specific Conductivity (S/m)	Turbidity (NTU)	ORP (mV)
MW-10	7/28/2009	11.49	8.44	3.05	20.14	22.77	7.62	3.03	0.7460	0.0	-146.0
	10/29/2010	11.49	7.66	3.83	20.25	22.94	7.32	0.25	0.6652	NM	-139.7
MW-11	7/28/2009	10.93	7.33	3.60	16.54	21.71	7.74	3.62	3.5600	0.0	-80.0
	10/29/2010	10.93	7.21	3.72	18.30	22.02	6.81	0.25	0.8981	NM	-64.0
PZ-1	4/21/2008	NM	9.21	NA	19.11	NM	NM	NM	NM	NM	NM
PZ-2	4/21/2008	NM	9.45	NA	19.70	NM	NM	NM	NM	NM	NM
PZ-3	4/21/2008	NM	8.89	NA	19.28	NM	NM	NM	NM	NM	NM

Notes:

Monitoring wells MW-1 through MW-11 were surveyed on July 28, 2009.

amsl = above mean sea level

btoc = below top of casing

°C = degrees Celsius

DO = dissolved oxygen

ft = feet

mg/L = milligrams per liter

mV = millivolts

NA = not available

NM = not measured

NTU = Nephelometric turbidity units

ORP = oxidation-reduction potential

S/m = Siemens per meter

TOC = top of casing

TABLE 2
GROUNDWATER ANALYTICAL RESULTS

FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

Sample ID: / Date Collected: / Analytical Parameter	Units	*Reference Cleanup Criteria			MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
		SFRWQCB ESLs for Groundwater	California Department of Public Health MCLs	Oakland Tier I RBSLs for Ingestion of Groundwater – Commercial / Industrial	10/29/2010	10/29/2010	11/23/2010	10/29/2010	10/29/2010	10/29/2010	10/29/2010
TPH-Low Fraction (EPA Method 8015B)	mg/L	0.21	--	--	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
TPH-DRO (EPA Method 8015B)											
C10-C22	mg/L	0.21	--	--	1.7 Y4	1 Y4	2 Y4	2.7 Y1	6.4 Y1	7.5 Y1	3.7 Y1
C22-C32	mg/L	0.21	--	--	0.55 Y4	0.32 Y4	0.77 Y4	1.4 Y4	2.8 Y4	3.6 Y4	1.2 Y4
C32-C40	mg/L	0.21	--	--	0.16 Y4	0.11 Y4	0.21 Y4	0.39 Y4	0.63 Y4	0.71 Y4	0.3 Y4
VOCs (EPA Method 8260)											
Acetone	µg/L	1,500	--	10,000	<16	<16	<16	<16	<16	<16	18 J
1,1-Dichloroethene	µg/L	25	--	6	<0.41	0.56 J	<0.41	<0.41	<0.41	<0.41	<0.41
cis-1,2-Dichloroethene	µg/L	590	--	6	<0.34	<0.34	<0.34	1.0	<0.34	<0.34	<0.34
Methyl tert-butyl ether	µg/L	1,800	13	13	<0.63	4.1	<0.63	<0.63	14	18	2.4
Vinyl chloride	µg/L	3.8	0.5	0.5	<0.34	0.37 J	<0.34	<0.34	<0.34	<0.34	<0.34
Other Target VOCs	µg/L	Various	Various	Various	ND	ND	ND	ND	ND	ND	ND
Other Parameters											
Alkalinity (SM 2320B)	mg/L	--	--	--	1,800	1,300	1,200	810	1,700	1,400	1,200
Phosphate (EPA Method 365.1)	mg/L	--	--	--	3.7	2.2	6.2	2.4	1.6	3.0	2.2
Sulfate (EPA Method 9056)	mg/L	--	--	--	<0.46	23	14	<0.46	<0.46	<0.46	<0.46
Nitrate, as Nitrogen (EPA Method 9056)	mg/L	--	1	--	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041
Ferrous Iron (SM Fe-3500)	mg/L	--	--	--	74	1.1	0.91	39	NA	45	32

Notes:

Cleanup Criteria Exceedances are double bordered.
-- = not available
Cal EPA = California Environmental Protection Agency
DRO = diesel range organics
EPA = U.S. Environmental Protection Agency
ESLs = Environmental Screening Levels
J = estimated concentration, reported above the method detection limit but below the laboratory reporting limit
MCLs = Maximum Contaminant Levels
mg/L = milligrams per liter
µg/L = micrograms per liter
NA = not analyzed
ND or < = analyte not detected at or above the indicated laboratory reporting limit
NS = not sampled
PRGs = Preliminary Remediation Goals
RBSLs = Risk-Based Screening Levels
RSLs = Regional Screening Levels
SFRWQCB = San Francisco Bay Regional Water Quality Control Board
SM = standard method
TPH = total petroleum hydrocarbon
VOCs - volatile organic compounds
Y1 = sample most closely matches the laboratory standard for diesel
Y4 = sample most closely matches the laboratory standard for motor oil
*Groundwater Cleanup Criteria: TPH concentrations were compared to the SFRWQCB ESLs Groundwater Screening Levels for groundwater not used for drinking water. The ESLs are representative of an expansion of the EPA PRGs (and by default, the Cal EPA California Human Health Screening Levels) and the City of Oakland Screening Levels to reflect the broader Interim Final – November 2007 (revised May 2008) scope of environmental concerns put forth in the Basin Plan.
Cleanup criteria for VOCs are based on SFRWQCB RSLs, California Department of Public Health MCLs (November 2010), and City of Oakland Screening Levels.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS

FORMER OAKLAND TRUCK CENTER
8099 SOUTH COLISEUM WAY
OAKLAND, CALIFORNIA 94621

Sample ID: / Date Collected: / Analytical Parameter	Units	*Reference Cleanup Criteria			MW-8	MW-9	MW-10	MW-11
		SFRWQCB ESLs for Groundwater	California Department of Public Health MCLs	Oakland Tier I RBSLs for Ingestion of Groundwater				
				Commercial / Industrial	10/29/2010	10/29/2010	10/29/2010	10/29/2010
TPH-Low Fraction (EPA Method 8015B)	mg/L	0.21	--	--	<0.04	<0.04	<0.04	<0.04
TPH-DRO (EPA Method 8015B)								
C10-C22	mg/L	0.21	--	--	2.1 Y1	1 Y1	0.33 Y1	0.74 Y4
C22-C32	mg/L	0.21	--	--	0.42 Y1	0.25 Y1	0.034 J Y1	0.28 Y4
C32-C40	mg/L	0.21	--	--	0.15 Y1	0.09 J Y1	<0.33	0.097 J Y4
VOCs (EPA Method 8260)								
Acetone	µg/L	1,500	--	10,000	<16	<16	<16	<16
1,1-Dichloroethene	µg/L	25	--	6	<0.41	<0.41	<0.41	<0.41
cis-1,2-Dichloroethene	µg/L	590	--	6	<0.34	<0.34	<0.34	<0.34
Methyl tert-butyl ether	µg/L	1,800	13	13	1.7	<0.63	<0.63	<0.63
Vinyl chloride	µg/L	3.8	0.5	0.5	<0.34	<0.34	<0.34	<0.34
Other Target VOCs	µg/L	Various	Various	Various	ND	ND	ND	ND
Other Parameters								
Alkalinity (SM 2320B)	mg/L	--	--	--	490	970	920	910
Phosphate (EPA Method 365.1)	mg/L	--	--	--	0.87	6.2	6.0	5.6
Sulfate (EPA Method 9056)	mg/L	--	--	--	<0.46	120	120	180
Nitrate, as Nitrogen (EPA Method 9056)	mg/L	--	1	--	<0.041	<0.041	<0.041	<0.041
Ferrous Iron (SM Fe-3500)	mg/L	--	--	--	16	7.9	8	5.7

Notes:

Cleanup Criteria Exceedances are double bordered.
-- = not available
Cal EPA = California Environmental Protection Agency
DRO = diesel range organics
EPA = U.S. Environmental Protection Agency
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Cleanup criteria for VOCs are based on SFRWQCB RSLs, California Department of Public Health MCLs (November 2010), and City of Oakland Screening Levels.

ARCADIS

Appendix **C**

Analytical Reports

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

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

Report Summary

Wednesday November 10, 2010

Report Number: L486999
Samples Received: 11/01/10
Client Project: B0064436.0694.00001

Description: Oakland Truck Center

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: John Hawkins

John Hawkins , 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,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-01

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-7 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 18:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/04/10	1
Sulfate	U	460	5000	ug/l		9056	11/04/10	1
Alkalinity	1200000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	32000	300	1200	ug/l	T8	3500Fe-	11/04/10	25
Phosphorus,Total	2200	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l	J5	8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	82.5			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	3700	9.7	100	ug/l	Y1	8015	11/06/10	1
C22-C32 Hydrocarbons	1200	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	300	33.	100	ug/l	Y4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	137.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	18.	16.	50.	ug/l	J	8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 11/10/10 11:35 Printed: 11/10/10 11:36

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-01

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-7 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 18:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	2.4	0.63	1.0	ug/l		8260B	11/03/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-01

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-7 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 18:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	108.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	104.			% Rec.		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-02

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-8 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 18:58

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/04/10	1
Sulfate	U	460	5000	ug/l		9056	11/04/10	1
Alkalinity	490000	3000	20000	ug/l		2320B	11/08/10	1
Ferrous Iron	16000	120	500	ug/l	T8	3500Fe-	11/04/10	10
Phosphorus,Total	870	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	82.9			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	2100	9.7	100	ug/l	Y1	8015	11/06/10	1
C22-C32 Hydrocarbons	420	33.	100	ug/l	Y1	8015	11/06/10	1
C32-C40 Hydrocarbons	150	33.	100	ug/l	Y1	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	106.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/04/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-02

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-8 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 18:58

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	1.7	0.63	1.0	ug/l		8260B	11/04/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-02

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-8 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 18:58

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	111.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	101.			% Rec.		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-03

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-9 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	120000	2300	25000	ug/l		9056	11/06/10	5
Alkalinity	970000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	7900	59.	250	ug/l	T8	3500Fe-	11/04/10	5
Phosphorus,Total	6200	52.	200	ug/l		365.1	11/08/10	2
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	82.9			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	1000	9.7	100	ug/l	Y1	8015	11/06/10	1
C22-C32 Hydrocarbons	250	33.	100	ug/l	Y1	8015	11/06/10	1
C32-C40 Hydrocarbons	90.	33.	100	ug/l	JY1	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	107.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-03

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-9 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	U	0.63	1.0	ug/l		8260B	11/04/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-03

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-9 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 13:10

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	114.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	101.			% Rec.		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-04

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-10 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 14:22

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	120000	2300	25000	ug/l		9056	11/06/10	5
Alkalinity	920000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	8000	59.	250	ug/l	T8	3500Fe-	11/04/10	5
Phosphorus,Total	6000	52.	200	ug/l		365.1	11/08/10	2
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	82.6			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	330	9.7	100	ug/l	Y1	8015	11/06/10	1
C22-C32 Hydrocarbons	34.	33.	100	ug/l	JY1	8015	11/06/10	1
C32-C40 Hydrocarbons	U	33.	100	ug/l		8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	101.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-04

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-10 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 14:22

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	U	0.63	1.0	ug/l		8260B	11/04/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-04

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-10 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 14:22

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	116.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	97.1			% Rec.		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-05

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-11 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 15:19

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	180000	2300	25000	ug/l		9056	11/06/10	5
Alkalinity	910000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	5700	59.	250	ug/l	T8	3500Fe-	11/04/10	5
Phosphorus,Total	5600	52.	200	ug/l		365.1	11/08/10	2
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	82.9			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	740	9.7	100	ug/l	Y4	8015	11/06/10	1
C22-C32 Hydrocarbons	280	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	97.	33.	100	ug/l	JY4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	101.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-05

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-11 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 15:19

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	U	0.63	1.0	ug/l		8260B	11/04/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-05

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-11 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 15:19

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	115.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	100.			% Rec.		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-06

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-1 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 09:57

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	U	460	5000	ug/l		9056	11/03/10	1
Alkalinity	1800000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	74000	300	1200	ug/l	T8	3500Fe-	11/04/10	25
Phosphorus,Total	3700	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	83.5			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	1700	9.7	100	ug/l	Y4	8015	11/06/10	1
C22-C32 Hydrocarbons	550	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	160	33.	100	ug/l	Y4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	102.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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Note:
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-06

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-1 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 09:57

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	U	0.63	1.0	ug/l		8260B	11/03/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-06

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-1 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 09:57

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	115.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	99.8			% Rec.		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-07

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-2 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 12:13

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	23000	460	5000	ug/l		9056	11/03/10	1
Alkalinity	1300000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	1100	12.	50.	ug/l	T8	3500Fe-	11/04/10	1
Phosphorus,Total	2200	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	82.9			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	1000	9.7	100	ug/l	Y4	8015	11/06/10	1
C22-C32 Hydrocarbons	320	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	110	33.	100	ug/l	Y4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	98.8			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-07

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-2 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 12:13

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	0.56	0.41	1.0	ug/l	J	8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	4.1	0.63	1.0	ug/l		8260B	11/03/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

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RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-07

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-2 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 12:13

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	0.37	0.34	1.0	ug/l	J	8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	115.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	99.9			% Rec.		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-08

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-4 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 11:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	U	460	5000	ug/l		9056	11/03/10	1
Alkalinity	810000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	39000	300	1200	ug/l	T8	3500Fe-	11/04/10	25
Phosphorus,Total	2400	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	84.2			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	2700	9.7	100	ug/l	Y1	8015	11/06/10	1
C22-C32 Hydrocarbons	1400	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	390	33.	100	ug/l	Y4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	107.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-08

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-4 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 11:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	1.0	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	U	0.63	1.0	ug/l		8260B	11/03/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-08

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-4 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 11:02

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	115.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	101.			% Rec.		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-09

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-5 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 16:18

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/03/10	1
Sulfate	U	460	5000	ug/l		9056	11/03/10	1
Alkalinity	1700000	30000	200000	ug/l		2320B	11/08/10	10
Phosphorus,Total	1600	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	84.7			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	6400	49.	500	ug/l	Y1	8015	11/08/10	5
C22-C32 Hydrocarbons	2800	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	630	33.	100	ug/l	Y4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	81.2			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-09

Site ID : 8099 S. COLISEUM WAY

Project # : B0064436.0694.00001

Date Received : November 01, 2010
Description : Oakland Truck Center

Sample ID : MW-5 15FT

Collected By : Alex Martinez
Collection Date : 10/29/10 16:18

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	14.	0.63	1.0	ug/l		8260B	11/03/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1

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REPORT OF ANALYSIS

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ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-09

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-5 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 16:18

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	116.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	101.			% Rec.		8260B	11/03/10	1

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-10

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-6 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 17:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l	T8	9056	11/04/10	1
Sulfate	U	460	5000	ug/l		9056	11/04/10	1
Alkalinity	1400000	30000	200000	ug/l		2320B	11/08/10	10
Ferrous Iron	45000	300	1200	ug/l	T8	3500Fe-	11/04/10	25
Phosphorus,Total	3000	26.	100	ug/l		365.1	11/08/10	1
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/04/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	84.5			% Rec.		8015D/G	11/04/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	7500	49.	500	ug/l	Y1	8015	11/08/10	5
C22-C32 Hydrocarbons	3600	33.	100	ug/l	Y4	8015	11/06/10	1
C32-C40 Hydrocarbons	710	33.	100	ug/l	Y4	8015	11/06/10	1
Surrogate Recovery								
o-Terphenyl	102.			% Rec.		8015	11/06/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/03/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/03/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/03/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/03/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/03/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/03/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/03/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/03/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/03/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/03/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/03/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/03/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/03/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l		8260B	11/03/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 11/10/10 11:35 Printed: 11/10/10 11:36

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Est. 1970

REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-10

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-6 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 17:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/03/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/03/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/03/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/03/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/03/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/03/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/03/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/03/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/03/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/03/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/03/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/03/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/03/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/03/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/03/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/03/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/03/10	1
Methyl tert-butyl ether	18.	0.63	1.0	ug/l		8260B	11/03/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/03/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/03/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/03/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/03/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/03/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/03/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/03/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/03/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/03/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/03/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/03/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/03/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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Est. 1970

REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 10, 2010

ESC Sample # : L486999-10

Date Received : November 01, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-6 15FT

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 10/29/10 17:05

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/03/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/03/10	1
Surrogate Recovery								
Toluene-d8	103.			% Rec.		8260B	11/03/10	1
Dibromofluoromethane	116.			% Rec.		8260B	11/03/10	1
4-Bromofluorobenzene	83.8			% Rec.		8260B	11/03/10	1

U = ND (Not Detected)ND = Non Detect Above the Method Detection Limit
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 11/10/10 11:35 Printed: 11/10/10 11:36

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L486999-01	WG506504	SAMP	Nitrate	R1458071	T8
	WG506678	SAMP	TPH (GC/FID) Low Fraction	R1457149	J5
	WG506629	SAMP	Acetone	R1456032	J
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y4
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-02	WG506504	SAMP	Nitrate	R1458071	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y1
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-03	WG506505	SAMP	Nitrate	R1455910	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	JY1
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-04	WG506505	SAMP	Nitrate	R1455910	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	JY1
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-05	WG506505	SAMP	Nitrate	R1455910	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	JY4
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-06	WG506505	SAMP	Nitrate	R1455910	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y4
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-07	WG506505	SAMP	Nitrate	R1455910	T8
	WG506629	SAMP	1,1-Dichloroethene	R1456032	J
	WG506629	SAMP	Vinyl chloride	R1456032	J
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y4
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-08	WG506505	SAMP	Nitrate	R1455910	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y4
	WG506674	SAMP	Ferrous Iron	R1456409	T8
L486999-09	WG506505	SAMP	Nitrate	R1455910	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y4
L486999-10	WG506504	SAMP	Nitrate	R1458071	T8
	WG506710	SAMP	C10-C22 Hydrocarbons	R1461949	Y1
	WG506710	SAMP	C22-C32 Hydrocarbons	R1461949	Y4
	WG506710	SAMP	C32-C40 Hydrocarbons	R1461949	Y4
	WG506674	SAMP	Ferrous Iron	R1456409	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
Y1	This sample most closely matches the laboratory standard for Diesel
Y4	This sample most closely matches the laboratory standard for Motor Oil
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
11/10/10 at 11:36:25

TSR Signing Reports: 341
R4 - Rush: Three Day

HOLD PAH analysis till TPH results have been reviewed by client unless otherwise noted on chain
JVH 3/29/10

Sample: L486999-01 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35
Run Nitrate/FERUSFE out of hold.
Sample: L486999-02 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-03 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-04 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-05 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-06 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-07 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-08 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-09 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

Sample: L486999-10 Account: ARCABMI Received: 11/01/10 10:00 Due Date: 11/08/10 00:00 RPT Date: 11/10/10 11:35

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ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Nitrate	< .1	mg/l			WG506505	11/03/10 10:07
Sulfate	< 5	mg/l			WG506505	11/03/10 10:07
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,1,1-Trichloroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,1,2-Trichloroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,1-Dichloroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,1-Dichloroethene	< .001	mg/l			WG506629	11/03/10 14:28
1,1-Dichloropropene	< .001	mg/l			WG506629	11/03/10 14:28
1,2,3-Trichlorobenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,2,3-Trichloropropane	< .001	mg/l			WG506629	11/03/10 14:28
1,2,3-Trimethylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,2,4-Trichlorobenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,2,4-Trimethylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG506629	11/03/10 14:28
1,2-Dibromoethane	< .001	mg/l			WG506629	11/03/10 14:28
1,2-Dichlorobenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,2-Dichloroethane	< .001	mg/l			WG506629	11/03/10 14:28
1,2-Dichloropropane	< .001	mg/l			WG506629	11/03/10 14:28
1,3,5-Trimethylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,3-Dichlorobenzene	< .001	mg/l			WG506629	11/03/10 14:28
1,3-Dichloropropane	< .001	mg/l			WG506629	11/03/10 14:28
1,4-Dichlorobenzene	< .001	mg/l			WG506629	11/03/10 14:28
2,2-Dichloropropane	< .001	mg/l			WG506629	11/03/10 14:28
2-Butanone (MEK)	< .01	mg/l			WG506629	11/03/10 14:28
2-Chloroethyl vinyl ether	< .05	mg/l			WG506629	11/03/10 14:28
2-Chlorotoluene	< .001	mg/l			WG506629	11/03/10 14:28
4-Chlorotoluene	< .001	mg/l			WG506629	11/03/10 14:28
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG506629	11/03/10 14:28
Acetone	< .05	mg/l			WG506629	11/03/10 14:28
Acrolein	< .05	mg/l			WG506629	11/03/10 14:28
Acrylonitrile	< .01	mg/l			WG506629	11/03/10 14:28
Benzene	< .001	mg/l			WG506629	11/03/10 14:28
Bromobenzene	< .001	mg/l			WG506629	11/03/10 14:28
Bromodichloromethane	< .001	mg/l			WG506629	11/03/10 14:28
Bromoform	< .001	mg/l			WG506629	11/03/10 14:28
Bromomethane	< .005	mg/l			WG506629	11/03/10 14:28
Carbon tetrachloride	< .001	mg/l			WG506629	11/03/10 14:28
Chlorobenzene	< .001	mg/l			WG506629	11/03/10 14:28
Chlorodibromomethane	< .001	mg/l			WG506629	11/03/10 14:28
Chloroethane	< .001	mg/l			WG506629	11/03/10 14:28
Chloroform	< .005	mg/l			WG506629	11/03/10 14:28
Chloromethane	< .001	mg/l			WG506629	11/03/10 14:28
cis-1,2-Dichloroethene	< .001	mg/l			WG506629	11/03/10 14:28
cis-1,3-Dichloropropene	< .001	mg/l			WG506629	11/03/10 14:28
Di-isopropyl ether	< .001	mg/l			WG506629	11/03/10 14:28
Dibromomethane	< .001	mg/l			WG506629	11/03/10 14:28
Dichlorodifluoromethane	< .005	mg/l			WG506629	11/03/10 14:28
Ethylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
Hexachloro-1,3-butadiene	< .001	mg/l			WG506629	11/03/10 14:28
Isopropylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
Methyl tert-butyl ether	< .001	mg/l			WG506629	11/03/10 14:28
Methylene Chloride	< .005	mg/l			WG506629	11/03/10 14:28
n-Butylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
n-Propylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
Naphthalene	< .005	mg/l			WG506629	11/03/10 14:28

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
p-Isopropyltoluene	< .001	mg/l			WG506629	11/03/10 14:28
sec-Butylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
Styrene	< .001	mg/l			WG506629	11/03/10 14:28
tert-Butylbenzene	< .001	mg/l			WG506629	11/03/10 14:28
Tetrachloroethene	< .001	mg/l			WG506629	11/03/10 14:28
Toluene	< .005	mg/l			WG506629	11/03/10 14:28
trans-1,2-Dichloroethene	< .001	mg/l			WG506629	11/03/10 14:28
trans-1,3-Dichloropropene	< .001	mg/l			WG506629	11/03/10 14:28
Trichloroethene	< .001	mg/l			WG506629	11/03/10 14:28
Trichlorofluoromethane	< .005	mg/l			WG506629	11/03/10 14:28
Vinyl chloride	< .001	mg/l			WG506629	11/03/10 14:28
Xylenes, Total	< .003	mg/l			WG506629	11/03/10 14:28
4-Bromofluorobenzene		% Rec.	102.3	75-128	WG506629	11/03/10 14:28
Dibromofluoromethane		% Rec.	104.8	79-125	WG506629	11/03/10 14:28
Toluene-d8		% Rec.	101.8	87-114	WG506629	11/03/10 14:28
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,1,1-Trichloroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,1,2-Trichloroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,1-Dichloroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,1-Dichloroethene	< .001	mg/l			WG506681	11/03/10 19:53
1,1-Dichloropropene	< .001	mg/l			WG506681	11/03/10 19:53
1,2,3-Trichlorobenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,2,3-Trichloropropane	< .001	mg/l			WG506681	11/03/10 19:53
1,2,3-Trimethylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,2,4-Trichlorobenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,2,4-Trimethylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG506681	11/03/10 19:53
1,2-Dibromoethane	< .001	mg/l			WG506681	11/03/10 19:53
1,2-Dichlorobenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,2-Dichloroethane	< .001	mg/l			WG506681	11/03/10 19:53
1,2-Dichloropropane	< .001	mg/l			WG506681	11/03/10 19:53
1,3,5-Trimethylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,3-Dichlorobenzene	< .001	mg/l			WG506681	11/03/10 19:53
1,3-Dichloropropane	< .001	mg/l			WG506681	11/03/10 19:53
1,4-Dichlorobenzene	< .001	mg/l			WG506681	11/03/10 19:53
2,2-Dichloropropane	< .001	mg/l			WG506681	11/03/10 19:53
2-Butanone (MEK)	< .01	mg/l			WG506681	11/03/10 19:53
2-Chloroethyl vinyl ether	< .05	mg/l			WG506681	11/03/10 19:53
2-Chlorotoluene	< .001	mg/l			WG506681	11/03/10 19:53
4-Chlorotoluene	< .001	mg/l			WG506681	11/03/10 19:53
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG506681	11/03/10 19:53
Acetone	< .05	mg/l			WG506681	11/03/10 19:53
Acrolein	< .05	mg/l			WG506681	11/03/10 19:53
Acrylonitrile	< .01	mg/l			WG506681	11/03/10 19:53
Benzene	< .001	mg/l			WG506681	11/03/10 19:53
Bromobenzene	< .001	mg/l			WG506681	11/03/10 19:53
Bromodichloromethane	< .001	mg/l			WG506681	11/03/10 19:53
Bromoform	< .001	mg/l			WG506681	11/03/10 19:53
Bromomethane	< .005	mg/l			WG506681	11/03/10 19:53
Carbon tetrachloride	< .001	mg/l			WG506681	11/03/10 19:53
Chlorobenzene	< .001	mg/l			WG506681	11/03/10 19:53
Chlorodibromomethane	< .001	mg/l			WG506681	11/03/10 19:53
Chloroethane	< .001	mg/l			WG506681	11/03/10 19:53
Chloroform	< .005	mg/l			WG506681	11/03/10 19:53
Chloromethane	< .001	mg/l			WG506681	11/03/10 19:53

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Est. 1970

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
cis-1,2-Dichloroethene	< .001	mg/l			WG506681	11/03/10 19:53
cis-1,3-Dichloropropene	< .001	mg/l			WG506681	11/03/10 19:53
Di-isopropyl ether	< .001	mg/l			WG506681	11/03/10 19:53
Dibromomethane	< .001	mg/l			WG506681	11/03/10 19:53
Dichlorodifluoromethane	< .005	mg/l			WG506681	11/03/10 19:53
Ethylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
Hexachloro-1,3-butadiene	< .001	mg/l			WG506681	11/03/10 19:53
Isopropylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
Methyl tert-butyl ether	< .001	mg/l			WG506681	11/03/10 19:53
Methylene Chloride	< .005	mg/l			WG506681	11/03/10 19:53
n-Butylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
n-Propylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
Naphthalene	< .005	mg/l			WG506681	11/03/10 19:53
p-Isopropyltoluene	< .001	mg/l			WG506681	11/03/10 19:53
sec-Butylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
Styrene	< .001	mg/l			WG506681	11/03/10 19:53
tert-Butylbenzene	< .001	mg/l			WG506681	11/03/10 19:53
Tetrachloroethene	< .001	mg/l			WG506681	11/03/10 19:53
Toluene	< .005	mg/l			WG506681	11/03/10 19:53
trans-1,2-Dichloroethene	< .001	mg/l			WG506681	11/03/10 19:53
trans-1,3-Dichloropropene	< .001	mg/l			WG506681	11/03/10 19:53
Trichloroethene	< .001	mg/l			WG506681	11/03/10 19:53
Trichlorofluoromethane	< .005	mg/l			WG506681	11/03/10 19:53
Vinyl chloride	< .001	mg/l			WG506681	11/03/10 19:53
Xylenes, Total	< .003	mg/l			WG506681	11/03/10 19:53
4-Bromofluorobenzene		% Rec.	87.27	75-128	WG506681	11/03/10 19:53
Dibromofluoromethane		% Rec.	111.8	79-125	WG506681	11/03/10 19:53
Toluene-d8		% Rec.	104.5	87-114	WG506681	11/03/10 19:53
Ferrous Iron	< .05	mg/l			WG506674	11/04/10 11:08
TPH (GC/FID) Low Fraction	< .1	mg/l			WG506678	11/04/10 01:28
a,a,a-Trifluorotoluene(FID)		% Rec.	82.26	62-128	WG506678	11/04/10 01:28
Benzene	< .001	mg/l			WG506811	11/04/10 12:35
Methyl tert-butyl ether	< .001	mg/l			WG506811	11/04/10 12:35
4-Bromofluorobenzene		% Rec.	97.57	75-128	WG506811	11/04/10 12:35
Dibromofluoromethane		% Rec.	106.1	79-125	WG506811	11/04/10 12:35
Toluene-d8		% Rec.	101.9	87-114	WG506811	11/04/10 12:35
Nitrate	< .1	mg/l			WG506504	11/04/10 18:43
Sulfate	< 5	mg/l			WG506504	11/04/10 18:43
Sulfate	< 5	mg/l			WG507049	11/05/10 20:03
Sulfate	< 5	mg/l			WG507047	11/05/10 20:43
C10-C22 Hydrocarbons	< .1	mg/l			WG506710	11/05/10 14:00
C22-C32 Hydrocarbons	< .1	mg/l			WG506710	11/05/10 14:00
C32-C40 Hydrocarbons	< .1	mg/l			WG506710	11/05/10 14:00
o-Terphenyl		% Rec.	122.5	50-150	WG506710	11/05/10 14:00

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Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Alkalinity	< 20	mg/l			WG506979	11/08/10 12:19
Phosphorus,Total	< .1	mg/l			WG507159	11/08/10 16:33

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Sulfate	mg/l	0	0	0	20	L486530-05	WG506505
Nitrate	mg/l	0.260	0.260	1.55	20	L487074-03	WG506505
Sulfate	mg/l	43.0	43.0	0.233	20	L487074-03	WG506505
Ferrous Iron	mg/l	5.60	5.70	2.31	20	L486999-05	WG506674
Sulfate	mg/l	20.0	20.0	2.02	20	L486502-04	WG506504
Sulfate	mg/l	0	0	0	20	L486424-134	WG506504
Sulfate	mg/l	1200	1200	4.08	20	L486341-01	WG507049
Sulfate	mg/l	12.0	12.0	2.47	20	L485954-15	WG507047
Sulfate	mg/l	23.0	23.0	1.31	20	L485954-26	WG507047
Alkalinity	mg/l	420.	420.	0.948	20	L486566-19	WG506979
Alkalinity	mg/l	630.	620.	0.963	20	L487069-04	WG506979
Phosphorus,Total	mg/l	6.30	6.20	0.963	20	L486999-03	WG507159
Phosphorus,Total	mg/l	4.10	3.80	7.84	20	L486074-01	WG507159

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Nitrate	mg/l	8	8.19	102.	90-110	WG506505
Sulfate	mg/l	40	39.4	98.5	90-110	WG506505
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0281	113.	75-134	WG506629
1,1,1-Trichloroethane	mg/l	.025	0.0253	101.	67-137	WG506629
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0252	101.	72-128	WG506629
1,1,2-Trichloroethane	mg/l	.025	0.0261	104.	79-123	WG506629
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.025	0.0244	97.8	51-149	WG506629
1,1-Dichloroethane	mg/l	.025	0.0248	99.2	67-133	WG506629
1,1-Dichloroethene	mg/l	.025	0.0248	99.1	60-130	WG506629
1,1-Dichloropropene	mg/l	.025	0.0246	98.3	68-132	WG506629
1,2,3-Trichlorobenzene	mg/l	.025	0.0262	105.	63-138	WG506629
1,2,3-Trichloropropane	mg/l	.025	0.0262	105.	68-130	WG506629
1,2,3-Trimethylbenzene	mg/l	.025	0.0256	102.	70-127	WG506629
1,2,4-Trichlorobenzene	mg/l	.025	0.0261	104.	65-137	WG506629
1,2,4-Trimethylbenzene	mg/l	.025	0.0259	104.	72-135	WG506629
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0232	92.8	55-134	WG506629
1,2-Dibromoethane	mg/l	.025	0.0265	106.	75-126	WG506629
1,2-Dichlorobenzene	mg/l	.025	0.0266	107.	75-122	WG506629
1,2-Dichloroethane	mg/l	.025	0.0241	96.3	63-137	WG506629

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Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,2-Dichloropropane	mg/l	.025	0.0245	98.2	74-122	WG506629
1,3,5-Trimethylbenzene	mg/l	.025	0.0259	104.	73-134	WG506629
1,3-Dichlorobenzene	mg/l	.025	0.0265	106.	73-131	WG506629
1,3-Dichloropropane	mg/l	.025	0.0247	98.9	77-119	WG506629
1,4-Dichlorobenzene	mg/l	.025	0.0259	104.	70-121	WG506629
2,2-Dichloropropane	mg/l	.025	0.0226	90.5	46-151	WG506629
2-Butanone (MEK)	mg/l	.125	0.119	95.4	53-132	WG506629
2-Chloroethyl vinyl ether	mg/l	.125	0.0982	78.5	0-171	WG506629
2-Chlorotoluene	mg/l	.025	0.0258	103.	74-128	WG506629
4-Chlorotoluene	mg/l	.025	0.0261	104.	74-130	WG506629
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.111	89.1	60-142	WG506629
Acetone	mg/l	.125	0.118	94.2	48-134	WG506629
Acrolein	mg/l	.125	0.141	113.	6-182	WG506629
Acrylonitrile	mg/l	.125	0.117	93.3	60-140	WG506629
Benzene	mg/l	.025	0.0249	99.6	67-126	WG506629
Bromobenzene	mg/l	.025	0.0252	101.	76-123	WG506629
Bromodichloromethane	mg/l	.025	0.0253	101.	68-133	WG506629
Bromoform	mg/l	.025	0.0267	107.	60-139	WG506629
Bromomethane	mg/l	.025	0.0355	142.	45-175	WG506629
Carbon tetrachloride	mg/l	.025	0.0237	94.6	64-141	WG506629
Chlorobenzene	mg/l	.025	0.0262	105.	77-125	WG506629
Chlorodibromomethane	mg/l	.025	0.0267	107.	73-138	WG506629
Chloroethane	mg/l	.025	0.0249	99.4	49-155	WG506629
Chloroform	mg/l	.025	0.0261	104.	66-126	WG506629
Chloromethane	mg/l	.025	0.0246	98.5	45-152	WG506629
cis-1,2-Dichloroethene	mg/l	.025	0.0264	105.	72-128	WG506629
cis-1,3-Dichloropropene	mg/l	.025	0.0248	99.3	73-131	WG506629
Di-isopropyl ether	mg/l	.025	0.0243	97.2	63-139	WG506629
Dibromomethane	mg/l	.025	0.0253	101.	73-125	WG506629
Dichlorodifluoromethane	mg/l	.025	0.0232	92.8	39-189	WG506629
Ethylbenzene	mg/l	.025	0.0255	102.	76-129	WG506629
Hexachloro-1,3-butadiene	mg/l	.025	0.0237	94.9	67-135	WG506629
Isopropylbenzene	mg/l	.025	0.0260	104.	73-132	WG506629
Methyl tert-butyl ether	mg/l	.025	0.0233	93.3	51-142	WG506629
Methylene Chloride	mg/l	.025	0.0248	99.3	64-125	WG506629
n-Butylbenzene	mg/l	.025	0.0253	101.	63-142	WG506629
n-Propylbenzene	mg/l	.025	0.0252	101.	71-132	WG506629
Naphthalene	mg/l	.025	0.0266	106.	56-145	WG506629
p-Isopropyltoluene	mg/l	.025	0.0263	105.	68-138	WG506629
sec-Butylbenzene	mg/l	.025	0.0257	103.	70-135	WG506629
Styrene	mg/l	.025	0.0259	103.	78-130	WG506629
tert-Butylbenzene	mg/l	.025	0.0261	105.	72-134	WG506629
Tetrachloroethene	mg/l	.025	0.0257	103.	67-135	WG506629
Toluene	mg/l	.025	0.0241	96.4	72-122	WG506629
trans-1,2-Dichloroethene	mg/l	.025	0.0251	101.	67-129	WG506629
trans-1,3-Dichloropropene	mg/l	.025	0.0239	95.5	66-137	WG506629
Trichloroethene	mg/l	.025	0.0256	102.	74-126	WG506629
Trichlorofluoromethane	mg/l	.025	0.0301	120.	54-156	WG506629
Vinyl chloride	mg/l	.025	0.0251	100.	55-153	WG506629
Xylenes, Total	mg/l	.075	0.0769	103.	75-128	WG506629
4-Bromofluorobenzene				100.6	75-128	WG506629
Dibromofluoromethane				104.7	79-125	WG506629
Toluene-d8				103.1	87-114	WG506629
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0276	110.	75-134	WG506681
1,1,1-Trichloroethane	mg/l	.025	0.0277	111.	67-137	WG506681
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0269	108.	72-128	WG506681
1,1,2-Trichloroethane	mg/l	.025	0.0275	110.	79-123	WG506681

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Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.025	0.0287	115.	51-149	WG506681
1,1-Dichloroethane	mg/l	.025	0.0264	106.	67-133	WG506681
1,1-Dichloroethene	mg/l	.025	0.0253	101.	60-130	WG506681
1,1-Dichloropropene	mg/l	.025	0.0244	97.6	68-132	WG506681
1,2,3-Trichlorobenzene	mg/l	.025	0.0291	117.	63-138	WG506681
1,2,3-Trichloropropane	mg/l	.025	0.0271	109.	68-130	WG506681
1,2,3-Trimethylbenzene	mg/l	.025	0.0270	108.	70-127	WG506681
1,2,4-Trichlorobenzene	mg/l	.025	0.0309	124.	65-137	WG506681
1,2,4-Trimethylbenzene	mg/l	.025	0.0275	110.	72-135	WG506681
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0253	101.	55-134	WG506681
1,2-Dibromoethane	mg/l	.025	0.0254	102.	75-126	WG506681
1,2-Dichlorobenzene	mg/l	.025	0.0281	112.	75-122	WG506681
1,2-Dichloroethane	mg/l	.025	0.0243	97.4	63-137	WG506681
1,2-Dichloropropane	mg/l	.025	0.0247	98.9	74-122	WG506681
1,3,5-Trimethylbenzene	mg/l	.025	0.0274	109.	73-134	WG506681
1,3-Dichlorobenzene	mg/l	.025	0.0269	108.	73-131	WG506681
1,3-Dichloropropane	mg/l	.025	0.0248	99.2	77-119	WG506681
1,4-Dichlorobenzene	mg/l	.025	0.0272	109.	70-121	WG506681
2,2-Dichloropropane	mg/l	.025	0.0288	115.	46-151	WG506681
2-Butanone (MEK)	mg/l	.125	0.145	116.	53-132	WG506681
2-Chloroethyl vinyl ether	mg/l	.125	0.0346	27.7	0-171	WG506681
2-Chlorotoluene	mg/l	.025	0.0266	106.	74-128	WG506681
4-Chlorotoluene	mg/l	.025	0.0265	106.	74-130	WG506681
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.137	110.	60-142	WG506681
Acetone	mg/l	.125	0.144	115.	48-134	WG506681
Acrolein	mg/l	.125	0.150	120.	6-182	WG506681
Acrylonitrile	mg/l	.125	0.145	116.	60-140	WG506681
Benzene	mg/l	.025	0.0253	101.	67-126	WG506681
Bromobenzene	mg/l	.025	0.0269	108.	76-123	WG506681
Bromodichloromethane	mg/l	.025	0.0264	105.	68-133	WG506681
Bromoform	mg/l	.025	0.0246	98.5	60-139	WG506681
Bromomethane	mg/l	.025	0.0285	114.	45-175	WG506681
Carbon tetrachloride	mg/l	.025	0.0278	111.	64-141	WG506681
Chlorobenzene	mg/l	.025	0.0255	102.	77-125	WG506681
Chlorodibromomethane	mg/l	.025	0.0241	96.2	73-138	WG506681
Chloroethane	mg/l	.025	0.0263	105.	49-155	WG506681
Chloroform	mg/l	.025	0.0268	107.	66-126	WG506681
Chloromethane	mg/l	.025	0.0223	89.0	45-152	WG506681
cis-1,2-Dichloroethene	mg/l	.025	0.0256	103.	72-128	WG506681
cis-1,3-Dichloropropene	mg/l	.025	0.0270	108.	73-131	WG506681
Di-isopropyl ether	mg/l	.025	0.0261	104.	63-139	WG506681
Dibromomethane	mg/l	.025	0.0244	97.7	73-125	WG506681
Dichlorodifluoromethane	mg/l	.025	0.0265	106.	39-189	WG506681
Ethylbenzene	mg/l	.025	0.0265	106.	76-129	WG506681
Hexachloro-1,3-butadiene	mg/l	.025	0.0299	119.	67-135	WG506681
Isopropylbenzene	mg/l	.025	0.0280	112.	73-132	WG506681
Methyl tert-butyl ether	mg/l	.025	0.0250	100.	51-142	WG506681
Methylene Chloride	mg/l	.025	0.0234	93.7	64-125	WG506681
n-Butylbenzene	mg/l	.025	0.0309	124.	63-142	WG506681
n-Propylbenzene	mg/l	.025	0.0278	111.	71-132	WG506681
Naphthalene	mg/l	.025	0.0287	115.	56-145	WG506681
p-Isopropyltoluene	mg/l	.025	0.0286	114.	68-138	WG506681
sec-Butylbenzene	mg/l	.025	0.0277	111.	70-135	WG506681
Styrene	mg/l	.025	0.0251	101.	78-130	WG506681
tert-Butylbenzene	mg/l	.025	0.0274	109.	72-134	WG506681
Tetrachloroethene	mg/l	.025	0.0257	103.	67-135	WG506681
Toluene	mg/l	.025	0.0243	97.1	72-122	WG506681
trans-1,2-Dichloroethene	mg/l	.025	0.0229	91.5	67-129	WG506681
trans-1,3-Dichloropropene	mg/l	.025	0.0256	103.	66-137	WG506681

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Tax I.D. 62-0814289

Est. 1970

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Trichloroethene	mg/l	.025	0.0253	101.	74-126	WG506681
Trichlorofluoromethane	mg/l	.025	0.0302	121.	54-156	WG506681
Vinyl chloride	mg/l	.025	0.0240	95.9	55-153	WG506681
Xylenes, Total	mg/l	.075	0.0787	105.	75-128	WG506681
4-Bromofluorobenzene				94.67	75-128	WG506681
Dibromofluoromethane				108.6	79-125	WG506681
Toluene-d8				101.9	87-114	WG506681
Ferrous Iron	mg/l	1	1.06	106.	85-115	WG506674
TPH (GC/FID) Low Fraction	mg/l	5.5	6.15	112.	70-124	WG506678
a,a,a-Trifluorotoluene(FID)				86.05	62-128	WG506678
Benzene	mg/l	.025	0.0263	105.	67-126	WG506811
Methyl tert-butyl ether	mg/l	.025	0.0282	113.	51-142	WG506811
4-Bromofluorobenzene				88.66	75-128	WG506811
Dibromofluoromethane				108.8	79-125	WG506811
Toluene-d8				100.2	87-114	WG506811
Nitrate	mg/l	8	8.18	102.	90-110	WG506504
Sulfate	mg/l	40	39.4	98.5	90-110	WG506504
Sulfate	mg/l	40	38.2	95.5	90-110	WG507049
Sulfate	mg/l	40	39.3	98.3	90-110	WG507047
C10-C22 Hydrocarbons	mg/l	.75	0.968	129.	50-150	WG506710
C22-C32 Hydrocarbons	mg/l	.75	0.614	81.8	50-150	WG506710
o-Terphenyl				108.1	50-150	WG506710
Alkalinity	mg/l	40	34.8	87.0	85-115	WG506979
Phosphorus,Total	mg/l	1	1.05	105.	85-115	WG507159

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Nitrate	mg/l	8.17	8.19	102.	90-110	0.244	20	WG506505
Sulfate	mg/l	39.3	39.4	98.0	90-110	0.254	20	WG506505
1,1,1,2-Tetrachloroethane	mg/l	0.0287	0.0281	115.	75-134	1.93	20	WG506629
1,1,1-Trichloroethane	mg/l	0.0273	0.0253	109.	67-137	7.44	20	WG506629
1,1,2,2-Tetrachloroethane	mg/l	0.0265	0.0252	106.	72-128	4.79	20	WG506629
1,1,2-Trichloroethane	mg/l	0.0269	0.0261	108.	79-123	3.24	20	WG506629
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0249	0.0244	100.	51-149	1.99	20	WG506629
1,1-Dichloroethane	mg/l	0.0255	0.0248	102.	67-133	2.69	20	WG506629
1,1-Dichloroethene	mg/l	0.0250	0.0248	100.	60-130	0.790	20	WG506629
1,1-Dichloropropene	mg/l	0.0259	0.0246	104.	68-132	5.27	20	WG506629
1,2,3-Trichlorobenzene	mg/l	0.0269	0.0262	107.	63-138	2.57	20	WG506629

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Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,2,3-Trichloropropane	mg/l	0.0276	0.0262	110.	68-130	5.23	20	WG506629
1,2,3-Trimethylbenzene	mg/l	0.0264	0.0256	106.	70-127	2.98	20	WG506629
1,2,4-Trichlorobenzene	mg/l	0.0264	0.0261	106.	65-137	1.40	20	WG506629
1,2,4-Trimethylbenzene	mg/l	0.0264	0.0259	106.	72-135	2.09	20	WG506629
1,2-Dibromo-3-Chloropropane	mg/l	0.0255	0.0232	102.	55-134	9.26	20	WG506629
1,2-Dibromoethane	mg/l	0.0272	0.0265	109.	75-126	2.63	20	WG506629
1,2-Dichlorobenzene	mg/l	0.0276	0.0266	110.	75-122	3.47	20	WG506629
1,2-Dichloroethane	mg/l	0.0250	0.0241	100.	63-137	3.98	20	WG506629
1,2-Dichloropropane	mg/l	0.0251	0.0245	100.	74-122	2.13	20	WG506629
1,3,5-Trimethylbenzene	mg/l	0.0266	0.0259	106.	73-134	2.51	20	WG506629
1,3-Dichlorobenzene	mg/l	0.0267	0.0265	107.	73-131	0.900	20	WG506629
1,3-Dichloropropane	mg/l	0.0252	0.0247	101.	77-119	1.78	20	WG506629
1,4-Dichlorobenzene	mg/l	0.0269	0.0259	108.	70-121	3.70	20	WG506629
2,2-Dichloropropane	mg/l	0.0272	0.0226	109.	46-151	18.5	20	WG506629
2-Butanone (MEK)	mg/l	0.129	0.119	103.	53-132	7.70	20	WG506629
2-Chloroethyl vinyl ether	mg/l	0.118	0.0982	94.0	0-171	18.3	27	WG506629
2-Chlorotoluene	mg/l	0.0261	0.0258	104.	74-128	1.25	20	WG506629
4-Chlorotoluene	mg/l	0.0267	0.0261	107.	74-130	2.23	20	WG506629
4-Methyl-2-pentanone (MIBK)	mg/l	0.118	0.111	95.0	60-142	6.13	20	WG506629
Acetone	mg/l	0.125	0.118	100.	48-134	5.94	20	WG506629
Acrolein	mg/l	0.126	0.141	101.	6-182	11.1	39	WG506629
Acrylonitrile	mg/l	0.127	0.117	101.	60-140	8.29	20	WG506629
Benzene	mg/l	0.0254	0.0249	102.	67-126	2.14	20	WG506629
Bromobenzene	mg/l	0.0258	0.0252	103.	76-123	2.46	20	WG506629
Bromodichloromethane	mg/l	0.0264	0.0253	106.	68-133	4.23	20	WG506629
Bromoform	mg/l	0.0274	0.0267	110.	60-139	2.64	20	WG506629
Bromomethane	mg/l	0.0360	0.0355	144.	45-175	1.26	20	WG506629
Carbon tetrachloride	mg/l	0.0253	0.0237	101.	64-141	6.74	20	WG506629
Chlorobenzene	mg/l	0.0266	0.0262	106.	77-125	1.72	20	WG506629
Chlorodibromomethane	mg/l	0.0276	0.0267	110.	73-138	3.12	20	WG506629
Chloroethane	mg/l	0.0255	0.0249	102.	49-155	2.66	20	WG506629
Chloroform	mg/l	0.0268	0.0261	107.	66-126	2.67	20	WG506629
Chloromethane	mg/l	0.0257	0.0246	103.	45-152	4.18	20	WG506629
cis-1,2-Dichloroethene	mg/l	0.0272	0.0264	109.	72-128	3.04	20	WG506629
cis-1,3-Dichloropropene	mg/l	0.0255	0.0248	102.	73-131	2.60	20	WG506629
Di-isopropyl ether	mg/l	0.0249	0.0243	100.	63-139	2.48	20	WG506629
Dibromomethane	mg/l	0.0260	0.0253	104.	73-125	2.85	20	WG506629
Dichlorodifluoromethane	mg/l	0.0247	0.0232	99.0	39-189	6.28	24	WG506629
Ethylbenzene	mg/l	0.0263	0.0255	105.	76-129	3.12	20	WG506629
Hexachloro-1,3-butadiene	mg/l	0.0249	0.0237	100.	67-135	4.86	20	WG506629
Isopropylbenzene	mg/l	0.0270	0.0260	108.	73-132	3.69	20	WG506629
Methyl tert-butyl ether	mg/l	0.0250	0.0233	100.	51-142	6.91	20	WG506629
Methylene Chloride	mg/l	0.0258	0.0248	103.	64-125	3.88	20	WG506629
n-Butylbenzene	mg/l	0.0266	0.0253	106.	63-142	4.98	20	WG506629
n-Propylbenzene	mg/l	0.0260	0.0252	104.	71-132	3.28	20	WG506629
Naphthalene	mg/l	0.0278	0.0266	111.	56-145	4.42	20	WG506629
p-Isopropyltoluene	mg/l	0.0269	0.0263	108.	68-138	2.38	20	WG506629
sec-Butylbenzene	mg/l	0.0267	0.0257	107.	70-135	3.54	20	WG506629
Styrene	mg/l	0.0265	0.0259	106.	78-130	2.40	20	WG506629
tert-Butylbenzene	mg/l	0.0272	0.0261	109.	72-134	4.03	20	WG506629
Tetrachloroethene	mg/l	0.0263	0.0257	105.	67-135	2.53	20	WG506629
Toluene	mg/l	0.0247	0.0241	99.0	72-122	2.54	20	WG506629
trans-1,2-Dichloroethene	mg/l	0.0265	0.0251	106.	67-129	5.18	20	WG506629
trans-1,3-Dichloropropene	mg/l	0.0252	0.0239	101.	66-137	5.52	20	WG506629
Trichloroethene	mg/l	0.0269	0.0256	108.	74-126	5.04	20	WG506629
Trichlorofluoromethane	mg/l	0.0321	0.0301	128.	54-156	6.62	20	WG506629
Vinyl chloride	mg/l	0.0254	0.0251	102.	55-153	1.07	20	WG506629
Xylenes, Total	mg/l	0.0796	0.0769	106.	75-128	3.44	20	WG506629
4-Bromofluorobenzene				99.78	75-128			WG506629

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Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Dibromofluoromethane				104.1	79-125			
Toluene-d8				102.9	87-114			
1,1,1,2-Tetrachloroethane	mg/l	0.0259	0.0276	103.	75-134	6.32	20	WG506681
1,1,1-Trichloroethane	mg/l	0.0239	0.0277	95.0	67-137	14.9	20	WG506681
1,1,2,2-Tetrachloroethane	mg/l	0.0260	0.0269	104.	72-128	3.52	20	WG506681
1,1,2-Trichloroethane	mg/l	0.0261	0.0275	104.	79-123	5.09	20	WG506681
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0250	0.0287	100.	51-149	13.6	20	WG506681
1,1-Dichloroethane	mg/l	0.0236	0.0264	94.0	67-133	11.3	20	WG506681
1,1-Dichloroethene	mg/l	0.0224	0.0253	89.0	60-130	12.4	20	WG506681
1,1-Dichloropropene	mg/l	0.0207	0.0244	83.0	68-132	16.5	20	WG506681
1,2,3-Trichlorobenzene	mg/l	0.0265	0.0291	106.	63-138	9.42	20	WG506681
1,2,3-Trichloropropane	mg/l	0.0266	0.0271	106.	68-130	2.11	20	WG506681
1,2,3-Trimethylbenzene	mg/l	0.0242	0.0270	97.0	70-127	10.9	20	WG506681
1,2,4-Trichlorobenzene	mg/l	0.0278	0.0309	111.	65-137	10.8	20	WG506681
1,2,4-Trimethylbenzene	mg/l	0.0246	0.0275	98.0	72-135	11.3	20	WG506681
1,2-Dibromo-3-Chloropropane	mg/l	0.0254	0.0253	102.	55-134	0.550	20	WG506681
1,2-Dibromoethane	mg/l	0.0247	0.0254	99.0	75-126	3.03	20	WG506681
1,2-Dichlorobenzene	mg/l	0.0263	0.0281	105.	75-122	6.83	20	WG506681
1,2-Dichloroethane	mg/l	0.0233	0.0243	93.0	63-137	4.41	20	WG506681
1,2-Dichloropropane	mg/l	0.0233	0.0247	93.0	74-122	5.85	20	WG506681
1,3,5-Trimethylbenzene	mg/l	0.0248	0.0274	99.0	73-134	9.73	20	WG506681
1,3-Dichlorobenzene	mg/l	0.0243	0.0269	97.0	73-131	10.4	20	WG506681
1,3-Dichloropropane	mg/l	0.0237	0.0248	95.0	77-119	4.46	20	WG506681
1,4-Dichlorobenzene	mg/l	0.0247	0.0272	99.0	70-121	9.67	20	WG506681
2,2-Dichloropropane	mg/l	0.0242	0.0288	97.0	46-151	17.3	20	WG506681
2-Butanone (MEK)	mg/l	0.147	0.145	117.	53-132	1.41	20	WG506681
2-Chloroethyl vinyl ether	mg/l	0.0332	0.0346	26.0	0-171	4.14	27	WG506681
2-Chlorotoluene	mg/l	0.0241	0.0266	96.0	74-128	9.76	20	WG506681
4-Chlorotoluene	mg/l	0.0240	0.0265	96.0	74-130	9.77	20	WG506681
4-Methyl-2-pentanone (MIBK)	mg/l	0.140	0.137	112.	60-142	2.36	20	WG506681
Acetone	mg/l	0.147	0.144	118.	48-134	2.41	20	WG506681
Acrolein	mg/l	0.159	0.150	127.	6-182	6.25	39	WG506681
Acrylonitrile	mg/l	0.147	0.145	118.	60-140	1.66	20	WG506681
Benzene	mg/l	0.0225	0.0253	90.0	67-126	11.6	20	WG506681
Bromobenzene	mg/l	0.0247	0.0269	99.0	76-123	8.46	20	WG506681
Bromodichloromethane	mg/l	0.0249	0.0264	100.	68-133	5.61	20	WG506681
Bromoform	mg/l	0.0245	0.0246	98.0	60-139	0.710	20	WG506681
Bromomethane	mg/l	0.0251	0.0285	100.	45-175	12.8	20	WG506681
Carbon tetrachloride	mg/l	0.0241	0.0278	96.0	64-141	14.3	20	WG506681
Chlorobenzene	mg/l	0.0236	0.0255	94.0	77-125	7.51	20	WG506681
Chlorodibromomethane	mg/l	0.0228	0.0241	91.0	73-138	5.24	20	WG506681
Chloroethane	mg/l	0.0225	0.0263	90.0	49-155	15.4	20	WG506681
Chloroform	mg/l	0.0242	0.0268	97.0	66-126	10.4	20	WG506681
Chloromethane	mg/l	0.0202	0.0223	81.0	45-152	9.56	20	WG506681
cis-1,2-Dichloroethene	mg/l	0.0234	0.0256	94.0	72-128	9.04	20	WG506681
cis-1,3-Dichloropropene	mg/l	0.0249	0.0270	100.	73-131	7.81	20	WG506681
Di-isopropyl ether	mg/l	0.0250	0.0261	100.	63-139	4.33	20	WG506681
Dibromomethane	mg/l	0.0243	0.0244	97.0	73-125	0.440	20	WG506681
Dichlorodifluoromethane	mg/l	0.0225	0.0265	90.0	39-189	16.3	24	WG506681
Ethylbenzene	mg/l	0.0236	0.0265	94.0	76-129	11.4	20	WG506681
Hexachloro-1,3-butadiene	mg/l	0.0258	0.0299	103.	67-135	14.7	20	WG506681
Isopropylbenzene	mg/l	0.0248	0.0280	99.0	73-132	12.3	20	WG506681
Methyl tert-butyl ether	mg/l	0.0246	0.0250	98.0	51-142	1.72	20	WG506681
Methylene Chloride	mg/l	0.0221	0.0234	88.0	64-125	5.92	20	WG506681
n-Butylbenzene	mg/l	0.0265	0.0309	106.	63-142	15.5	20	WG506681
n-Propylbenzene	mg/l	0.0246	0.0278	98.0	71-132	12.3	20	WG506681
Naphthalene	mg/l	0.0273	0.0287	109.	56-145	5.02	20	WG506681
p-Isopropyltoluene	mg/l	0.0254	0.0286	101.	68-138	11.9	20	WG506681
sec-Butylbenzene	mg/l	0.0245	0.0277	98.0	70-135	12.4	20	WG506681

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Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
Styrene	mg/l	0.0233	0.0251	93.0	78-130	7.71	20	WG506681
tert-Butylbenzene	mg/l	0.0247	0.0274	99.0	72-134	10.3	20	WG506681
Tetrachloroethene	mg/l	0.0219	0.0257	88.0	67-135	15.9	20	WG506681
Toluene	mg/l	0.0222	0.0243	89.0	72-122	8.94	20	WG506681
trans-1,2-Dichloroethene	mg/l	0.0206	0.0229	82.0	67-129	10.5	20	WG506681
trans-1,3-Dichloropropene	mg/l	0.0245	0.0256	98.0	66-137	4.72	20	WG506681
Trichloroethene	mg/l	0.0215	0.0253	86.0	74-126	16.2	20	WG506681
Trichlorofluoromethane	mg/l	0.0259	0.0302	104.	54-156	15.4	20	WG506681
Vinyl chloride	mg/l	0.0210	0.0240	84.0	55-153	13.1	20	WG506681
Xylenes, Total	mg/l	0.0709	0.0787	94.0	75-128	10.4	20	WG506681
4-Bromofluorobenzene				95.97	75-128			WG506681
Dibromofluoromethane				109.1	79-125			WG506681
Toluene-d8				102.2	87-114			WG506681
Ferrous Iron	mg/l	1.02	1.06	102.	85-115	3.85	20	WG506674
TPH (GC/FID) Low Fraction	mg/l	6.27	6.15	114.	70-124	2.02	20	WG506678
a,a,a-Trifluorotoluene(FID)				87.02	62-128			WG506678
Benzene	mg/l	0.0260	0.0263	104.	67-126	1.44	20	WG506811
Methyl tert-butyl ether	mg/l	0.0252	0.0282	101.	51-142	11.4	20	WG506811
4-Bromofluorobenzene				97.13	75-128			WG506811
Dibromofluoromethane				102.6	79-125			WG506811
Toluene-d8				102.2	87-114			WG506811
Nitrate	mg/l	8.15	8.18	102.	90-110	0.367	20	WG506504
Sulfate	mg/l	39.4	39.4	98.0	90-110	0	20	WG506504
Sulfate	mg/l	38.0	38.2	95.0	90-110	0.525	20	WG507049
Sulfate	mg/l	39.3	39.3	98.0	90-110	0	20	WG507047
C10-C22 Hydrocarbons	mg/l	0.974	0.968	130.	50-150	0.610	20	WG506710
C22-C32 Hydrocarbons	mg/l	0.563	0.614	75.0	50-150	8.59	20	WG506710
o-Terphenyl				99.76	50-150			WG506710
Alkalinity	mg/l	36.3	34.8	91.0	85-115	4.22	20	WG506979
Phosphorus,Total	mg/l	1.02	1.05	102.	85-115	2.90	20	WG507159

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Sulfate	mg/l	48.8	0	50	97.6	80-120	L486522-07	WG506505
1,1,1,2-Tetrachloroethane	mg/l	0.0298	0	.025	119.	45-152	L486999-01	WG506629
1,1,1-Trichloroethane	mg/l	0.0318	0	.025	127.	31-161	L486999-01	WG506629
1,1,2,2-Tetrachloroethane	mg/l	0.0269	0	.025	108.	49-149	L486999-01	WG506629
1,1,2-Trichloroethane	mg/l	0.0270	0	.025	108.	46-145	L486999-01	WG506629

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Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0322	0	.025	129.	14-168	L486999-01	WG506629
1,1-Dichloroethane	mg/l	0.0276	0	.025	110.	30-159	L486999-01	WG506629
1,1-Dichloroethene	mg/l	0.0293	0	.025	117.	10-162	L486999-01	WG506629
1,1-Dichloropropene	mg/l	0.0308	0	.025	123.	14-162	L486999-01	WG506629
1,2,3-Trichlorobenzene	mg/l	0.0276	0	.025	110.	32-143	L486999-01	WG506629
1,2,3-Trichloropropane	mg/l	0.0264	0	.025	105.	48-148	L486999-01	WG506629
1,2,3-Trimethylbenzene	mg/l	0.0280	0	.025	112.	36-141	L486999-01	WG506629
1,2,4-Trichlorobenzene	mg/l	0.0280	0	.025	112.	27-142	L486999-01	WG506629
1,2,4-Trimethylbenzene	mg/l	0.0289	0	.025	115.	29-153	L486999-01	WG506629
1,2-Dibromo-3-Chloropropane	mg/l	0.0254	0	.025	102.	37-148	L486999-01	WG506629
1,2-Dibromoethane	mg/l	0.0272	0	.025	109.	41-149	L486999-01	WG506629
1,2-Dichlorobenzene	mg/l	0.0281	0	.025	112.	40-139	L486999-01	WG506629
1,2-Dichloroethane	mg/l	0.0253	0	.025	101.	29-167	L486999-01	WG506629
1,2-Dichloropropane	mg/l	0.0262	0	.025	105.	39-148	L486999-01	WG506629
1,3,5-Trimethylbenzene	mg/l	0.0301	0	.025	120.	33-149	L486999-01	WG506629
1,3-Dichlorobenzene	mg/l	0.0289	0	.025	115.	32-148	L486999-01	WG506629
1,3-Dichloropropane	mg/l	0.0253	0	.025	101.	44-142	L486999-01	WG506629
1,4-Dichlorobenzene	mg/l	0.0285	0	.025	114.	32-136	L486999-01	WG506629
2,2-Dichloropropane	mg/l	0.0301	0	.025	120.	14-158	L486999-01	WG506629
2-Butanone (MEK)	mg/l	0.133	0	.125	106.	32-151	L486999-01	WG506629
2-Chloroethyl vinyl ether	mg/l	0.109	0	.125	86.8	0-175	L486999-01	WG506629
2-Chlorotoluene	mg/l	0.0286	0	.025	114.	35-147	L486999-01	WG506629
4-Chlorotoluene	mg/l	0.0284	0	.025	114.	33-147	L486999-01	WG506629
4-Methyl-2-pentanone (MIBK)	mg/l	0.119	0	.125	95.2	40-160	L486999-01	WG506629
Acetone	mg/l	0.122	0.0180	.125	83.1	25-157	L486999-01	WG506629
Acrolein	mg/l	0.121	0	.125	96.8	0-179	L486999-01	WG506629
Acrylonitrile	mg/l	0.126	0	.125	101.	37-162	L486999-01	WG506629
Benzene	mg/l	0.0279	0	.025	111.	16-158	L486999-01	WG506629
Bromobenzene	mg/l	0.0267	0	.025	107.	37-147	L486999-01	WG506629
Bromodichloromethane	mg/l	0.0271	0	.025	108.	45-147	L486999-01	WG506629
Bromoform	mg/l	0.0270	0	.025	108.	38-152	L486999-01	WG506629
Bromomethane	mg/l	0.0368	0	.025	147.	0-191	L486999-01	WG506629
Carbon tetrachloride	mg/l	0.0303	0	.025	121.	22-168	L486999-01	WG506629
Chlorobenzene	mg/l	0.0283	0	.025	113.	33-148	L486999-01	WG506629
Chlorodibromomethane	mg/l	0.0275	0	.025	110.	48-151	L486999-01	WG506629
Chloroethane	mg/l	0.0280	0	.025	112.	4-176	L486999-01	WG506629
Chloroform	mg/l	0.0284	0	.025	114.	37-147	L486999-01	WG506629
Chloromethane	mg/l	0.0270	0	.025	108.	10-174	L486999-01	WG506629
cis-1,2-Dichloroethene	mg/l	0.0292	0	.025	117.	29-156	L486999-01	WG506629
cis-1,3-Dichloropropene	mg/l	0.0262	0	.025	105.	35-148	L486999-01	WG506629
Di-isopropyl ether	mg/l	0.0261	0	.025	104.	39-160	L486999-01	WG506629
Dibromomethane	mg/l	0.0262	0	.025	105.	36-152	L486999-01	WG506629
Dichlorodifluoromethane	mg/l	0.0317	0	.025	127.	0-200	L486999-01	WG506629
Ethylbenzene	mg/l	0.0295	0	.025	118.	29-150	L486999-01	WG506629
Hexachloro-1,3-butadiene	mg/l	0.0294	0	.025	118.	28-144	L486999-01	WG506629
Isopropylbenzene	mg/l	0.0310	0	.025	124.	35-147	L486999-01	WG506629
Methyl tert-butyl ether	mg/l	0.0268	0.00240	.025	97.7	24-167	L486999-01	WG506629
Methylene Chloride	mg/l	0.0260	0	.025	104.	23-151	L486999-01	WG506629
n-Butylbenzene	mg/l	0.0314	0	.025	125.	22-151	L486999-01	WG506629
n-Propylbenzene	mg/l	0.0297	0	.025	119.	26-150	L486999-01	WG506629
Naphthalene	mg/l	0.0277	0	.025	111.	24-160	L486999-01	WG506629
p-Isopropyltoluene	mg/l	0.0312	0	.025	125.	28-151	L486999-01	WG506629
sec-Butylbenzene	mg/l	0.0312	0	.025	125.	32-149	L486999-01	WG506629
Styrene	mg/l	0.0278	0	.025	111.	38-149	L486999-01	WG506629
tert-Butylbenzene	mg/l	0.0316	0	.025	126.	36-149	L486999-01	WG506629
Tetrachloroethene	mg/l	0.0307	0	.025	123.	13-157	L486999-01	WG506629
Toluene	mg/l	0.0272	0	.025	109.	22-152	L486999-01	WG506629
trans-1,2-Dichloroethene	mg/l	0.0299	0	.025	120.	11-160	L486999-01	WG506629
trans-1,3-Dichloropropene	mg/l	0.0254	0	.025	102.	33-153	L486999-01	WG506629

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Trichloroethene	mg/l	0.0300	0	.025	120.	18-163	L486999-01	WG506629
Trichlorofluoromethane	mg/l	0.0397	0	.025	159.	10-177	L486999-01	WG506629
Vinyl chloride	mg/l	0.0279	0	.025	112.	0-179	L486999-01	WG506629
Xylenes, Total	mg/l	0.0867	0	.075	116.	27-151	L486999-01	WG506629
4-Bromofluorobenzene					100.4	75-128		WG506629
Dibromofluoromethane					105.4	79-125		WG506629
Toluene-d8					104.6	87-114		WG506629
1,1,1,2-Tetrachloroethane	mg/l	0.0258	0	.025	103.	45-152	L486900-03	WG506681
1,1,1-Trichloroethane	mg/l	0.0230	0	.025	91.9	31-161	L486900-03	WG506681
1,1,2,2-Tetrachloroethane	mg/l	0.0289	0	.025	116.	49-149	L486900-03	WG506681
1,1,2-Trichloroethane	mg/l	0.0273	0	.025	109.	46-145	L486900-03	WG506681
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0220	0	.025	88.2	14-168	L486900-03	WG506681
1,1-Dichloroethane	mg/l	0.0223	0	.025	89.1	30-159	L486900-03	WG506681
1,1-Dichloroethene	mg/l	0.0206	0	.025	82.3	10-162	L486900-03	WG506681
1,1-Dichloropropene	mg/l	0.0229	0	.025	91.5	14-162	L486900-03	WG506681
1,2,3-Trichlorobenzene	mg/l	0.0262	0	.025	105.	32-143	L486900-03	WG506681
1,2,3-Trichloropropane	mg/l	0.0294	0	.025	118.	48-148	L486900-03	WG506681
1,2,3-Trimethylbenzene	mg/l	0.0246	0	.025	98.5	36-141	L486900-03	WG506681
1,2,4-Trichlorobenzene	mg/l	0.0260	0	.025	104.	27-142	L486900-03	WG506681
1,2,4-Trimethylbenzene	mg/l	0.0259	0	.025	103.	29-153	L486900-03	WG506681
1,2-Dibromo-3-Chloropropane	mg/l	0.0268	0	.025	107.	37-148	L486900-03	WG506681
1,2-Dibromoethane	mg/l	0.0261	0	.025	104.	41-149	L486900-03	WG506681
1,2-Dichlorobenzene	mg/l	0.0252	0	.025	101.	40-139	L486900-03	WG506681
1,2-Dichloroethane	mg/l	0.0235	0	.025	93.9	29-167	L486900-03	WG506681
1,2-Dichloropropane	mg/l	0.0227	0	.025	90.7	39-148	L486900-03	WG506681
1,3,5-Trimethylbenzene	mg/l	0.0250	0	.025	99.8	33-149	L486900-03	WG506681
1,3-Dichlorobenzene	mg/l	0.0244	0	.025	97.8	32-148	L486900-03	WG506681
1,3-Dichloropropane	mg/l	0.0244	0	.025	97.7	44-142	L486900-03	WG506681
1,4-Dichlorobenzene	mg/l	0.0238	0	.025	95.1	32-136	L486900-03	WG506681
2,2-Dichloropropane	mg/l	0.0261	0	.025	104.	14-158	L486900-03	WG506681
2-Butanone (MEK)	mg/l	0.159	0	.125	127.	32-151	L486900-03	WG506681
2-Chloroethyl vinyl ether	mg/l	0.253	0	.125	203.*	0-175	L486900-03	WG506681
2-Chlorotoluene	mg/l	0.0247	0	.025	98.8	35-147	L486900-03	WG506681
4-Chlorotoluene	mg/l	0.0238	0	.025	95.3	33-147	L486900-03	WG506681
4-Methyl-2-pentanone (MIBK)	mg/l	0.153	0	.125	122.	40-160	L486900-03	WG506681
Acetone	mg/l	0.148	0	.125	118.	25-157	L486900-03	WG506681
Acrolein	mg/l	0.184	0	.125	147.	0-179	L486900-03	WG506681
Acrylonitrile	mg/l	0.147	0	.125	118.	37-162	L486900-03	WG506681
Benzene	mg/l	0.0220	0	.025	87.9	16-158	L486900-03	WG506681
Bromobenzene	mg/l	0.0245	0	.025	98.0	37-147	L486900-03	WG506681
Bromodichloromethane	mg/l	0.0254	0	.025	101.	45-147	L486900-03	WG506681
Bromoform	mg/l	0.0258	0	.025	103.	38-152	L486900-03	WG506681
Bromomethane	mg/l	0.0255	0	.025	102.	0-191	L486900-03	WG506681
Carbon tetrachloride	mg/l	0.0235	0	.025	94.0	22-168	L486900-03	WG506681
Chlorobenzene	mg/l	0.0238	0	.025	95.3	33-148	L486900-03	WG506681
Chlorodibromomethane	mg/l	0.0234	0	.025	93.7	48-151	L486900-03	WG506681
Chloroethane	mg/l	0.0247	0	.025	98.8	4-176	L486900-03	WG506681
Chloroform	mg/l	0.0224	0	.025	89.8	37-147	L486900-03	WG506681
Chloromethane	mg/l	0.0214	0	.025	85.6	10-174	L486900-03	WG506681
cis-1,2-Dichloroethene	mg/l	0.0223	0	.025	89.1	29-156	L486900-03	WG506681
cis-1,3-Dichloropropene	mg/l	0.0254	0	.025	102.	35-148	L486900-03	WG506681
Di-isopropyl ether	mg/l	0.0226	0	.025	90.5	39-160	L486900-03	WG506681
Dibromomethane	mg/l	0.0258	0	.025	103.	36-152	L486900-03	WG506681
Dichlorodifluoromethane	mg/l	0.0222	0	.025	88.8	0-200	L486900-03	WG506681
Ethylbenzene	mg/l	0.0241	0	.025	96.3	29-150	L486900-03	WG506681
Hexachloro-1,3-butadiene	mg/l	0.0269	0	.025	108.	28-144	L486900-03	WG506681
Isopropylbenzene	mg/l	0.0234	0	.025	93.6	35-147	L486900-03	WG506681

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Methyl tert-butyl ether	mg/l	0.0274	0	.025	109.	24-167	L486900-03	WG506681
Methylene Chloride	mg/l	0.0217	0	.025	86.9	23-151	L486900-03	WG506681
n-Butylbenzene	mg/l	0.0261	0	.025	104.	22-151	L486900-03	WG506681
n-Propylbenzene	mg/l	0.0251	0	.025	100.	26-150	L486900-03	WG506681
Naphthalene	mg/l	0.0286	0	.025	114.	24-160	L486900-03	WG506681
p-Isopropyltoluene	mg/l	0.0256	0	.025	102.	28-151	L486900-03	WG506681
sec-Butylbenzene	mg/l	0.0257	0	.025	103.	32-149	L486900-03	WG506681
Styrene	mg/l	0.0293	0	.025	117.	38-149	L486900-03	WG506681
tert-Butylbenzene	mg/l	0.0250	0	.025	99.8	36-149	L486900-03	WG506681
Tetrachloroethene	mg/l	0.0228	0	.025	91.3	13-157	L486900-03	WG506681
Toluene	mg/l	0.0216	0	.025	86.6	22-152	L486900-03	WG506681
trans-1,2-Dichloroethene	mg/l	0.0207	0	.025	82.8	11-160	L486900-03	WG506681
trans-1,3-Dichloropropene	mg/l	0.0250	0	.025	100.	33-153	L486900-03	WG506681
Trichloroethene	mg/l	0.0216	0	.025	86.2	18-163	L486900-03	WG506681
Trichlorofluoromethane	mg/l	0.0272	0	.025	109.	10-177	L486900-03	WG506681
Vinyl chloride	mg/l	0.0231	0	.025	92.3	0-179	L486900-03	WG506681
Xylenes, Total	mg/l	0.0719	0	.075	95.8	27-151	L486900-03	WG506681
4-Bromofluorobenzene					95.76	75-128		WG506681
Dibromofluoromethane					106.6	79-125		WG506681
Toluene-d8					103.2	87-114		WG506681
Ferrous Iron	mg/l	2.61	1.10	1.5	101.	80-120	L486999-07	WG506674
TPH (GC/FID) Low Fraction	mg/l	6.16	0	5.5	112.*	55-109	L486999-01	WG506678
a,a,a-Trifluorotoluene(FID)					86.70	62-128		WG506678
Benzene	mg/l	0.0267	0	.025	107.	16-158	L487123-08	WG506811
Methyl tert-butyl ether	mg/l	0.0275	0	.025	110.	24-167	L487123-08	WG506811
4-Bromofluorobenzene					86.77	75-128		WG506811
Dibromofluoromethane					107.7	79-125		WG506811
Toluene-d8					101.2	87-114		WG506811
Sulfate	mg/l	86.2	35.0	50	102.	80-120	L486502-01	WG506504
Sulfate	mg/l	55.2	4.80	50	101.	80-120	L485954-17	WG507047
Alkalinity	mg/l	881.	610.	200	67.8*	80-120	L486784-02	WG506979
Phosphorus,Total	mg/l	5.64	3.40	2.5	89.6	80-120	L486084-02	WG507159

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Sulfate	mg/l	48.9	48.8	97.8	80-120	0.205	20	L486522-07	WG506505
1,1,1,2-Tetrachloroethane	mg/l	0.0289	0.0298	115.	45-152	3.38	21	L486999-01	WG506629
1,1,1-Trichloroethane	mg/l	0.0299	0.0318	119.	31-161	6.19	23	L486999-01	WG506629
1,1,2,2-Tetrachloroethane	mg/l	0.0276	0.0269	110.	49-149	2.55	22	L486999-01	WG506629
1,1,2-Trichloroethane	mg/l	0.0265	0.0270	106.	46-145	1.74	20	L486999-01	WG506629
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0284	0.0322	113.	14-168	12.6	24	L486999-01	WG506629
1,1-Dichloroethane	mg/l	0.0262	0.0276	105.	30-159	5.00	21	L486999-01	WG506629

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Tax I.D. 62-0814289

Est. 1970

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1-Dichloroethene	mg/l	0.0270	0.0293	108.	10-162	8.21	23	L486999-01	WG506629
1,1-Dichloropropene	mg/l	0.0281	0.0308	112.	14-162	9.13	23	L486999-01	WG506629
1,2,3-Trichlorobenzene	mg/l	0.0275	0.0276	110.	32-143	0.420	33	L486999-01	WG506629
1,2,3-Trichloropropane	mg/l	0.0281	0.0264	112.	48-148	6.17	23	L486999-01	WG506629
1,2,3-Trimethylbenzene	mg/l	0.0267	0.0280	107.	36-141	4.85	25	L486999-01	WG506629
1,2,4-Trichlorobenzene	mg/l	0.0275	0.0280	110.	27-142	1.99	30	L486999-01	WG506629
1,2,4-Trimethylbenzene	mg/l	0.0282	0.0289	113.	29-153	2.20	27	L486999-01	WG506629
1,2-Dibromo-3-Chloropropane	mg/l	0.0270	0.0254	108.	37-148	5.98	27	L486999-01	WG506629
1,2-Dibromoethane	mg/l	0.0269	0.0272	107.	41-149	1.12	21	L486999-01	WG506629
1,2-Dichlorobenzene	mg/l	0.0271	0.0281	108.	40-139	3.76	23	L486999-01	WG506629
1,2-Dichloroethane	mg/l	0.0248	0.0253	99.0	29-167	1.98	21	L486999-01	WG506629
1,2-Dichloropropane	mg/l	0.0253	0.0262	101.	39-148	3.40	20	L486999-01	WG506629
1,3,5-Trimethylbenzene	mg/l	0.0283	0.0301	113.	33-149	6.15	26	L486999-01	WG506629
1,3-Dichlorobenzene	mg/l	0.0274	0.0289	110.	32-148	5.23	24	L486999-01	WG506629
1,3-Dichloropropane	mg/l	0.0255	0.0253	102.	44-142	0.720	20	L486999-01	WG506629
1,4-Dichlorobenzene	mg/l	0.0272	0.0285	109.	32-136	4.64	23	L486999-01	WG506629
2,2-Dichloropropane	mg/l	0.0287	0.0301	115.	14-158	4.78	23	L486999-01	WG506629
2-Butanone (MEK)	mg/l	0.133	0.133	106.	32-151	0.100	26	L486999-01	WG506629
2-Chloroethyl vinyl ether	mg/l	0.123	0.109	98.2	0-175	12.3	75	L486999-01	WG506629
2-Chlorotoluene	mg/l	0.0276	0.0286	110.	35-147	3.80	24	L486999-01	WG506629
4-Chlorotoluene	mg/l	0.0274	0.0284	110.	33-147	3.66	25	L486999-01	WG506629
4-Methyl-2-pentanone (MIBK)	mg/l	0.123	0.119	98.6	40-160	3.43	28	L486999-01	WG506629
Acetone	mg/l	0.115	0.122	77.4	25-157	6.07	26	L486999-01	WG506629
Acrolein	mg/l	0.115	0.121	92.1	0-179	4.95	39	L486999-01	WG506629
Acrylonitrile	mg/l	0.129	0.126	103.	37-162	2.59	24	L486999-01	WG506629
Benzene	mg/l	0.0260	0.0279	104.	16-158	6.91	21	L486999-01	WG506629
Bromobenzene	mg/l	0.0260	0.0267	104.	37-147	2.88	23	L486999-01	WG506629
Bromodichloromethane	mg/l	0.0264	0.0271	105.	45-147	2.68	20	L486999-01	WG506629
Bromoform	mg/l	0.0274	0.0270	110.	38-152	1.48	20	L486999-01	WG506629
Bromomethane	mg/l	0.0340	0.0368	136.	0-191	8.04	35	L486999-01	WG506629
Carbon tetrachloride	mg/l	0.0276	0.0303	110.	22-168	9.39	24	L486999-01	WG506629
Chlorobenzene	mg/l	0.0272	0.0283	109.	33-148	3.82	22	L486999-01	WG506629
Chlorodibromomethane	mg/l	0.0275	0.0275	110.	48-151	0.0500	21	L486999-01	WG506629
Chloroethane	mg/l	0.0258	0.0280	103.	4-176	8.04	27	L486999-01	WG506629
Chloroform	mg/l	0.0270	0.0284	108.	37-147	5.37	21	L486999-01	WG506629
Chloromethane	mg/l	0.0256	0.0270	102.	10-174	5.43	28	L486999-01	WG506629
cis-1,2-Dichloroethene	mg/l	0.0274	0.0292	109.	29-156	6.64	22	L486999-01	WG506629
cis-1,3-Dichloropropene	mg/l	0.0254	0.0262	102.	35-148	2.90	21	L486999-01	WG506629
Di-isopropyl ether	mg/l	0.0253	0.0261	101.	39-160	3.14	21	L486999-01	WG506629
Dibromomethane	mg/l	0.0258	0.0262	103.	36-152	1.24	20	L486999-01	WG506629
Dichlorodifluoromethane	mg/l	0.0281	0.0317	112.	0-200	12.0	26	L486999-01	WG506629
Ethylbenzene	mg/l	0.0275	0.0295	110.	29-150	6.93	24	L486999-01	WG506629
Hexachloro-1,3-butadiene	mg/l	0.0280	0.0294	112.	28-144	4.94	33	L486999-01	WG506629
Isopropylbenzene	mg/l	0.0288	0.0310	115.	35-147	7.27	25	L486999-01	WG506629
Methyl tert-butyl ether	mg/l	0.0272	0.0268	99.4	24-167	1.54	22	L486999-01	WG506629
Methylene Chloride	mg/l	0.0252	0.0260	101.	23-151	3.00	21	L486999-01	WG506629
n-Butylbenzene	mg/l	0.0295	0.0314	118.	22-151	6.24	29	L486999-01	WG506629
n-Propylbenzene	mg/l	0.0282	0.0297	113.	26-150	4.98	25	L486999-01	WG506629
Naphthalene	mg/l	0.0281	0.0277	112.	24-160	1.73	37	L486999-01	WG506629
p-Isopropyltoluene	mg/l	0.0295	0.0312	118.	28-151	5.67	27	L486999-01	WG506629
sec-Butylbenzene	mg/l	0.0298	0.0312	119.	32-149	4.78	26	L486999-01	WG506629
Styrene	mg/l	0.0268	0.0278	107.	38-149	3.66	23	L486999-01	WG506629
tert-Butylbenzene	mg/l	0.0293	0.0316	117.	36-149	7.55	26	L486999-01	WG506629
Tetrachloroethene	mg/l	0.0283	0.0307	113.	13-157	8.15	24	L486999-01	WG506629
Toluene	mg/l	0.0253	0.0272	101.	22-152	7.16	22	L486999-01	WG506629
trans-1,2-Dichloroethene	mg/l	0.0277	0.0299	111.	11-160	7.60	23	L486999-01	WG506629
trans-1,3-Dichloropropene	mg/l	0.0252	0.0254	101.	33-153	1.01	22	L486999-01	WG506629
Trichloroethene	mg/l	0.0277	0.0300	111.	18-163	8.30	21	L486999-01	WG506629
Trichlorofluoromethane	mg/l	0.0354	0.0397	142.	10-177	11.4	24	L486999-01	WG506629

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November 10, 2010

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Vinyl chloride	mg/l	0.0258	0.0279	103.	0-179	8.04	26	L486999-01	WG506629
Xylenes, Total	mg/l	0.0824	0.0867	110.	27-151	5.12	23	L486999-01	WG506629
4-Bromofluorobenzene				100.3	75-128				WG506629
Dibromofluoromethane				105.2	79-125				WG506629
Toluene-d8				103.8	87-114				WG506629
1,1,1,2-Tetrachloroethane	mg/l	0.0261	0.0258	104.	45-152	1.42	21	L486900-03	WG506681
1,1,1-Trichloroethane	mg/l	0.0244	0.0230	97.5	31-161	5.90	23	L486900-03	WG506681
1,1,2,2-Tetrachloroethane	mg/l	0.0281	0.0289	112.	49-149	2.71	22	L486900-03	WG506681
1,1,2-Trichloroethane	mg/l	0.0275	0.0273	110.	46-145	0.590	20	L486900-03	WG506681
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0221	0.0220	88.6	14-168	0.460	24	L486900-03	WG506681
1,1-Dichloroethane	mg/l	0.0230	0.0223	92.1	30-159	3.30	21	L486900-03	WG506681
1,1-Dichloroethene	mg/l	0.0206	0.0206	82.3	10-162	0.0100	23	L486900-03	WG506681
1,1-Dichloropropene	mg/l	0.0234	0.0229	93.8	14-162	2.50	23	L486900-03	WG506681
1,2,3-Trichlorobenzene	mg/l	0.0268	0.0262	107.	32-143	2.25	33	L486900-03	WG506681
1,2,3-Trichloropropane	mg/l	0.0286	0.0294	114.	48-148	2.70	23	L486900-03	WG506681
1,2,3-Trimethylbenzene	mg/l	0.0255	0.0246	102.	36-141	3.48	25	L486900-03	WG506681
1,2,4-Trichlorobenzene	mg/l	0.0268	0.0260	107.	27-142	2.95	30	L486900-03	WG506681
1,2,4-Trimethylbenzene	mg/l	0.0258	0.0259	103.	29-153	0.310	27	L486900-03	WG506681
1,2-Dibromo-3-Chloropropane	mg/l	0.0261	0.0268	104.	37-148	2.45	27	L486900-03	WG506681
1,2-Dibromoethane	mg/l	0.0259	0.0261	104.	41-149	0.890	21	L486900-03	WG506681
1,2-Dichlorobenzene	mg/l	0.0257	0.0252	103.	40-139	2.07	23	L486900-03	WG506681
1,2-Dichloroethane	mg/l	0.0233	0.0235	93.2	29-167	0.680	21	L486900-03	WG506681
1,2-Dichloropropane	mg/l	0.0240	0.0227	96.0	39-148	5.66	20	L486900-03	WG506681
1,3,5-Trimethylbenzene	mg/l	0.0251	0.0250	100.	33-149	0.500	26	L486900-03	WG506681
1,3-Dichlorobenzene	mg/l	0.0248	0.0244	99.0	32-148	1.24	24	L486900-03	WG506681
1,3-Dichloropropane	mg/l	0.0242	0.0244	96.7	44-142	1.00	20	L486900-03	WG506681
1,4-Dichlorobenzene	mg/l	0.0245	0.0238	98.0	32-136	2.99	23	L486900-03	WG506681
2,2-Dichloropropane	mg/l	0.0266	0.0261	106.	14-158	2.02	23	L486900-03	WG506681
2-Butanone (MEK)	mg/l	0.149	0.159	119.	32-151	6.57	26	L486900-03	WG506681
2-Chloroethyl vinyl ether	mg/l	0.262	0.253	210.*	0-175	3.33	75	L486900-03	WG506681
2-Chlorotoluene	mg/l	0.0247	0.0247	98.6	35-147	0.120	24	L486900-03	WG506681
4-Chlorotoluene	mg/l	0.0241	0.0238	96.5	33-147	1.20	25	L486900-03	WG506681
4-Methyl-2-pentanone (MIBK)	mg/l	0.151	0.153	120.	40-160	1.65	28	L486900-03	WG506681
Acetone	mg/l	0.136	0.148	108.	25-157	8.42	26	L486900-03	WG506681
Acrolein	mg/l	0.166	0.184	132.	0-179	10.5	39	L486900-03	WG506681
Acrylonitrile	mg/l	0.143	0.147	114.	37-162	2.77	24	L486900-03	WG506681
Benzene	mg/l	0.0227	0.0220	90.9	16-158	3.34	21	L486900-03	WG506681
Bromobenzene	mg/l	0.0248	0.0245	99.0	37-147	1.02	23	L486900-03	WG506681
Bromodichloromethane	mg/l	0.0267	0.0254	107.	45-147	5.20	20	L486900-03	WG506681
Bromoform	mg/l	0.0243	0.0258	97.2	38-152	6.03	20	L486900-03	WG506681
Bromomethane	mg/l	0.0249	0.0255	99.6	0-191	2.26	35	L486900-03	WG506681
Carbon tetrachloride	mg/l	0.0245	0.0235	98.2	22-168	4.31	24	L486900-03	WG506681
Chlorobenzene	mg/l	0.0245	0.0238	98.1	33-148	2.87	22	L486900-03	WG506681
Chlorodibromomethane	mg/l	0.0234	0.0234	93.6	48-151	0.120	21	L486900-03	WG506681
Chloroethane	mg/l	0.0242	0.0247	96.8	4-176	2.04	27	L486900-03	WG506681
Chloroform	mg/l	0.0231	0.0224	92.4	37-147	2.91	21	L486900-03	WG506681
Chloromethane	mg/l	0.0215	0.0214	85.9	10-174	0.390	28	L486900-03	WG506681
cis-1,2-Dichloroethene	mg/l	0.0230	0.0223	91.9	29-156	3.10	22	L486900-03	WG506681
cis-1,3-Dichloropropene	mg/l	0.0257	0.0254	103.	35-148	1.28	21	L486900-03	WG506681
Di-isopropyl ether	mg/l	0.0227	0.0226	90.6	39-160	0.160	21	L486900-03	WG506681
Dibromomethane	mg/l	0.0261	0.0258	104.	36-152	0.880	20	L486900-03	WG506681
Dichlorodifluoromethane	mg/l	0.0219	0.0222	87.6	0-200	1.30	26	L486900-03	WG506681
Ethylbenzene	mg/l	0.0247	0.0241	99.0	29-150	2.70	24	L486900-03	WG506681
Hexachloro-1,3-butadiene	mg/l	0.0274	0.0269	109.	28-144	1.61	33	L486900-03	WG506681
Isopropylbenzene	mg/l	0.0236	0.0234	94.3	35-147	0.740	25	L486900-03	WG506681
Methyl tert-butyl ether	mg/l	0.0272	0.0274	109.	24-167	0.770	22	L486900-03	WG506681
Methylene Chloride	mg/l	0.0216	0.0217	86.3	23-151	0.640	21	L486900-03	WG506681

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Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
n-Butylbenzene	mg/l	0.0270	0.0261	108.	22-151	3.29	29	L486900-03	WG506681
n-Propylbenzene	mg/l	0.0253	0.0251	101.	26-150	0.770	25	L486900-03	WG506681
Naphthalene	mg/l	0.0286	0.0286	114.	24-160	0.220	37	L486900-03	WG506681
p-Isopropyltoluene	mg/l	0.0260	0.0256	104.	28-151	1.28	27	L486900-03	WG506681
sec-Butylbenzene	mg/l	0.0257	0.0257	103.	32-149	0.0600	26	L486900-03	WG506681
Styrene	mg/l	0.0293	0.0293	117.	38-149	0.0600	23	L486900-03	WG506681
tert-Butylbenzene	mg/l	0.0253	0.0250	101.	36-149	1.38	26	L486900-03	WG506681
Tetrachloroethene	mg/l	0.0238	0.0228	95.2	13-157	4.15	24	L486900-03	WG506681
Toluene	mg/l	0.0228	0.0216	91.0	22-152	5.02	22	L486900-03	WG506681
trans-1,2-Dichloroethene	mg/l	0.0209	0.0207	83.4	11-160	0.690	23	L486900-03	WG506681
trans-1,3-Dichloropropene	mg/l	0.0258	0.0250	103.	33-153	3.37	22	L486900-03	WG506681
Trichloroethene	mg/l	0.0232	0.0216	93.0	18-163	7.52	21	L486900-03	WG506681
Trichlorofluoromethane	mg/l	0.0276	0.0272	110.	10-177	1.59	24	L486900-03	WG506681
Vinyl chloride	mg/l	0.0231	0.0231	92.5	0-179	0.200	26	L486900-03	WG506681
Xylenes, Total	mg/l	0.0728	0.0719	97.1	27-151	1.32	23	L486900-03	WG506681
4-Bromofluorobenzene				96.63	75-128				WG506681
Dibromofluoromethane				105.9	79-125				WG506681
Toluene-d8				103.4	87-114				WG506681
Ferrous Iron	mg/l	2.64	2.61	103.	80-120	1.14	20	L486999-07	WG506674
TPH (GC/FID) Low Fraction	mg/l	6.17	6.16	112.*	55-109	0.230	20	L486999-01	WG506678
a,a,a-Trifluorotoluene(FID)				86.97	62-128				WG506678
Benzene	mg/l	0.0268	0.0267	107.	16-158	0.340	21	L487123-08	WG506811
Methyl tert-butyl ether	mg/l	0.0279	0.0275	111.	24-167	1.15	22	L487123-08	WG506811
4-Bromofluorobenzene				96.56	75-128				WG506811
Dibromofluoromethane				111.2	79-125				WG506811
Toluene-d8				102.2	87-114				WG506811
Sulfate	mg/l	84.1	86.2	98.2	80-120	2.47	20	L486502-01	WG506504
Sulfate	mg/l	53.3	55.2	97.0	80-120	3.50	20	L485954-17	WG507047
Alkalinity	mg/l	884.	881.	68.5*	80-120	0.340	20	L486784-02	WG506979
Phosphorus,Total	mg/l	5.71	5.64	92.4	80-120	1.23	20	L486084-02	WG507159

Batch number /Run number / Sample number cross reference

WG506505: R1455910: L486999-03 04 05 06 07 08 09
WG506629: R1456032: L486999-01 02 03 04 05 06 07 08 09
WG506681: R1456251: L486999-10
WG506674: R1456409: L486999-01 02 03 04 05 06 07 08 10
WG506678: R1457149: L486999-01 02 03 04 05 06 07 08 09 10
WG506811: R1457809: L486999-02 03 04 05
WG506504: R1458071: L486999-01 02 10
WG507049: R1459889: L486999-04 05
WG507047: R1459989: L486999-03
WG506710: R1461949: L486999-01 02 03 04 05 06 07 08 09 10
WG506979: R1462769: L486999-01 02 03 04 05 06 07 08 09 10

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

WG507159: R1463209: L486999-01 02 03 04 05 06 07 08 09 10

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L486999

November 10, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

ARCADIS U.S. GMC

10559 Citation Dr. Ste 100
Brighton,MI 48116

Billing information:

Brad Saunders
10559 Citation Dr, Ste 100

Brighton,MI 48116

Chain of Custody
Page 1 of 10

ESC LAB SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Natalie Gillman

Email: jhawkins@envsci.com

Project Description: Oakland Truck Center

City/State Collected

Phone: (810) 225-1904
FAX: (810) 229-8837

Client Project #: B0064436.0694.00001

Lab Project # ARCABMI-OAKLANDCA

Collected by (print): Alex Mariner

Site/Facility ID#: 8099 S. COLISEUM WA1

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ARCABMI (lab use only)
Template/Prelogin: T67859/ P336048
Cooler #: 10-21-10 Em
Shipped Via: FedEx 2nd Dav

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	ALK 500mlHDPE-NoPres	DROCAER 1L-Amb-Add HCl	DROCAER PAH 4ozClr-NoPres	FERUSFE 250mlAmb-HCl	GRO 40mlAmb HCl	NITRATE SULFATE 125mlHDPE-NoPres	PT 250mlHDPE-H2SO4	SV8270PAHSIM 1L-Amb NoPres	Remarks/Contaminant	Sample # (lab only)
MW-7	Comp	GW	~15'	10/29/10	1805	11	X	X		X	X	X	X	X	1486999	-01
MW-8		GW	~15'		1858	11	X	X		X	X	X	X	X		-02
MW-9		GW	~15'		1310	11	X	X		X	X	X	X	X		-03
MW-10		GW	~15'		1422	11	X	X		X	X	X	X	X		-04
MW-11		GW	~15'		1519	11	X	X		X	X	X	X	X		-05
MW-1		GW	~15'		0957	10 ZN	X	X		X	X	X	X	X		-06
MW-2		GW	~15'		1213	10 ZN	X	X		X	X	X	X	X		-07
MW-4		GW	~15'		1102	10 ZN	X	X		X	X	X	X	X		-08
MW-9	↓	GW	~15'	↓	1618	10 ZN	X	X		X	X	X	X	X		-09
MW-6	Comp	GW	~15'	10/29/10	1705	11	X	X		X	X	X	X	X		-10

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

DROCAER PAH 4oz Clr-No Pres on HOLD

Flow _____ Other _____

4341981367 29
4341981367 15
4341981367 04
4341981367 48
4341981367 37

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Alex Mariner	10/30/10	1010.	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jeremy Ward

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐

Temp: 11.7°C Bottles Received: 107478

Date: 11/1/10 Time: 0000

Condition: (lab use only)

COC Seal Intact: ___ Y ___ N ___ NA

pH Checked: <2 NCF: ✓

ARCADIS U.S. GMC

10559 Citation Dr. Ste 100
Brighton,MI 48116

Billing information:

Brad Saunders
10559 Citation Dr, Ste 100

Brighton,MI 48116

Chain of Custody
Page 9 of 10

ESC LAB SCIENCES
12065 Lebanon Road
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Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Natalie Gillman

Email: jhawkins@envsci.com

Project Description: Oakland Truck Center

City/State Collected

Phone: (810) 225-1904
FAX: (810) 229-8837

Client Project #: B0064436.0694.00001

Lab Project # ARCABMI-OAKLANDCA

Collected by (print): Alex Martinez

Site/Facility ID#: 8099 S. COLISEUM WA1

P.O.#:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? __No X Yes
FAX? __No __Yes

Acctnum: ARCABMI (lab use only)
Template/Prelogin: T67859/ P336048
Cooler #: 10-21-10Gm
Shipped Via: FedEx 2nd Dav

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TS 2ozClr-NoPres	V8260 40ml/NaHSO4/Sr/MeOH	V8260 40mlAmb-HCl	VOCs Screen 2ozClr-NoPres	Remarks/Contaminant	Sample # (lab only)
MW-7	Comp	GW	~15'	10/28/10	1805	11			X		WG899	-01
MW-8		GW	~15'		1858	11			X			-02
MW-9		GW	~15'		1310	11			X			-03
MW-10		GW	~15'		1422	11			X			-04
MW-11	↓	GW	~15'	↓	1519	11			X			-05
		GW				7			X			
		GW				7			X			
		GW				7			X			
		GW				7			X			

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: MW-7 and MW-8 are labeled incorrectly on the bottles.
* Groundwater in MW-7 is from MW-8. Call if any issues arise.
* Groundwater in MW-8 is from MW-7. Alex Martinez - (650) 823-9368

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Alex Martinez	10/30/10	1010	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jenny Lee

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____
Temp: 11.7°C Bottles Received: 10714TB
Date: 11/1/10 Time: 1000

Condition: (lab use only)
COC Seal Intact: ___ Y ___ N ___ NA
pH Checked: <2 NCF: ✓

ARCADIS U.S. GMC

10559 Citation Dr. Ste 100
Brighton,MI 48116

Billing information:

Brad Saunders
10559 Citation Dr, Ste 100

Brighton,MI 48116

Chain of Custody
Page 8 of 10

ESC LABORATORIES
12065 Lebanon Road
Mt. Juliet, TN 37122

Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

Report to: Natalie Gillman

Email: jhawkins@envsci.com

Project Description: Oakland Truck Center

City/State Collected: Oakland, CA

Phone: (810) 225-1904
FAX: (810) 229-8837

Client Project #: B0064436.0694.00001

Lab Project #: ARCABMI-OAKLANDCA

Collected by (print): Alex Martinez

Site/Facility ID#: 8099 S. COLISEUM WA1

P.O.#: B0064436.0694.00001

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed

Email? ___No X Yes
FAX? ___No ___Yes

Acctnum: ARCABMI (lab use only)
Template/Prelogin: T67859/ P336048
Cooler #: 10-21-10 Gm
Shipped Via: FedEX 2nd Day

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TS 2ozClr-NoPres	V8260 40ml/NaHSO4/Sr/MeOH	V8260 40mlAmb-HCl	VOCs Screen 2ozClr-NoPres	Remarks/Contaminant	Sample # (lab only)
~~SB-9A~~		~~GW~~				7			X			L486999
~~SB-21A~~		~~GW~~				7			X			
~~SB-22A~~		~~GW~~				7			X			
MW-1		GW	~15'	10/29/10	0957	11			X			-06
MW-2		GW	~15'		1213	11			X			-07
~~MW-3~~		~~GW~~				11			X			
MW-4		GW	~15'		1102	11			X			-08
MW-5		GW	~15'		1618	11			X			-09
MW-6		GW	~15'	↓	1705	11			X			-10

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐	Condition: (lab use only)
Alex Martinez	10/30/10	1010		Temp: 11.7°C Bottles Received: 10714TB	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)		COC Seal Intact: ___ Y ___ N ___ NA
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/1/10 Time: 1000	pH Checked: NCF:

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Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

Report Summary

Monday November 29, 2010

Report Number: L490320
Samples Received: 11/23/10
Client Project: B0064436.0694.00001

Description: Oakland Truck Center

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: John Hawkins

John Hawkins , 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,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 29, 2010

ESC Sample # : L490320-01

Date Received : November 23, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-3

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 11/23/10 08:16

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Nitrate	U	41.	100	ug/l		9056	11/24/10	1
Sulfate	14000	460	5000	ug/l		9056	11/24/10	1
Alkalinity	1200000	30000	200000	ug/l		2320B	11/24/10	10
Ferrous Iron	910	12.	50.	ug/l	T8	3500Fe-	11/27/10	1
Phosphorus,Total	6200	77.	300	ug/l		365.1	11/29/10	3
TPH (GC/FID) Low Fraction	U	40.	100	ug/l		8015D/G	11/23/10	1
Surrogate Recovery-%								
a,a,a-Trifluorotoluene(FID)	100.			% Rec.		8015D/G	11/23/10	1
Diesel Range Organics California								
C10-C22 Hydrocarbons	2000	9.7	100	ug/l	Y4	8015	11/24/10	1
C22-C32 Hydrocarbons	770	33.	100	ug/l	Y4	8015	11/24/10	1
C32-C40 Hydrocarbons	210	33.	100	ug/l	Y4	8015	11/24/10	1
Surrogate Recovery								
o-Terphenyl	76.2			% Rec.		8015	11/24/10	1
Volatile Organics								
Acetone	U	16.	50.	ug/l		8260B	11/23/10	1
Acrolein	U	7.6	50.	ug/l		8260B	11/23/10	1
Acrylonitrile	U	1.9	10.	ug/l		8260B	11/23/10	1
Benzene	U	0.23	1.0	ug/l		8260B	11/23/10	1
Bromobenzene	U	0.23	1.0	ug/l		8260B	11/23/10	1
Bromodichloromethane	U	0.23	1.0	ug/l		8260B	11/23/10	1
Bromoform	U	0.37	1.0	ug/l		8260B	11/23/10	1
Bromomethane	U	1.6	5.0	ug/l		8260B	11/23/10	1
n-Butylbenzene	U	0.31	1.0	ug/l		8260B	11/23/10	1
sec-Butylbenzene	U	0.22	1.0	ug/l		8260B	11/23/10	1
tert-Butylbenzene	U	0.20	1.0	ug/l		8260B	11/23/10	1
Carbon tetrachloride	U	0.20	1.0	ug/l		8260B	11/23/10	1
Chlorobenzene	U	0.30	1.0	ug/l		8260B	11/23/10	1
Chlorodibromomethane	U	0.24	1.0	ug/l		8260B	11/23/10	1
Chloroethane	U	0.87	5.0	ug/l		8260B	11/23/10	1
2-Chloroethyl vinyl ether	U	5.7	50.	ug/l		8260B	11/23/10	1
Chloroform	U	0.27	5.0	ug/l		8260B	11/23/10	1
Chloromethane	U	0.76	2.5	ug/l		8260B	11/23/10	1
2-Chlorotoluene	U	0.28	1.0	ug/l		8260B	11/23/10	1
4-Chlorotoluene	U	0.20	1.0	ug/l		8260B	11/23/10	1
1,2-Dibromo-3-Chloropropane	U	1.3	5.0	ug/l	J3	8260B	11/23/10	1
1,2-Dibromoethane	U	0.27	1.0	ug/l		8260B	11/23/10	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 11/29/10 13:09 Printed: 11/29/10 13:09

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Est. 1970

REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 29, 2010

ESC Sample # : L490320-01

Date Received : November 23, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-3

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 11/23/10 08:16

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Dibromomethane	U	0.35	1.0	ug/l		8260B	11/23/10	1
1,2-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/23/10	1
1,3-Dichlorobenzene	U	0.29	1.0	ug/l		8260B	11/23/10	1
1,4-Dichlorobenzene	U	0.31	1.0	ug/l		8260B	11/23/10	1
Dichlorodifluoromethane	U	1.6	5.0	ug/l		8260B	11/23/10	1
1,1-Dichloroethane	U	0.32	1.0	ug/l		8260B	11/23/10	1
1,2-Dichloroethane	U	0.25	1.0	ug/l		8260B	11/23/10	1
1,1-Dichloroethene	U	0.41	1.0	ug/l		8260B	11/23/10	1
cis-1,2-Dichloroethene	U	0.34	1.0	ug/l		8260B	11/23/10	1
trans-1,2-Dichloroethene	U	0.26	1.0	ug/l		8260B	11/23/10	1
1,2-Dichloropropane	U	0.39	1.0	ug/l		8260B	11/23/10	1
1,1-Dichloropropene	U	0.26	1.0	ug/l		8260B	11/23/10	1
1,3-Dichloropropane	U	0.28	1.0	ug/l		8260B	11/23/10	1
cis-1,3-Dichloropropene	U	0.25	1.0	ug/l		8260B	11/23/10	1
trans-1,3-Dichloropropene	U	0.24	1.0	ug/l		8260B	11/23/10	1
2,2-Dichloropropane	U	0.36	1.0	ug/l		8260B	11/23/10	1
Di-isopropyl ether	U	0.26	1.0	ug/l		8260B	11/23/10	1
Ethylbenzene	U	0.22	1.0	ug/l		8260B	11/23/10	1
Hexachloro-1,3-butadiene	U	0.38	1.0	ug/l		8260B	11/23/10	1
Isopropylbenzene	U	0.20	1.0	ug/l		8260B	11/23/10	1
p-Isopropyltoluene	U	0.31	1.0	ug/l		8260B	11/23/10	1
2-Butanone (MEK)	U	3.4	10.	ug/l		8260B	11/23/10	1
Methylene Chloride	U	0.91	5.0	ug/l		8260B	11/23/10	1
4-Methyl-2-pentanone (MIBK)	U	1.7	10.	ug/l		8260B	11/23/10	1
Methyl tert-butyl ether	U	0.63	1.0	ug/l		8260B	11/23/10	1
Naphthalene	U	0.98	5.0	ug/l		8260B	11/23/10	1
n-Propylbenzene	U	0.31	1.0	ug/l		8260B	11/23/10	1
Styrene	U	0.24	1.0	ug/l		8260B	11/23/10	1
1,1,1,2-Tetrachloroethane	U	0.32	1.0	ug/l		8260B	11/23/10	1
1,1,2,2-Tetrachloroethane	U	0.25	1.0	ug/l		8260B	11/23/10	1
1,1,2-Trichloro-1,2,2-trifluoro	U	0.39	1.0	ug/l		8260B	11/23/10	1
Tetrachloroethene	U	0.32	1.0	ug/l		8260B	11/23/10	1
Toluene	U	0.32	5.0	ug/l		8260B	11/23/10	1
1,2,3-Trichlorobenzene	U	0.32	1.0	ug/l		8260B	11/23/10	1
1,2,4-Trichlorobenzene	U	0.35	1.0	ug/l		8260B	11/23/10	1
1,1,1-Trichloroethane	U	0.31	1.0	ug/l		8260B	11/23/10	1
1,1,2-Trichloroethane	U	0.29	1.0	ug/l		8260B	11/23/10	1
Trichloroethene	U	0.31	1.0	ug/l		8260B	11/23/10	1
Trichlorofluoromethane	U	1.1	5.0	ug/l		8260B	11/23/10	1
1,2,3-Trichloropropane	U	0.74	1.0	ug/l		8260B	11/23/10	1
1,2,4-Trimethylbenzene	U	0.18	1.0	ug/l		8260B	11/23/10	1
1,2,3-Trimethylbenzene	U	0.30	1.0	ug/l		8260B	11/23/10	1
1,3,5-Trimethylbenzene	U	0.33	1.0	ug/l		8260B	11/23/10	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
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.
Reported: 11/29/10 13:09 Printed: 11/29/10 13:09

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REPORT OF ANALYSIS

Holly Burger
ARCADIS U.S. GMC
10559 Citation Dr, Ste 100
Brighton, MI 48116

November 29, 2010

ESC Sample # : L490320-01

Date Received : November 23, 2010
Description : Oakland Truck Center

Site ID : 8099 S. COLISEUM WAY

Sample ID : MW-3

Project # : B0064436.0694.00001

Collected By : Alex Martinez
Collection Date : 11/23/10 08:16

Parameter	Result	MDL	RDL	Units	Qualifier	Method	Date	Dil.
Vinyl chloride	U	0.34	1.0	ug/l		8260B	11/23/10	1
Xylenes, Total	U	0.86	3.0	ug/l		8260B	11/23/10	1
Surrogate Recovery								
Toluene-d8	102.			% Rec.		8260B	11/23/10	1
Dibromofluoromethane	113.			% Rec.		8260B	11/23/10	1
4-Bromofluorobenzene	111.			% Rec.		8260B	11/23/10	1

U = ND (Not Detected)
RDL = Reported Detection Limit = LOQ = PQL = EQL
MDL = Minimum Detection Limit = LOD = SQL(TRRP)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 11/29/10 13:09 Printed: 11/29/10 13:09

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L490320-01	WG509979	SAMP	1,2-Dibromo-3-Chloropropane	R1485949	J3
	WG510167	SAMP	C10-C22 Hydrocarbons	R1487650	Y4
	WG510167	SAMP	C22-C32 Hydrocarbons	R1487650	Y4
	WG510167	SAMP	C32-C40 Hydrocarbons	R1487650	Y4
	WG510500	SAMP	Ferrous Iron	R1488934	T8

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.
Y4	This sample most closely matches the laboratory standard for Motor Oil

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
11/29/10 at 13:09:35

TSR Signing Reports: 341
R4 - Rush: Three Day

HOLD PAH analysis till TPH results have been reviewed by client unless otherwise noted on chain
JVH 3/29/10

Sample: L490320-01 Account: ARCABMI Received: 11/23/10 09:00 Due Date: 11/29/10 00:00 RPT Date: 11/29/10 13:09

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Tax I.D. 62-0814289

Est. 1970

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,1,1-Trichloroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,1,2-Trichloroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,1-Dichloroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,1-Dichloroethene	< .001	mg/l			WG509979	11/23/10 14:27
1,1-Dichloropropene	< .001	mg/l			WG509979	11/23/10 14:27
1,2,3-Trichlorobenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,2,3-Trichloropropane	< .001	mg/l			WG509979	11/23/10 14:27
1,2,3-Trimethylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,2,4-Trichlorobenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,2,4-Trimethylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG509979	11/23/10 14:27
1,2-Dibromoethane	< .001	mg/l			WG509979	11/23/10 14:27
1,2-Dichlorobenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,2-Dichloroethane	< .001	mg/l			WG509979	11/23/10 14:27
1,2-Dichloropropane	< .001	mg/l			WG509979	11/23/10 14:27
1,3,5-Trimethylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,3-Dichlorobenzene	< .001	mg/l			WG509979	11/23/10 14:27
1,3-Dichloropropane	< .001	mg/l			WG509979	11/23/10 14:27
1,4-Dichlorobenzene	< .001	mg/l			WG509979	11/23/10 14:27
2,2-Dichloropropane	< .001	mg/l			WG509979	11/23/10 14:27
2-Butanone (MEK)	< .01	mg/l			WG509979	11/23/10 14:27
2-Chloroethyl vinyl ether	< .05	mg/l			WG509979	11/23/10 14:27
2-Chlorotoluene	< .001	mg/l			WG509979	11/23/10 14:27
4-Chlorotoluene	< .001	mg/l			WG509979	11/23/10 14:27
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG509979	11/23/10 14:27
Acetone	< .05	mg/l			WG509979	11/23/10 14:27
Acrolein	< .05	mg/l			WG509979	11/23/10 14:27
Acrylonitrile	< .01	mg/l			WG509979	11/23/10 14:27
Benzene	< .001	mg/l			WG509979	11/23/10 14:27
Bromobenzene	< .001	mg/l			WG509979	11/23/10 14:27
Bromodichloromethane	< .001	mg/l			WG509979	11/23/10 14:27
Bromoform	< .001	mg/l			WG509979	11/23/10 14:27
Bromomethane	< .005	mg/l			WG509979	11/23/10 14:27
Carbon tetrachloride	< .001	mg/l			WG509979	11/23/10 14:27
Chlorobenzene	< .001	mg/l			WG509979	11/23/10 14:27
Chlorodibromomethane	< .001	mg/l			WG509979	11/23/10 14:27
Chloroethane	< .001	mg/l			WG509979	11/23/10 14:27
Chloroform	< .005	mg/l			WG509979	11/23/10 14:27
Chloromethane	< .001	mg/l			WG509979	11/23/10 14:27
cis-1,2-Dichloroethene	< .001	mg/l			WG509979	11/23/10 14:27
cis-1,3-Dichloropropene	< .001	mg/l			WG509979	11/23/10 14:27
Di-isopropyl ether	< .001	mg/l			WG509979	11/23/10 14:27
Dibromomethane	< .001	mg/l			WG509979	11/23/10 14:27
Dichlorodifluoromethane	< .005	mg/l			WG509979	11/23/10 14:27
Ethylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
Hexachloro-1,3-butadiene	< .001	mg/l			WG509979	11/23/10 14:27
Isopropylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
Methyl tert-butyl ether	< .001	mg/l			WG509979	11/23/10 14:27
Methylene Chloride	< .005	mg/l			WG509979	11/23/10 14:27
n-Butylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
n-Propylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
Naphthalene	< .005	mg/l			WG509979	11/23/10 14:27
p-Isopropyltoluene	< .001	mg/l			WG509979	11/23/10 14:27
sec-Butylbenzene	< .001	mg/l			WG509979	11/23/10 14:27
Styrene	< .001	mg/l			WG509979	11/23/10 14:27
tert-Butylbenzene	< .001	mg/l			WG509979	11/23/10 14:27

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

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Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .001	mg/l			WG509979	11/23/10 14:27
Toluene	< .005	mg/l			WG509979	11/23/10 14:27
trans-1,2-Dichloroethene	< .001	mg/l			WG509979	11/23/10 14:27
trans-1,3-Dichloropropene	< .001	mg/l			WG509979	11/23/10 14:27
Trichloroethene	< .001	mg/l			WG509979	11/23/10 14:27
Trichlorofluoromethane	< .005	mg/l			WG509979	11/23/10 14:27
Vinyl chloride	< .001	mg/l			WG509979	11/23/10 14:27
Xylenes, Total	< .003	mg/l			WG509979	11/23/10 14:27
4-Bromofluorobenzene		% Rec.	105.8	75-128	WG509979	11/23/10 14:27
Dibromofluoromethane		% Rec.	107.0	79-125	WG509979	11/23/10 14:27
Toluene-d8		% Rec.	100.4	87-114	WG509979	11/23/10 14:27
TPH (GC/FID) Low Fraction	< .1	mg/l			WG509992	11/23/10 13:31
a,a,a-Trifluorotoluene(FID)		% Rec.	101.2	62-128	WG509992	11/23/10 13:31
Nitrate	< .1	mg/l			WG509996	11/24/10 01:52
Sulfate	< 5	mg/l			WG509996	11/24/10 01:52
Alkalinity	< 20	mg/l			WG509988	11/24/10 12:41
C10-C22 Hydrocarbons	< .1	mg/l			WG510167	11/24/10 16:36
C22-C32 Hydrocarbons	< .1	mg/l			WG510167	11/24/10 16:36
C32-C40 Hydrocarbons	< .1	mg/l			WG510167	11/24/10 16:36
o-Terphenyl		% Rec.	83.96	50-150	WG510167	11/24/10 16:36
Ferrous Iron	< .05	mg/l			WG510500	11/27/10 09:52
Phosphorus,Total	< .1	mg/l			WG510156	11/29/10 09:12

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Sulfate	mg/l	15.0	15.0	1.34	20	L488281-01	WG509996
Sulfate	mg/l	0	0	0	20	L487878-07	WG509996
Alkalinity	mg/l	740.	740.	0.271	20	L490244-01	WG509988
Alkalinity	mg/l	1200	1200	0.837	20	L490320-01	WG509988
Ferrous Iron	mg/l	0.570	0.560	1.95	20	L490313-05	WG510500
Phosphorus,Total	mg/l	0.660	0.660	0.456	20	L490439-01	WG510156
Phosphorus,Total	mg/l	2.50	2.50	0	20	L490300-02	WG510156

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0265	106.	75-134	WG509979
1,1,1-Trichloroethane	mg/l	.025	0.0269	107.	67-137	WG509979
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0247	98.7	72-128	WG509979
1,1,2-Trichloroethane	mg/l	.025	0.0232	92.7	79-123	WG509979

* Performance of this Analyte is outside of established criteria.
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10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	.025	0.0298	119.	51-149	WG509979
1,1-Dichloroethane	mg/l	.025	0.0286	114.	67-133	WG509979
1,1-Dichloroethene	mg/l	.025	0.0280	112.	60-130	WG509979
1,1-Dichloropropene	mg/l	.025	0.0274	109.	68-132	WG509979
1,2,3-Trichlorobenzene	mg/l	.025	0.0232	92.7	63-138	WG509979
1,2,3-Trichloropropane	mg/l	.025	0.0261	104.	68-130	WG509979
1,2,3-Trimethylbenzene	mg/l	.025	0.0230	92.0	70-127	WG509979
1,2,4-Trichlorobenzene	mg/l	.025	0.0234	93.8	65-137	WG509979
1,2,4-Trimethylbenzene	mg/l	.025	0.0240	96.1	72-135	WG509979
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0260	104.	55-134	WG509979
1,2-Dibromoethane	mg/l	.025	0.0224	89.5	75-126	WG509979
1,2-Dichlorobenzene	mg/l	.025	0.0234	93.4	75-122	WG509979
1,2-Dichloroethane	mg/l	.025	0.0269	108.	63-137	WG509979
1,2-Dichloropropane	mg/l	.025	0.0259	104.	74-122	WG509979
1,3,5-Trimethylbenzene	mg/l	.025	0.0244	97.5	73-134	WG509979
1,3-Dichlorobenzene	mg/l	.025	0.0243	97.3	73-131	WG509979
1,3-Dichloropropane	mg/l	.025	0.0221	88.6	77-119	WG509979
1,4-Dichlorobenzene	mg/l	.025	0.0225	89.9	70-121	WG509979
2,2-Dichloropropane	mg/l	.025	0.0283	113.	46-151	WG509979
2-Butanone (MEK)	mg/l	.125	0.143	115.	53-132	WG509979
2-Chloroethyl vinyl ether	mg/l	.125	0.107	85.4	0-171	WG509979
2-Chlorotoluene	mg/l	.025	0.0235	94.0	74-128	WG509979
4-Chlorotoluene	mg/l	.025	0.0232	92.9	74-130	WG509979
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.130	104.	60-142	WG509979
Acetone	mg/l	.125	0.155	124.	48-134	WG509979
Acrolein	mg/l	.125	0.165	132.	6-182	WG509979
Acrylonitrile	mg/l	.125	0.154	123.	60-140	WG509979
Benzene	mg/l	.025	0.0263	105.	67-126	WG509979
Bromobenzene	mg/l	.025	0.0231	92.3	76-123	WG509979
Bromodichloromethane	mg/l	.025	0.0269	107.	68-133	WG509979
Bromoform	mg/l	.025	0.0245	97.9	60-139	WG509979
Bromomethane	mg/l	.025	0.0362	145.	45-175	WG509979
Carbon tetrachloride	mg/l	.025	0.0269	108.	64-141	WG509979
Chlorobenzene	mg/l	.025	0.0228	91.1	77-125	WG509979
Chlorodibromomethane	mg/l	.025	0.0243	97.0	73-138	WG509979
Chloroethane	mg/l	.025	0.0320	128.	49-155	WG509979
Chloroform	mg/l	.025	0.0290	116.	66-126	WG509979
Chloromethane	mg/l	.025	0.0303	121.	45-152	WG509979
cis-1,2-Dichloroethene	mg/l	.025	0.0273	109.	72-128	WG509979
cis-1,3-Dichloropropene	mg/l	.025	0.0250	99.8	73-131	WG509979
Di-isopropyl ether	mg/l	.025	0.0282	113.	63-139	WG509979
Dibromomethane	mg/l	.025	0.0266	107.	73-125	WG509979
Dichlorodifluoromethane	mg/l	.025	0.0296	119.	39-189	WG509979
Ethylbenzene	mg/l	.025	0.0232	92.7	76-129	WG509979
Hexachloro-1,3-butadiene	mg/l	.025	0.0231	92.4	67-135	WG509979
Isopropylbenzene	mg/l	.025	0.0244	97.5	73-132	WG509979
Methyl tert-butyl ether	mg/l	.025	0.0284	114.	51-142	WG509979
Methylene Chloride	mg/l	.025	0.0289	115.	64-125	WG509979
n-Butylbenzene	mg/l	.025	0.0235	94.0	63-142	WG509979
n-Propylbenzene	mg/l	.025	0.0243	97.4	71-132	WG509979
Naphthalene	mg/l	.025	0.0230	92.1	56-145	WG509979
p-Isopropyltoluene	mg/l	.025	0.0246	98.6	68-138	WG509979
sec-Butylbenzene	mg/l	.025	0.0240	96.1	70-135	WG509979
Styrene	mg/l	.025	0.0228	91.1	78-130	WG509979
tert-Butylbenzene	mg/l	.025	0.0246	98.3	72-134	WG509979
Tetrachloroethene	mg/l	.025	0.0238	95.4	67-135	WG509979
Toluene	mg/l	.025	0.0232	92.7	72-122	WG509979
trans-1,2-Dichloroethene	mg/l	.025	0.0278	111.	67-129	WG509979
trans-1,3-Dichloropropene	mg/l	.025	0.0226	90.4	66-137	WG509979

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Trichloroethene	mg/l	.025	0.0265	106.	74-126	WG509979
Trichlorofluoromethane	mg/l	.025	0.0293	117.	54-156	WG509979
Vinyl chloride	mg/l	.025	0.0300	120.	55-153	WG509979
Xylenes, Total	mg/l	.075	0.0716	95.5	75-128	WG509979
4-Bromofluorobenzene				101.5	75-128	WG509979
Dibromofluoromethane				108.8	79-125	WG509979
Toluene-d8				98.09	87-114	WG509979
TPH (GC/FID) Low Fraction	mg/l	5.5	5.50	100.	70-124	WG509992
a,a,a-Trifluorotoluene(FID)				107.7	62-128	WG509992
Nitrate	mg/l	8	7.88	98.5	90-110	WG509996
Sulfate	mg/l	40	36.5	91.3	90-110	WG509996
Alkalinity	mg/l	40	40.9	102.	85-115	WG509988
C10-C22 Hydrocarbons	mg/l	.75	1.05	140.	50-150	WG510167
C22-C32 Hydrocarbons	mg/l	.75	0.608	81.0	50-150	WG510167
o-Terphenyl				99.57	50-150	WG510167
Ferrous Iron	mg/l	1	1.06	106.	85-115	WG510500
Phosphorus,Total	mg/l	1	1.05	105.	85-115	WG510156

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0249	0.0265	99.0	75-134	6.47	20	WG509979
1,1,1-Trichloroethane	mg/l	0.0261	0.0269	104.	67-137	2.83	20	WG509979
1,1,2,2-Tetrachloroethane	mg/l	0.0231	0.0247	92.0	72-128	6.64	20	WG509979
1,1,2-Trichloroethane	mg/l	0.0228	0.0232	91.0	79-123	1.64	20	WG509979
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0276	0.0298	110.	51-149	7.49	20	WG509979
1,1-Dichloroethane	mg/l	0.0262	0.0286	105.	67-133	8.82	20	WG509979
1,1-Dichloroethene	mg/l	0.0252	0.0280	101.	60-130	10.5	20	WG509979
1,1-Dichloropropene	mg/l	0.0260	0.0274	104.	68-132	4.95	20	WG509979
1,2,3-Trichlorobenzene	mg/l	0.0218	0.0232	87.0	63-138	5.99	20	WG509979
1,2,3-Trichloropropane	mg/l	0.0247	0.0261	99.0	68-130	5.53	20	WG509979
1,2,3-Trimethylbenzene	mg/l	0.0209	0.0230	83.0	70-127	9.79	20	WG509979
1,2,4-Trichlorobenzene	mg/l	0.0217	0.0234	87.0	65-137	7.78	20	WG509979
1,2,4-Trimethylbenzene	mg/l	0.0240	0.0240	96.0	72-135	0.240	20	WG509979
1,2-Dibromo-3-Chloropropane	mg/l	0.0207	0.0260	83.0	55-134	22.9*	20	WG509979
1,2-Dibromoethane	mg/l	0.0216	0.0224	86.0	75-126	3.64	20	WG509979
1,2-Dichlorobenzene	mg/l	0.0216	0.0234	86.0	75-122	7.95	20	WG509979
1,2-Dichloroethane	mg/l	0.0252	0.0269	101.	63-137	6.64	20	WG509979
1,2-Dichloropropane	mg/l	0.0246	0.0259	98.0	74-122	4.98	20	WG509979
1,3,5-Trimethylbenzene	mg/l	0.0236	0.0244	94.0	73-134	3.24	20	WG509979
1,3-Dichlorobenzene	mg/l	0.0243	0.0243	97.0	73-131	0.170	20	WG509979
1,3-Dichloropropane	mg/l	0.0215	0.0221	86.0	77-119	3.04	20	WG509979
1,4-Dichlorobenzene	mg/l	0.0212	0.0225	85.0	70-121	5.91	20	WG509979
2,2-Dichloropropane	mg/l	0.0274	0.0283	109.	46-151	3.17	20	WG509979
2-Butanone (MEK)	mg/l	0.126	0.143	101.	53-132	12.8	20	WG509979
2-Chloroethyl vinyl ether	mg/l	0.106	0.107	84.0	0-171	1.00	27	WG509979
2-Chlorotoluene	mg/l	0.0232	0.0235	93.0	74-128	1.34	20	WG509979

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Tax I.D. 62-0814289

Est. 1970

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
4-Chlorotoluene	mg/l	0.0234	0.0232	94.0	74-130	0.820	20	WG509979
4-Methyl-2-pentanone (MIBK)	mg/l	0.116	0.130	93.0	60-142	11.4	20	WG509979
Acetone	mg/l	0.131	0.155	105.	48-134	17.1	20	WG509979
Acrolein	mg/l	0.146	0.165	117.	6-182	12.3	39	WG509979
Acrylonitrile	mg/l	0.133	0.154	106.	60-140	14.7	20	WG509979
Benzene	mg/l	0.0251	0.0263	100.	67-126	4.64	20	WG509979
Bromobenzene	mg/l	0.0227	0.0231	91.0	76-123	1.46	20	WG509979
Bromodichloromethane	mg/l	0.0250	0.0269	100.	68-133	7.33	20	WG509979
Bromoform	mg/l	0.0241	0.0245	96.0	60-139	1.55	20	WG509979
Bromomethane	mg/l	0.0315	0.0362	126.	45-175	13.7	20	WG509979
Carbon tetrachloride	mg/l	0.0249	0.0269	100.	64-141	7.75	20	WG509979
Chlorobenzene	mg/l	0.0222	0.0228	89.0	77-125	2.46	20	WG509979
Chlorodibromomethane	mg/l	0.0232	0.0243	93.0	73-138	4.51	20	WG509979
Chloroethane	mg/l	0.0292	0.0320	117.	49-155	9.28	20	WG509979
Chloroform	mg/l	0.0268	0.0290	107.	66-126	8.14	20	WG509979
Chloromethane	mg/l	0.0268	0.0303	107.	45-152	12.4	20	WG509979
cis-1,2-Dichloroethene	mg/l	0.0261	0.0273	104.	72-128	4.29	20	WG509979
cis-1,3-Dichloropropene	mg/l	0.0239	0.0250	96.0	73-131	4.35	20	WG509979
Di-isopropyl ether	mg/l	0.0259	0.0282	104.	63-139	8.37	20	WG509979
Dibromomethane	mg/l	0.0244	0.0266	98.0	73-125	8.69	20	WG509979
Dichlorodifluoromethane	mg/l	0.0266	0.0296	106.	39-189	10.9	24	WG509979
Ethylbenzene	mg/l	0.0231	0.0232	92.0	76-129	0.280	20	WG509979
Hexachloro-1,3-butadiene	mg/l	0.0219	0.0231	88.0	67-135	5.36	20	WG509979
Isopropylbenzene	mg/l	0.0236	0.0244	94.0	73-132	3.36	20	WG509979
Methyl tert-butyl ether	mg/l	0.0256	0.0284	102.	51-142	10.4	20	WG509979
Methylene Chloride	mg/l	0.0271	0.0289	108.	64-125	6.35	20	WG509979
n-Butylbenzene	mg/l	0.0217	0.0235	87.0	63-142	7.87	20	WG509979
n-Propylbenzene	mg/l	0.0233	0.0243	93.0	71-132	4.32	20	WG509979
Naphthalene	mg/l	0.0206	0.0230	82.0	56-145	11.0	20	WG509979
p-Isopropyltoluene	mg/l	0.0242	0.0246	97.0	68-138	1.89	20	WG509979
sec-Butylbenzene	mg/l	0.0239	0.0240	96.0	70-135	0.380	20	WG509979
Styrene	mg/l	0.0228	0.0228	91.0	78-130	0.260	20	WG509979
tert-Butylbenzene	mg/l	0.0238	0.0246	95.0	72-134	3.26	20	WG509979
Tetrachloroethene	mg/l	0.0236	0.0238	94.0	67-135	1.18	20	WG509979
Toluene	mg/l	0.0225	0.0232	90.0	72-122	2.78	20	WG509979
trans-1,2-Dichloroethene	mg/l	0.0257	0.0278	103.	67-129	7.80	20	WG509979
trans-1,3-Dichloropropene	mg/l	0.0227	0.0226	91.0	66-137	0.490	20	WG509979
Trichloroethene	mg/l	0.0248	0.0265	99.0	74-126	6.73	20	WG509979
Trichlorofluoromethane	mg/l	0.0268	0.0293	107.	54-156	8.80	20	WG509979
Vinyl chloride	mg/l	0.0271	0.0300	108.	55-153	10.2	20	WG509979
Xylenes, Total	mg/l	0.0702	0.0716	94.0	75-128	1.99	20	WG509979
4-Bromofluorobenzene				107.7	75-128			WG509979
Dibromofluoromethane				108.1	79-125			WG509979
Toluene-d8				98.25	87-114			WG509979
TPH (GC/FID) Low Fraction	mg/l	5.43	5.50	99.0	70-124	1.34	20	WG509992
a,a,a-Trifluorotoluene(FID)				107.1	62-128			WG509992
Nitrate	mg/l	7.86	7.88	98.0	90-110	0.254	20	WG509996
Sulfate	mg/l	36.5	36.5	91.0	90-110	0	20	WG509996
Alkalinity	mg/l	40.4	40.9	101.	85-115	1.23	20	WG509988
C10-C22 Hydrocarbons	mg/l	1.03	1.05	137.	50-150	2.18	20	WG510167
C22-C32 Hydrocarbons	mg/l	0.598	0.608	80.0	50-150	1.66	20	WG510167

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Level II

L490320

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
o-Terphenyl				98.63	50-150			
Ferrous Iron	mg/l	1.07	1.06	107.	85-115	0.939	20	WG510500
Phosphorus,Total	mg/l	1.14	1.05	114.	85-115	8.22	20	WG510156

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0285	0	.025	114.	45-152	L490092-01	WG509979
1,1,1-Trichloroethane	mg/l	0.0326	0	.025	130.	31-161	L490092-01	WG509979
1,1,2,2-Tetrachloroethane	mg/l	0.0279	0	.025	111.	49-149	L490092-01	WG509979
1,1,2-Trichloroethane	mg/l	0.0255	0	.025	102.	46-145	L490092-01	WG509979
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0416	0	.025	166.	14-168	L490092-01	WG509979
1,1-Dichloroethane	mg/l	0.0320	0	.025	128.	30-159	L490092-01	WG509979
1,1-Dichloroethene	mg/l	0.0360	0	.025	144.	10-162	L490092-01	WG509979
1,1-Dichloropropene	mg/l	0.0309	0	.025	123.	14-162	L490092-01	WG509979
1,2,3-Trichlorobenzene	mg/l	0.0232	0	.025	93.0	32-143	L490092-01	WG509979
1,2,3-Trichloropropane	mg/l	0.0302	0	.025	121.	48-148	L490092-01	WG509979
1,2,3-Trimethylbenzene	mg/l	0.0241	0	.025	96.3	36-141	L490092-01	WG509979
1,2,4-Trichlorobenzene	mg/l	0.0238	0	.025	95.3	27-142	L490092-01	WG509979
1,2,4-Trimethylbenzene	mg/l	0.0257	0	.025	103.	29-153	L490092-01	WG509979
1,2-Dibromo-3-Chloropropane	mg/l	0.0268	0	.025	107.	37-148	L490092-01	WG509979
1,2-Dibromoethane	mg/l	0.0256	0	.025	102.	41-149	L490092-01	WG509979
1,2-Dichlorobenzene	mg/l	0.0241	0	.025	96.6	40-139	L490092-01	WG509979
1,2-Dichloroethane	mg/l	0.0292	0	.025	117.	29-167	L490092-01	WG509979
1,2-Dichloropropane	mg/l	0.0285	0	.025	114.	39-148	L490092-01	WG509979
1,3,5-Trimethylbenzene	mg/l	0.0262	0	.025	105.	33-149	L490092-01	WG509979
1,3-Dichlorobenzene	mg/l	0.0257	0	.025	103.	32-148	L490092-01	WG509979
1,3-Dichloropropane	mg/l	0.0241	0	.025	96.3	44-142	L490092-01	WG509979
1,4-Dichlorobenzene	mg/l	0.0239	0	.025	95.5	32-136	L490092-01	WG509979
2,2-Dichloropropane	mg/l	0.0339	0	.025	136.	14-158	L490092-01	WG509979
2-Butanone (MEK)	mg/l	0.158	0	.125	126.	32-151	L490092-01	WG509979
2-Chloroethyl vinyl ether	mg/l	0.0335	0	.125	26.8	0-175	L490092-01	WG509979
2-Chlorotoluene	mg/l	0.0248	0	.025	99.0	35-147	L490092-01	WG509979
4-Chlorotoluene	mg/l	0.0247	0	.025	98.8	33-147	L490092-01	WG509979
4-Methyl-2-pentanone (MIBK)	mg/l	0.155	0	.125	124.	40-160	L490092-01	WG509979
Acetone	mg/l	0.169	0	.125	135.	25-157	L490092-01	WG509979
Acrolein	mg/l	0.297	0	.125	237.*	0-179	L490092-01	WG509979
Acrylonitrile	mg/l	0.174	0	.125	139.	37-162	L490092-01	WG509979
Benzene	mg/l	0.0302	0	.025	121.	16-158	L490092-01	WG509979
Bromobenzene	mg/l	0.0244	0	.025	97.7	37-147	L490092-01	WG509979
Bromodichloromethane	mg/l	0.0293	0	.025	117.	45-147	L490092-01	WG509979
Bromoform	mg/l	0.0270	0	.025	108.	38-152	L490092-01	WG509979
Bromomethane	mg/l	0.0413	0	.025	165.	0-191	L490092-01	WG509979
Carbon tetrachloride	mg/l	0.0321	0	.025	128.	22-168	L490092-01	WG509979
Chlorobenzene	mg/l	0.0250	0	.025	100.	33-148	L490092-01	WG509979
Chlorodibromomethane	mg/l	0.0266	0	.025	106.	48-151	L490092-01	WG509979
Chloroethane	mg/l	0.0364	0	.025	145.	4-176	L490092-01	WG509979
Chloroform	mg/l	0.0322	0	.025	129.	37-147	L490092-01	WG509979
Chloromethane	mg/l	0.0337	0	.025	135.	10-174	L490092-01	WG509979
cis-1,2-Dichloroethene	mg/l	0.0312	0	.025	125.	29-156	L490092-01	WG509979
cis-1,3-Dichloropropene	mg/l	0.0274	0	.025	110.	35-148	L490092-01	WG509979
Di-isopropyl ether	mg/l	0.0311	0	.025	124.	39-160	L490092-01	WG509979
Dibromomethane	mg/l	0.0299	0	.025	120.	36-152	L490092-01	WG509979
Dichlorodifluoromethane	mg/l	0.0342	0	.025	137.	0-200	L490092-01	WG509979
Ethylbenzene	mg/l	0.0256	0	.025	102.	29-150	L490092-01	WG509979
Hexachloro-1,3-butadiene	mg/l	0.0245	0	.025	98.0	28-144	L490092-01	WG509979
Isopropylbenzene	mg/l	0.0270	0	.025	108.	35-147	L490092-01	WG509979

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Methyl tert-butyl ether	mg/l	0.0324	0	.025	130.	24-167	L490092-01	WG509979
Methylene Chloride	mg/l	0.0335	0	.025	134.	23-151	L490092-01	WG509979
n-Butylbenzene	mg/l	0.0250	0	.025	100.	22-151	L490092-01	WG509979
n-Propylbenzene	mg/l	0.0259	0	.025	104.	26-150	L490092-01	WG509979
Naphthalene	mg/l	0.0238	0	.025	95.2	24-160	L490092-01	WG509979
p-Isopropyltoluene	mg/l	0.0270	0	.025	108.	28-151	L490092-01	WG509979
sec-Butylbenzene	mg/l	0.0267	0	.025	107.	32-149	L490092-01	WG509979
Styrene	mg/l	0.0253	0	.025	101.	38-149	L490092-01	WG509979
tert-Butylbenzene	mg/l	0.0266	0	.025	106.	36-149	L490092-01	WG509979
Tetrachloroethene	mg/l	0.0263	0	.025	105.	13-157	L490092-01	WG509979
Toluene	mg/l	0.0262	0	.025	105.	22-152	L490092-01	WG509979
trans-1,2-Dichloroethene	mg/l	0.0343	0	.025	137.	11-160	L490092-01	WG509979
trans-1,3-Dichloropropene	mg/l	0.0260	0	.025	104.	33-153	L490092-01	WG509979
Trichloroethene	mg/l	0.0289	0	.025	115.	18-163	L490092-01	WG509979
Trichlorofluoromethane	mg/l	0.0344	0	.025	137.	10-177	L490092-01	WG509979
Vinyl chloride	mg/l	0.0345	0	.025	138.	0-179	L490092-01	WG509979
Xylenes, Total	mg/l	0.0777	0	.075	104.	27-151	L490092-01	WG509979
4-Bromofluorobenzene					104.1	75-128		WG509979
Dibromofluoromethane					109.9	79-125		WG509979
Toluene-d8					101.5	87-114		WG509979
TPH (GC/FID) Low Fraction	mg/l	5.67	0	5.5	103.	55-109	L490313-01	WG509992
a,a,a-Trifluorotoluene(FID)					105.8	62-128		WG509992
Nitrate	mg/l	4.86	0	5	97.2	80-120	L490337-02	WG509996
Sulfate	mg/l	48.2	1.40	50	93.6	80-120	L490337-02	WG509996
Alkalinity	mg/l	258.	49.0	200	104.	80-120	L490313-05	WG509988
Ferrous Iron	mg/l	1.52	0	1.5	101.	80-120	L490299-19	WG510500
Phosphorus,Total	mg/l	6.35	4.00	2.5	94.0	80-120	L490300-01	WG510156

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0267	0.0285	107.	45-152	6.56	21	L490092-01	WG509979
1,1,1-Trichloroethane	mg/l	0.0327	0.0326	131.	31-161	0.390	23	L490092-01	WG509979
1,1,2,2-Tetrachloroethane	mg/l	0.0264	0.0279	105.	49-149	5.55	22	L490092-01	WG509979
1,1,2-Trichloroethane	mg/l	0.0256	0.0255	102.	46-145	0.250	20	L490092-01	WG509979
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/l	0.0413	0.0416	165.	14-168	0.790	24	L490092-01	WG509979
1,1-Dichloroethane	mg/l	0.0324	0.0320	130.	30-159	1.13	21	L490092-01	WG509979
1,1-Dichloroethene	mg/l	0.0357	0.0360	143.	10-162	1.08	23	L490092-01	WG509979
1,1-Dichloropropene	mg/l	0.0332	0.0309	133.	14-162	7.43	23	L490092-01	WG509979
1,2,3-Trichlorobenzene	mg/l	0.0249	0.0232	99.4	32-143	6.72	33	L490092-01	WG509979
1,2,3-Trichloropropane	mg/l	0.0283	0.0302	113.	48-148	6.42	23	L490092-01	WG509979
1,2,3-Trimethylbenzene	mg/l	0.0235	0.0241	94.1	36-141	2.32	25	L490092-01	WG509979
1,2,4-Trichlorobenzene	mg/l	0.0252	0.0238	101.	27-142	5.44	30	L490092-01	WG509979
1,2,4-Trimethylbenzene	mg/l	0.0263	0.0257	105.	29-153	2.34	27	L490092-01	WG509979
1,2-Dibromo-3-Chloropropane	mg/l	0.0259	0.0268	104.	37-148	3.36	27	L490092-01	WG509979
1,2-Dibromoethane	mg/l	0.0259	0.0256	104.	41-149	1.35	21	L490092-01	WG509979
1,2-Dichlorobenzene	mg/l	0.0240	0.0241	96.0	40-139	0.560	23	L490092-01	WG509979
1,2-Dichloroethane	mg/l	0.0295	0.0292	118.	29-167	0.850	21	L490092-01	WG509979
1,2-Dichloropropane	mg/l	0.0285	0.0285	114.	39-148	0.0300	20	L490092-01	WG509979

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Level II

L490320

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Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1,3,5-Trimethylbenzene	mg/l	0.0264	0.0262	105.	33-149	0.530	26	L490092-01	WG509979
1,3-Dichlorobenzene	mg/l	0.0265	0.0257	106.	32-148	3.07	24	L490092-01	WG509979
1,3-Dichloropropane	mg/l	0.0246	0.0241	98.5	44-142	2.26	20	L490092-01	WG509979
1,4-Dichlorobenzene	mg/l	0.0244	0.0239	97.6	32-136	2.22	23	L490092-01	WG509979
2,2-Dichloropropane	mg/l	0.0353	0.0339	141.	14-158	4.00	23	L490092-01	WG509979
2-Butanone (MEK)	mg/l	0.153	0.158	122.	32-151	3.26	26	L490092-01	WG509979
2-Chloroethyl vinyl ether	mg/l	0.00405	0.0335	3.24	0-175	157.*	75	L490092-01	WG509979
2-Chlorotoluene	mg/l	0.0258	0.0248	103.	35-147	4.29	24	L490092-01	WG509979
4-Chlorotoluene	mg/l	0.0256	0.0247	102.	33-147	3.53	25	L490092-01	WG509979
4-Methyl-2-pentanone (MIBK)	mg/l	0.138	0.155	111.	40-160	11.0	28	L490092-01	WG509979
Acetone	mg/l	0.146	0.169	116.	25-157	14.8	26	L490092-01	WG509979
Acrolein	mg/l	0.266	0.297	213.*	0-179	10.8	39	L490092-01	WG509979
Acrylonitrile	mg/l	0.161	0.174	129.	37-162	7.37	24	L490092-01	WG509979
Benzene	mg/l	0.0305	0.0302	122.	16-158	0.800	21	L490092-01	WG509979
Bromobenzene	mg/l	0.0245	0.0244	97.9	37-147	0.230	23	L490092-01	WG509979
Bromodichloromethane	mg/l	0.0281	0.0293	112.	45-147	3.99	20	L490092-01	WG509979
Bromoform	mg/l	0.0267	0.0270	107.	38-152	0.920	20	L490092-01	WG509979
Bromomethane	mg/l	0.0397	0.0413	159.	0-191	3.95	35	L490092-01	WG509979
Carbon tetrachloride	mg/l	0.0325	0.0321	130.	22-168	1.10	24	L490092-01	WG509979
Chlorobenzene	mg/l	0.0255	0.0250	102.	33-148	1.72	22	L490092-01	WG509979
Chlorodibromomethane	mg/l	0.0259	0.0266	104.	48-151	2.60	21	L490092-01	WG509979
Chloroethane	mg/l	0.0376	0.0364	150.	4-176	3.37	27	L490092-01	WG509979
Chloroform	mg/l	0.0315	0.0322	126.	37-147	2.33	21	L490092-01	WG509979
Chloromethane	mg/l	0.0320	0.0337	128.	10-174	5.04	28	L490092-01	WG509979
cis-1,2-Dichloroethene	mg/l	0.0310	0.0312	124.	29-156	0.630	22	L490092-01	WG509979
cis-1,3-Dichloropropene	mg/l	0.0273	0.0274	109.	35-148	0.270	21	L490092-01	WG509979
Di-isopropyl ether	mg/l	0.0306	0.0311	122.	39-160	1.45	21	L490092-01	WG509979
Dibromomethane	mg/l	0.0289	0.0299	116.	36-152	3.57	20	L490092-01	WG509979
Dichlorodifluoromethane	mg/l	0.0330	0.0342	132.	0-200	3.40	26	L490092-01	WG509979
Ethylbenzene	mg/l	0.0262	0.0256	105.	29-150	2.22	24	L490092-01	WG509979
Hexachloro-1,3-butadiene	mg/l	0.0262	0.0245	105.	28-144	6.70	33	L490092-01	WG509979
Isopropylbenzene	mg/l	0.0274	0.0270	109.	35-147	1.50	25	L490092-01	WG509979
Methyl tert-butyl ether	mg/l	0.0308	0.0324	123.	24-167	5.04	22	L490092-01	WG509979
Methylene Chloride	mg/l	0.0325	0.0335	130.	23-151	2.89	21	L490092-01	WG509979
n-Butylbenzene	mg/l	0.0261	0.0250	104.	22-151	4.29	29	L490092-01	WG509979
n-Propylbenzene	mg/l	0.0267	0.0259	107.	26-150	2.87	25	L490092-01	WG509979
Naphthalene	mg/l	0.0252	0.0238	101.	24-160	5.55	37	L490092-01	WG509979
p-Isopropyltoluene	mg/l	0.0277	0.0270	111.	28-151	2.79	27	L490092-01	WG509979
sec-Butylbenzene	mg/l	0.0273	0.0267	109.	32-149	2.15	26	L490092-01	WG509979
Styrene	mg/l	0.0249	0.0253	99.6	38-149	1.59	23	L490092-01	WG509979
tert-Butylbenzene	mg/l	0.0271	0.0266	108.	36-149	1.92	26	L490092-01	WG509979
Tetrachloroethene	mg/l	0.0281	0.0263	112.	13-157	6.64	24	L490092-01	WG509979
Toluene	mg/l	0.0268	0.0262	107.	22-152	2.23	22	L490092-01	WG509979
trans-1,2-Dichloroethene	mg/l	0.0333	0.0343	133.	11-160	2.96	23	L490092-01	WG509979
trans-1,3-Dichloropropene	mg/l	0.0265	0.0260	106.	33-153	1.91	22	L490092-01	WG509979
Trichloroethene	mg/l	0.0285	0.0289	114.	18-163	1.19	21	L490092-01	WG509979
Trichlorofluoromethane	mg/l	0.0349	0.0344	140.	10-177	1.52	24	L490092-01	WG509979
Vinyl chloride	mg/l	0.0334	0.0345	134.	0-179	3.19	26	L490092-01	WG509979
Xylenes, Total	mg/l	0.0787	0.0777	105.	27-151	1.27	23	L490092-01	WG509979
4-Bromofluorobenzene				104.6	75-128				WG509979
Dibromofluoromethane				109.1	79-125				WG509979
Toluene-d8				98.43	87-114				WG509979
TPH (GC/FID) Low Fraction	mg/l	5.52	5.67	100.	55-109	2.70	20	L490313-01	WG509992
a,a,a-Trifluorotoluene(FID)				105.4	62-128				WG509992
Nitrate	mg/l	4.81	4.86	96.2	80-120	1.03	20	L490337-02	WG509996

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Sulfate	mg/l	47.6	48.2	92.4	80-120	1.25	20	L490337-02	WG509996
Alkalinity	mg/l	258.	258.	104.	80-120	0	20	L490313-05	WG509988
Ferrous Iron	mg/l	1.47	1.52	98.0	80-120	3.34	20	L490299-19	WG510500
Phosphorus,Total	mg/l	6.54	6.35	102.	80-120	2.95	20	L490300-01	WG510156

Batch number /Run number / Sample number cross reference

WG509979: R1485949: L490320-01
WG509992: R1486069: L490320-01
WG509996: R1486995: L490320-01
WG509988: R1487050: L490320-01
WG510167: R1487650: L490320-01
WG510500: R1488934: L490320-01
WG510156: R1490472: L490320-01

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

ARCADIS U.S. GMC
Holly Burger
10559 Citation Dr, Ste 100

Brighton, MI 48116

Quality Assurance Report
Level II

L490320

November 29, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Company Name/Address:
ARCADIS U.S. GMC
10559 Citation Dr. Ste. 100
Brighton, MI 48116

Billing Information:
Brad Saunders
10559 Citation Dr. Ste 100
Brighton, MI 48116

Report to: Holly M Burger
Email to: jhawkins@cnvsci.com

Project Description: Oakland Truck Center
City/State Collected: Oakland, CA

Phone: 810-229-1904
FAX: 810-229-8337

Client Project #: BOC64436.0007.00001
ESC Key: ARCABMI-OAKLANDCA

Collected by: (print) Alex Martinez
Site/Facility ID#: 5099 S Coliseum Way
P.O.#:

Collected by (signature): Alex Martinez
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day..... 200%
___ Next Day..... 100%
___ Two Day..... 50%
___ Three Day..... 25%

Date Results Needed:
Email? __No X Yes
FAX? __No __Yes

Chain of Custody Page 1 of 1

C175

ESC LABORATORY SCIENCES
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859

CoCode (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPH (GRO, DRO & ORO) by EPA Method 8015B Modified (3 Day TAT)	PAH by EPA Method 8270 (Hold) (Analyze only if TPH is in groundwater)	VOC's by EPA Method 8260 (3 Day TAT)	Alkalinity by Method 310.2 (3 day TAT)	Ortho-Phosphate (as P) by Method 9056/300.0 (3 Day TAT)	Sulfate by Method 9056/300.0 (3 Day TAT)	Nitrate as Nitrogen by Method 9056/300.0 (3 Day TAT)	Ferrous Iron by Method 3500 Fe B (3 Day TAT)	Remarks/Contaminant	Sample # (lab only)
MW-3	—	GW	—	11/22/10	0816	11	X	X	X	X	X	X	X	X	See tables for bottle clarification	L490320-01
																L490320

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

pH _____ Temp _____

Remarks: Added extra unused bottles

Flow _____ Other _____

794141535060

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Alex Martinez	11/22/10	1030	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Matthew Mulard

Samples returned via: ☑ FedEx ☐ Courier ☐ UPS ☐ _____
Temp: 2.4°C
Bottles Received: 11
Date: 11/23/10
Time: 09:00

Condition: (lab use only) OK
CoC Seals Intact ___ Y ___ N ___ NA
pH Checked: <2
NCF: