

Prepared for

TDY Industries, Inc
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GROUNDWATER MONITORING REPORT

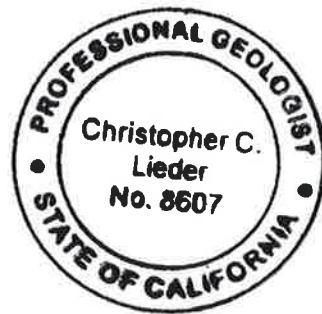
THIRD QUARTER 2010

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1. INTRODUCTION

This Groundwater Monitoring Report (Report) has been prepared by Geosyntec Consultants (Geosyntec) on behalf of TDY Industries, Inc. for the Airport/Former Teledyne Ryan Aeronautical site located at 2701 North Harbor Drive in San Diego, California (Site). This Report summarizes the results of the third quarter 2010 groundwater sampling that was performed at the Site in accordance with the Groundwater Monitoring and Reporting Plan (MRP) dated 6 November 2006 (Geosyntec, 2006), and modifications thereto, including those recommended in the first quarter 2010 monitoring report (Geosyntec, 2010) and comments received from the Regional Water Quality Control Board (RWQCB, 2010). This Report also summarizes monitoring results from the ongoing enhanced in-situ bioremediation (EISB) programs. This Report was prepared by Mr. Chris Lieder, PG and reviewed by Mr. Brian Hitchens, PG, CHG of Geosyntec in accordance with the peer review policy of the firm.

1.1 Background

A baseline assessment of Site conditions and groundwater quality is summarized in the Site Characterization Report (Geosyntec, 2005). The Remedial Action Plan (RAP) requirements specified in Cleanup and Abatement Order R9-2004-0258 (RWQCB, 2005a) contain a provision for the development and implementation of an MRP to demonstrate the effectiveness of the selected remedial action. The RWQCB requested the initiation of groundwater monitoring in advance of the RAP to monitor temporal variation in groundwater quality and to monitor potential impacts to San Diego Bay with a series of “sentry-wells” in the vicinity of Convair Lagoon.

1.2 Objective

The objective of this Report is to present the results of the third quarter 2010 groundwater monitoring event, and to provide conclusions and recommendations for the ongoing monitoring program based on the results presented herein. This report also summarizes the ongoing EISB program at the Site.

1.3 Groundwater Monitoring Program

Groundwater samples were collected from 28 monitor wells during the third quarter 2010 semi-annual sampling event (Table 2, Figure 2). The monitoring for the EISB implementation in the Building 130/166AST/120/121, Building 180, and Former Maintenance Yard areas was performed concurrently and the results are included within this report.

Monitor well B102-MW4 is located downgradient of the former Building 102 diesel UST. It is used to monitor potential impacts related to the Building 102 AOC. Monitor wells B120-MW1, -MW2, -MW3, and -MW6 monitor groundwater quality in the Building 130/166AST/120/121 AOC. Monitor wells B120-MW4 and B120-MW5 are located downgradient of the Building 130/166AST/120/121 AOC.

In accordance with the MRP, Geosyntec monitors eight wells, MWCL-1 through MWCL-8, along the perimeter of Convair Lagoon. Due to elevated turbidity levels observed and the potential for improved long term monitoring, MWCL-8 was abandoned and replaced with a 2-inch PVC casing well in 23 April 2009 (MWCL-8R) and constructed with traditional filter pack over an identical screen interval.

Monitor well Area D-MW1 was installed in the center of the Area D AOC excavation for post remediation monitoring purposes (Figure 2). This well was added to the routine sampling schedule and is analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Due to poor well condition, downgradient monitor well TC4-EGP was abandoned and replaced with a new monitor well, Area D-MW2. This well was added to the routine MRP during the third quarter 2009 sampling event and is sampled for VOCs, TPH, and 1,4-dioxane.

Monitor well B158-MW1 is located in the center of Building 158 to monitor chromium impacts associated with the Building 158 AOC. To monitor downgradient groundwater conditions in the vicinity of Building 158, monitor well (B158-MW2) was installed. Both monitor wells are sampled for total chromium and hexavalent chromium.

Monitor wells within the Building 131/242 pilot study area were added to the routine MRP at the conclusion of the EISB pilot study. Monitor wells B131-MW2, -MW3, -MW5, and -MW6 evaluate the shallow groundwater quality within the area targeted by the 131/242 EISB pilot study. Monitor well B131-MW4 is monitored to evaluate groundwater downgradient of the EISB pilot area.

As remediation activities are performed, wells or constituents may be recommended for addition or removal from the routine monitoring network, as site conditions dictate. Groundwater monitoring of ongoing EISB areas (Building 130/166AST/120/121, Former Maintenance Yard, Building 180 AOCs) is being conducted separately, under individual remedial action monitoring plans. However, analytical results from monitor wells B120-MW7, B120-MW8, B120-MW9, FMY-MW1, and B180-MW2 which monitor ongoing performance of the EISB program are summarized within this report.

1.4 Hydrologic Setting

The Site is located within the coastal plain section of San Diego Drainage Province, approximately 250 feet north of Convair Lagoon and the San Diego Bay. The San Diego Basin Plan (RWQCB, 2006) identifies the Site location as a portion of the Lindbergh Hydrologic Sub Area (8.21) of the San Diego Mesa Hydrologic Area within the Pueblo San Diego Hydrologic Unit. Groundwater in the Lindbergh Hydrologic Sub Area is designated as non-beneficial use and has been exempted from municipal drinking water designation by the RWQCB. Groundwater at the Site occurs at approximately 5 to 8 feet bgs. Groundwater elevations fluctuate slightly with diurnal tidal variations in the San Diego Bay.

1.5 Modifications to the MRP

A one-time sitewide sampling event was performed for PCBs during the first quarter 2010 monitoring period. During the third quarter 2010 the sampling scope for PCBs returned to the wells in the MRP, consisting of B120-MW2, B120-MW3 and the shallow Convair Lagoon wells.

2. GROUNDWATER MONITORING RESULTS

This section presents the groundwater monitoring results from the first quarter 2010 sampling event. Prior to sampling, groundwater levels were measured in 38 monitor wells at the Site on 20 July 2010 (Table 3, Figure 2). Groundwater samples were collected on 21 - 23 July 2010 in accordance with the recommendations from the First Quarter 2010 Monitoring Report (Geosyntec, 2010) and in subsequent comments from the RWQCB on 10 June 2010. All monitor wells were sampled using low flow purging and sampling methods with the exception of MWCL-5 which was sampled using slow recharge sampling methodology as described in the Site Assessment and Mitigation Manual (DEH, 2004). Groundwater sample collection logs are provided in Appendix B.

2.1 Groundwater Elevations and Flow Direction

There are 38 wells at the Site which are gauged on a semiannual basis (Table 1, Figure 2). Groundwater gauging was performed before sampling activities by two teams over approximately 3 hours during a period of low tide. Groundwater elevations at the Site ranged from a low of 0.29 feet above mean sea level (ft MSL) in monitor well MWCL-3 located in the central portion of Convair Lagoon vicinity, to a high of 3.00 ft MSL in monitor well B120-MW9 located in the north-east portion of the Site.

In the western portion of the Site the groundwater generally flows in a southeasterly direction with a hydraulic gradient of 0.0017 ft/ft. In the central portion of the Site the groundwater flows in a south southerly direction with a gradient of 0.0027 ft/ft. In the eastern portion of the Site, groundwater flows to the east and southeast with a gradient of approximately 0.0020 ft/ft. The groundwater gradient slightly increases in the vicinity of Convair Lagoon (Figure 2).

Although well pressurization has interfered with well gauging in several slow-recharge wells, a downward gradient is typically observed between shallow and intermediate wells adjacent to Convair Lagoon and in on-site monitor well pairs B131-MW2/2D and B131-MW3/3D.

An interface probe was used to test for immiscible layers in monitor wells at the Site. No detections of non-aqueous phase liquids (NAPL) were observed during this monitoring event.

2.2 Analytical Parameters

Groundwater sample analyses were performed by Calscience Environmental Laboratories in Garden Grove, California. Groundwater samples were analyzed by the laboratory as detailed below:

Parameter	Analytical Method
Total Petroleum Hydrocarbons (TPH)	EPA 8015B
Volatile Organic Compounds (VOCs)	EPA 8260B
Semi-Volatile Organic Compounds (SVOCs)	EPA 8270C ML
Polychlorinated Biphenyls (PCBs)	EPA 1668A or 8082 ULL
1,4-Dioxane	EPA 8270C (M)
Metals	6010B/7470A
Dissolved Organic Gases	RSK-175M
Organic Acids	HPLC/UV
Chloride, Nitrate, Nitrite, & Sulfate (General Chemistry)	EPA 300.0
Total Sulfide (General Chemistry)	SM 4500 S2-D
Total Organic Carbon	SM 5310 D

2.3 Analytical Results

A summary of groundwater analytical results is provided in Table 4. Electronic copies of the full analytical reports are provided on the enclosed CD in Appendix C.

Total Petroleum Hydrocarbons

Petroleum hydrocarbons were detected in monitor wells Area D-MW1 and B120-MW3 at concentrations of 2,400 µg/L and 910 µg/L respectively. The concentration of TPH in B120-MW3 is less than the concentration detected at that well in July 2009 (8,800 µg/L) (Table 4). TPH was not detected in monitor well AreaD-MW1 during the last monitoring event and will continue to be evaluated. No groundwater samples exceeded the proposed site-specific Risk Based Concentrations (RBCs) for TPH.

1,4-Dioxane

Groundwater samples were analyzed using EPA method 8270C (M). 1,4-dioxane was detected in on-site groundwater monitor wells at concentrations ranging from 62 µg/L

to 690 µg/L. 1,4-dioxane was detected in off-site groundwater monitor wells (Convair Lagoon) at concentrations ranging from 1.9 µg/L to 27 µg/L. No samples exceeded the proposed site-specific RBC.

Polychlorinated Biphenyls

Groundwater samples from on-site monitor wells B120-MW2 and B120-MW3 were analyzed for PCB Aroclors by EPA Method 8082 ULL. The shallow Convair Lagoon monitor wells were analyzed for PCB Homologs using high resolution method 1668A. All groundwater PCB samples were analyzed following laboratory filtration using a 0.1 micron filter to remove suspended particulates to achieve a representative dissolved phase PCB result. PCBs were detected in the groundwater sample from B120-MW2 at a concentration of 63 µg/L. The total PCB result from duplicate sample from the same well contained 43 µg/L. PCBs were detected in Convair Lagoon vicinity monitor wells at concentrations ranging from 0.00285 µg/L to 0.01588 µg/L. Total PCBs were also detected in the associated laboratory method blank at a concentration of 0.00568 µg/L.

Due to the method blank detections, the following data validation rules were applied. Homologs detected at concentrations below the laboratory reporting limits (RL) with corresponding method blank detections were validated as non-detect with a revised detection limit equal to the reporting limit. Homologs detected at concentrations above the RL with corresponding method blank detections at concentrations greater than the reported sample concentrations were validated as non-detections with a revised detection limit equal to the method blank result. Homologs detected at concentrations above the RL with corresponding method blank detections below the reported results were retained as valid results, but were qualified as possible method blank contamination.

Volatile Organic Compounds

Elevated chlorinated hydrocarbons (CVOCs) cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC) were detected in the groundwater sample collected from Building 120 monitor well B120-MW2. Only the concentration of VC exceeded proposed site-specific RBCs in this well (Table 4). Building 131 monitor wells B131-MW2 and B131-MW5 also exceeded the proposed site specific RBC for VC.

Trace concentrations of cis-1,2-dichloroethene were detected in downgradient monitor wells BLD120-MW4 and BLD120-MW5. No other COCs were detected in these monitor wells, which are immediately downgradient of the Building

130/166AST/120/121 EISB interim action area. These concentrations are consistent with historical results and are below proposed site-specific RBCs. VOC concentrations in the Former Maintenance Yard and Building 180 AOCs continue to be below the proposed site-specific RBCs (Appendix A).

Low concentrations of VOCs were also detected in groundwater samples collected from Convair Lagoon vicinity monitor wells MWCL-1, -5, and -7, (Table 5). All VOCs detected within Convair Lagoon vicinity monitor wells during this sampling event were below CTR and proposed site-specific RBC values. The remaining groundwater samples collected from the off-site sentry wells contained no detectable VOCs.

The trace concentrations of 1,1-dichloroethane in monitor well MWCL-1 (0.58 µg/L) and low level detections of cis-1,2-dichloroethene and trichloroethene in MWCL-7 (0.64 µg/L and 5.6 µg/L respectively), and cis-1,2-dichloroethene detected in monitor well MWCL-5 (32 µg/L) will continue to be monitored.

Semi-Volatile Organic Compounds

During the third Quarter 2010 sampling event, SVOCs were sampled in the Convair Lagoon vicinity monitor wells. Two of the eight Convair Lagoon vicinity monitor wells (MWCL-1, and -5) contained trace detections of bis-2-ethylhexyl phthalate (Table 5). All SVOCs detected within Convair Lagoon vicinity monitor wells during this sampling event were below CTR and proposed site-specific RBC values. These wells will continue to be monitored for SVOCs.

Metals

During the third Quarter 2010 sampling event, metals were sampled in the off-site Convair Lagoon vicinity monitor wells. Trace concentrations of copper detected in MWCL-5 and MWCL-7 slightly exceeded the CTR. All other metals were detected below the CTR and site-specific background values.

Hexavalent chromium was detected above the proposed site-specific RBCs in monitor well B158-MW1 (410 mg/L). No hexavalent chromium was detected in downgradient monitor well B158-MW2.

2.4 Area Specific Evaluations

In the following sections, concentration trends and observations are noted as they pertain to AOCs as a whole. For wells and constituents that have sufficient data for

trend analysis (at least three data points), time trends have been plotted and are presented in Appendix A.

Building 131/242 EISB Monitoring Results

Monitor wells in the Building 131 area (BLD131-MW2, -MW3, -MW5, and -MW6) were sampled to evaluate the ongoing performance of the EISB pilot study. The monitor wells were sampled for VOCs, TOC, organic acids, general chemistry, and dissolved organic gases (Table 6). VOC concentrations from samples collected from BLD131-MW3 and -MW6 have met the proposed site-specific RBCs. Those samples contained only low level residual VOC concentrations (Table 4). The groundwater samples from monitor wells BLD131-MW2 and B131-MW5 exceeded the proposed site-specific RBC for vinyl chloride.

Decreased cis-1,2-dichloroethene from 610 µg/L during the First Quarter 2010 monitoring event to 350 µg/L during the Third Quarter 2010 monitoring event and vinyl chloride from 1,300 µg/L during the First Quarter 2010 monitoring event to 670 µg/L during the Third Quarter 2010 monitoring event concentrations observed in B131-MW2 indicate that ongoing degradation is occurring in the vicinity of this well. Relatively high ethene concentrations are also an indication that complete degradation is still occurring.

Vinyl chloride concentrations in B131-MW5 continue to decrease since the last sampling event from 1,600 µg/L during the First Quarter 2010 monitoring event to 1,200 µg/L during the Third Quarter 2010 monitoring event. High ethene concentrations in this well indicate that complete degradation is still occurring and it is expected that vinyl chloride will continue its decreasing trend.

Area D Monitoring Results

Monitor well Area D-MW1 was installed following remedial excavation and groundwater/LNAPL extraction activities in Area D. This well was sampled for VOCs and TPH. No detection of VOCs was observed in this well with the exception of a trace detection of chloromethane (0.67 µg/L). TPH was also detected at 2,400 which is below the site-specific RBC (10,000 µg/L).

Monitor well Area D-MW2, located downgradient from Area D, was sampled for VOCs, TPH, and 1,4-dioxane. There were no detections of these constituents observed in this monitor well.

Building 158 Monitoring Results

Monitor well B158-MW1 was installed within Building 158 following interim remedial activities to monitor chromium groundwater impacts in Building 158. The sample collected from this well contained a hexavalent chromium concentration (410 mg/L) in excess of the proposed site-specific RBC for hexavalent chromium (23 mg/L) (Table 4).

Monitor well B158-MW2 was installed downgradient of building 158. The groundwater sample from this well contained 0.0119 mg/L for total chromium (which is less than the proposed site-specific RBC) and no detectable hexavalent chromium. These results indicate that chromium impacts have not migrated significantly downgradient.

Building 120 Monitoring Results

The only PCBs detected in on-site monitor wells were collected from monitor well B120-MW2, which is located adjacent to an area of known historic PCB impacts (the 30-inch East SWCS, which was replaced in 1986). This monitor well will continue to be analyzed for PCBs.

Convair Lagoon Vicinity Monitoring Results

Low levels of VOCs have been historically detected at the western monitor well cluster (MWCL-5,-6, and -7). A generally decreasing trend is observed in these VOC concentrations (Table 5, Appendix A). Metals concentrations in the sentry wells will continue to be monitored. Trace PCBs were detected in Convair Lagoon vicinity groundwater samples with concentrations similar to those detected in the laboratory method blank. These concentrations appear to be relatively stable.

Full Scale EISB Monitoring Results

The Full scale EISB monitoring results for the interim remedial actions at the Building 130/166AST/120/121, Building 180, and Former Maintenance Yard AOC are presented in Table 6 and described below.

Building 120 EISB Monitoring Results

After initial increases, significant reductions in total VOC concentrations to below proposed site-specific RBCs were observed in monitor wells B120-MW1, -3, -6, -7, -8, and -9. Strong degradation patterns and elevated ethene concentrations indicate that

complete degradation is occurring. CVOC concentrations will continue to be monitored in this area to confirm ongoing degradation trends.

Based on the data from this sampling event, proposed site-specific RBCs have been met at all monitor wells except in B120-MW2 which still exhibits an exceedance of the proposed RBC for VC (Table 6), though the concentration decreased from 6,000 µg/L during the First Quarter 2010 monitoring event to 600µg/L (790 µg/L for duplicate sample) during the Third Quarter 2010 monitoring event. The concentration of cis-1,2-DCE decreased from 3,000 µg/L during the First Quarter 2010 monitoring event to 350 µg/L (380 µg/L for duplicate sample) during the Third Quarter 2010 monitoring event, which is less than the RBC of 2,400 µg/L. Monitoring and evaluation will continue in future sampling events (Appendix A).

Former Maintenance Yard Results

Complete reductions in total VOC concentrations were observed in monitor well FMY-MW1 following the implementation of the interim action EISB program in October through December 2008. Based on the data from this sampling event, the RBCs continue to be met in the vicinity of the Former Maintenance Yard (Table 6, Appendix A).

Building 180 Results

Complete reductions in total VOC concentrations were observed in monitor well B180-MW2 following the implementation of the interim action EISB program in October through December 2008. Based on the data from this sampling event, proposed RBCs continue to be met in the vicinity of the Building 180 AOC (Table 6, Appendix A).

3. CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations at the Site and near Convair Lagoon ranged from approximately 0.29 to 3.00 ft MSL. Groundwater generally flows in a southerly direction with a hydraulic gradient ranging from 0.0017 to 0.0027 ft/ft. The hydraulic gradient appears to increase in the vicinity of Convair Lagoon.

All VOC concentrations detected within the Convair Lagoon vicinity wells are stable or declining and are currently below the CTRs. These wells will continue to be evaluated for VOC trends. The trace detections of metals in groundwater samples from Convair Lagoon vicinity monitor wells will continue to be monitored.

Groundwater samples collected in the Former Maintenance Yard and Building 180 AOCs indicate that VOC concentration remain below the proposed site-specific RBCs in these areas. Building 130/166AST/120/121 AOC monitor wells sample results exhibited marked reductions in VOC concentrations. All results met the proposed site-specific RBCs, except those for monitor well B120-MW2, which exhibits an exceedance of proposed site-specific RBCs for VC. This well is showing signs of significant VOC degradation and will continued to be evaluated for biodegradation performance.

Sample results from downgradient monitor wells BLD120-MW4 and BLD120-MW5 continue to indicate that COCs from the Building 130/166AST/120/121 AOC have not significantly migrated downgradient.

Proposed site-specific RBCs have been met in all wells in the 131/242 area with the exception of vinyl chloride in B131-MW2 and B131-MW5. VOC results throughout the area will continue to be monitored to determine if additional targeted donor injections are warranted in the future.

VOCs and 1,4-dioxane have not been detected in Area D-MW-1 and VOCs in Area D-MW2 (with the exception of trace concentration of chloromethane in Area D-MW1) for the past six sampling events in Area D-MW1 and the past three sampling event for Area D-MW2. It is recommended that these constituents should be removed from the MRP for these wells.

Concentrations of TPH and 1,4-dioxane in B120-MW6 have been very low to non-detect for over the past six sampling events. Concentrations of these constituents have consistently been below the site specific RBCs and is recommended that these parameters be removed from the MRP.

The 2-year monitoring program associated with the EISB implementation in the Building 130/166AST/120/121 AOC, Former Maintenance Yard, and Building 180 area is concluded with this sampling event. The Former Maintenance Yard and Building 180 AOCs have been consistently below the RBCs for 2 years and it is recommended that monitoring be discontinued in these areas. Further monitoring is recommended elsewhere in the Building 130/166AST/120/121 AOC. It is recommended that B120-MW7, -MW8, and -MW9 be added to the MRP and monitored for VOCs only.

4. REFERENCES

- Geosyntec Consultants, 2005. *Site Characterization Report, 2701 North Harbor Drive, San Diego, California*. December 19, 2005.
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TABLES

Table 1
Groundwater Monitor Well Specifications
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Screened Interval (ft bgs)
AREA D-MW1	11.351	6-16
AREA D-MW2	10.130	6-16
BLD120-MW-1	8.882	10-15*
BLD120-MW-2	8.867	10-15*
BLD120-MW-3	8.776	10-15*
BLD120-MW-4	7.071	5-15
BLD120-MW-5	8.029	5-15
BLD120-MW-6	8.728	5-15
BLD120-MW-7	8.786	5-15
BLD120-MW-8	8.941	5-15
BLD120-MW-9	8.455	6-16
BLD131-MW1	8.995	5-15
BLD131-MW2	9.460	5-15
BLD131-MW2D	9.670	35-40
BLD131-MW3	9.196	5-15
BLD131-MW3D	9.750	35-40
BLD131-MW4	8.916	5-15
BLD131-MW5	10.116	5-15
BLD131-MW6	9.458	5-15
BLD180-MW1	7.887	5-15
BLD180-MW2	8.465	5-15
BLD102-MW4	8.831	12-17*
BLD102-MW5	9.533	10-15*
BLD102-MW6	9.390	10-15*
BLD-156-MW1	9.263	10-15*
BLD158-MW1	9.370	5-15
BLD158-MW2	9.520	5-15
FMY-MW1	8.314	6-16
GT4	8.917	5-15
MWCL-1	8.426	37-42
MWCL-2	8.491	5-15
MWCL-3	9.520	38-43
MWCL-4	9.604	5-15
MWCL-5	11.074	37-42
MWCL-6	10.949	5-15
MWCL-7	11.150	60-65
MWCL-8R	9.150	7-12
P2	9.120	5-15*

MSL - Mean Sea Level

ft bgs - feet below ground surface

NS - Not surveyed at time of report

* - Estimated screened interval

Table 2
Revised Groundwater Sampling Matrix
2701 North Harbor Drive
San Diego, California

Monitoring Well ID	Sampling Frequency	Laboratory Analyses									
		VOCs by EPA Method 8260B	Ethene/ Ethane/ Methane by EPA Method RSK-175M	SVOCs by EPA Method 8270C ML	TPH by EPA Method 8015	PCBs by EPA Method 1668A ^{8,9}	PCBs by EPA Method 8082 ULL ^{7,9}	Dissolved Metals by EPA Method 6010B/7470A ¹⁰	1,4-Dioxane by Modified EPA Method 8270 ²	EISB Sampling Suite ³	Total Chromium/ Hexavalent Chromium
AREA D-MW1	Semi-Annually	-	-	-	X	-	-	-	-	-	-
AREA D-MW2	Semi-Annually	-	-	-	X	-	-	-	-	-	-
BLD102-MW4	Semi-Annually	X	-	-	X	-	-	-	-	-	-
BLD102-MW5	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD102-MW6	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD120-MW1	Semi-Annually	X	X	-	X	-	-	-	X	X	-
BLD120-MW2	Semi-Annually	X(dup)	X	-	X(dup)	-	X ^{5,6} (dup)	-	X(dup)	X	-
BLD120-MW3	Semi-Annually	X	X	-	X	-	X ^{5,6}	-	X	X	-
BLD120-MW4	Semi-Annually	X	-	-	X	-	-	-	X	-	-
BLD120-MW5	Semi-Annually	X	-	-	X	-	-	-	X	-	-
BLD120-MW6	Semi-Annually	X	-	-	-	-	-	-	-	-	-
BLD120-MW7	Semi-Annually	X	-	-	-	-	-	-	-	-	-
BLD120-MW8	Semi-Annually	X	-	-	-	-	-	-	-	-	-
BLD120-MW9	Semi-Annually	X	-	-	-	-	-	-	-	-	-
GT 4	Gauge Only	-	-	-	-	-	-	-	-	-	-
P2	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD131-MW1	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD131-MW2	Semi-Annually	X	X	-	-	-	-	-	X	X	-
BLD131-MW2D	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD131-MW3	Semi-Annually	X	-	-	-	-	-	-	-	-	-
BLD131-MW3D	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD131-MW4	Semi-Annually	X	-	-	-	-	-	-	X	-	-
BLD131-MW5	Semi-Annually	X	X	-	-	-	-	-	X	X	-
BLD131-MW6	Semi-Annually	X	-	-	-	-	-	-	-	-	-
BLD156-MW1	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD158-MW1	Semi-Annually	-	-	-	-	-	-	-	-	-	X
BLD158-MW2	Semi-Annually	-	-	-	-	-	-	-	-	-	X
BLD180-MW1	Gauge Only	-	-	-	-	-	-	-	-	-	-
BLD180-MW2	Gauge Only	-	-	-	-	-	-	-	-	-	-
FMV-MW1	Gauge Only	-	-	-	-	-	-	-	-	-	-
MWCL-1	Semi-Annually	X	-	X	X	-	-	X	X	-	-
MWCL-2	Semi-Annually	X(dup)	-	X(dup)	X(dup)	X ⁴ (dup)	-	X(dup)	X(dup)	-	-
MWCL-3	Semi-Annually	X	-	X	X	-	-	X	X	-	-
MWCL-4	Semi-Annually	X	-	X	X	X ⁴	-	X	X	-	-
MWCL-5	Semi-Annually	X	-	X	X	-	-	X	X	-	-
MWCL-6	Semi-Annually	X	-	X	X	X ⁴	-	X	X	-	-
MWCL-7	Semi-Annually	X	-	X	X	-	-	X	X	-	-
MWCL-8R	Semi-Annually	X	-	X	X	X ⁴	-	X	X	-	-

Equipment B blanks- 1/truck/day
 Trip Blanks- 1/couner pickup
 (dup) - collect a duplicate sample - label as ("sample ID" B)
 VOCs - Volatile Organic Compounds
 SVOCs - Semi-Volatile Organic Compounds
 TPH - Total Petroleum Hydrocarbons
 PCBs - Polychlorinated Biphenyls
 EISB - Enhanced In-situ Bioremediation
 - Analyte not sampled
 Semi-Annual sampling to be conducted in January and July of each year
 1-EISB monitoring program samples (not MRP related)
 2 -Modified EPA Method 8270 using GC/MS isotope dilution to achieve 2 µg/L detection limits
 3- TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids.
 4- PCBs presented as homologs
 5- PCB presented as Aroclors
 6 - PCB Screening Samples (not MRP related)
 7 - Columbia Analytical Services (Kelso, WA)
 8 - Columbia Analytical Services (Houston, TX)
 9 - Laboratory filtered sample (0.01 micron filter)
 10 - Field Filtered
 Change to MRP

Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD120-MW1	8.882	8/30/2006	14.75	6.30	2.58
		1/8/2007	14.75	6.49	2.39
		8/21/2007	14.75	6.59	2.29
		1/21/2008	14.75	6.10	2.78
		7/21/2008	14.75	6.24	2.64
		1/14/2009	14.75	5.05	3.83
		7/20/2009	14.75	5.97	2.91
		1/5/2010	14.75	6.15	2.73
		7/20/2010	14.75	6.05	2.83
		BLD120-MW2	8.867	8/30/2006	13.60
1/8/2007	13.40			6.60	2.27
8/21/2007	13.33			6.72	2.15
1/21/2008	13.33			6.19	2.68
7/21/2008	13.33			6.40	2.47
1/14/2009	13.33			5.34	3.53
7/20/2009	13.33			6.29	2.58
1/5/2010	13.33			6.36	2.51
7/20/2010	13.33			6.31	2.56
BLD120-MW3	8.776			8/30/2006	14.34
		1/8/2007	14.34	6.60	2.18
		8/21/2007	14.35	6.67	2.11
		1/21/2008	14.35	6.30	2.48
		7/21/2008	14.35	6.36	2.42
		1/14/2009	14.35	5.58	3.20
		7/20/2009	14.35	6.34	2.44
		1/5/2010	14.35	3.36	2.42
		7/20/2010	14.35	6.37	2.41
		BLD120-MW4	7.071	8/30/2006	14.55
1/8/2007	14.55			5.22	1.85
8/21/2007	14.55			5.13	1.94
1/21/2008	14.55			4.63	2.44
7/21/2008	14.55			4.80	2.27
1/14/2009	14.55			4.74	2.33
7/20/2009	14.55			5.05	2.02
1/5/2010	14.55			4.99	2.08
7/20/2010	14.55			5.17	1.90
BLD120-MW5	8.029			8/30/2006	15.15
		1/8/2007	15.15	6.05	1.98
		8/21/2007	15.15	5.97	2.06
		1/21/2008	15.15	5.42	2.61
		7/21/2008	15.15	5.33	2.70
		1/14/2009	15.15	5.72	2.31
		7/20/2009	15.15	6.04	1.99
		1/5/2010	15.15	5.81	2.22
		7/20/2010	15.15	6.13	1.90
		BLD120-MW6	8.728	8/30/2006	14.55
1/8/2007	14.55			6.50	2.23
8/21/2007	14.55			6.62	2.11
1/21/2008	14.55			5.99	2.74
7/21/2008	14.55			6.32	2.41
1/14/2009	14.55			5.19	3.54
7/20/2009	14.55			6.09	2.64
1/5/2010	14.55			6.24	2.49
7/20/2010	14.55			6.19	2.54
BLD120-MW7	8.786			1/14/2009	15.05
		7/20/2009	15.05	6.53	2.26
		1/5/2010	15.05	6.66	2.13
		7/20/2010	15.05	6.78	2.01
BLD120-MW8	8.941	1/14/2009	15.22	4.88	4.06
		7/20/2009	15.22	6.00	2.94
		1/5/2010	15.22	5.99	2.95
		7/20/2010	15.22	6.18	2.76
BLD120-MW9	8.455	1/14/2009	15.37	4.62	3.84
		7/20/2009	15.37	5.44	3.02
		1/5/2010	15.37	5.57	2.89
		7/20/2010	15.37	5.46	3.00
BLD131-MW1	8.995	8/30/2006	14.55	6.36	2.64
		1/8/2007	14.55	6.60	2.40
		8/21/2007	14.55	6.55	2.45
		1/21/2008	14.55	6.35	2.65
		7/21/2008	14.55	6.35	2.65
		1/14/2009	14.55	6.30	2.70
		7/20/2009	14.55	6.64	2.36
		1/5/2010	14.55	6.58	2.42
		7/20/2010	14.55	6.47	2.53

Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD131-MW2	9.460	8/30/2006	14.51	6.80	2.66
		1/8/2007	14.51	7.05	2.41
		8/21/2007	14.51	7.00	2.46
		1/21/2008	14.51	6.70	2.76
		7/21/2008	14.51	6.77	2.69
		1/14/2009	14.51	6.66	2.80
		7/20/2009	14.51	7.02	2.44
		1/5/2010	14.51	6.97	2.49
		7/20/2010	14.51	6.87	2.59
		BLD131-MW2D	9.670	8/30/2006	40.08
1/8/2007	40.08			-	-
8/21/2007	40.08			7.80	1.87
1/21/2008	40.08			7.31	3.02
7/21/2008	40.08			7.70	1.97
1/14/2009	40.08			7.14	2.53
7/20/2009	40.08			8.04	1.63
1/5/2010	40.08			7.65	2.02
7/20/2010	40.08			9.54	0.13
BLD131-MW3	9.196			8/30/2006	14.46
		1/8/2007	14.46	6.95	2.25
		8/21/2007	14.46	6.83	2.37
		1/21/2008	14.46	6.65	2.55
		7/21/2008	14.46	6.63	2.57
		1/14/2009	14.46	6.59	2.61
		7/20/2009	14.46	6.93	2.27
		1/5/2010	14.46	6.89	2.31
		7/20/2010	14.46	6.82	2.38
		BLD131-MW3D	9.750	8/30/2006	39.88
1/8/2007	39.88			-	-
8/21/2007	39.88			7.89	1.86
1/21/2008	39.88			7.15	2.60
7/21/2008	39.88			7.52	2.23
1/14/2009	39.88			7.64	2.11
7/20/2009	39.88			8.28	1.47
1/5/2010	39.88			7.77	1.98
7/20/2010	39.88			8.71	1.04
BLD131-MW4	8.916			8/30/2006	13.70
		1/8/2007	13.70	6.70	2.22
		8/21/2007	13.70	6.50	2.42
		1/21/2008	13.70	6.54	2.38
		7/21/2008	13.70	6.33	2.59
		1/14/2009	13.70	6.46	2.46
		7/20/2009	13.70	6.79	2.13
		1/5/2010	13.70	6.65	2.26
		7/20/2010	13.70	6.67	2.25
		BLD131-MW5	10.116	8/30/2006	13.55
1/8/2007	13.55			-	-
8/21/2007	13.55			7.84	2.28
1/21/2008	13.55			7.76	2.36
7/21/2008	13.55			7.70	2.42
1/14/2009	13.55			7.67	2.45
7/20/2009	13.55			7.98	2.14
1/5/2010	13.55			7.91	2.21
7/20/2010	13.55			7.90	2.22
BLD131-MW6	9.458			7/21/2008	15.19
		1/14/2009	15.19	6.88	2.58
		7/20/2009	15.19	7.20	2.26
		1/5/2010	15.19	7.17	2.28
		7/20/2010	15.19	7.09	2.37
BLD180-MW1	7.887	8/30/2006	15.25	6.29	1.60
		1/8/2007	15.25	-	-
		8/21/2007	15.25	6.13	1.76
		1/21/2008	15.25	6.21	1.68
		7/21/2008	15.25	6.26	1.63
	8.125	1/14/2009	15.25	6.40	1.49
		7/20/2009	15.25	6.53	1.60
		1/5/2010	15.25	6.60	1.53
		7/20/2010	15.25	6.70	1.43

Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD180-MW2	8.465	1/14/2009	13.35	6.52	1.95
		7/20/2009	13.35	6.40	2.07
		1/5/2010	13.35	6.76	1.71
		7/20/2010	13.35	6.88	1.59
BLD102-MW4	8.831	8/30/2006	17.80	6.44	2.39
		1/8/2007	17.80	6.65	2.18
		8/21/2007	17.80	6.57	2.26
		1/21/2008	17.80	6.50	2.33
		7/21/2008	17.80	6.27	2.56
		1/14/2009	17.80	6.74	2.09
		7/20/2009	17.80	6.76	2.07
		1/5/2010	17.80	6.77	2.06
		7/20/2010	17.80	6.83	2.00
BLD102-MW5	9.533	8/30/2006	15.18	7.11	2.42
		1/8/2007	15.18	7.40	2.13
		8/21/2007	15.18	7.29	2.24
		1/21/2008	15.18	7.09	2.44
		7/21/2008	15.18	7.02	2.51
		1/14/2009	15.18	6.89	2.64
		7/20/2009	15.18	7.23	2.30
		1/5/2010	15.18	7.19	2.34
		7/20/2010	15.18	7.21	2.32
BLD102-MW6	9.390	7/20/2009	15.25	7.09	2.30
		1/5/2010	15.25	6.98	2.41
		7/20/2010	15.25	7.04	2.35
BLD-156-MW1	9.263	8/30/2006	15.36	6.61	2.65
		1/8/2007	15.36	6.90	2.36
		8/21/2007	15.36	6.87	2.39
		1/21/2008	15.36	6.51	2.75
		7/21/2008	15.36	6.58	2.68
		1/14/2009	15.36	6.43	2.83
		7/20/2009	15.36	6.85	2.41
		1/5/2010	15.36	6.77	2.49
		7/20/2010	15.36	6.64	2.62
MWCL-1	8.426	8/30/2006	42.20	6.55	1.88
		1/8/2007	42.20	6.70	1.73
		8/21/2007	42.20	6.99	1.44
		1/21/2008	42.20	5.99	2.44
		7/21/2008	42.20	6.67	1.76
		1/14/2009	42.20	6.52	1.91
		7/20/2009	42.20	7.00	1.43
		1/5/2010	42.20	6.64	1.79
		7/20/2010	42.20	7.15	1.28
MWCL-2	8.491	8/30/2006	14.18	6.92	1.57
		1/8/2007	14.20	6.90	1.59
		8/21/2007	14.20	7.00	1.49
		1/21/2008	14.20	6.64	1.85
		7/21/2008	14.20	6.59	1.90
		1/14/2009	14.20	6.65	1.84
		7/20/2009	14.20	6.75	1.74
		1/5/2010	14.20	6.46	2.03
		7/20/2010	14.20	7.02	1.47
MWCL-3	9.520	8/30/2006	43.32	8.71	0.81
		1/8/2007	43.40	9.20	0.32
		8/21/2007	43.40	8.99	0.53
		1/21/2008	43.40	8.12	1.40
		7/21/2008	43.40	11.05*	-1.53
		1/14/2009	43.40	8.60	0.92
		7/20/2009	43.40	10.12*	-0.60
		1/5/2010	43.40	8.66	0.86
		7/20/2010	43.40	9.23	0.29

Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)		
MWCL-4	9.604	8/30/2006	14.30	7.90	1.70		
		1/8/2007	14.30	8.05	1.55		
		8/21/2007	14.30	8.13	1.47		
		1/21/2008	14.30	7.83	1.77		
		7/21/2008	14.30	7.86	1.74		
		1/14/2009	14.30	7.98	1.62		
		7/20/2009	14.30	8.15	1.45		
		1/5/2010	14.30	7.90	1.70		
		7/20/2010	14.30	8.34	1.26		
		MWCL-5	11.074	8/30/2006	42.44	10.32	0.75
1/8/2007	42.50			10.60	0.47		
8/21/2007	42.50			10.64	0.43		
1/21/2008	42.50			10.01	1.06		
7/21/2008	42.50			20.07*	-8.99		
1/14/2009	42.50			10.18	0.89		
7/20/2009	42.50			12.80*	-1.73		
1/5/2010	42.50			10.03	1.04		
7/20/2010	42.50			19.76*	-8.69		
MWCL-6	10.949			8/30/2006	14.85	9.84	1.11
		1/8/2007	14.90	10.10	0.85		
		8/21/2007	14.90	10.19	0.76		
		1/21/2008	14.90	8.70	2.25		
		7/21/2008	14.90	9.83	1.12		
		1/14/2009	14.90	9.95	1.00		
		7/20/2009	14.90	9.80	1.15		
		1/5/2010	14.90	9.75	1.20		
		7/20/2010	14.90	10.13	0.82		
		MWCL-7	11.150	1/8/2007	65.00	9.54	1.61
8/21/2007	65.00			9.83	1.32		
1/21/2008	65.00			9.42	1.73		
7/21/2008	65.00			9.34	1.81		
1/14/2009	65.00			9.16	1.99		
7/20/2009	65.00			9.68	1.47		
1/5/2010	65.00			9.99	1.16		
7/20/2010	65.00			10.45	0.70		
MWCL-8R	9.150			7/20/2009	12.19	7.93	1.22
				1/5/2010	12.19	7.77	1.38
		7/20/2010	12.19	8.40	0.75		
GT4	8.917	8/30/2006	15.66	7.09	1.83		
		1/8/2007	15.66	7.48	1.44		
		8/21/2007	15.66	7.31	1.61		
		1/21/2008	15.66	6.96	1.96		
		7/21/2008	15.66	6.91	2.01		
		1/14/2009	15.66	6.84	2.08		
		7/20/2009	15.66	7.02	1.90		
		1/5/2010	15.66	7.04	1.88		
		7/20/2010	15.66	7.11	1.81		
		P2	9.120	7/20/2009	14.83	6.26	2.86
1/5/2010	14.83			6.35	2.77		
7/20/2010	14.83			6.24	2.88		
B158-MW1	9.370	7/21/2008	14.97	6.60	2.77		
		1/14/2009	14.97	6.38	2.99		
		7/20/2009	14.97	6.76	2.61		
		1/5/2010	14.97	6.68	2.69		
		7/20/2010	14.97	6.63	2.74		
B158-MW2	9.520	7/20/2009	16.56	6.84	2.68		
		1/5/2010	16.56	6.70	2.82		
		7/20/2010	16.56	6.75	2.77		
AreaD-MW1	11.351	7/21/2008	16.69	8.41	2.94		
		1/14/2009	16.69	8.25	3.10		
		7/20/2009	16.69	8.59	2.76		
		1/5/2010	16.69	8.55	2.80		
		7/20/2010	16.69	8.42	2.93		
AreaD-MW2	10.13	7/20/2009	15.67	7.36	2.77		
		1/5/2010	15.67	7.33	2.80		
		7/20/2010	15.67	7.23	2.90		
FMY-MW1	8.314	1/14/2009	15.15	6.05	2.26		
		7/20/2009	15.15	6.20	2.11		
		1/5/2010	15.15	6.17	2.14		
		7/20/2010	15.15	6.00	2.31		

Notes:

ft toc = feet below top of casing

ft MSL = feet below Mean Sea Level

" - " = Monitor well not gauged

* - Groundwater elevation artificially low due to pressurized well conditions

Table 4
 Summary of Detected Constituents in On-Site Wells
 2701 North Harbor Drive
 San Diego, California

			AreaD-MW1	AreaD-MW2	BLD102-MW4	BLD120-MW1	BLD120-MW2	BLD120-MW2 (Dup)	BLD120-MW3	BLD120-MW4	BLD120-MW5	BLD120-MW6	BLD120-MW7	BLD120-MW8	BLD120-MW9	BLD131-MW2
	Units	RBC	7/21/2010	7/22/2010	7/23/2010	7/21/2010	7/21/2010	7/21/2010	7/21/2010	7/23/2010	7/23/2010	7/21/2010	7/23/2010	7/22/2010	7/22/2010	7/21/2010
General Chemistry Parameters																
Chloride	mg/L	NE	-	-	-	420 D	160 D	-	800 D	-	-	170 D	1200 D	320 D	280 D	750 D
Nitrate (as N)	mg/L	NE	-	-	-	ND<0.1	ND<0.1	-	ND<0.1	-	-	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Nitrite (as N)	mg/L	NE	-	-	-	ND<0.1	ND<0.1	-	ND<0.1	-	-	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1
Sulfate	mg/L	NE	-	-	-	0.45 J	39	-	0.40 J	-	-	0.82 J	150 D	10	0.63 J	53
Sulfide, Total	mg/L	NE	-	-	-	0.050	0.10	-	ND<0.05	-	-	0.050	0.20	0.80	0.050	0.40
Carbon, Total Organic	mg/L	NE	-	-	-	150	110	-	220	-	-	81	80	69	14	60
Polychlorinated Biphenyls (PCBs)																
Aroclor 1242	ng/L	140	-	-	-	-	43,000	63,000	ND<4.5	-	-	-	-	-	-	-
Aroclor 1260	ng/L	13	-	-	-	-	3,300	5,300	ND<4.5	-	-	-	-	-	-	-
Metals Parameters																
Chromium, Hexavalent	mg/L	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	23,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																
1,1-dichloroethane	µg/L	30,000	ND<1	ND<1	ND<1	ND<1	ND<2	ND<5	ND<1	ND<1	ND<1	ND<1	0.68 J	2.4	ND<1	ND<5
1,2-Dichlorobenzene	µg/L	1,700	ND<1	ND<1	ND<1	ND<1	ND<2	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	2.6 J
1,4-Dichlorobenzene	µg/L	5,300	ND<1	ND<1	ND<1	ND<1	ND<2	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	7.3
Benzene	µg/L	1,500	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.43 J	ND<0.5	ND<0.5	ND<2.5
Carbon Disulfide	µg/L	48,000	ND<10	ND<10	ND<10	ND<10	ND<20	ND<50	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
Chlorobenzene	µg/L	7,800	ND<1	ND<1	ND<1	ND<1	ND<2	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<5
Chloroethane	µg/L	47,000	ND<5	ND<5	ND<5	3.5 J	7.7 J	10 J	2.7 J	ND<5	ND<5	2.4 J	18	ND<5	2.6 J	ND<25
Chloromethane	µg/L	4,500	0.67 J	ND<10	0.63 J	0.62 J	1.3 J	ND<50	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	0.78 J	ND<50
cis-1,2-Dichloroethene	µg/L	2,400	ND<1	ND<1	0.74 J	1.2	350	380	0.72 J	1.9	1.3	1.0	0.63 J	6.3	0.67 J	350
Tetrachloroethene (PCE)	µg/L	320	ND<1	ND<1	ND<1	ND<1	11	12	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<5
Toluene	µg/L	20,000	ND<1	ND<1	ND<1	ND<1	ND<2	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	0.47 J	1.7 J
trans-1,2-Dichloroethene	µg/L	4,800	ND<1	ND<1	ND<1	ND<1	6.2	6.8	0.73 J	ND<1	ND<1	ND<1	2.7	1.1	ND<1	5.6
Trichloroethene (TCE)	µg/L	260	ND<1	ND<1	ND<1	ND<1	3.6	4.1 J	0.84 J	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	4.8 J
Vinyl Chloride	µg/L	500	ND<0.5	ND<0.5	7.6	4.3	600	790	1.7	ND<0.5	ND<0.5	4.5	3.2	7.2	ND<0.5	670
Semi Volatile Organic Compounds																
1,4-Dioxane	µg/L	910,000	-	ND<2	-	570 D	23	22	690 D	ND<2	ND<2	5.3	-	-	-	4.6
Total Petroleum Hydrocarbons (TPH)																
C6-C44 Total	µg/L	10,000	2400	ND<500	ND<500	ND<500	ND<500	ND<500	910	ND<500	ND<500	ND<500	-	-	-	-
Organic Acids																
Acetic Acid	mg/L	NE	-	-	-	9.2	3.3	-	7.8	-	-	ND<1	ND<1	ND<1	6.4	ND<1
Dissolved Organic Gases																
Ethane	µg/L	NE	-	-	-	0.160 J	0.310 J	-	0.150 J	-	-	0.200 J	1.13	8.41	0.0900 J	4.30
Ethene	µg/L	NE	-	-	-	38.6	300	-	2.35	-	-	4.00	35.0	15.1	0.810 J	72.4
Methane	µg/L	NE	-	-	-	5340	7700	-	4740	-	-	7880	6750	7930	5810	10800

Notes:
 ND< - Not detected at concentrations greater than or equal to the laboratory reporting limit (RL)
 D - reported value from a dilution and the reporting limit
 J - reported value is between the analytical method detection limit
 mg/L - milligrams per liter
 µg/L - micrograms per liter
 ng/L - nanograms per liter
 pg/L - picograms per liter
 "-" - Not Analyzed
 NE - Not Established
 RBC- Risk Based Concentrations

Table 4
 Summary of Detected Constituents in On-Site Wells
 2701 North Harbor Drive
 San Diego, California

	Units	RBC	BLD131-MW3 7/21/2010	BLD131-MW4 7/23/2010	BLD131-MW5 7/23/2010	BLD131-MW6 7/21/2010	BLD158-MW1 7/21/2010	BLD158-MW2 7/21/2010	FMY-MW1 7/22/2010	B180-MW2 7/22/2010
General Chemistry Parameters										
Chloride	mg/L	NE	630 D	-	670 D	750 D	-	-	-	-
Nitrate (as N)	mg/L	NE	ND<0.1	-	ND<0.1	ND<0.1	-	-	-	-
Nitrite (as N)	mg/L	NE	ND<0.1	-	ND<0.1	ND<0.1	-	-	-	-
Sulfate	mg/L	NE	16	-	150 D	0.16 J	-	-	-	-
Sulfide, Total	mg/L	NE	0.30	-	ND<0.05	0.20	-	-	-	-
Carbon, Total Organic	mg/L	NE	38	-	74	87	-	-	-	-
Polychlorinated Biphenyls (PCBs)										
Aroclor 1242	ng/L	140	-	-	-	-	-	-	-	-
Aroclor 1260	ng/L	13	-	-	-	-	-	-	-	-
Metals Parameters										
Chromium, Hexavalent	mg/L	23	-	-	-	-	410	ND<0.02	-	-
Chromium	mg/L	23,000	-	-	-	-	425	0.0119	-	-
Volatile Organic Compounds										
1,1-dichloroethane	µg/L	30,000	ND<1	ND<1	ND<10	ND<1	-	-	ND<1	ND<1
1,2-Dichlorobenzene	µg/L	1,700	ND<1	ND<1	ND<10	0.44 J	-	-	ND<1	ND<1
1,4-Dichlorobenzene	µg/L	5,300	1.6	ND<1	ND<10	2.6	-	-	ND<1	ND<1
Benzene	µg/L	1,500	2.0	ND<0.5	15	7.4	-	-	ND<0.5	0.41 J
Carbon Disulfide	µg/L	48,000	ND<10	ND<10	ND<100	ND<10	-	-	ND<10	2.5 J
Chlorobenzene	µg/L	7,800	ND<1	ND<1	ND<10	1.3	-	-	ND<1	ND<1
Chloroethane	µg/L	47,000	ND<5	ND<5	ND<50	ND<5	-	-	ND<5	ND<5
Chloromethane	µg/L	4,500	ND<10	0.65 J	ND<100	0.67 J	-	-	0.81 J	ND<10
cis-1,2-Dichloroethene	µg/L	2,400	1.1	9.9	ND<10	ND<1	-	-	0.67 J	ND<1
Tetrachloroethene (PCE)	µg/L	320	ND<1	ND<1	ND<10	ND<1	-	-	ND<1	ND<1
Toluene	µg/L	20,000	ND<1	ND<1	ND<10	0.56 J	-	-	ND<10	ND<10
trans-1,2-Dichloroethene	µg/L	4,800	ND<1	ND<1	7.6 J	ND<1	-	-	0.44 J	1.6
Trichloroethene (TCE)	µg/L	260	ND<1	ND<1	ND<10	ND<1	-	-	ND<1	ND<1
Vinyl Chloride	µg/L	500	2.6	7.2	1200	0.76	-	-	1.9	1.9
Semi Volatile Organic Compounds										
1,4-Dioxane	µg/L	910,000	62	1.9 J	300	27	-	-	-	-
Total Petroleum Hydrocarbons (TPH)										
C6-C44 Total	µg/L	10,000	-	-	-	-	-	-	-	-
Organic Acids										
Acetic Acid	mg/L	NE	ND<1	-	ND<1	ND<1	-	-	-	-
Dissolved Organic Gases										
Ethane	µg/L	NE	5.92	-	48.4	12.6	-	-	0.15	0.12
Ethene	µg/L	NE	4.27	-	46.3	3.64	-	-	0.25	2.51
Methane	µg/L	NE	6680	-	4670	8150	-	-	7170	6700

Notes:
 ND< - Not detected at concentrations greater than or equal to the laboratory reporting limit (RL)
 D - reported value from a dilution and the reporting limit
 J - reported value is between the analytical method detection limit
 mg/L - milligrams per liter
 µg/L - micrograms per liter
 ng/L - nanograms per liter
 pg/L - picograms per liter
 "-" - Not Analyzed
 NE - Not Established
 RBC- Risk Based Concentrations

Table 5
 Summary of Detected Constituents in Off-Site Wells
 2701 North Harbor Drive
 San Diego, California

	Units	Background	CTR		MWCL-1	MWCL-2	MWCL-2 (Dup)	MWCL-3	MWCL-4	MWCL-5	MWCL-6	MWCL-7	MWCL-8
			Marine	Human Health	7/22/2010	7/22/2010	7/22/2010	7/23/2010	7/23/2010	7/22/2010	7/22/2010	7/22/2010	7/22/2010
Polychlorinated Biphenyls (PCBs)													
Dichlorobiphenyl	ng/L	NE	NE	NE	-	8.24 B	6.14 B	-	2.85 B	-	5.9 B	-	5.39 B
Trichlorobiphenyl	ng/L	NE	NE	NE	-	3.7 B	ND<2.4	-	ND<2.45	-	2.31 B	-	ND<2.36
Tetrachlorobiphenyl	ng/L	NE	NE	NE	-	3.94 B	ND<2.4	-	ND<2.45	-	ND<2.31	-	ND<2.36
Total PCBs	ng/L	NE	30	0.17	-	15.88 B	6.14 B	-	2.85 B	-	8.21 B	-	5.39 B
Metals Parameters													
Arsenic	mg/L	NE	0.036	NE	ND<0.00611	ND<0.00611	ND<0.00611	0.0102	ND<0.00611	ND<0.0305	ND<0.00611	ND<0.0305	ND<0.00611
Barium	mg/L	0.49	NE	NE	0.0626	0.0769	0.0733	0.0512	0.0536	0.0370 J	0.0478	0.0545	0.0434
Cobalt	mg/L	0.04	NE	NE	0.00596 J	ND<0.00441	ND<0.00441	ND<0.00441	ND<0.00441	ND<0.0221	ND<0.00441	ND<0.0221	ND<0.00441
Copper	mg/L	NE	0.0031	NE	ND<0.00105	0.00162	0.00157	0.00248 J	0.000852 J	0.00951 J	0.00127	0.00446 J	0.00147
Molybdenum	mg/L	0.046	NE	NE	0.00952 J	0.0112	0.0100	ND<0.00429	0.00935 J	ND<0.0214	0.00434 J	ND<0.0214	0.00804 J
Selenium	mg/L	0.63	0.071	NE	ND<0.0107	ND<0.0107	ND<0.0107	0.0268	ND<0.0107	ND<0.0535	0.0134 J	ND<0.0535	ND<0.0107
Zinc	mg/L	0.069	0.081	NE	ND<0.00666	0.0141	0.0141	0.0107	0.00880 J	ND<0.0333	0.0220	ND<0.0333	0.00742 J
Volatile Organic Compounds													
1,1-dichloroethane	µg/L	NE	NE	NE	0.58 J	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
cis-1,2-Dichloroethene	µg/L	NE	NE	NE	ND<1	ND<1	ND<1	ND<1	ND<1	32	ND<1	0.64 J	ND<1
Trichloroethene (TCE)	µg/L	NE	NE	NE	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	3.6	ND<1
Semi Volatile Organic Compounds													
Bis(2-Ethylhexyl) Phthalate	µg/L	NE	1.8	5.9	1.4 J	ND<5	ND<5	ND<5	ND<5	0.44 J	ND<5	ND<5	ND<5
1,4-Dioxane	µg/L	NE	NE	NE	8.6	ND<2	ND<2	ND<2	ND<2	2.5	3.4	9.0	ND<2
Total Petroleum Hydrocarbons (TPH)													
C6-C44 Total	µg/L	NE	NE	NE	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500	ND<500

Notes:

ND<- Not detected at concentrations greater than or equal to the laboratory reporting limit (RL)

J - reported value is between the analytical method detection limit and the RL

B - Method Blank Contamination

mg/L - milligrams per liter

µg/L - micrograms per liter

ng/L - nanograms per liter

"-" - Not Analyzed

NE - Not Established

** - CTR values are provided for reference although surface water screening criteria may not be appropriate for direct comparison to groundwater values

RBC- Risk Based Concentrations

Table 6
Summary of Detected Constituents in Full Scale EISB Treatment Area
2701 North Harbor Drive
San Diego, California

	Units	RBC	BLD120-MW1	BLD120-MW2	BLD120-MW3	BLD120-MW6	BLD120-MW7	BLD120-MW8	BLD120-MW9	BLD180-MW2	FMY-MW1
			7/21/2010	7/21/2010	7/21/2010	7/21/2010	7/23/2010	7/22/2010	7/22/2010	7/22/2010	7/22/2010
General Chemistry Parameters											
Chloride	mg/L	NE	420 D	160 D	800 D	170 D	1200 D	320 D	280 D	-	-
Nitrate (as N)	mg/L	NE	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	-	-
Nitrite (as N)	mg/L	NE	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	-	-
Sulfate	mg/L	NE	0.45 J	39	0.40 J	0.82 J	150 D	10	0.63 J	-	-
Sulfide, Total	mg/L	NE	0.050	0.10	ND<0.05	0.050	0.20	0.80	0.050	-	-
Carbon, Total Organic	mg/L	NE	150	110	220	81	80	69	14	-	-
Volatile Organic Compounds											
1,1-dichloroethane	µg/L	30,000	ND<1	ND<2	ND<1	ND<1	0.68 J	2.4	ND<1	ND<1	ND<1
1,2,4-Trimethylbenzene	µg/L	1,100	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
1,2-Dichlorobenzene	µg/L	1,700	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
1,3-Dichlorobenzene	µg/L	4,800	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
1,4-Dichlorobenzene	µg/L	5,300	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Acetone	µg/L	430,000	ND<50	ND<100	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene	µg/L	1,500	ND<0.5	ND<1	ND<0.5	ND<0.5	0.43 J	ND<0.5	ND<0.5	0.41 J	ND<0.5
Bromodichloromethane	µg/L	8,600	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Chlorobenzene	µg/L	7,800	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Chloroethane	µg/L	47,000	3.5 J	10 J	2.7 J	2.4 J	18	ND<5	2.6 J	ND<5	ND<5
Chloroform	µg/L	15,000	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Chloromethane	µg/L	4,500	0.62 J	1.3 J	ND<10	ND<10	ND<10	ND<10	0.78 J	ND<10	0.81 J
cis-1,2-Dichloroethene	µg/L	2,400	1.2	380	0.72 J	1.0	0.63 J	6.3	0.67 J	ND<1	0.67 J
Tetrachloroethene (PCE)	µg/L	320	ND<1	12	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Toluene	µg/L	20,000	ND<1	ND<2	ND<1	ND<1	ND<1	ND<1	0.47 J	ND<1	ND<1
trans-1,2-Dichloroethene	µg/L	4,800	ND<1	6.8	0.73 J	ND<1	2.7	1.1	0.73 J	1.6	0.44 J
Trichloroethene (TCE)	µg/L	260	ND<1	4.1 J	0.84 J	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Vinyl Chloride	µg/L	500	4.3	790	1.7	4.5	3.2	7.2	ND<0.5	1.9	1.9
Semi Volatile Organic Compounds											
1,4-Dioxane	µg/L	910,000	570 D	23	690 D	5.3	-	-	-	-	-
Total Petroleum Hydrocarbons (TPH)											
C6-C44 Total	µg/L		ND<500	ND<500	910	ND<500	-	-	-	-	-
Organic Acids											
Acetic Acid	mg/L	NE	9.2	3.3	7.8	ND<1	ND<1	ND<1	6.4	-	-
Butyric Acid	mg/L	NE	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
Propionic Acid	mg/L	NE	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	-	-
Dissolved Organic Gases											
Ethane	µg/L	NE	0.160 J	0.310 J	0.150 J	0.200 J	1.13	8.41	0.0900 J	0.120 J	0.150 J
Ethene	µg/L	NE	38.6	300	2.35	4.00	35.0	15.1	0.810 J	2.51	0.250 J
Methane	µg/L	NE	5340	7700	4740	7880	6750	7930	5810	6700	7170

Notes:

ND<- Not detected at concentrations greater than or equal to the laboratory detection limit (DL)

D - reported value from a dilution

J - reported value is between the analytical method detection

limit and the reporting limit

mg/L - milligrams per liter

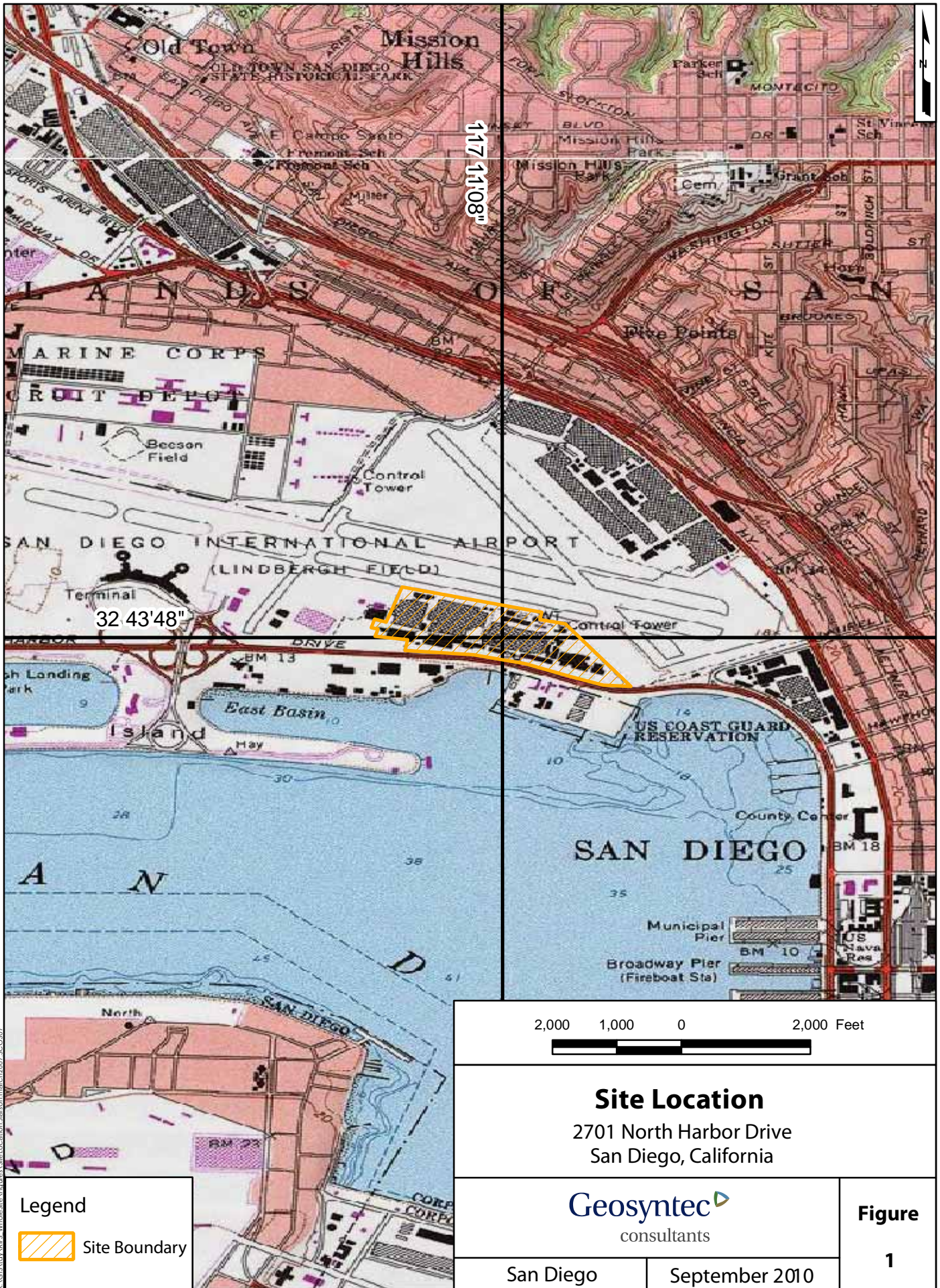
µg/L - micrograms per liter

" -" - Not Analyzed

NE - Not Established

RBC- Risk Based Concentrations

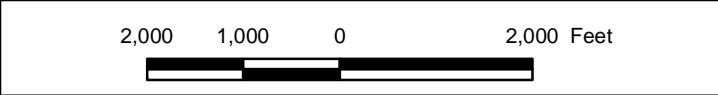
FIGURES



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Legend

 Site Boundary

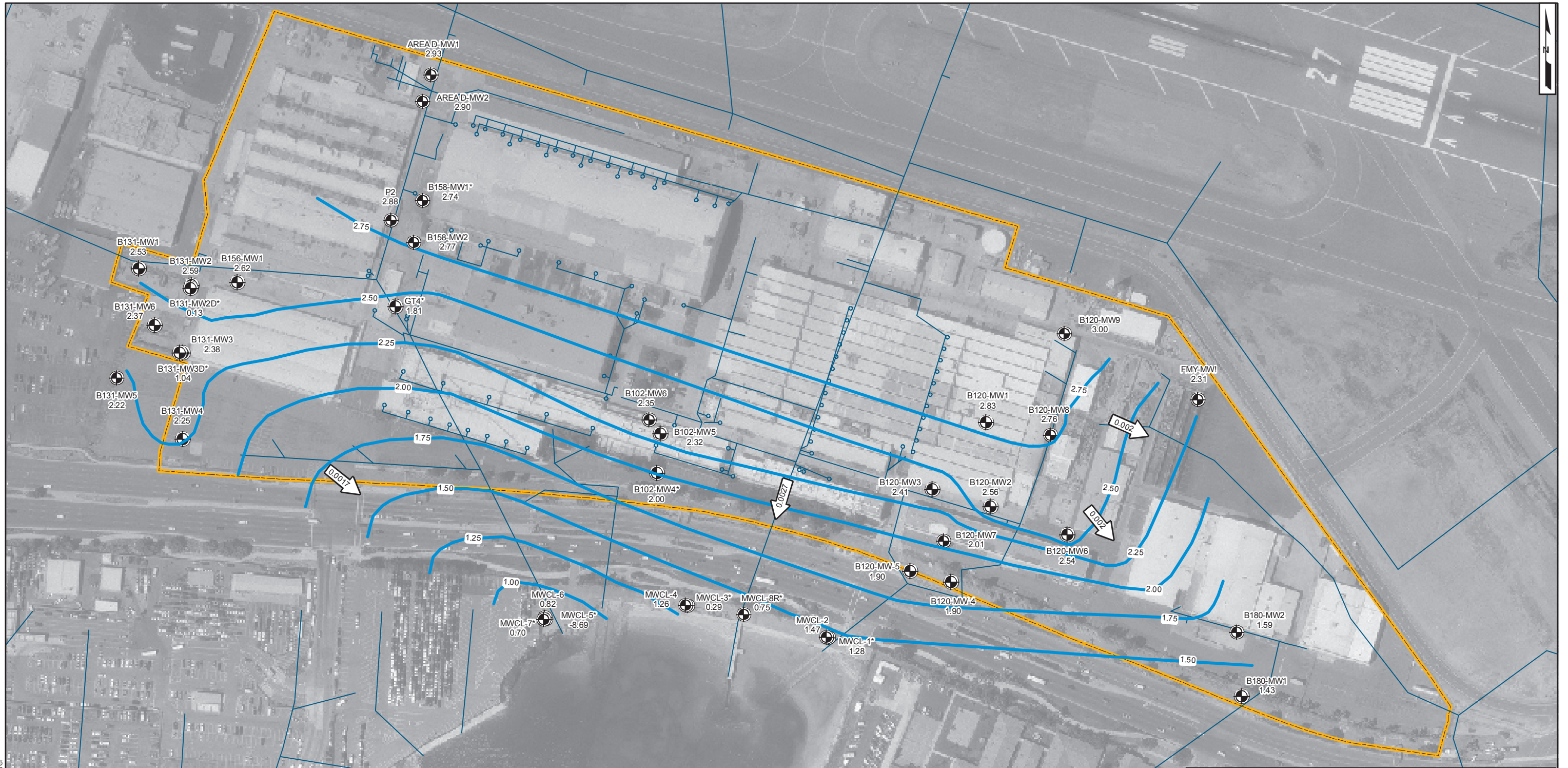


Site Location
 2701 North Harbor Drive
 San Diego, California

Geosyntec
 consultants

San Diego September 2010

Figure
 1



X:\GIS\tdy\FIG1_3Q08_gw_flow.mxd\SC0307091_608_client.dwg

Legend

- Monitor Well With Groundwater (Elevation in Feet Above Mean Sea Level)
- Approximate Groundwater Flow Direction and Hydraulic Gradient (Ft/Ft)
- Groundwater Elevation Contour (Contour Interval 0.25 Feet)
- Storm Water Conveyance System
- Site Boundary

* - Well not used in groundwater contouring
 Water levels gauged on 20 July 2010 from 9:30 AM to 11:30 AM

200 100 0 200 Feet

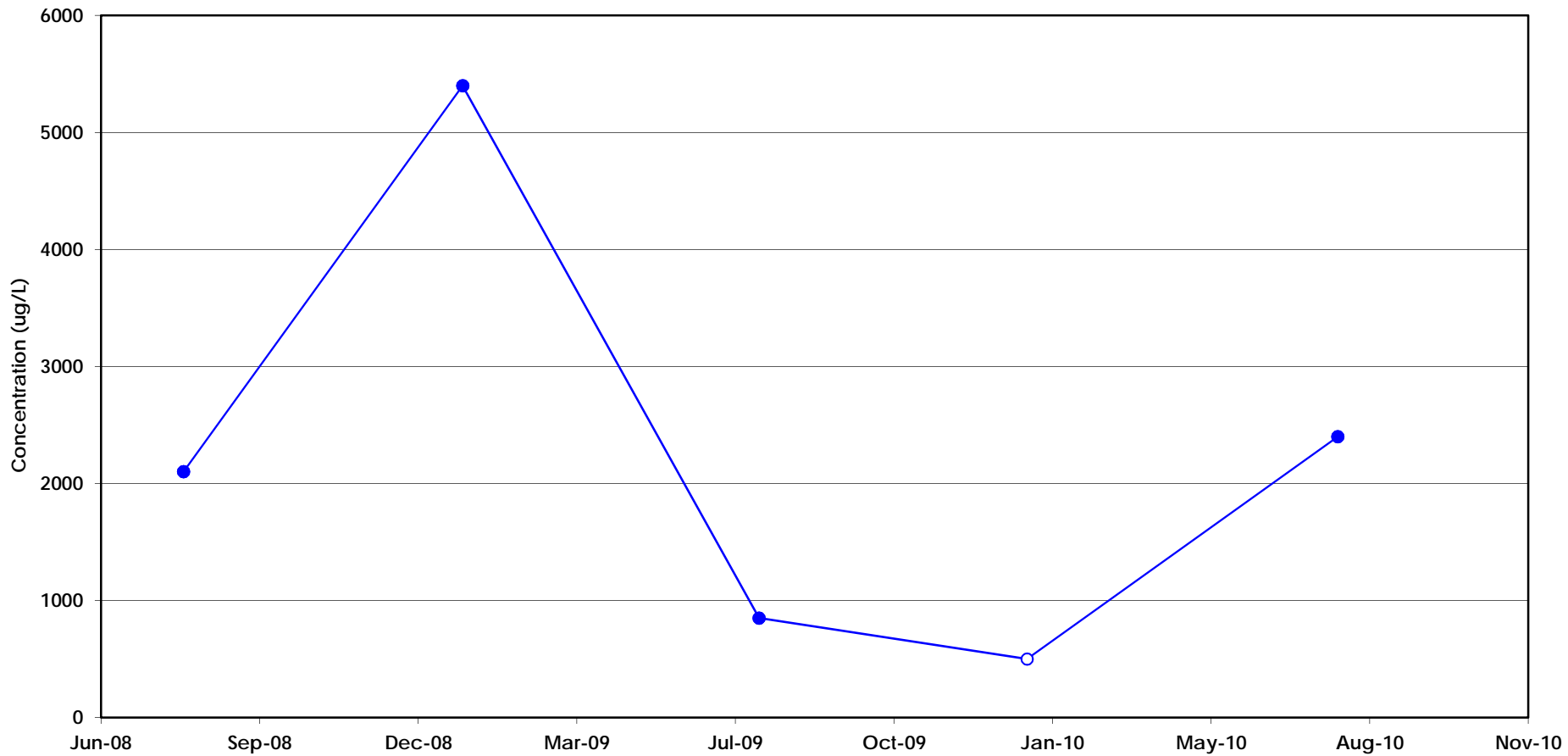
Groundwater Elevations and Flow Direction
 2701 North Harbor Drive
 San Diego, California

Geosyntec
 consultants

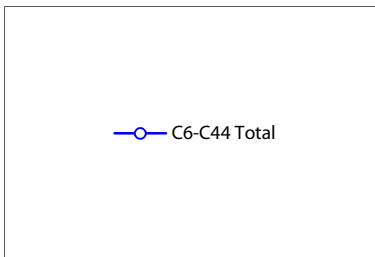
San Diego	September 2010
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Figure
2

APPENDIX A
MRP Time Series Plots



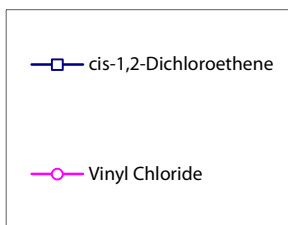
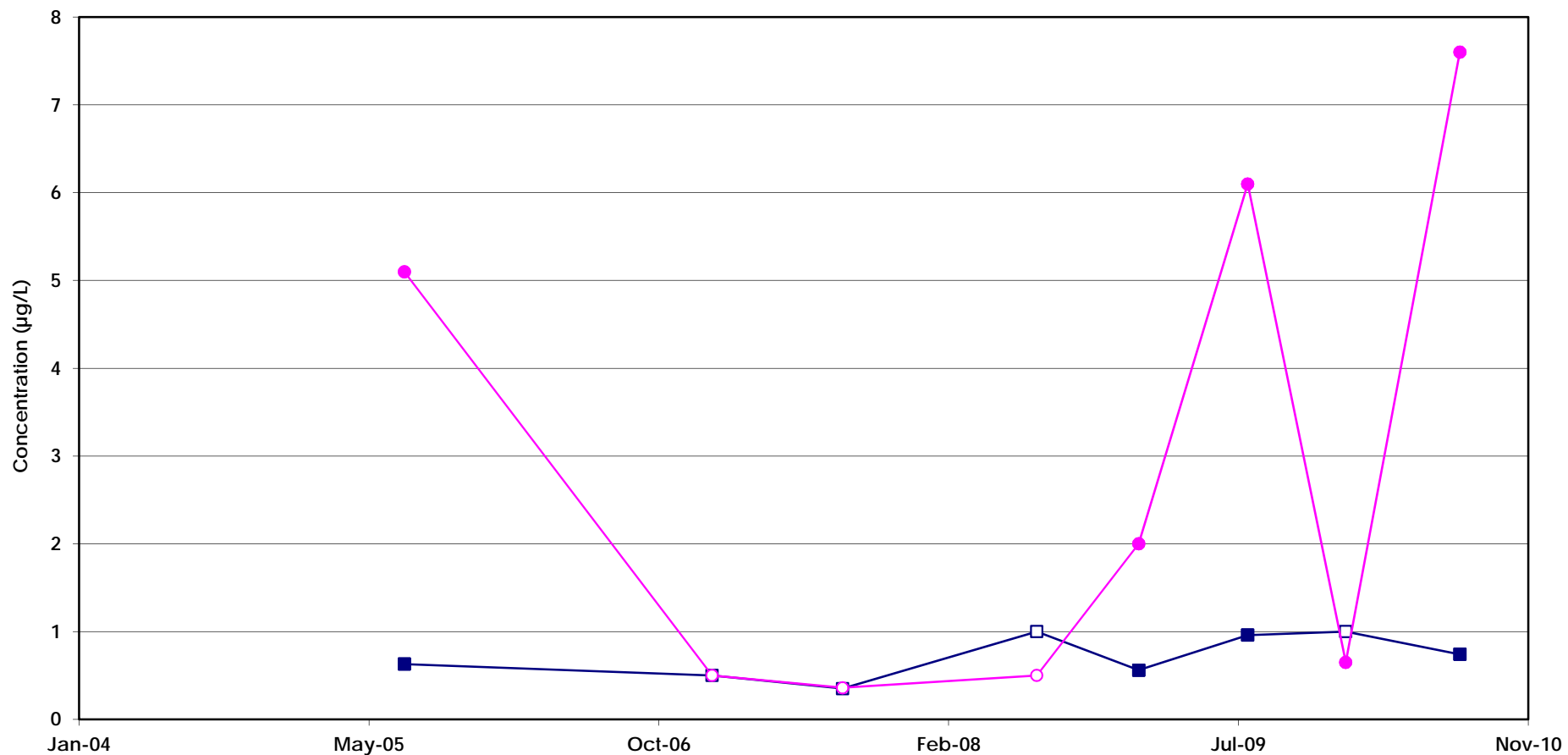
C:\Users\epstein\Desktop\TBY_9_1_2010\43\Pool_Metals_MW\CL-1



Open symbols represent non-detects (plotted at the method detection limit)

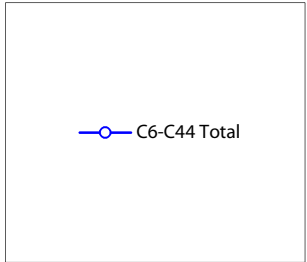
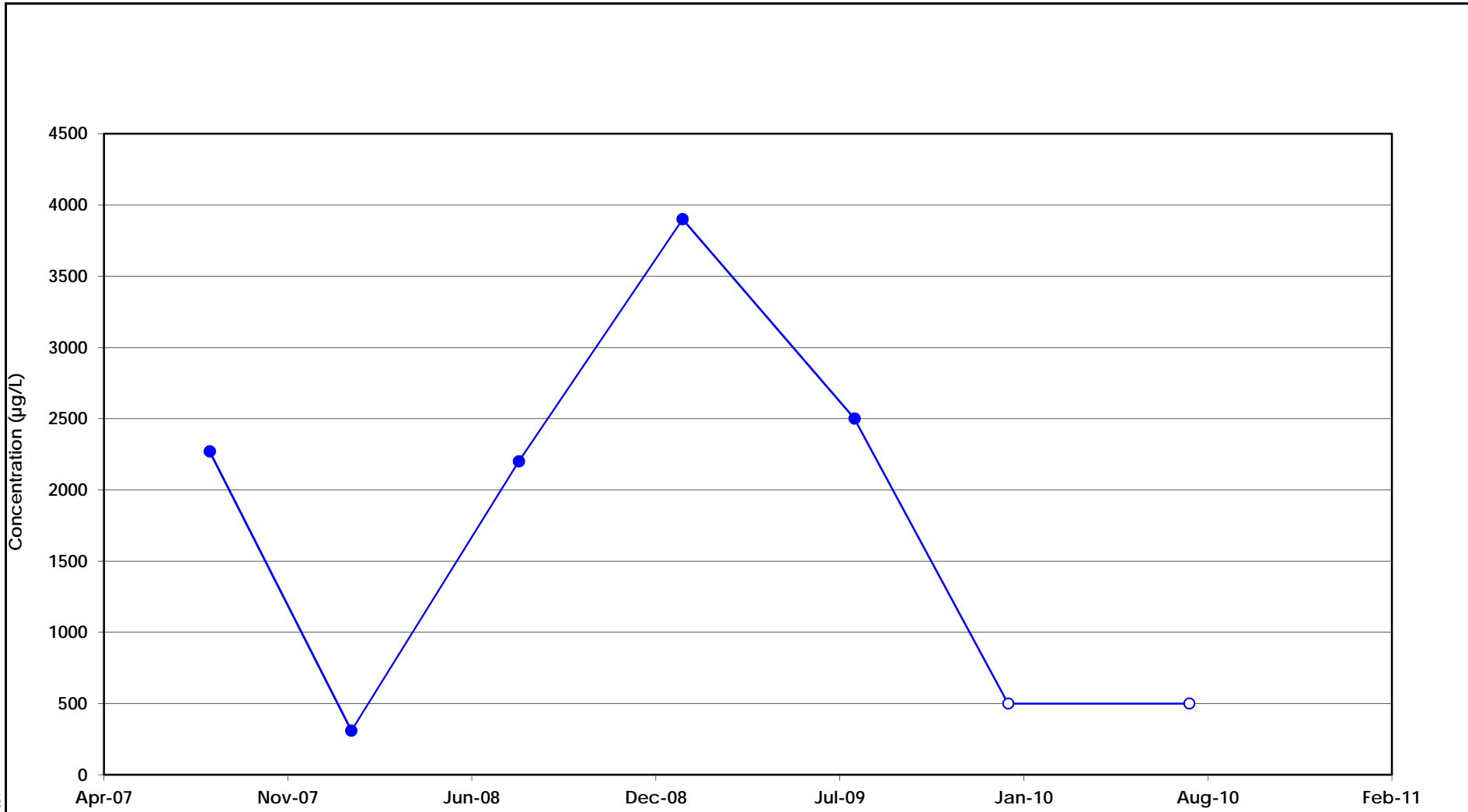
<p>Monitor Well TPH Time-Series Graph for AreaD-MW1 2701 North Harbor Drive San Diego, California</p>	
<p>Geosyntec consultants</p>	
San Diego	October 2010
<p>Figure A-1</p>	

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Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD102-MW4 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
Geosyntec consultants	
San Diego	October 2010
Figure A-2	



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW1
Time-Series Graph for TPH
 2701 North Harbor Drive
 San Diego, California

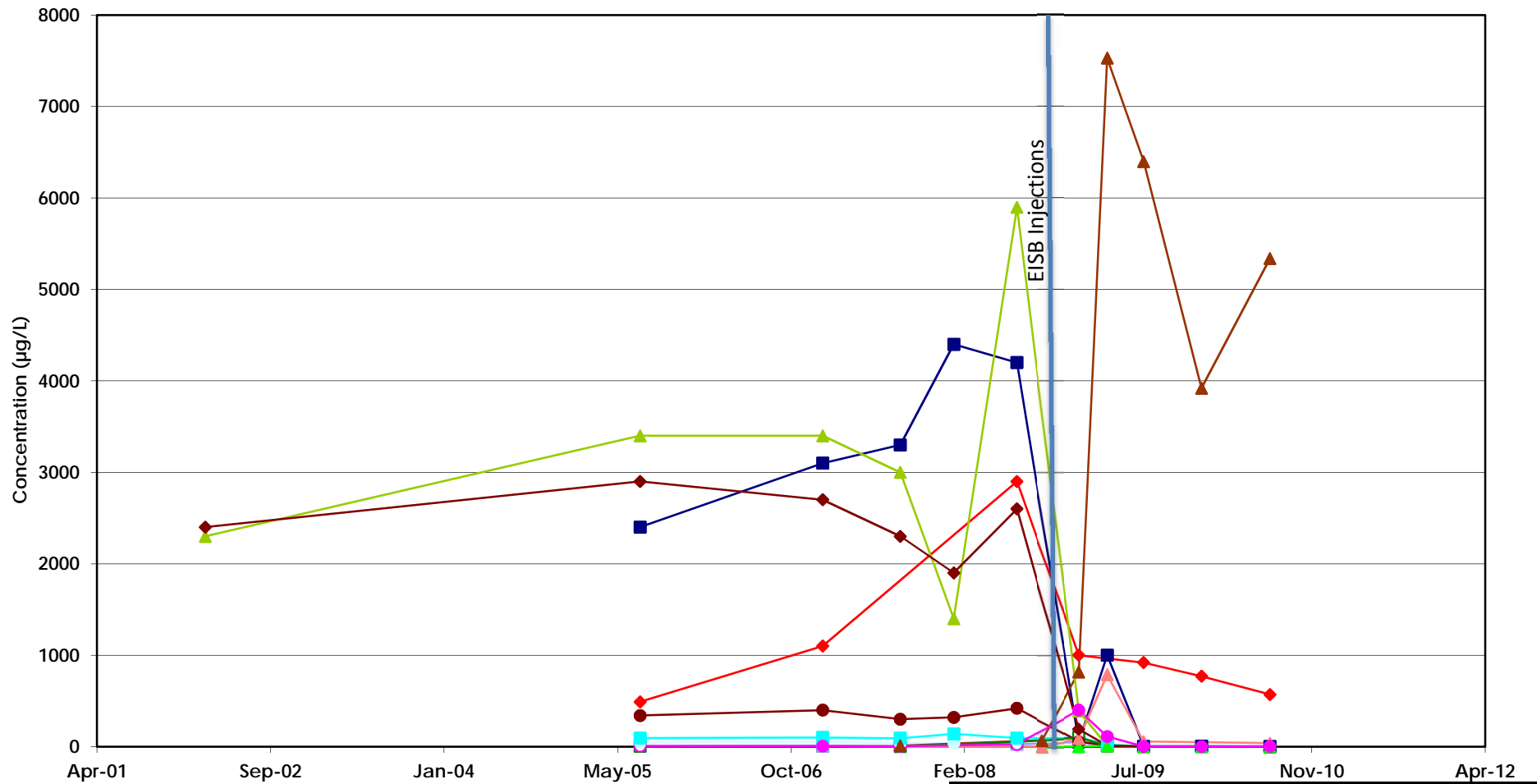


Figure
A-3

San Diego


October 2010

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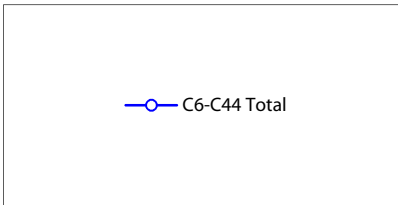
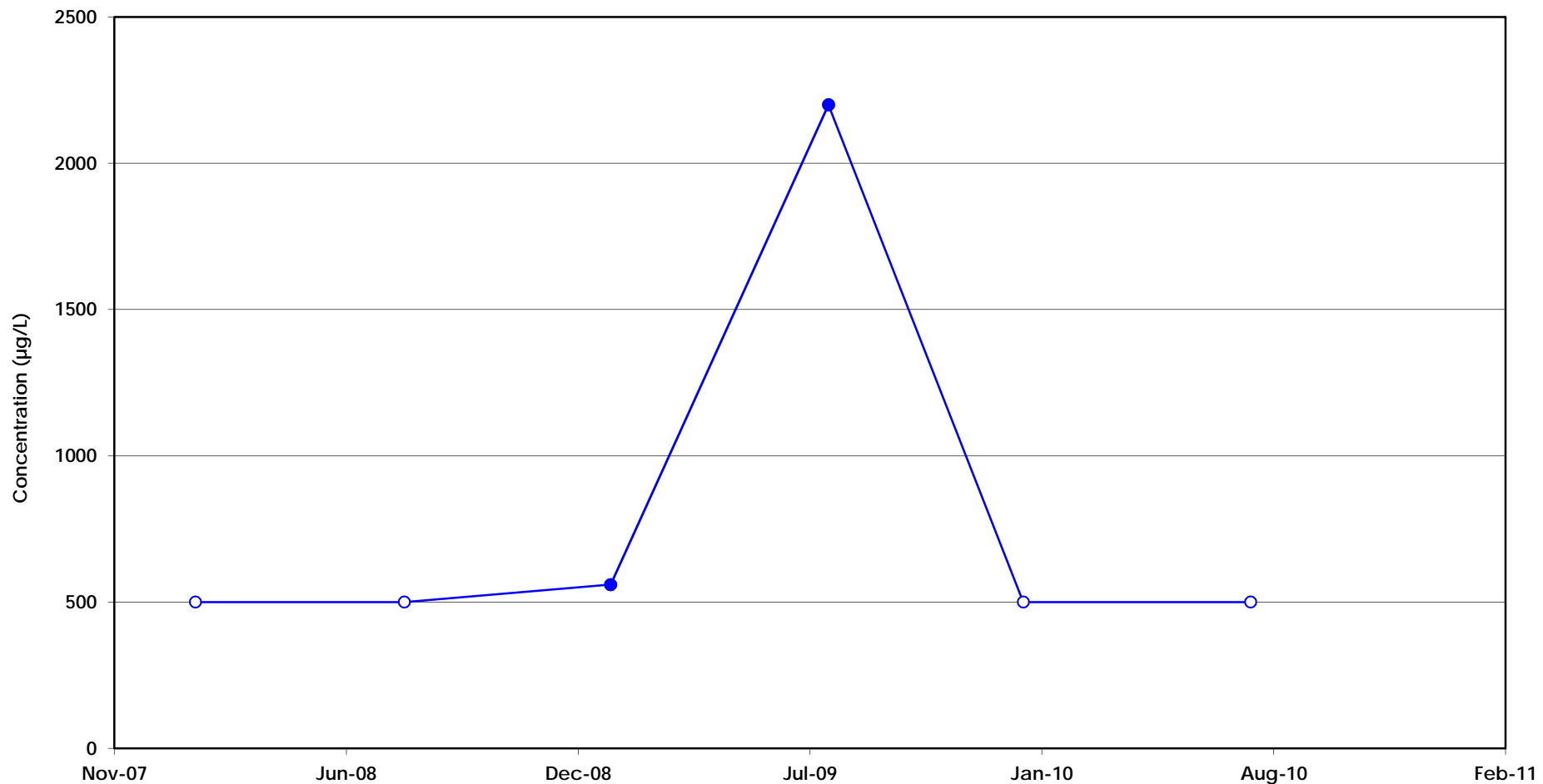


- 1,1-Dichloroethane (1,1-DCA)
- trans-1,2-Dichloroethene
- 1,1-Dichloroethane (1,1-DCE)
- △ Ethane
- △ Methane
- 1,1,2-Trichloroethane
- Vinyl chloride
- 1,2-Dichloroethane (EDC)
- cis-1,2-Dichloroethene
- ◇ 1,4-Dioxane
- △ Ethene
- ◇ Tetrachloroethene (PCE)
- ◇ Trichloroethene (TCE)

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW1 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
	
San Diego	October 2010
Figure A-4	

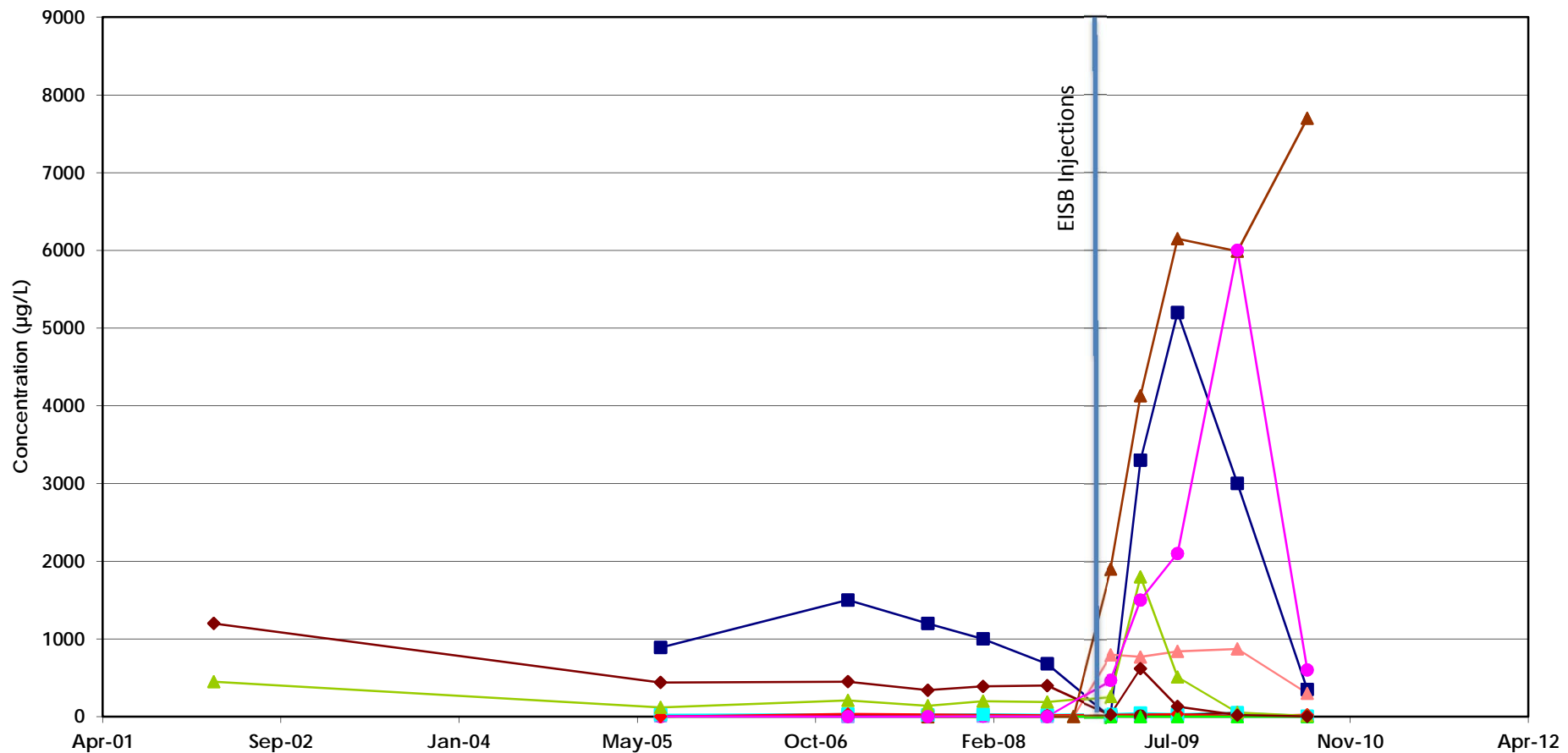
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Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW2 Time-Series Graph for TPH 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-5	

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- 1,2-Dichloroethane (EDC)
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- 1,1-Dichloroethene (1,1-DCE)
- 1,4-Dioxane
- Ethane
- Ethene
- Methane
- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW2 Time-Series Graph for VOCs

2701 North Harbor Drive
San Diego, California

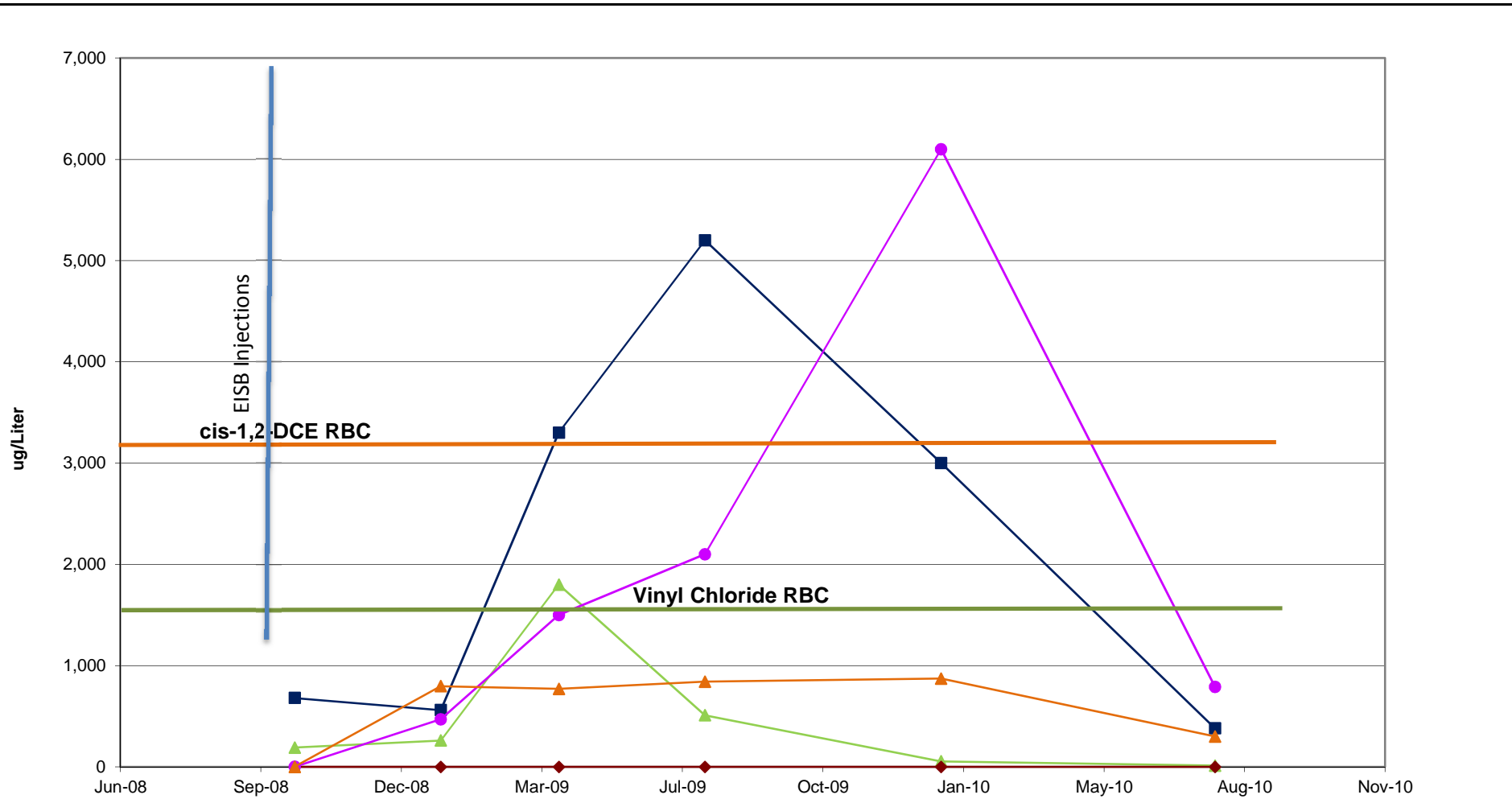


San Diego

October 2010

Figure

A-6



- ▲ PCE
- ◆ TCE
- cis-1,2-DCE
- Vinyl Chloride
- ▲ Ethene

Recent Time Trend Analysis of EISB Implementation for Select VOCs B120-MW2
 2701 North Harbor Drive
 San Diego, California



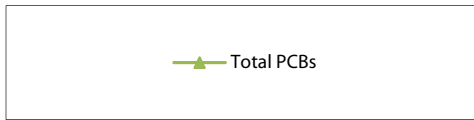
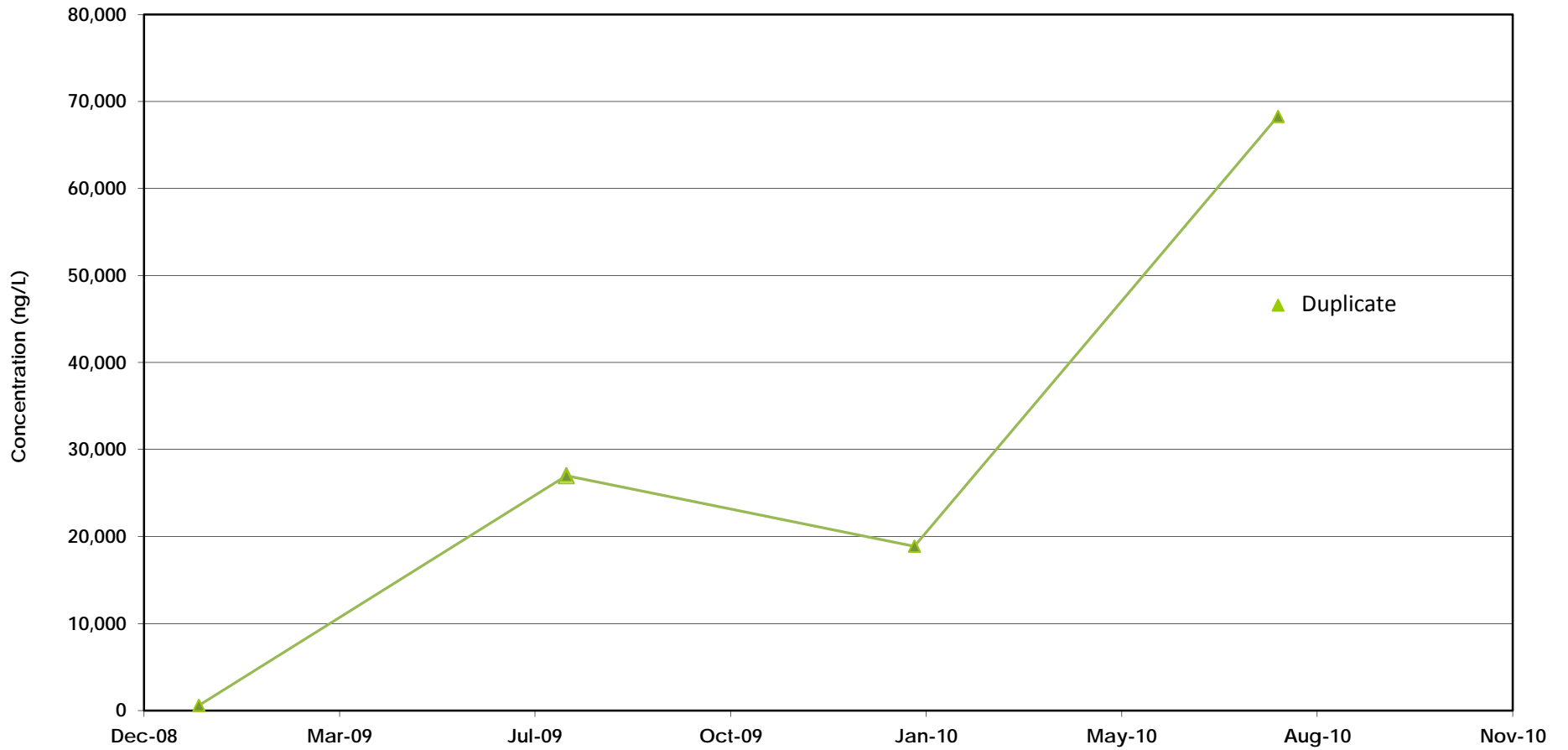
San Diego

October 2010

Figure
A- 6a

C:\Users\lepstein\Documents\9E29FD00.xls\BID131_MW2_EISB

X:\SC0307 TDY Harbor Drive\Well Monitoring & Abandonment\Monitoring_Report\3010\TDY_9_1_2010_ISPS.xls\TotalPCBs



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW2 Time-Series Graph for PCBs

2701 North Harbor Drive
San Diego, California

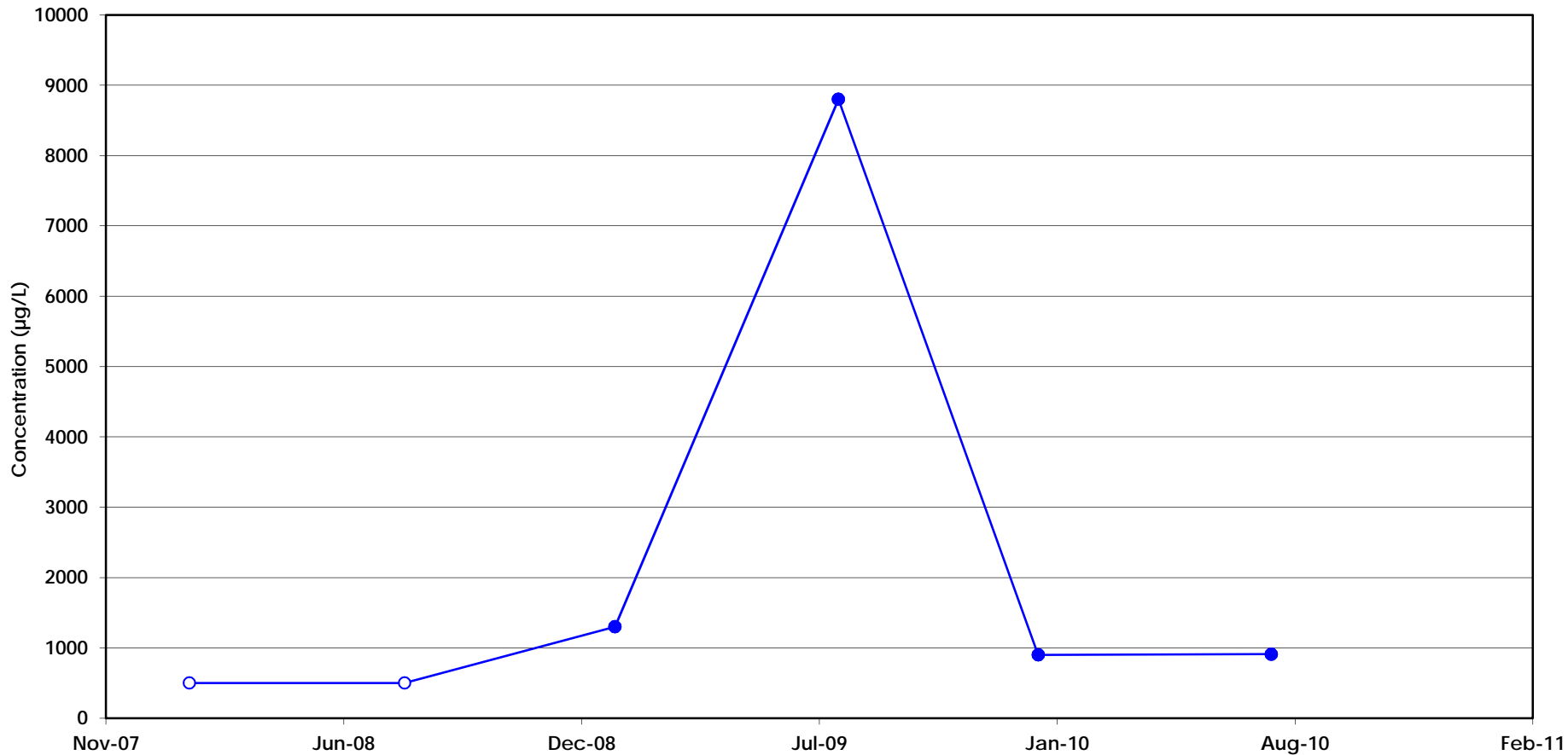
Geosyntec
consultants

San Diego

October 2010

Figure

A-7



—○ C6-C44 Total

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW3
Time-Series Graph for TPH
 2701 North Harbor Drive
 San Diego, California

Geosyntec
 consultants

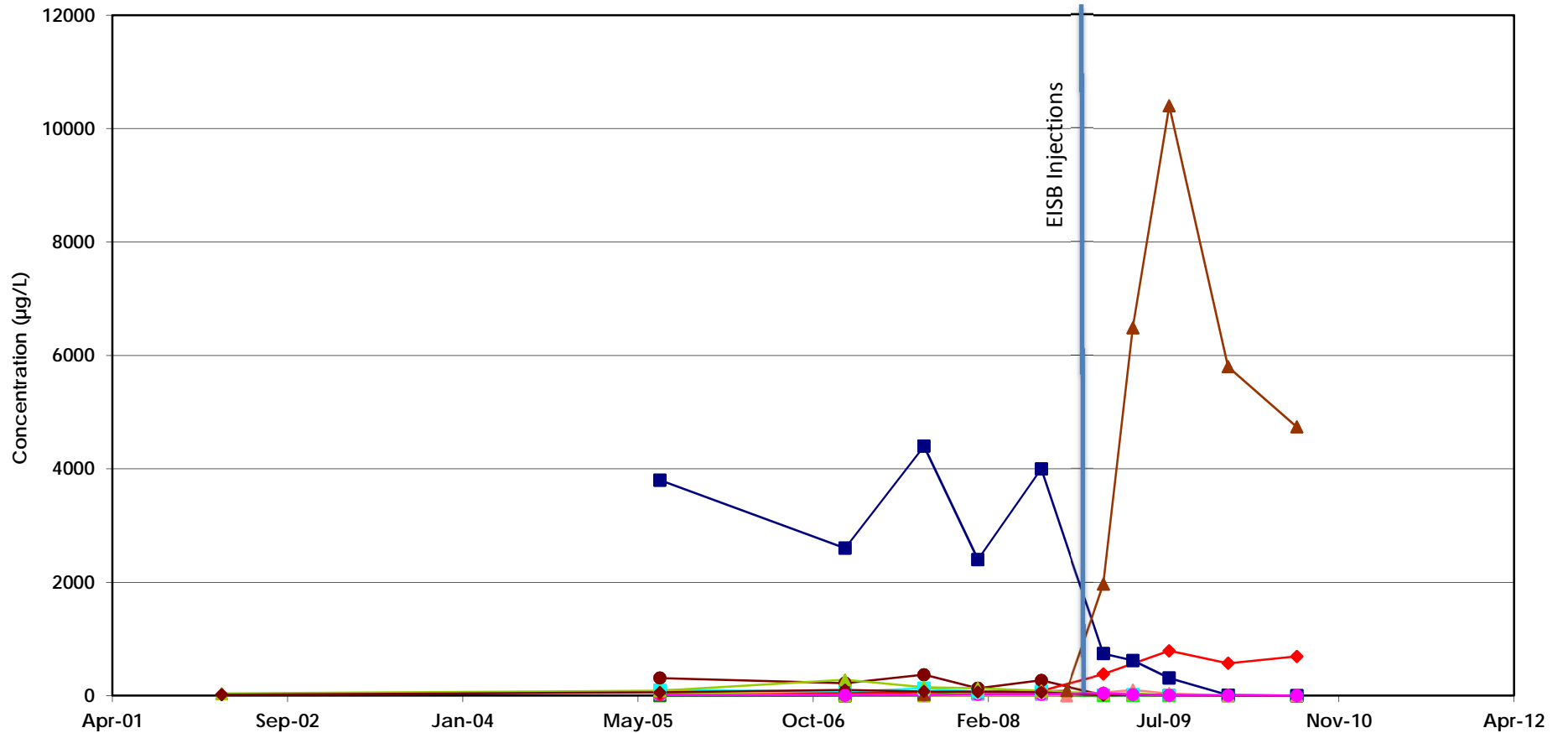
Figure

A-8

San Diego


October 2010

C:\Users\lepelein\Desktop\TIDY_9_1_2010.xlsx\Plot_Metals_MWCL1

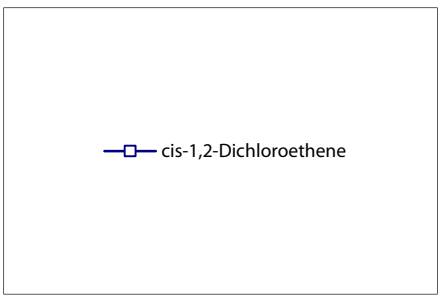
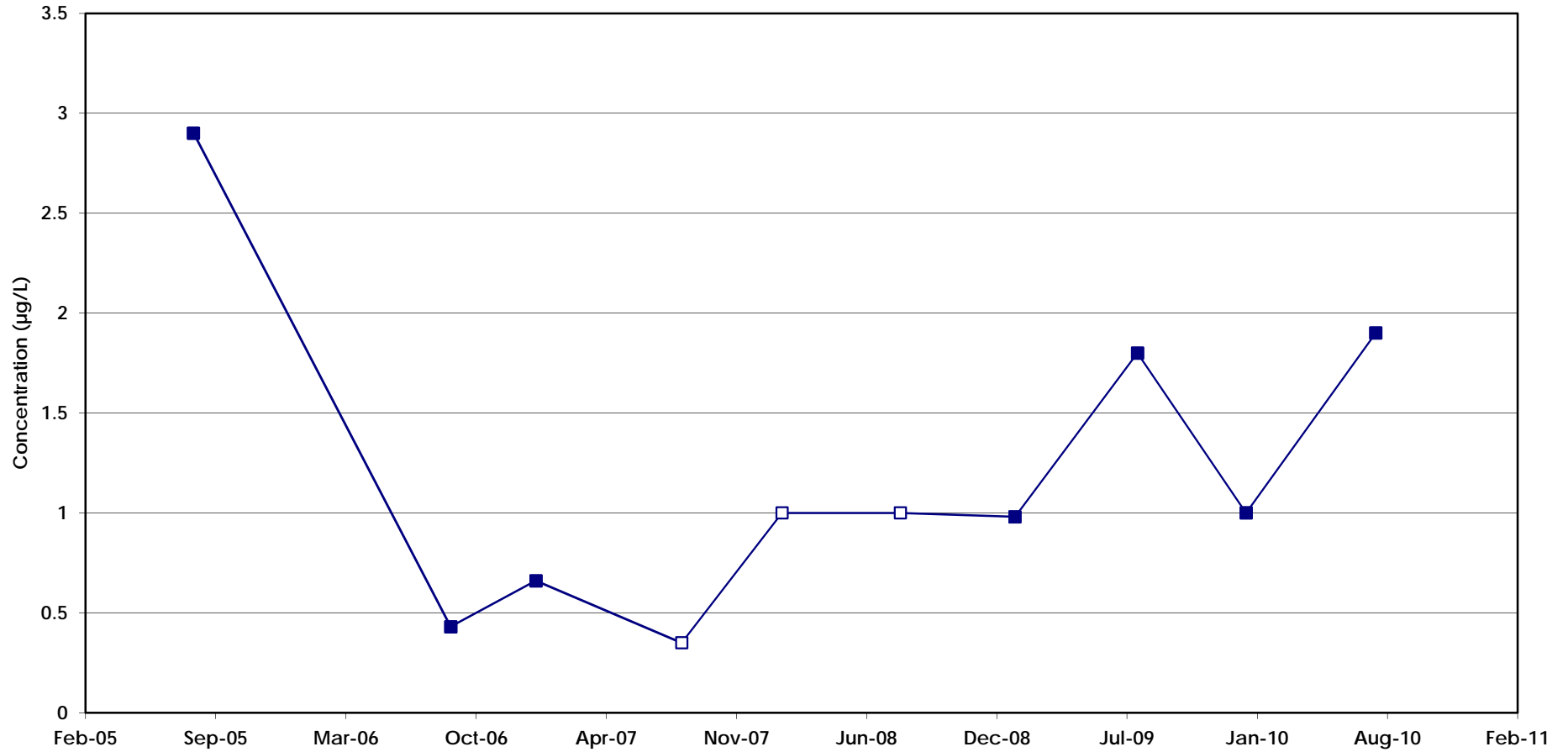


- 1,1-Dichloroethane (1,1-DCA)
- trans-1,2-Dichloroethene
- 1,1-Dichloroethane (1,1-DCE)
- △ Ethane
- △ Methane
- 1,1,2-Trichloroethane
- ◇ Trichloroethene (TCE)
- 1,2-Dichloroethane (EDC)
- cis-1,2-Dichloroethene
- ◇ 1,4-Dioxane
- △ Ethene
- △ Tetrachloroethene (PCE)
- △ 1,1,1-Trichloroethane (TCA)
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW3 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
	
San Diego	October 2010
Figure A-9	

C:\Users\jleptain\Desktop\TDY_9_1_2010.xls\Plot_Metals_MWCL1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW4
Time-Series Graph for VOCs
2701 North Harbor Drive
San Diego, California

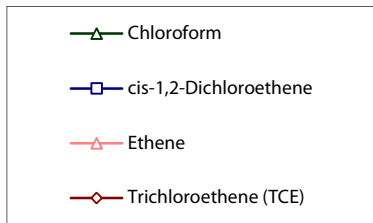
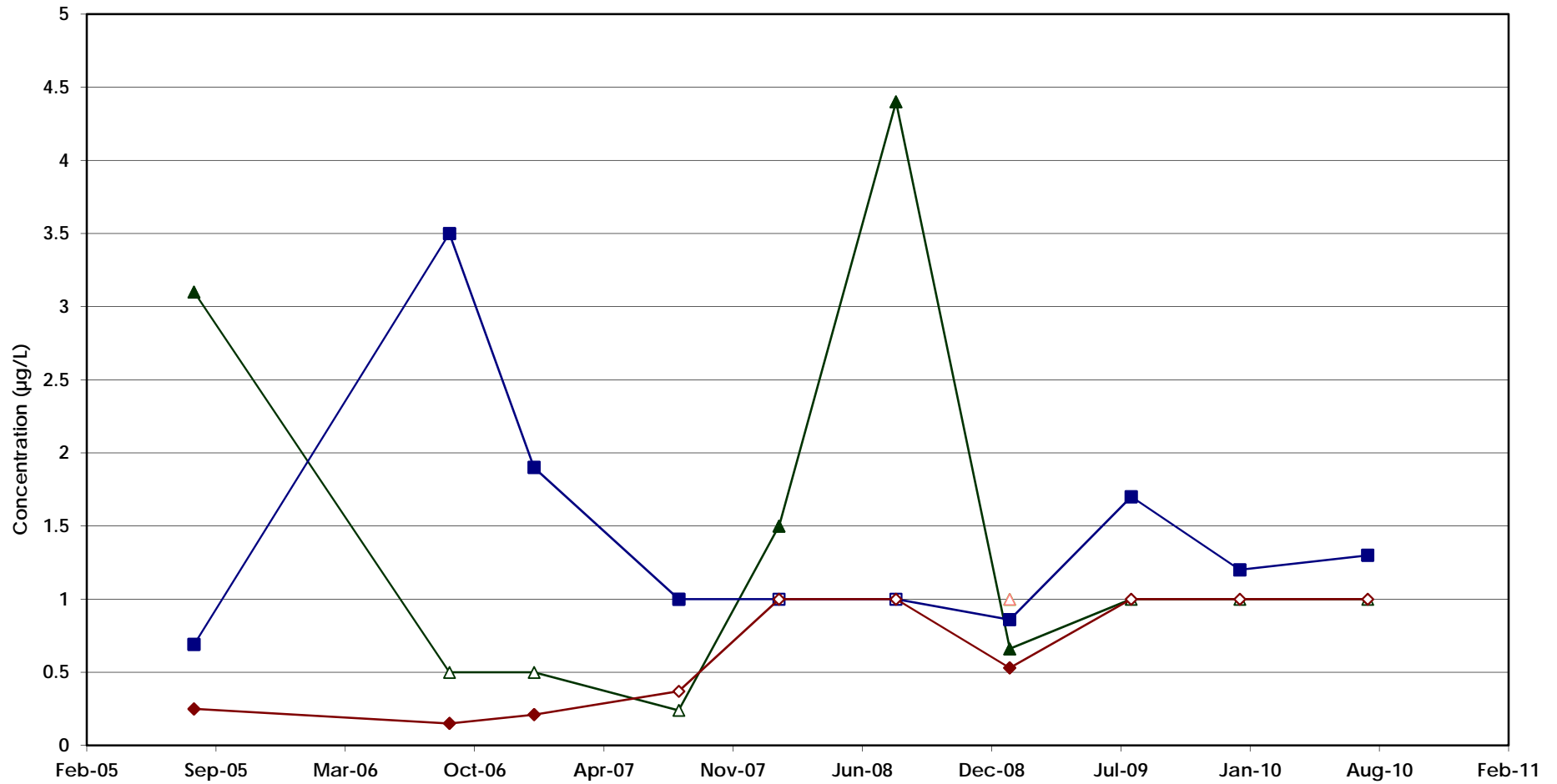


San Diego

October 2010

Figure
A-10

C:\Users\jleppert\Desktop\VIDY_9_1_2010.xls\plot_MariaL_MWCL1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW5
Time-Series Graph for VOCs
2701 North Harbor Drive
San Diego, California



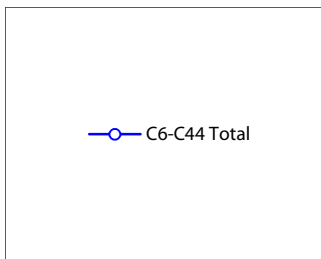
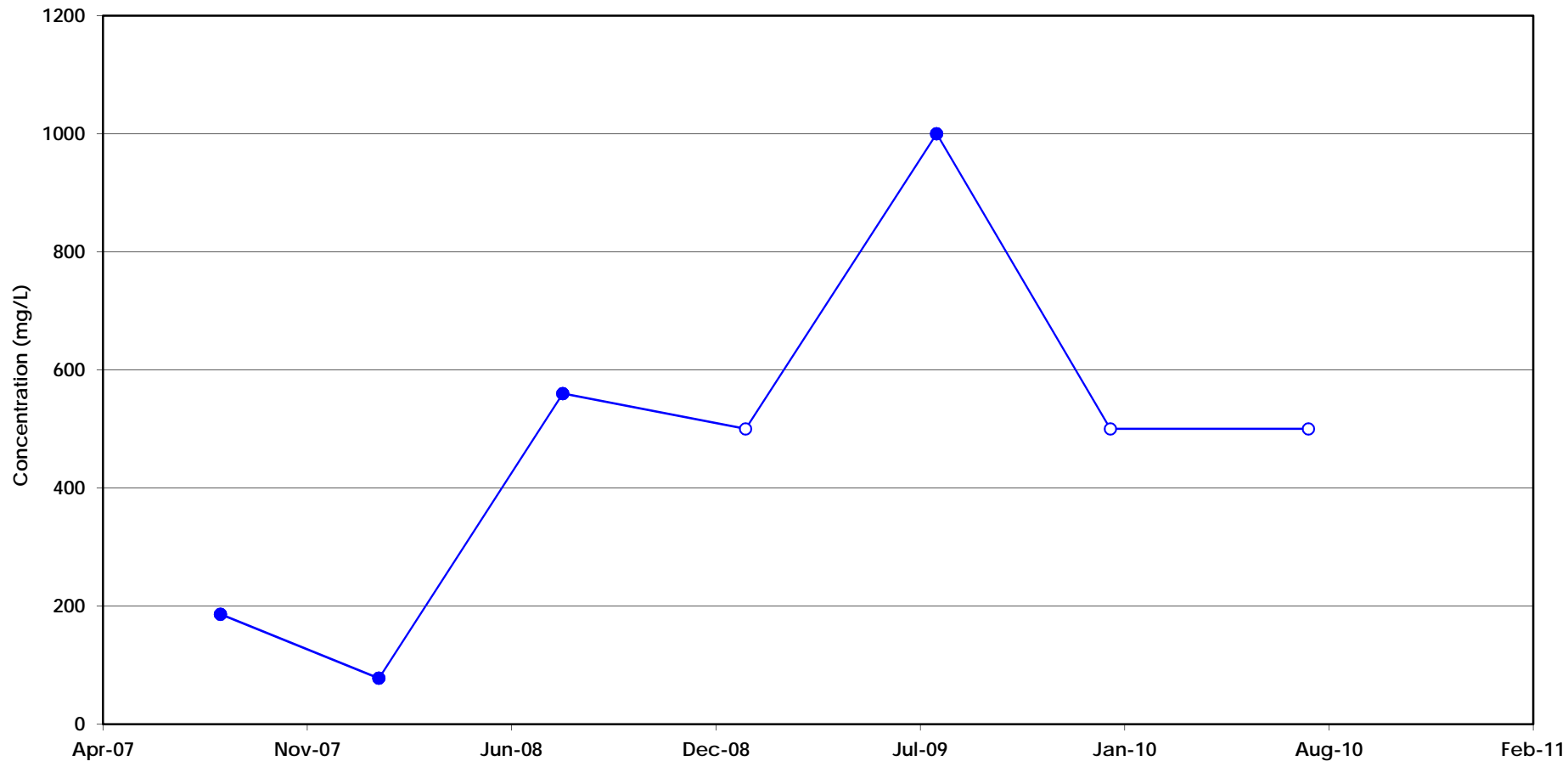
San Diego

October 2010

Figure

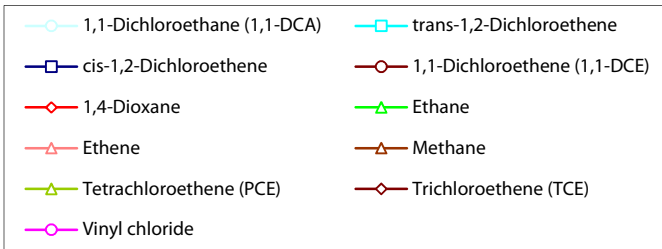
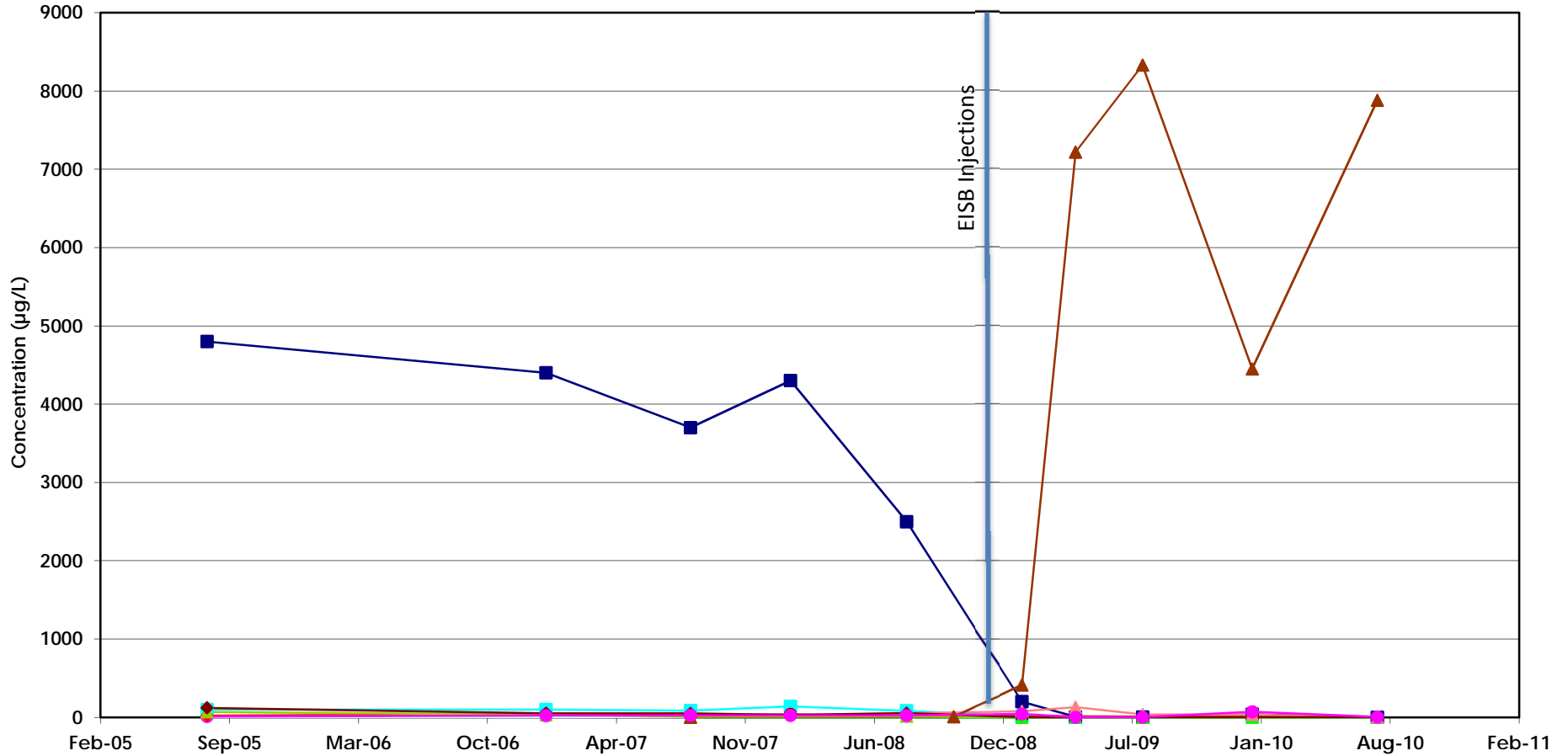
A-11

C:\Users\jleptan\Desktop\IDY_9_1_2010.xls\Plot_Metals_MWCL1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW6 Time-Series Graph for TPH 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-12	



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW6
Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California



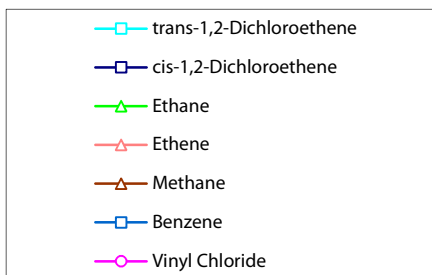
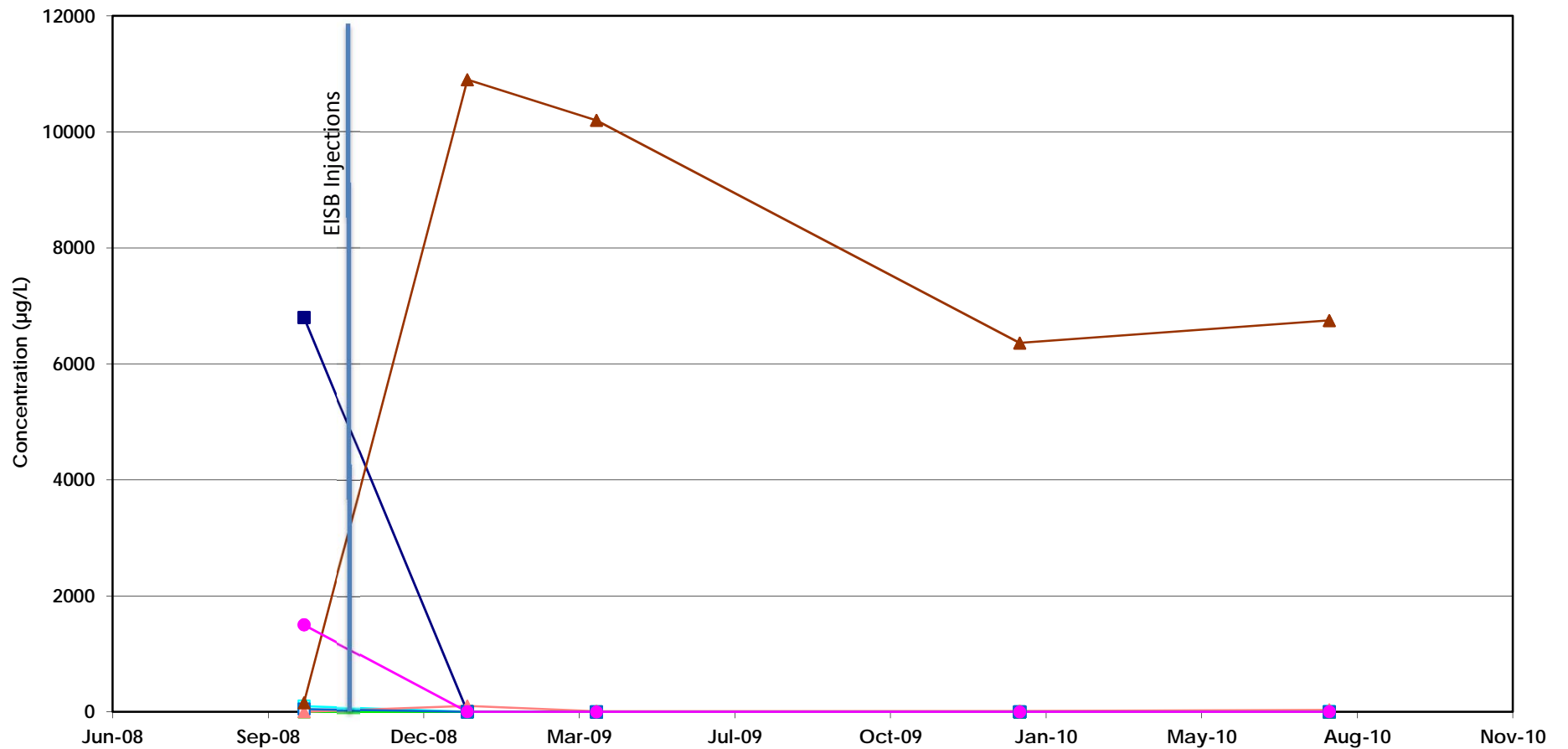
San Diego

October 2010

Figure

A-13

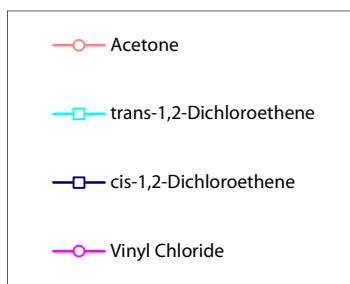
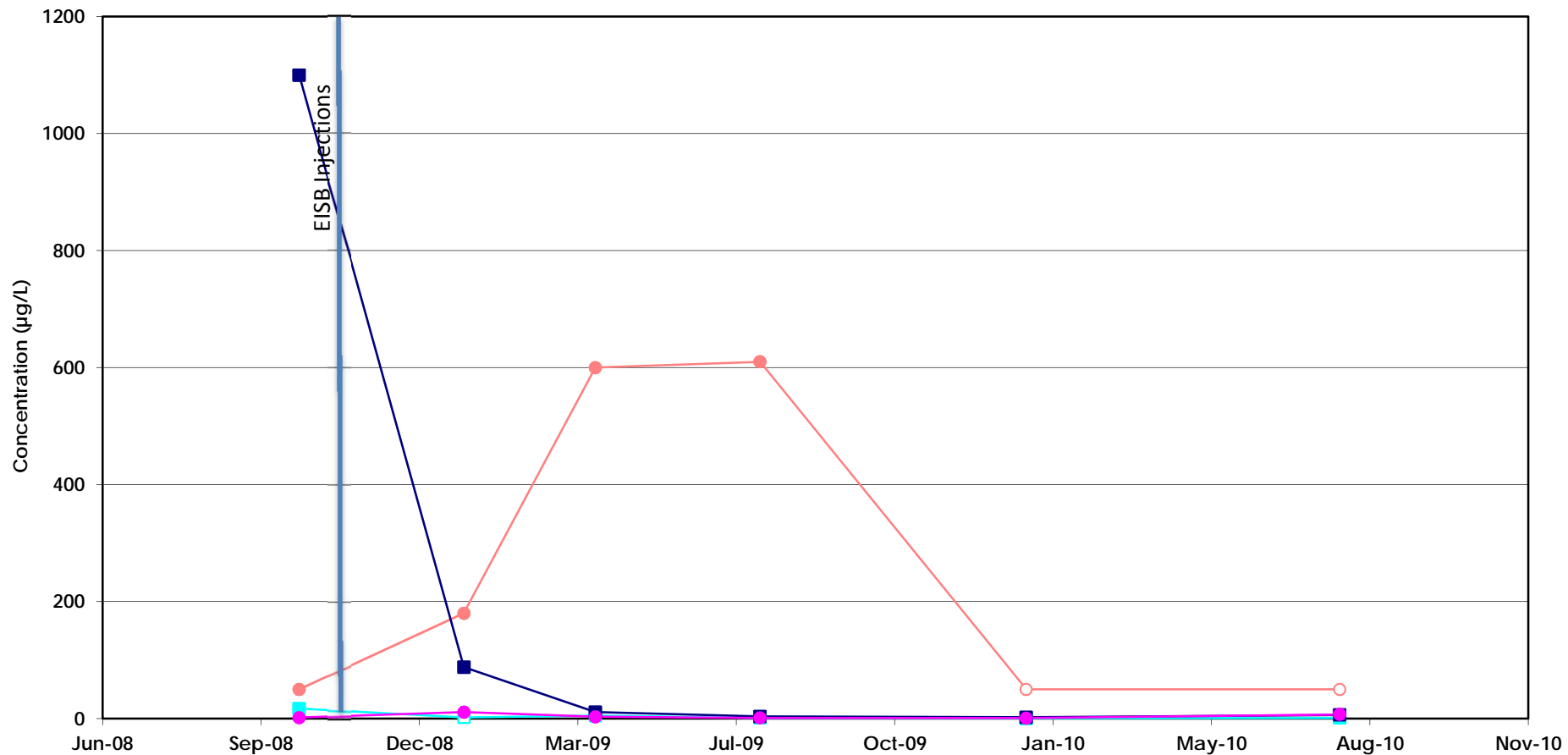
C:\Users\ngstein\Desktop\TDY_9_1_2010.xls\Pop_Metals_MWCL1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW7 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-14	

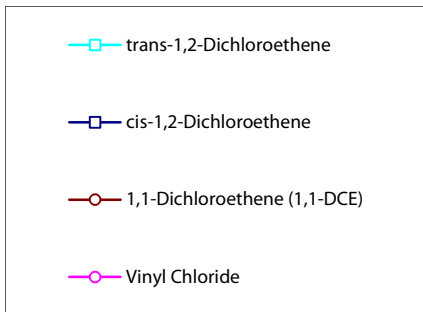
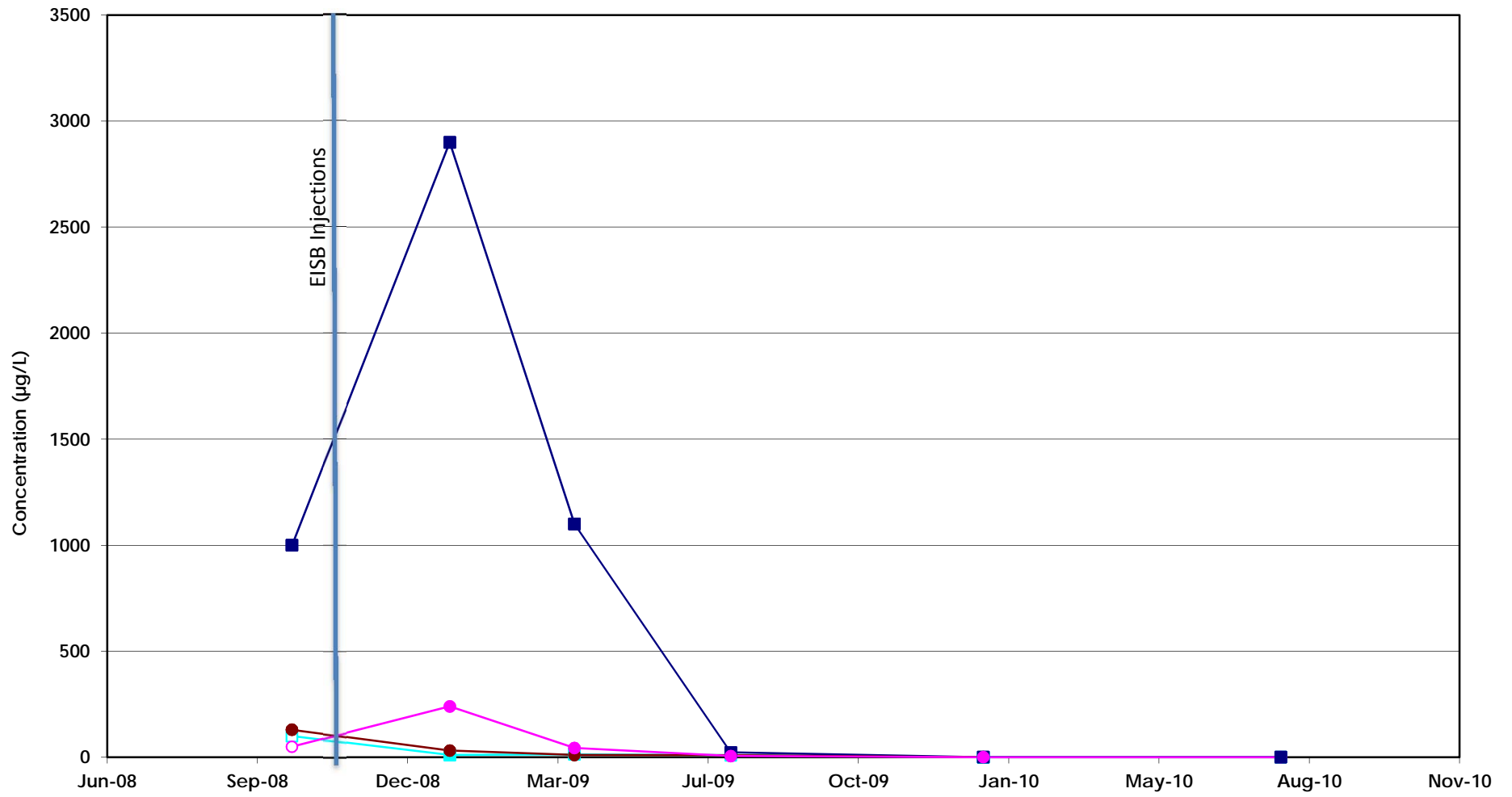
C:\Users\ngpstein\Desktop\TDY_9_1_2010.xls\Pop_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW8 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
Geosyntec consultants	
San Diego	October 2010
Figure A-15	

C:\Users\vepslein\Desktop\TDDY_9_1_2010.xls\Plot_Metals_MWVCL1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW9
Time-Series Graph for VOCs
2701 North Harbor Drive
San Diego, California

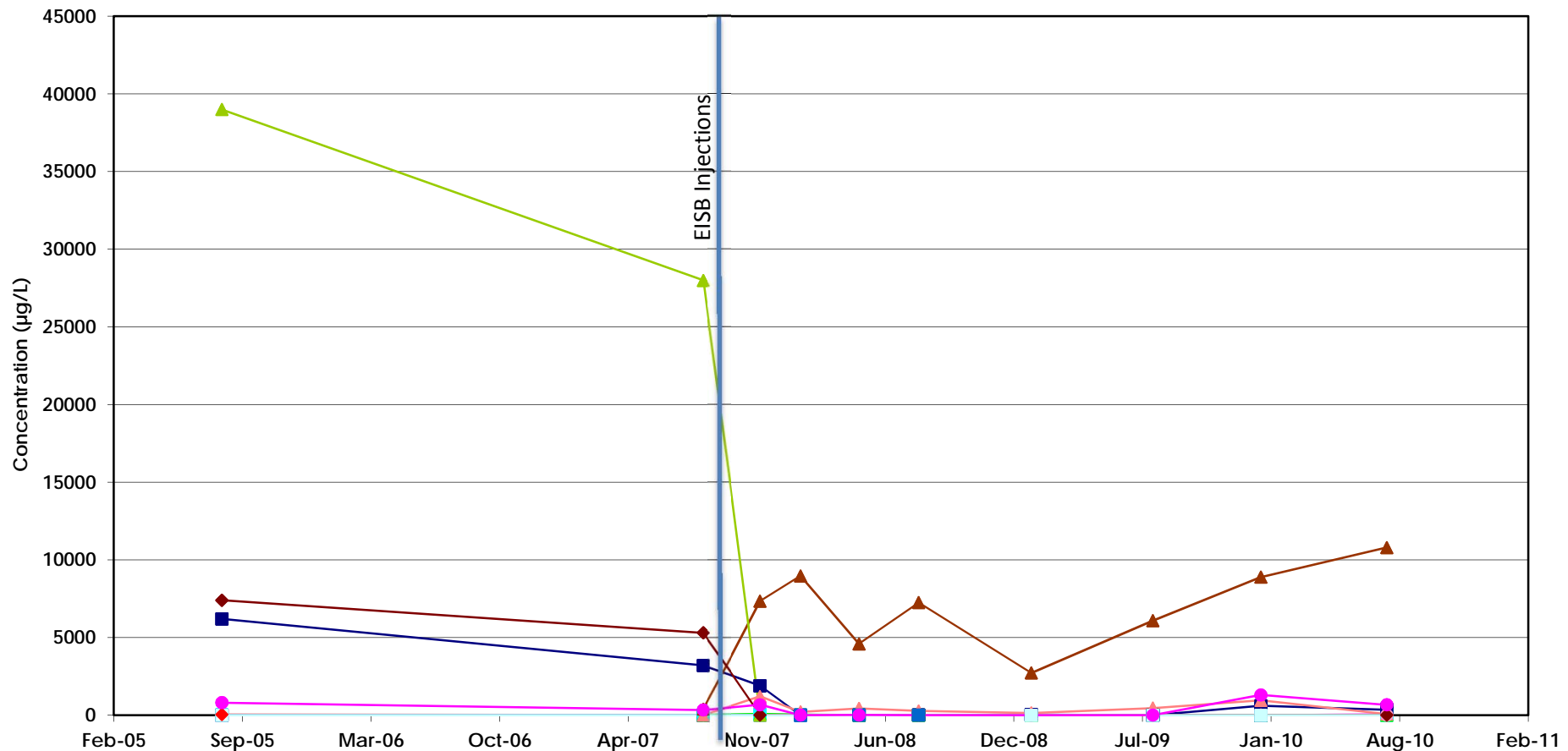


Figure
A-16

San Diego

October 2010

C:\Users\jvstein\Desktop\TDDY_9_1_2010.xls\Pool_Metals_MWCL1



- Carbon disulfide
- 2-Chlorotoluene
- 1,3-Dichlorobenzene
- trans-1,2-Dichloroethene
- 1,4-Dioxane
- Ethene
- Methane
- Toluene
- Trichloroethene (TCE)
- Vinyl Chloride
- Chlorobenzene
- 1,4-Dichlorobenzene
- 1,2-Dichlorobenzene
- cis-1,2-Dichloroethene
- Ethane
- Ethylbenzene
- Tetrachloroethene (PCE)
- Benzene
- 1,2,4-Trimethylbenzene

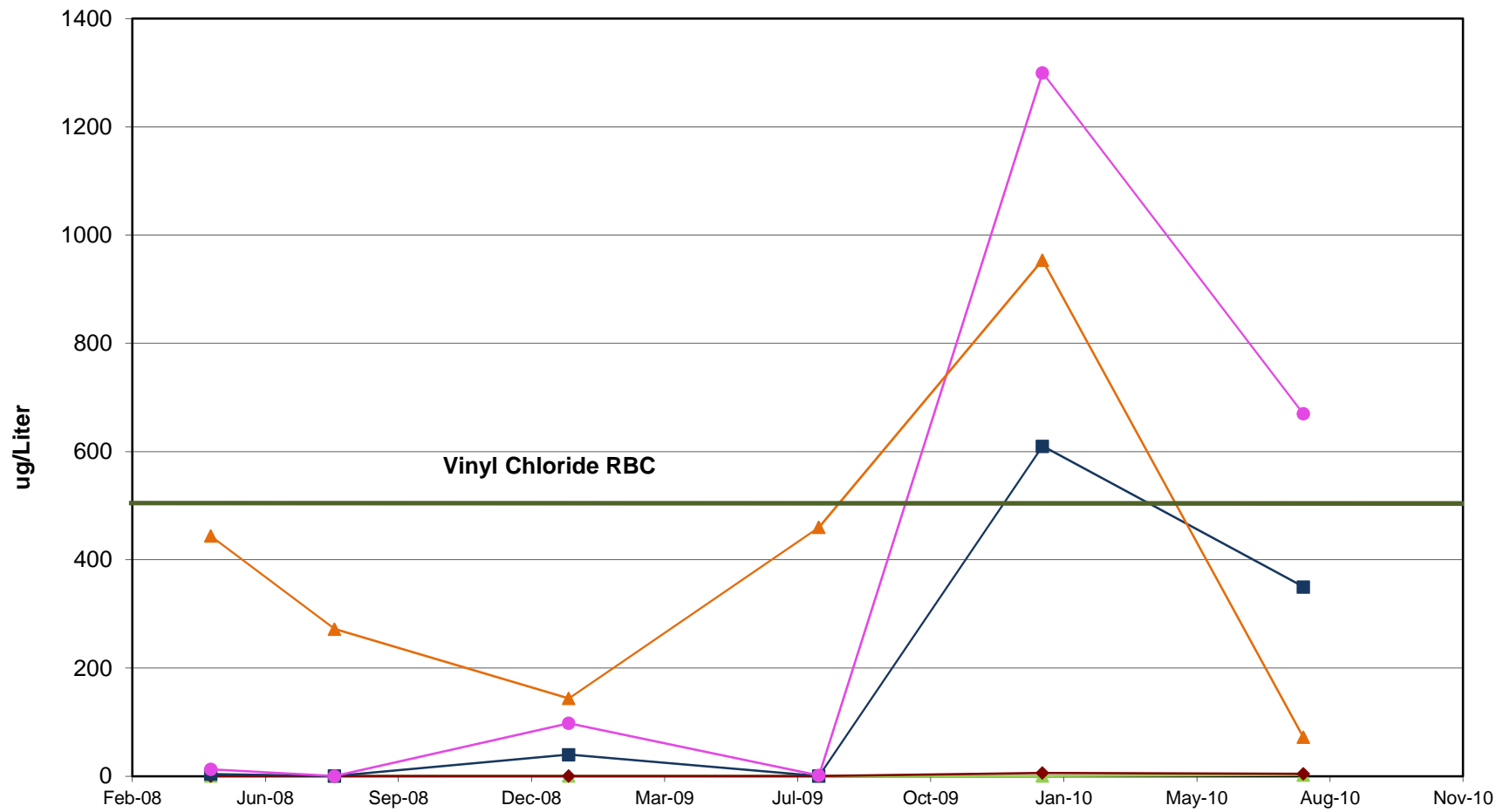
Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW2
Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

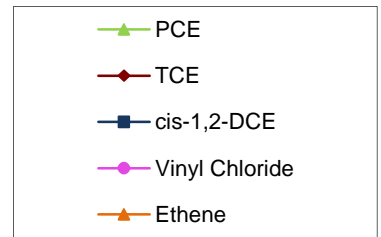
Geosyntec consultants

San Diego October 2010

Figure
A-17



Vinyl Chloride RBC



**Recent Time Trend Analysis of EISB Implementation for
Select VOCs BLD131-MW2**
2701 North Harbor Drive
San Diego, California

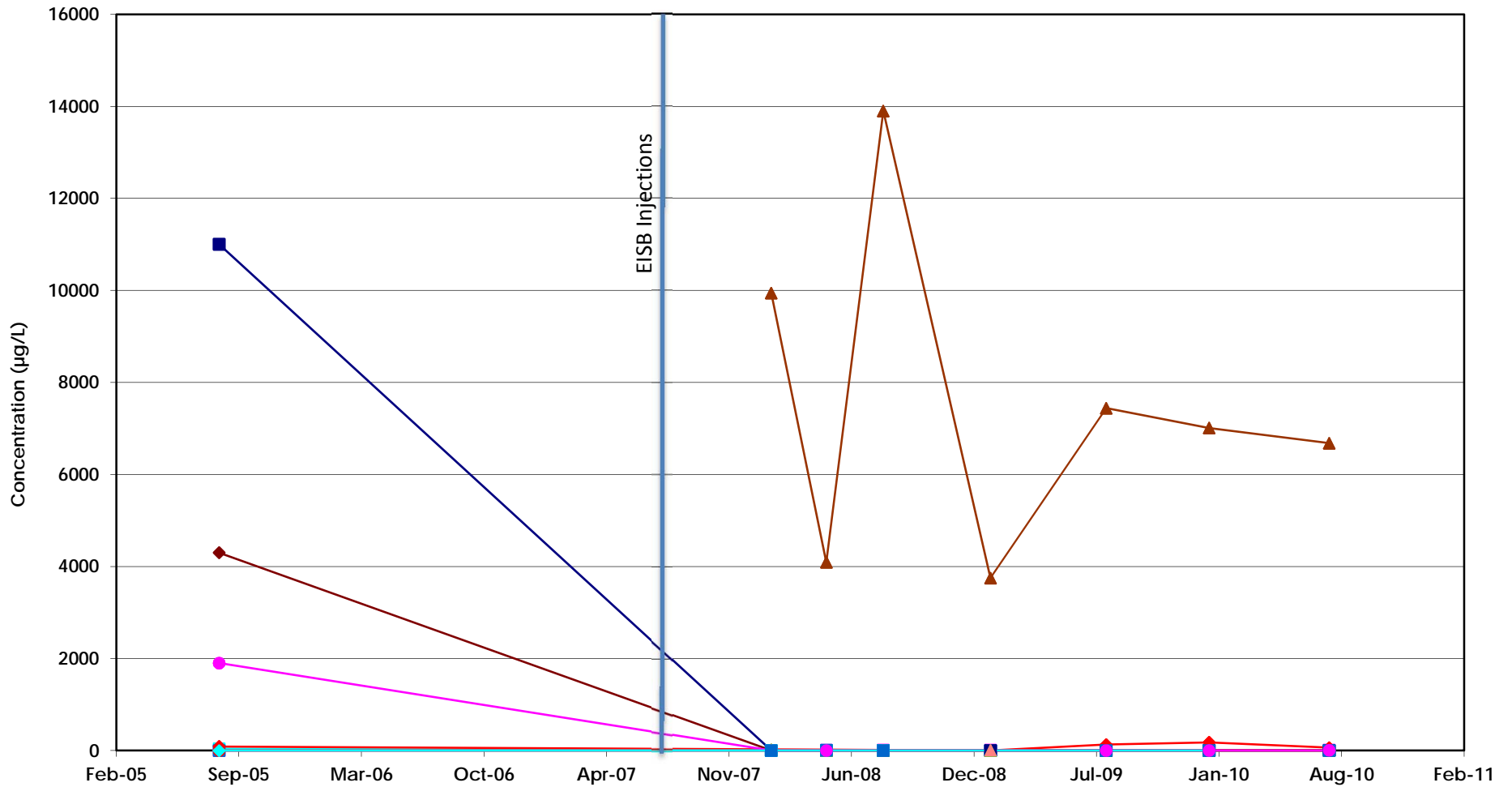


Figure
A- 17a

San Diego

October 2010

C:\Users\jppstein\Desktop\ITDY_9_1_2010_xe\Plot_Materials_MWCL1



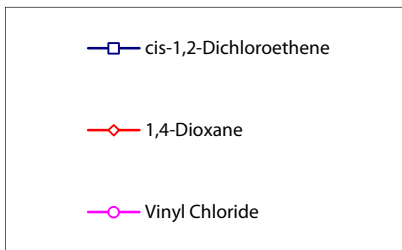
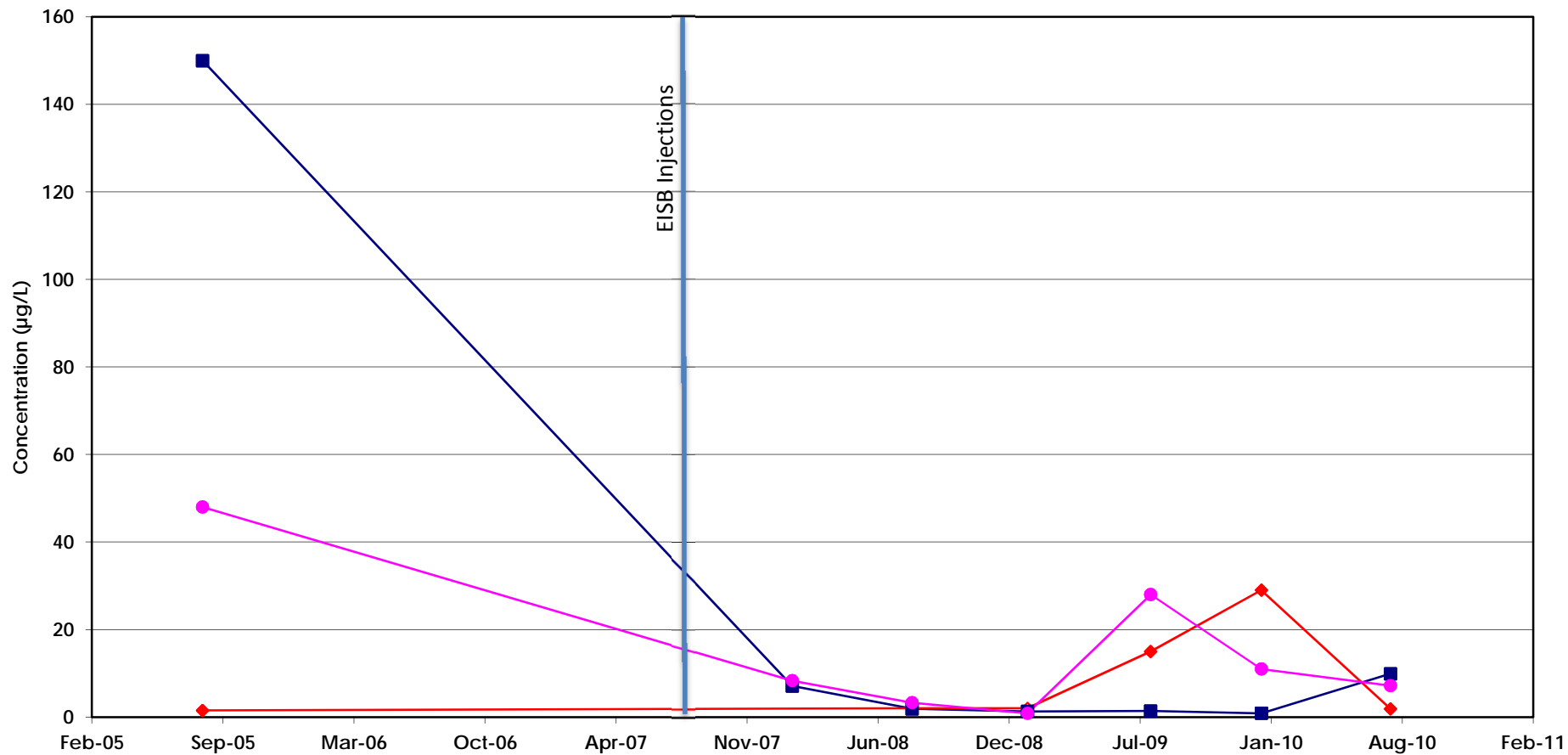
- Carbon disulfide
- trans-1,2-Dichloroethene
- 1,4-Dioxane
- Ethene
- n-Propylbenzene
- Benzene
- 1,3,5-Trimethylbenzene
- m,p-Xylenes
- 1,4-Dichlorobenzene
- cis-1,2-Dichloroethene
- Ethane
- Methane
- Toluene
- Trichloroethene (TCE)
- Vinyl Chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW3 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010

Figure
A-18

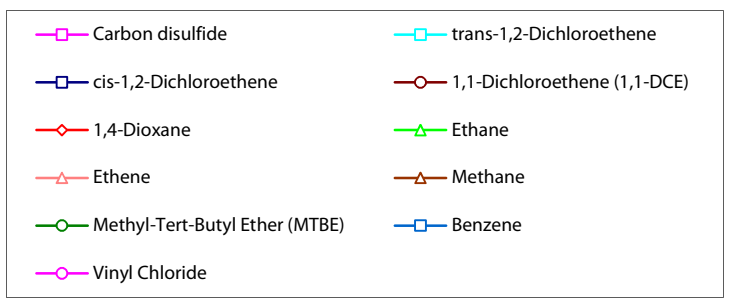
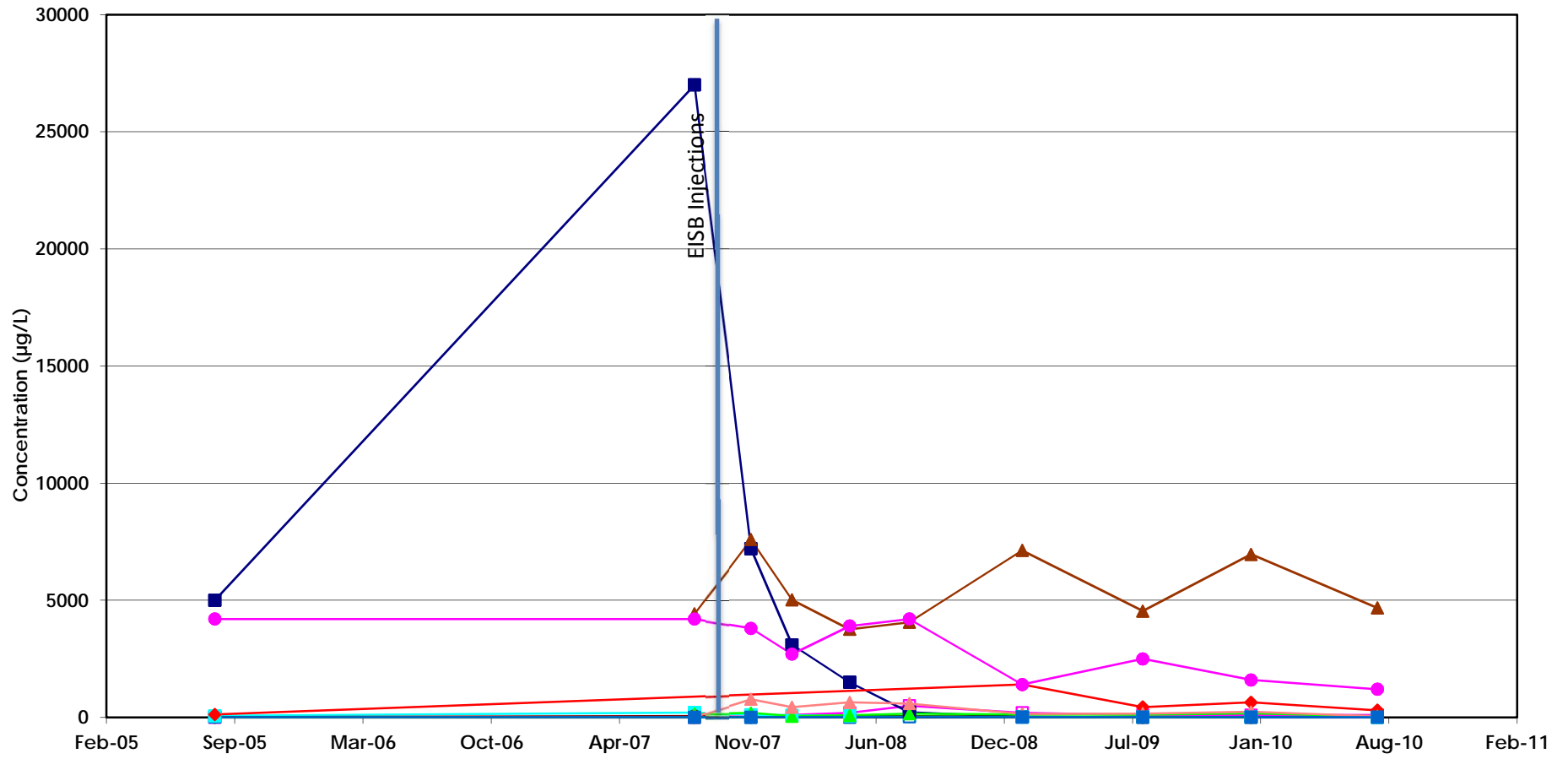
C:\Users\epstein\Desktop\TDY_9_1_2010\33\Pool_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW4 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-19	

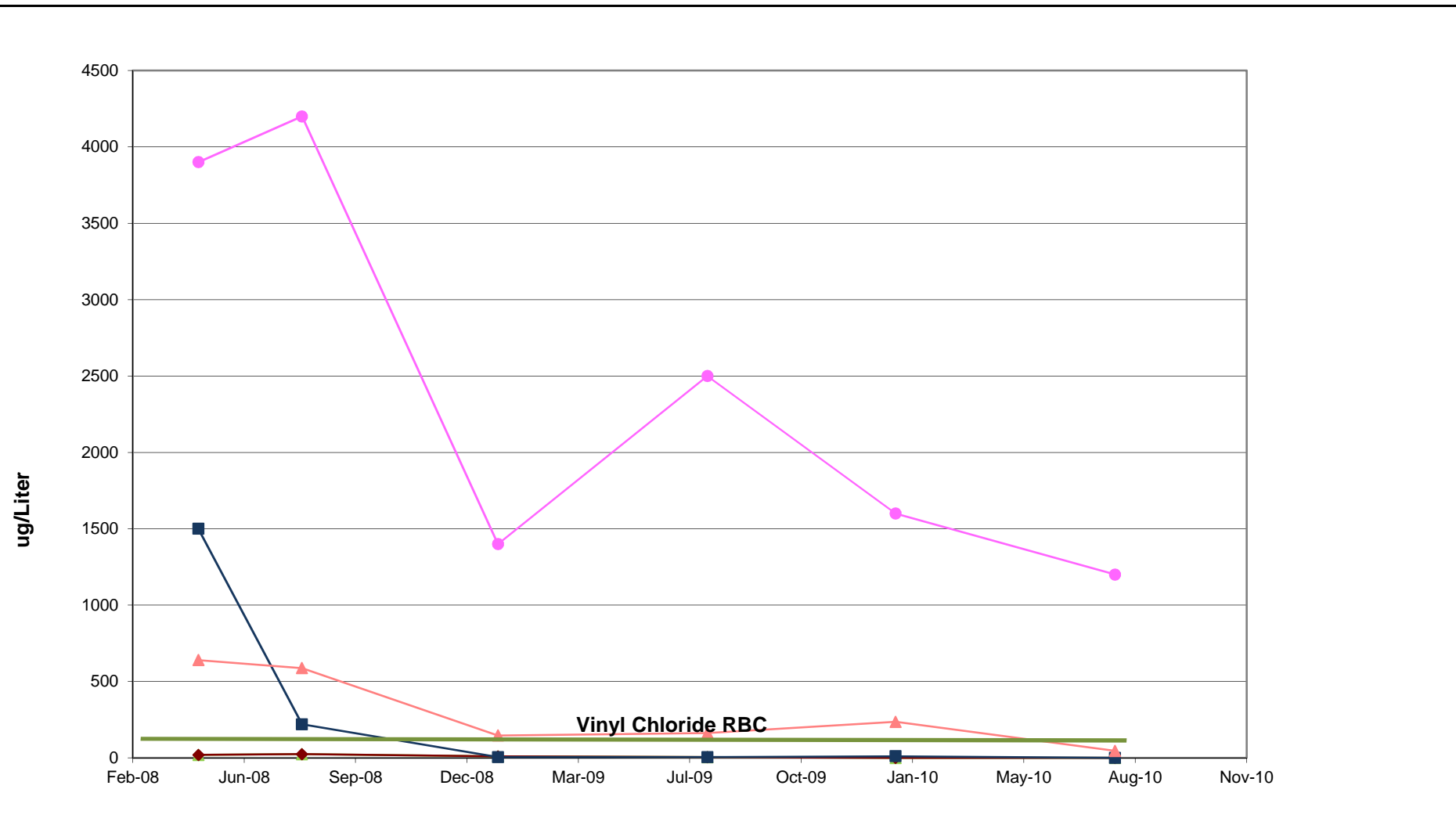
C:\Users\Nepstein\Desktop\1_2010_08\Prot_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW5 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-20	

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**Recent Time Trend Analysis of EISB Implementation for
Select VOCs
BLD131-MW5
2701 North Harbor Drive**

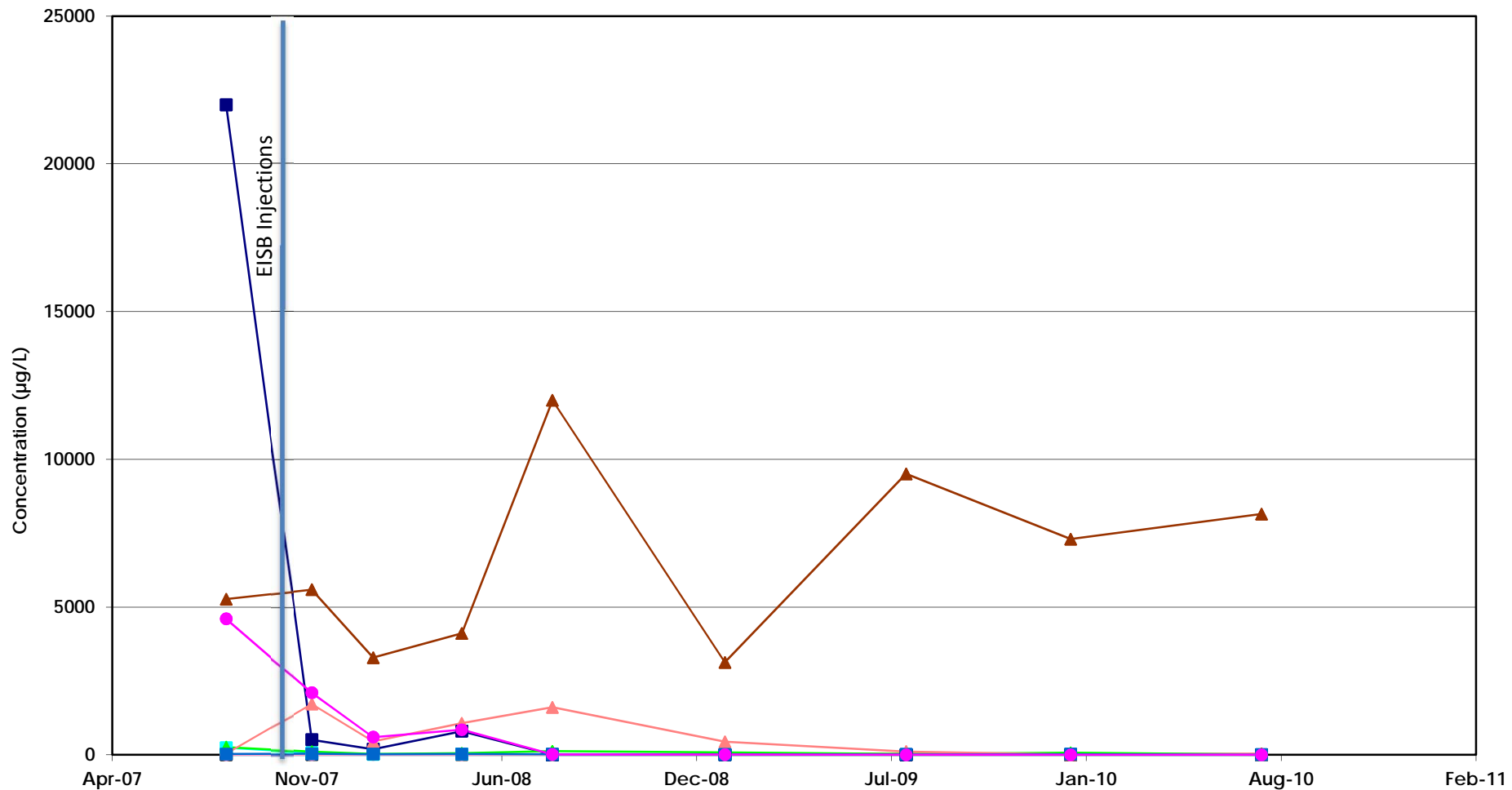


San Diego

October 2010


Figure
A- 20a

C:\Users\jleptain\Desktop\1_2010\sl\Plot_Metals_MWCL-1

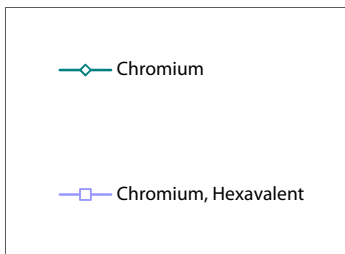
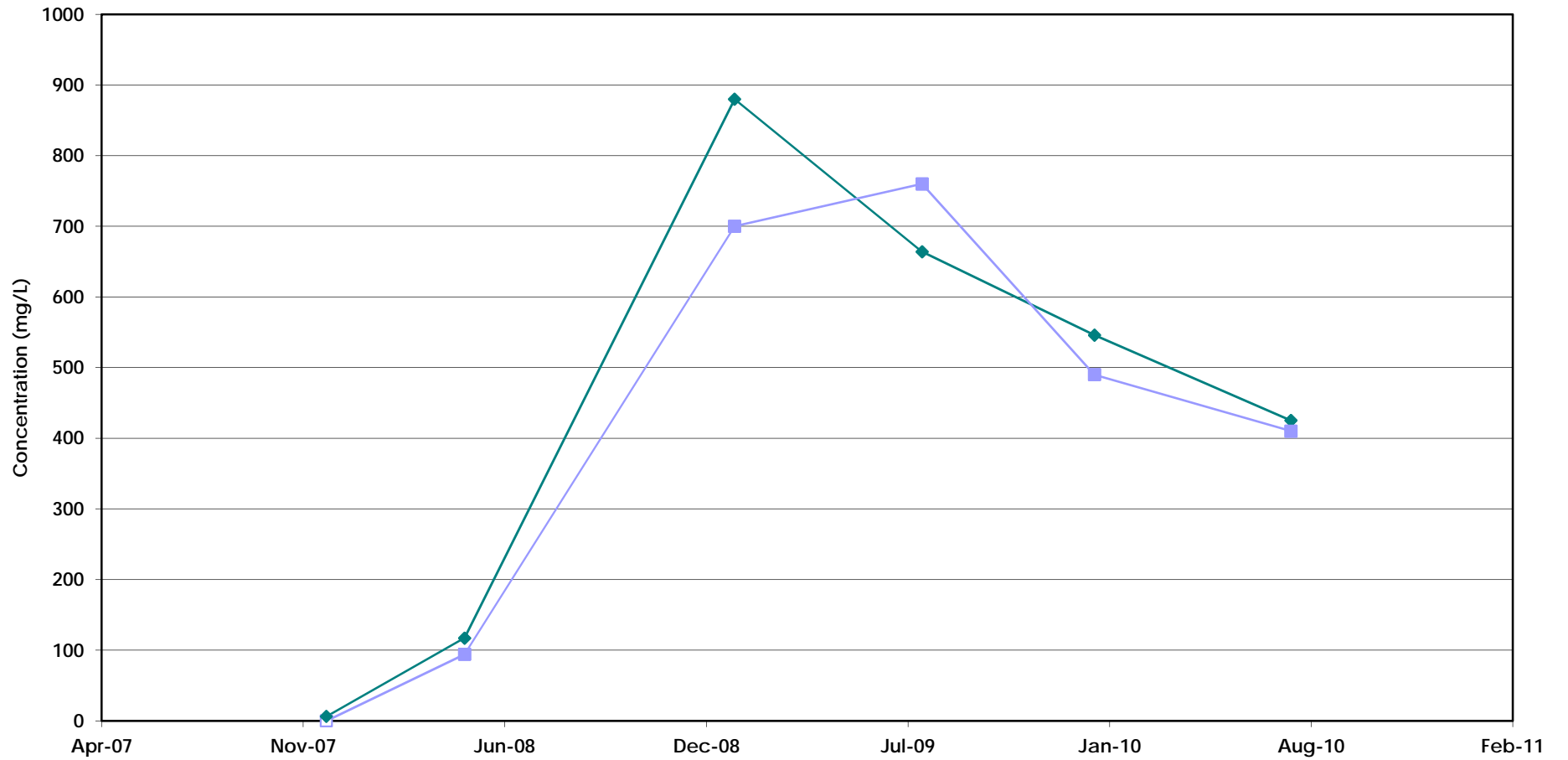


- Chlorobenzene
- ◇— 1,2-Dichlorobenzene
- cis-1,2-Dichloroethene
- △— Ethane
- △— Methane
- Benzene
- 1,4-Dichlorobenzene
- trans-1,2-Dichloroethene
- ◇— 1,4-Dioxane
- △— Ethene
- Toluene
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

<p>Monitor Well BLD131-MW6 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California</p>	
	
San Diego	October 2010
<p>Figure A-21</p>	

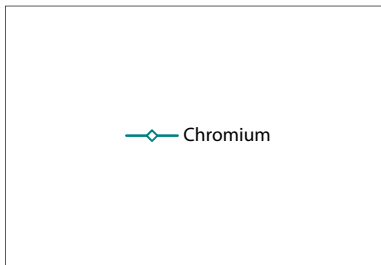
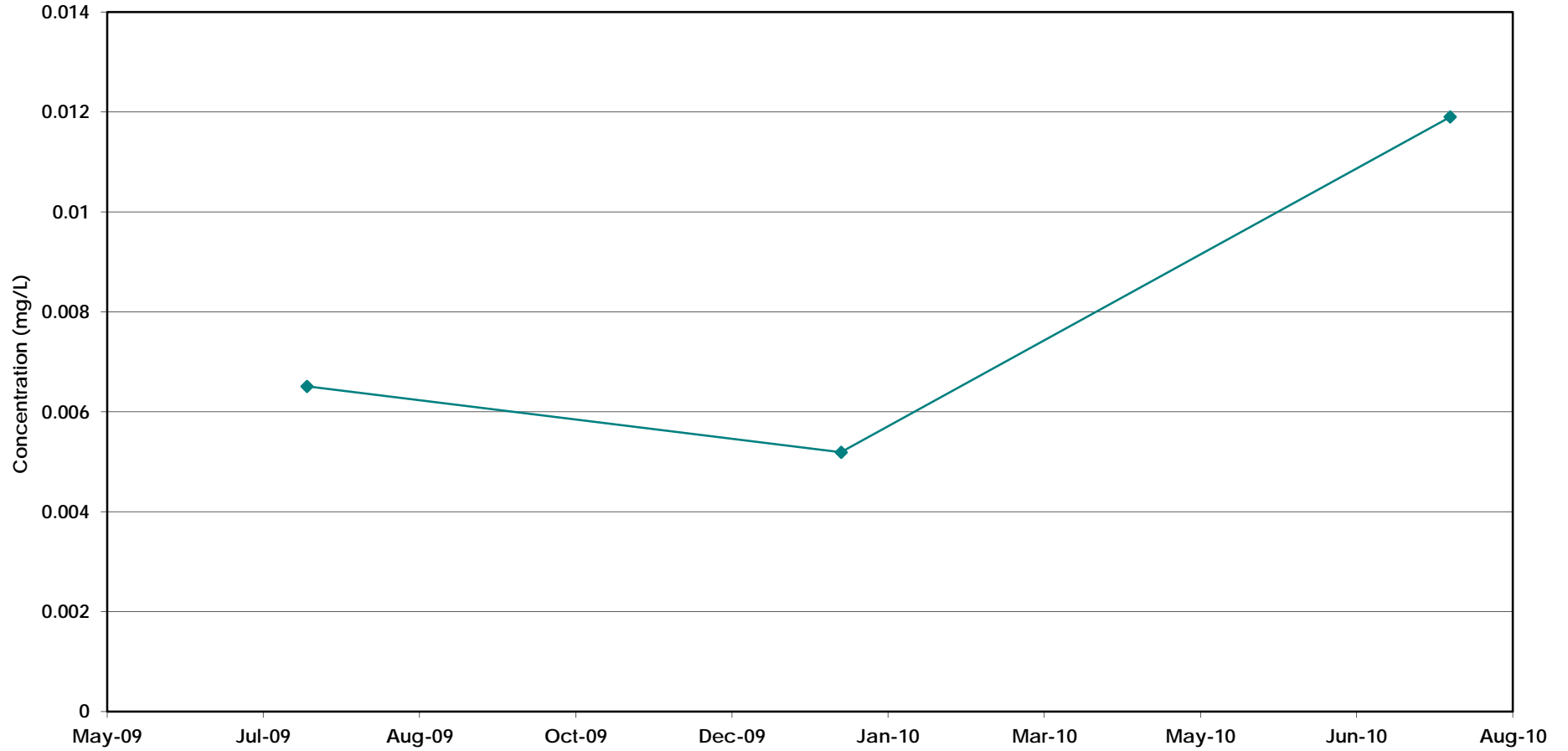
C:\Users\Veepstein\Desktop\TIDY_9_1_2010.xls\Pro_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD158-MW1 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-22	

C:\Users\jleptem\Desktop\TIDY_9_1_2010.xls\Proj_Metals_MWCL1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD158-MW2
Time-Series Graph for Metals
2701 North Harbor Drive
San Diego, California

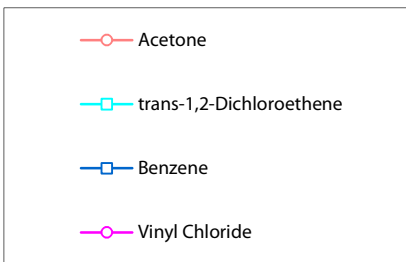
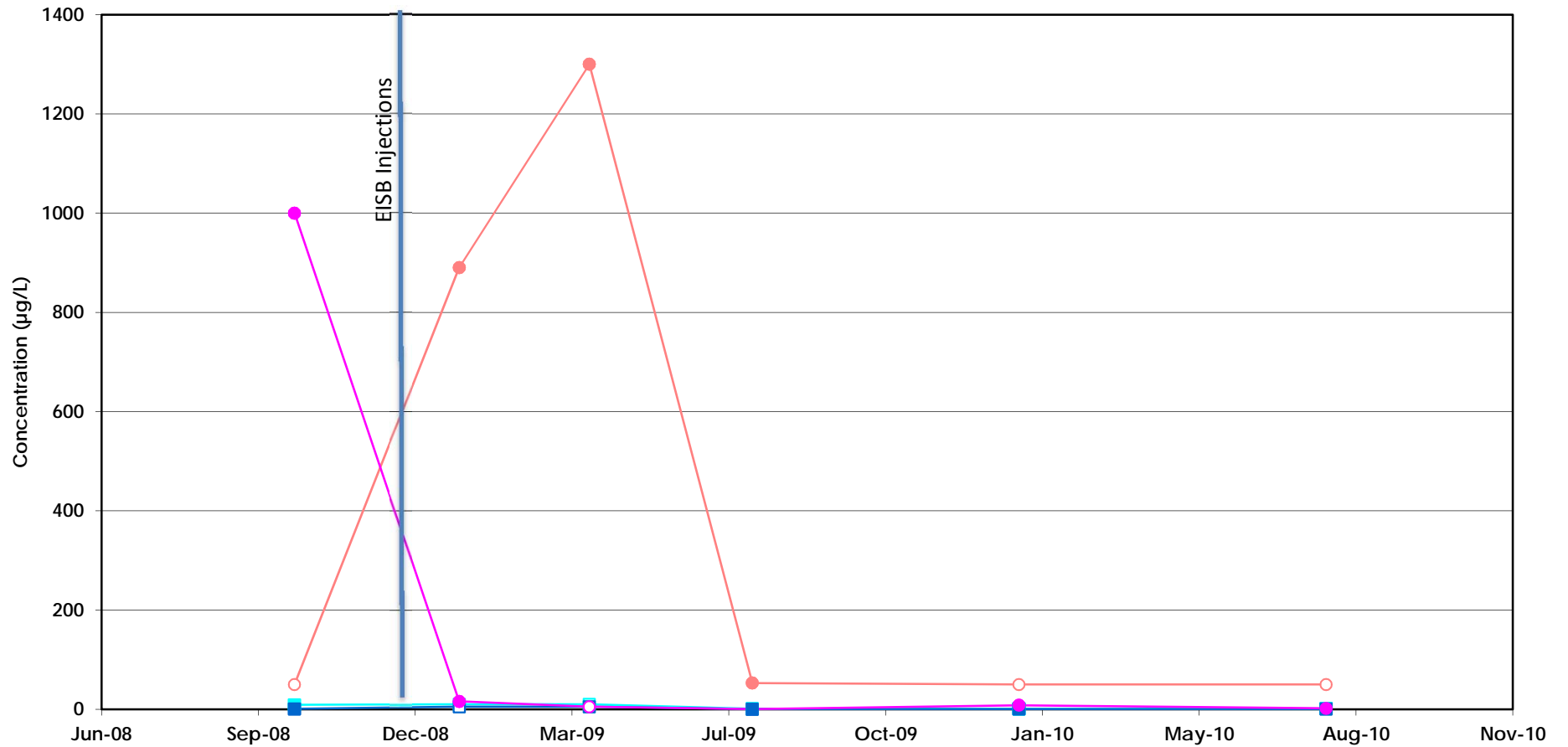
Geosyntec 
consultants

San Diego

October 2010

Figure
A-23

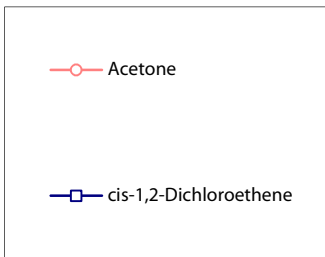
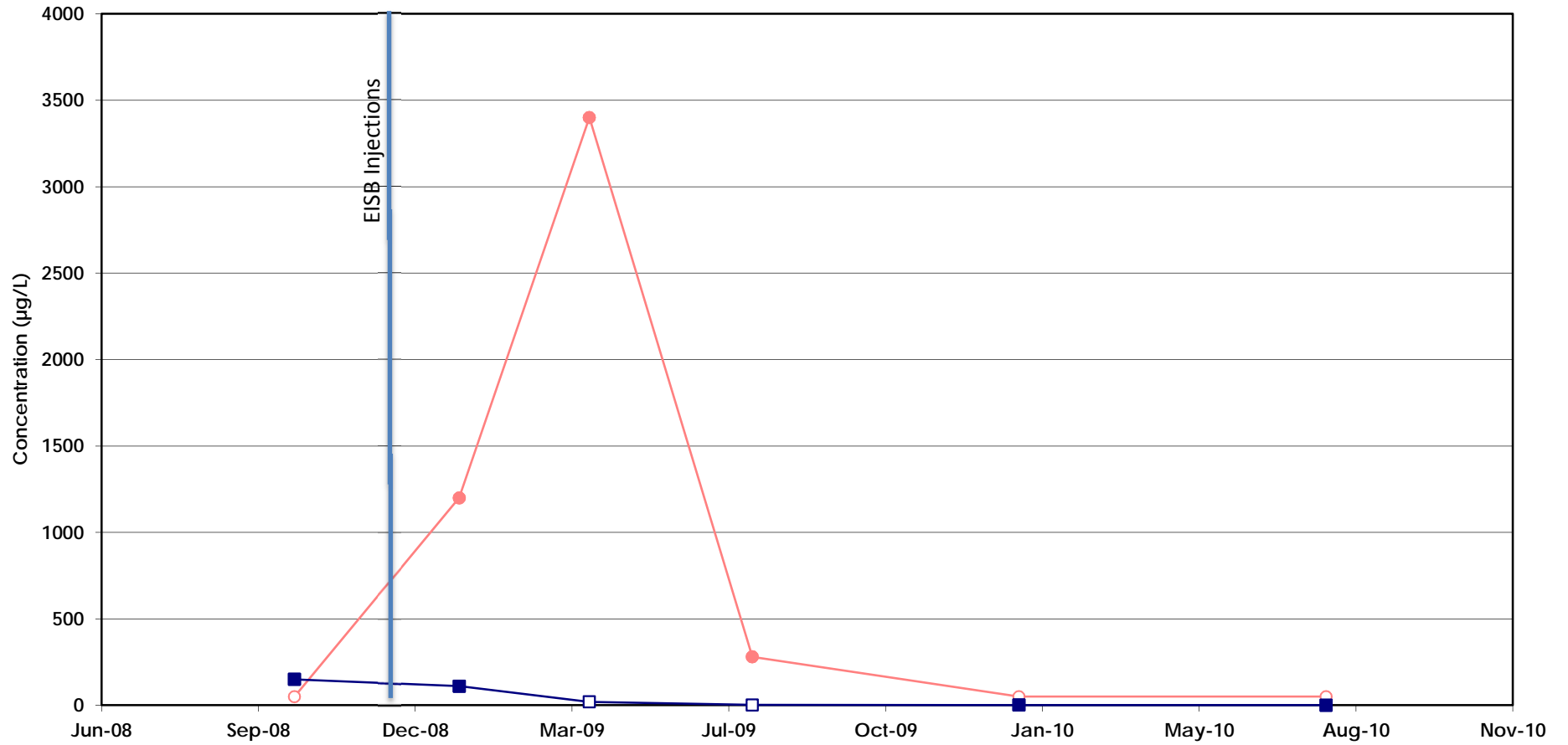
C:\Users\ngpstein\Desktop\IDY_9_1_2010.xls\Pop_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD180-MW2 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-24	

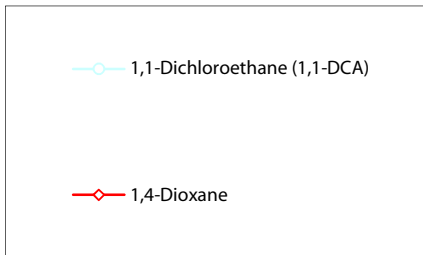
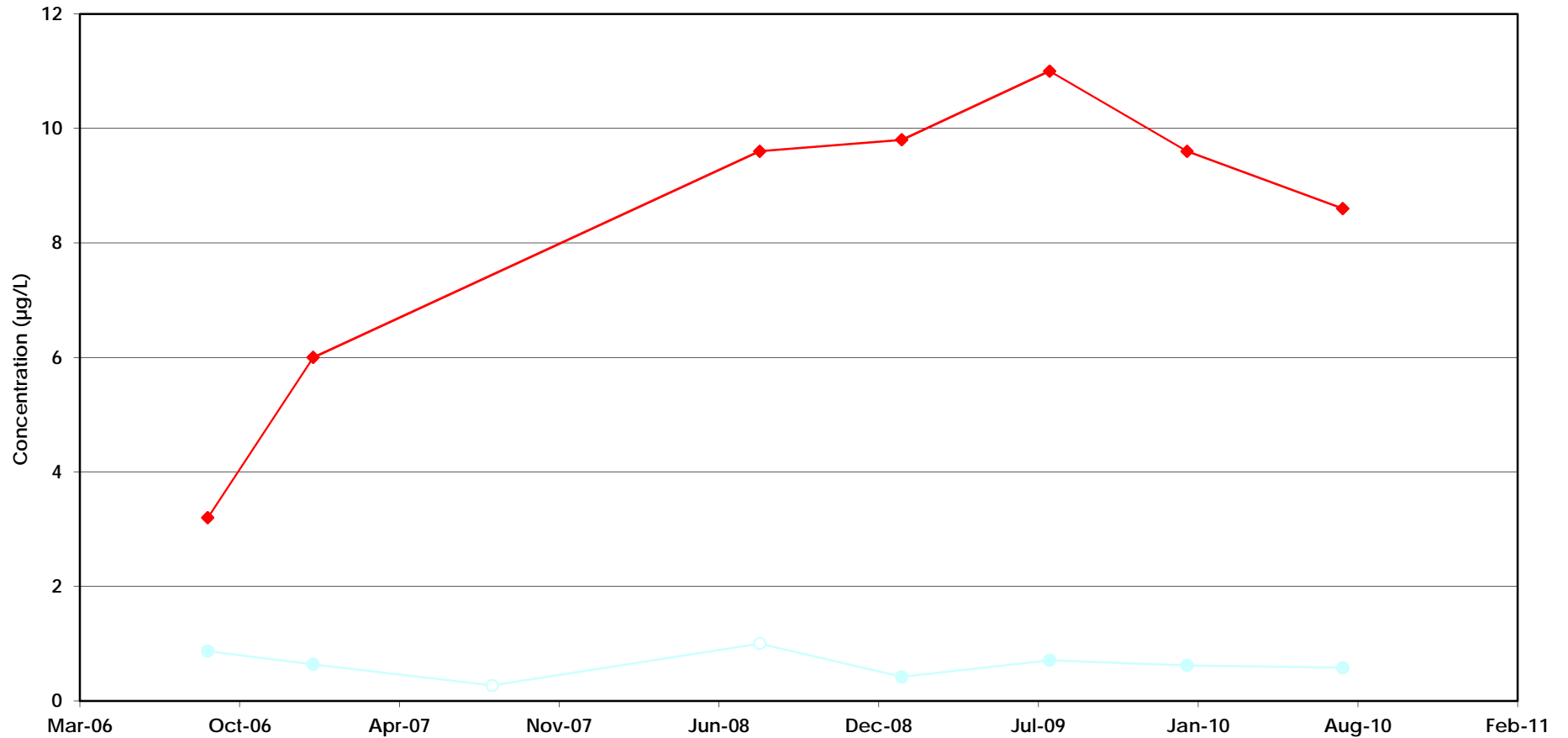
C:\Users\Nepstein\Desktop\TDDY_9_1_2010.xls\Plot_Metals_MW1C1-1




Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well FMY-MW1 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-25	

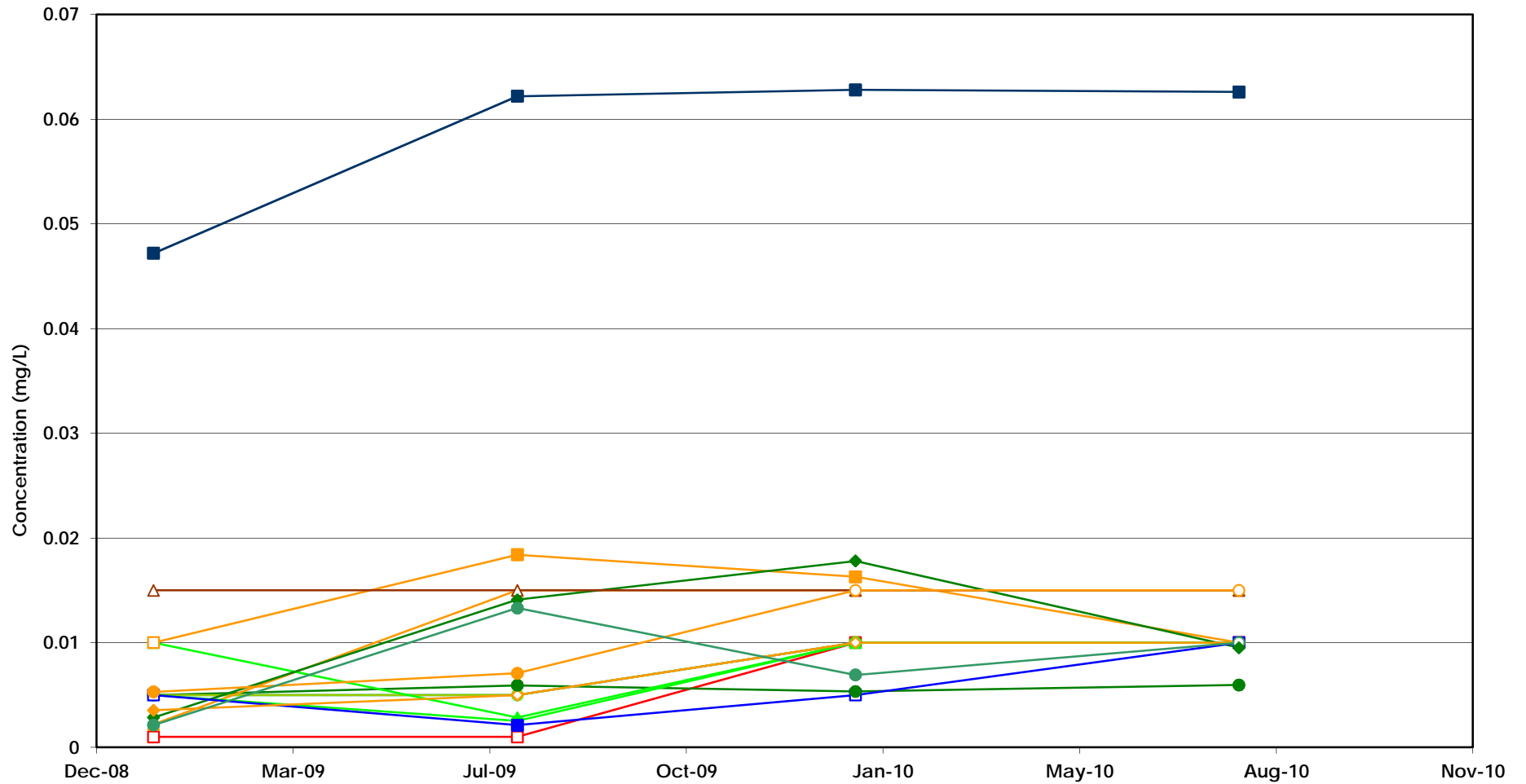
C:\Users\Nepstein\Desktop\TIDY_9_1_2010.xls\Plot_Details_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-1 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
	
San Diego	October 2010
Figure A-26	

C:\Users\Nepstein\Desktop\TDD_9_1_2010.xls\Pop_Metals_MWCL1

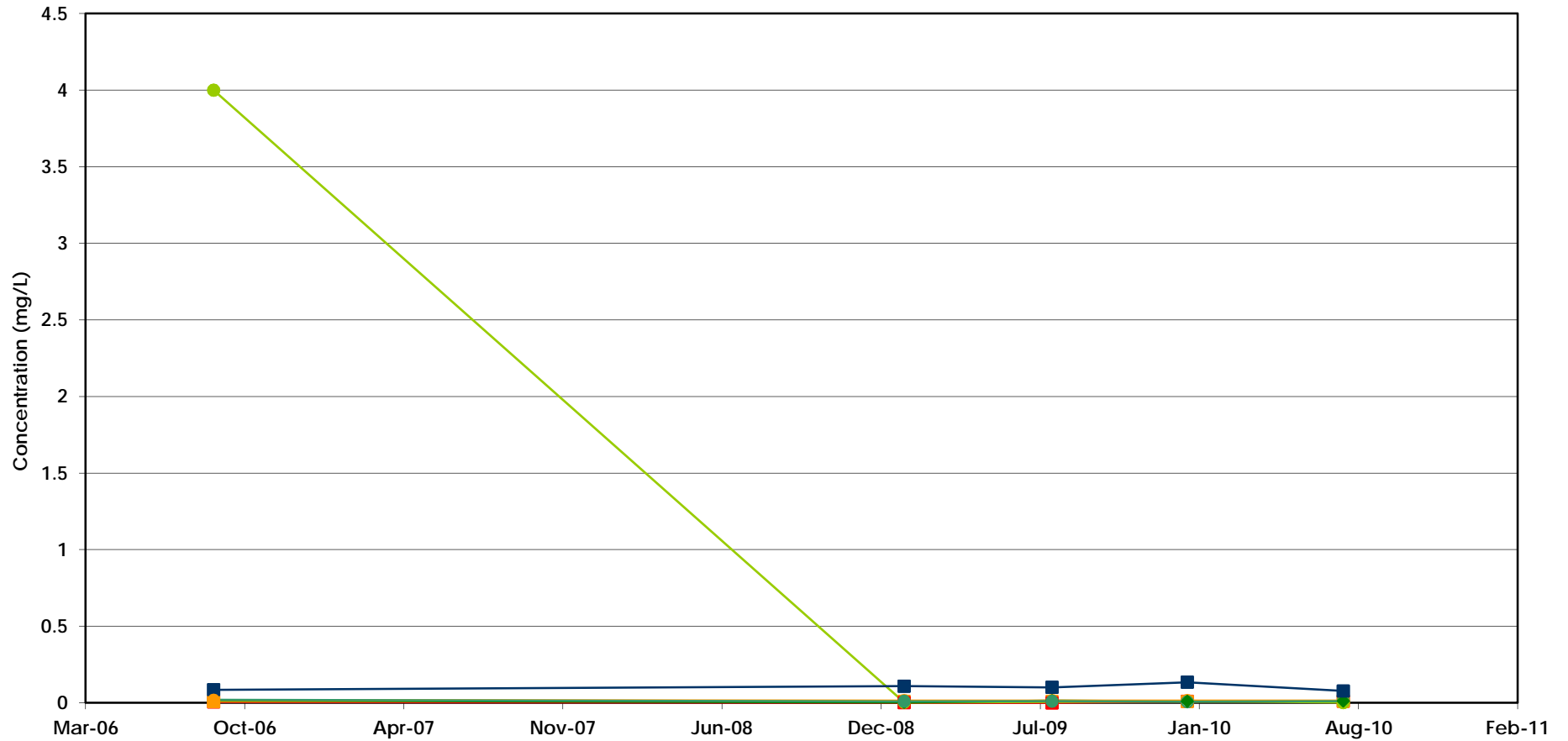


- Beryllium
- Chromium
- Copper
- Lead
- Nickel
- Silver
- Barium
- Vanadium
- Cadmium
- Cobalt
- Antimony
- Arsenic
- Molybdenum
- Thallium
- Selenium
- Zinc

Open symbols represent non-detects (plotted at the method detection limit)

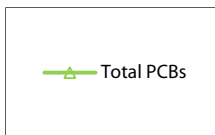
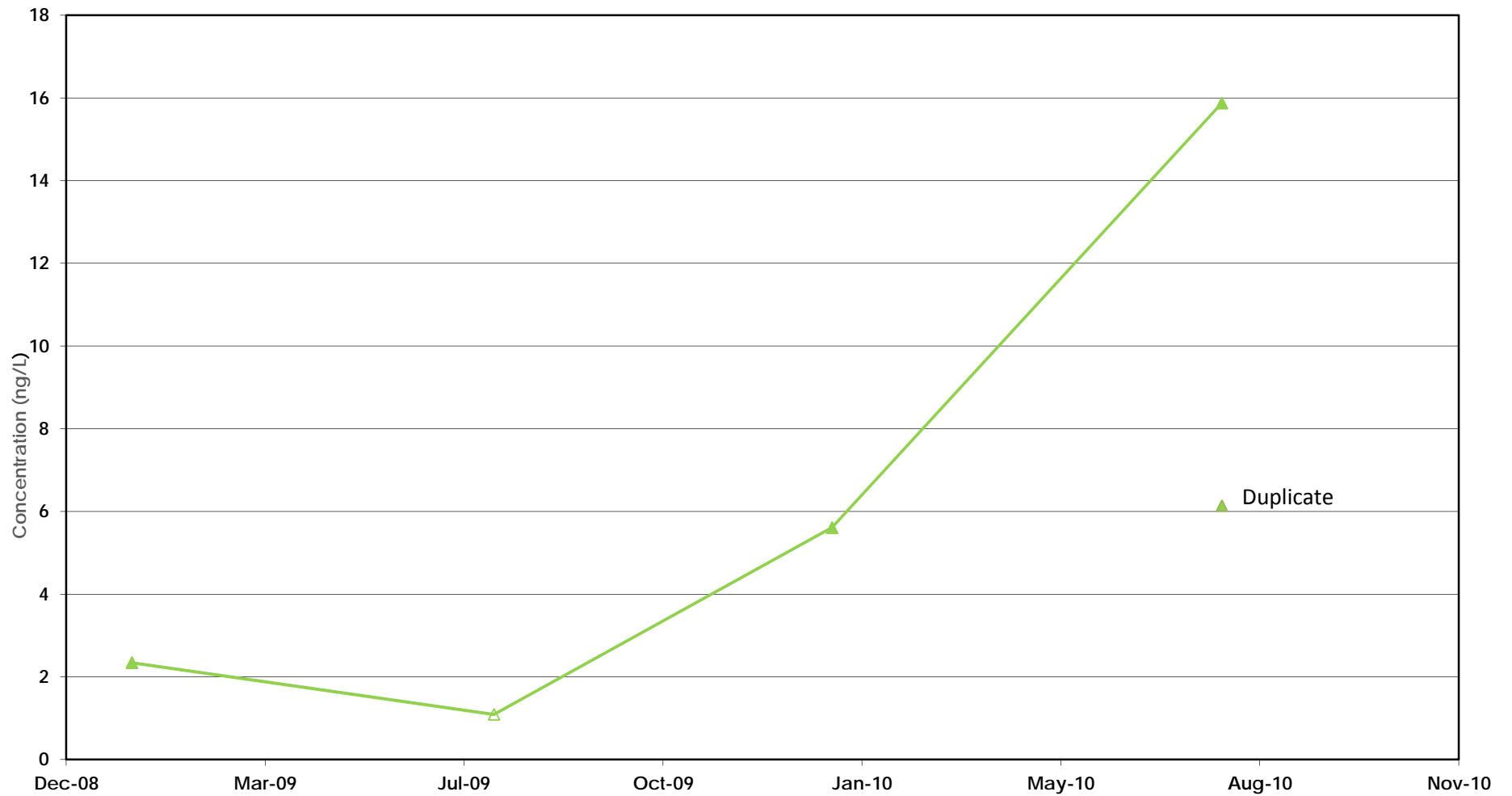
Monitor Well MWCL-1 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
Geosyntec consultants	
San Diego	October 2010
Figure A-27	

C:\Users\jrapater\Desktop\JRDY_9_1_2010.xls\Pop_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

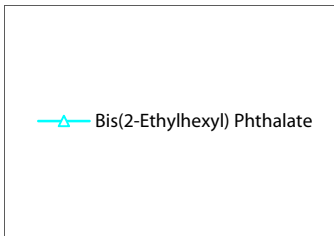
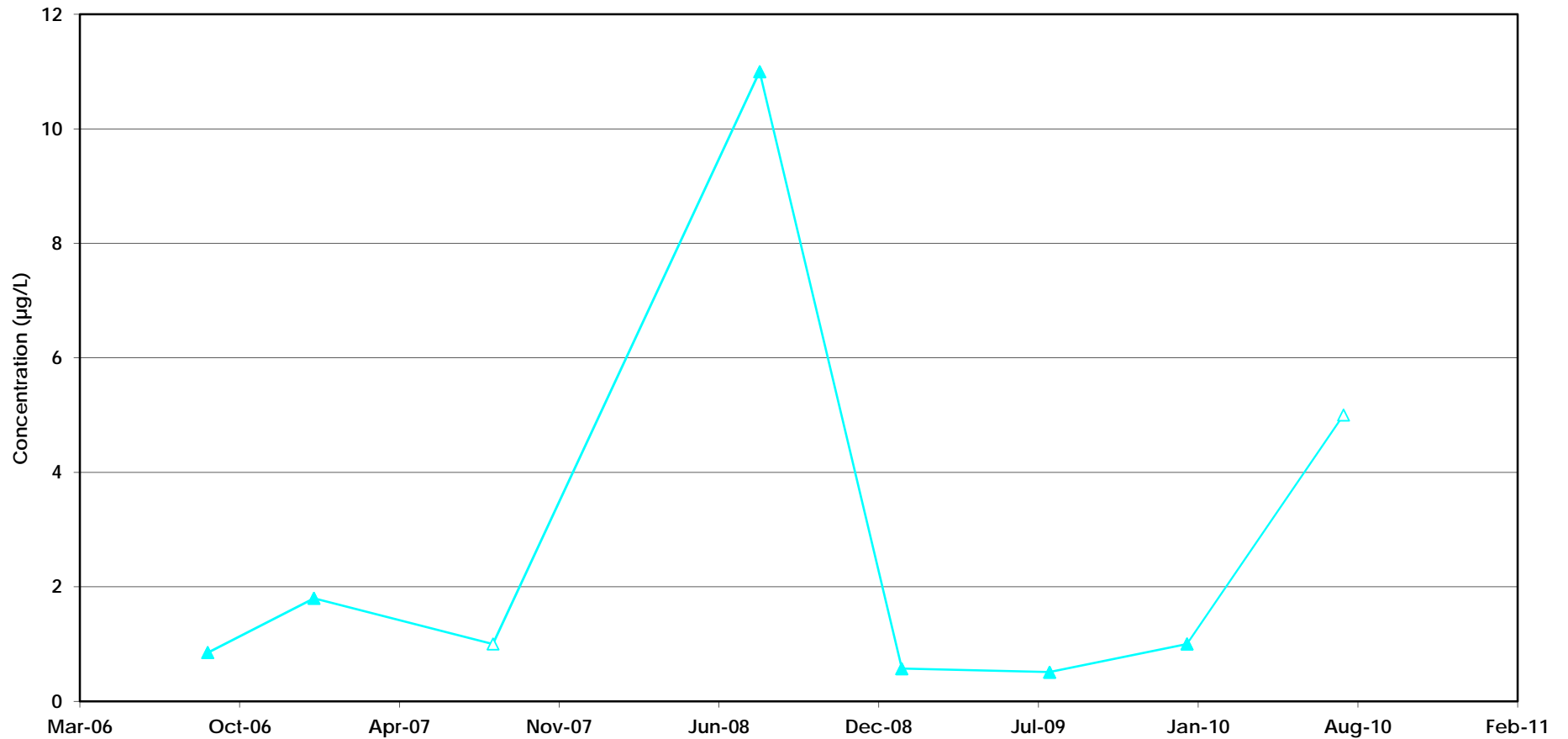
Monitor Well MWCL-2 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-28	




Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-2 Time-Series Graph for PCBs 2701 North Harbor Drive San Diego, California	
San Diego	March 2009
Figure A-29	

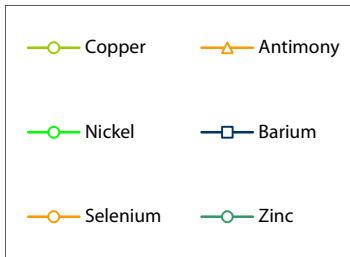
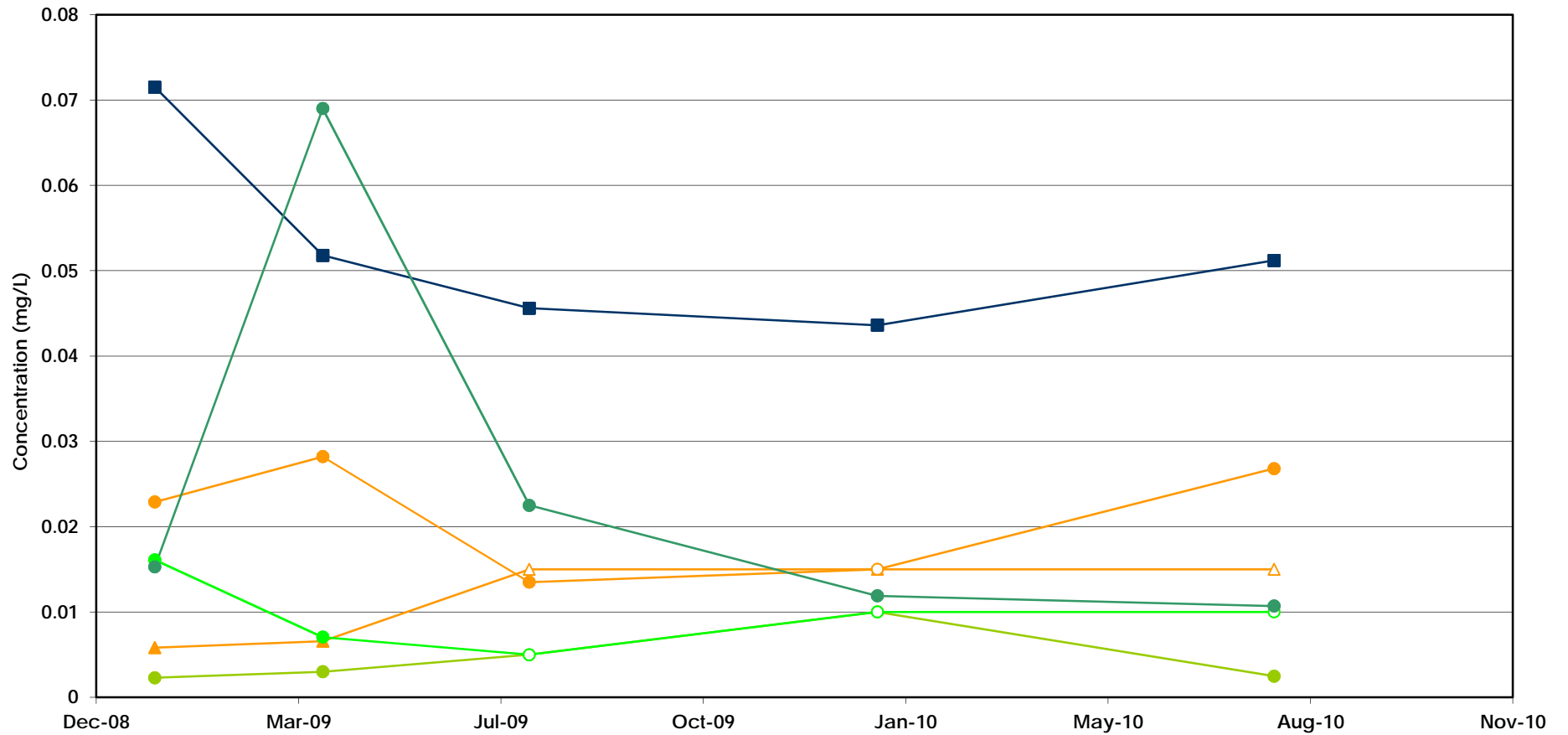
C:\Users\Vegetian\Desktop\TIDY_9_1_2010.xls\Pro_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

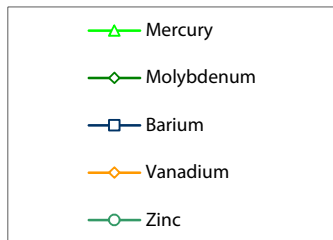
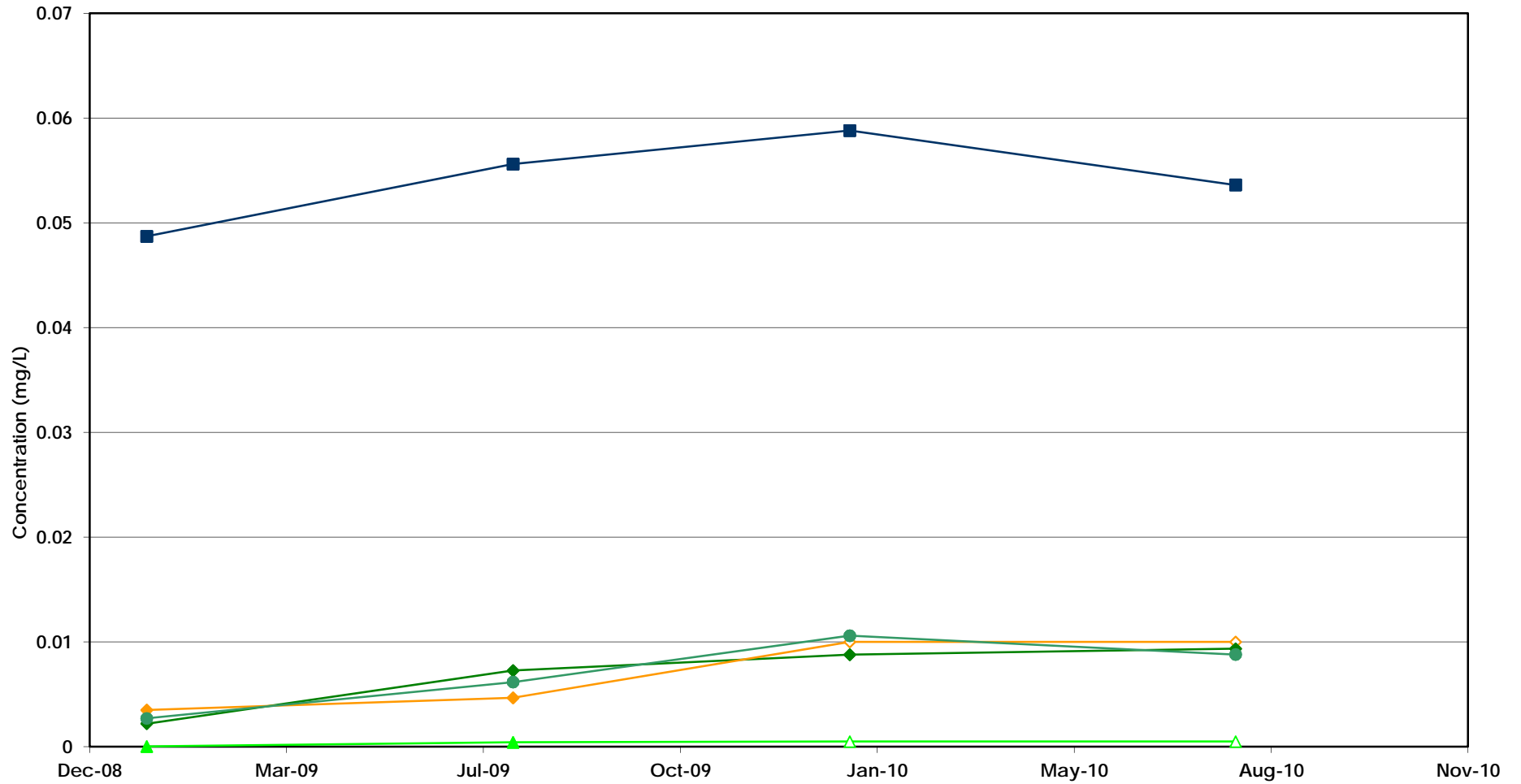
Monitor Well MWCL-3 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
Geosyntec  consultants	
San Diego	October 2010
Figure A-30	

C:\Users\Nepstein\Desktop\VTDY_9_1_2010.xls\Proc_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

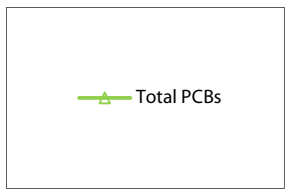
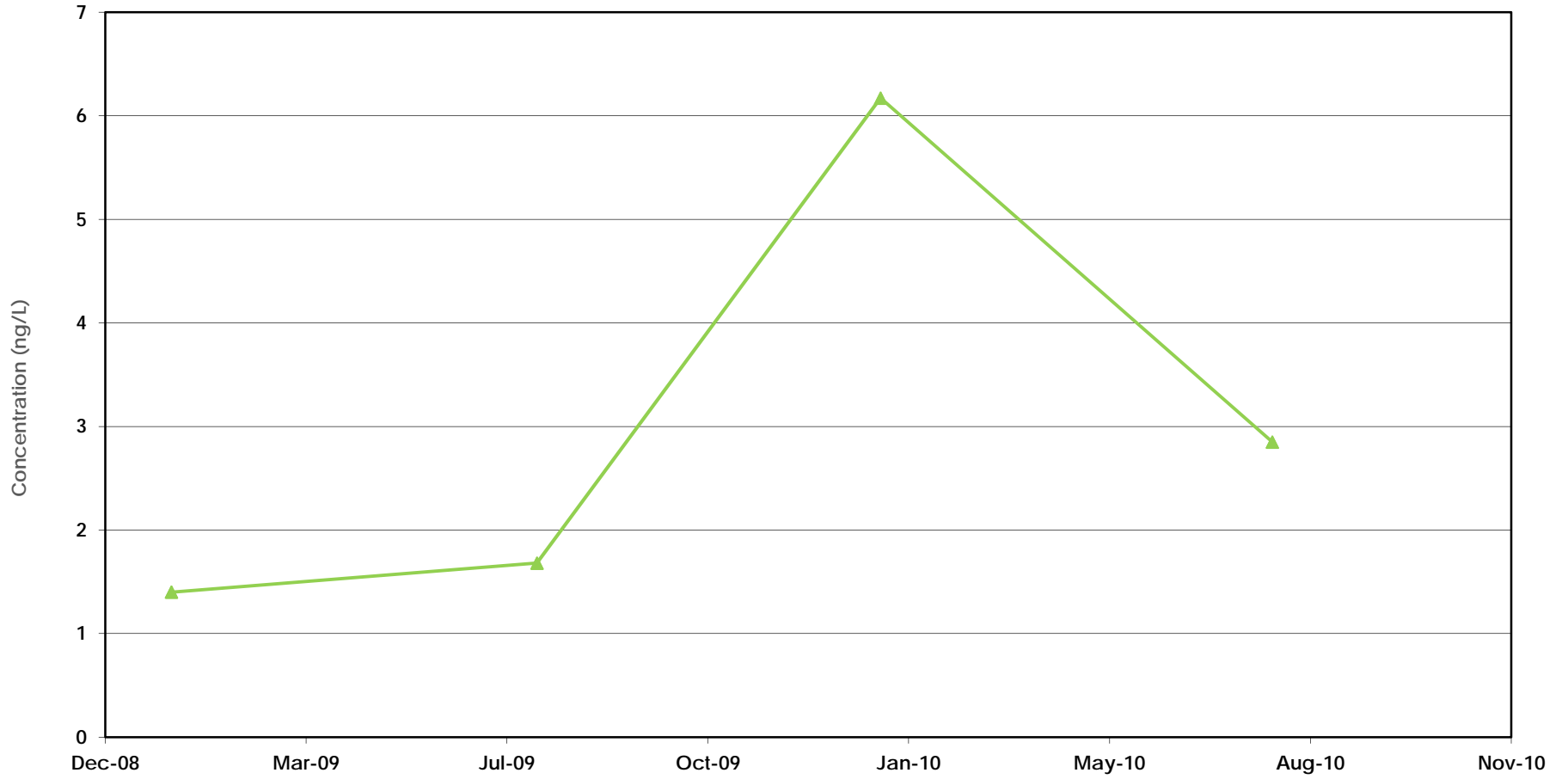
Monitor Well MWCL-3 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-31	



Open symbols represent non-detects (plotted at the method detection limit)

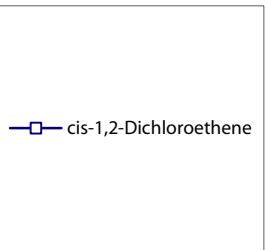
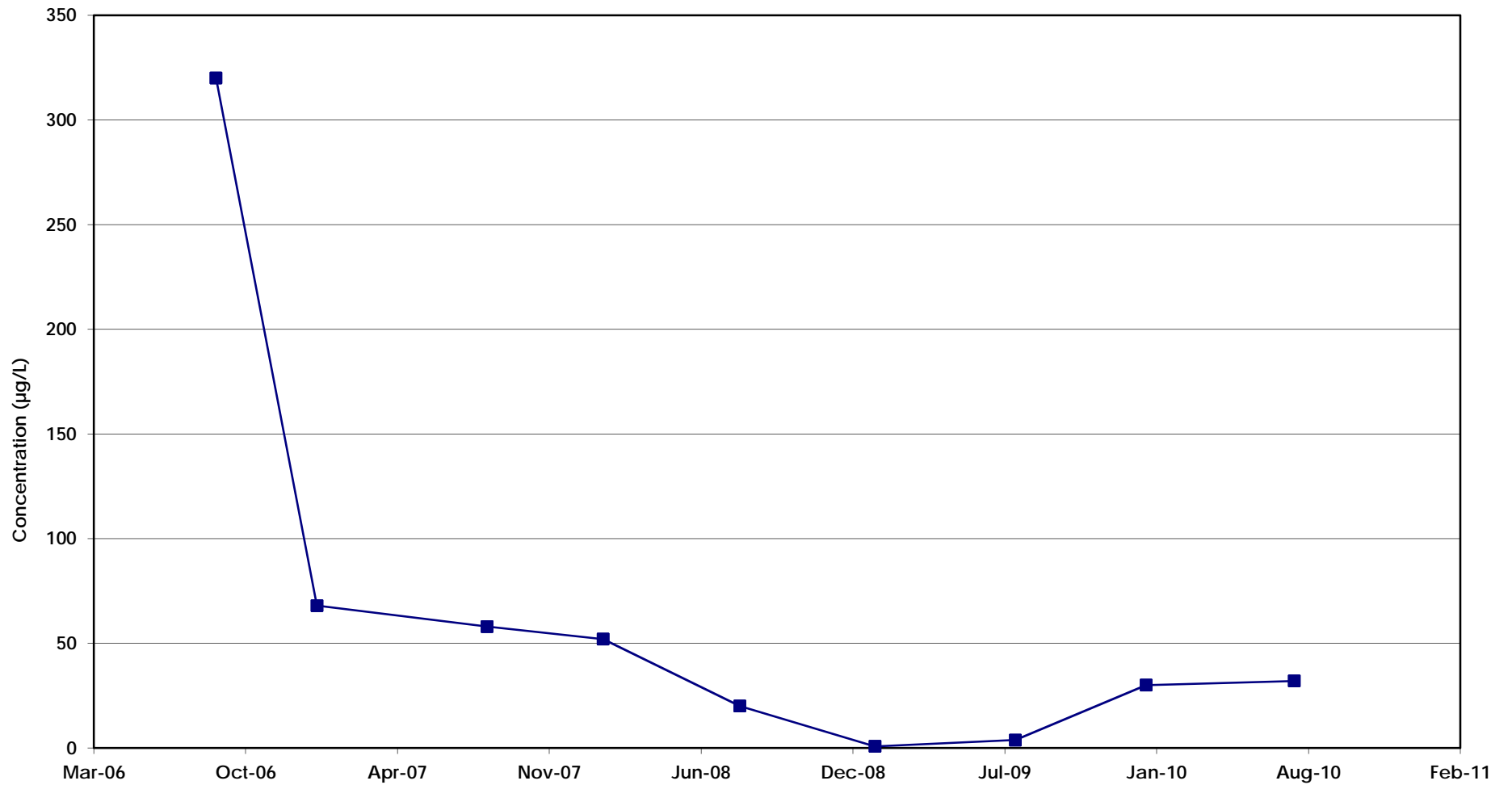
Monitor Well MWCL-4 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-32	

X:\SC0307 TDY Harbor Drive\Well Monitoring & Abandonment\Monitoring Report\3010\TDY_9_1_2010_ISPs.xls\TotalPCBs



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-4 Time-Series Graph for PCBs 2701 North Harbor Drive San Diego, California	
San Diego	March 2009
Figure A-33	



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-5
Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

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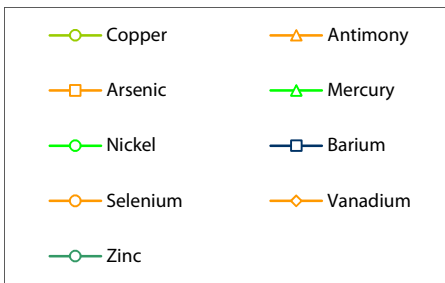
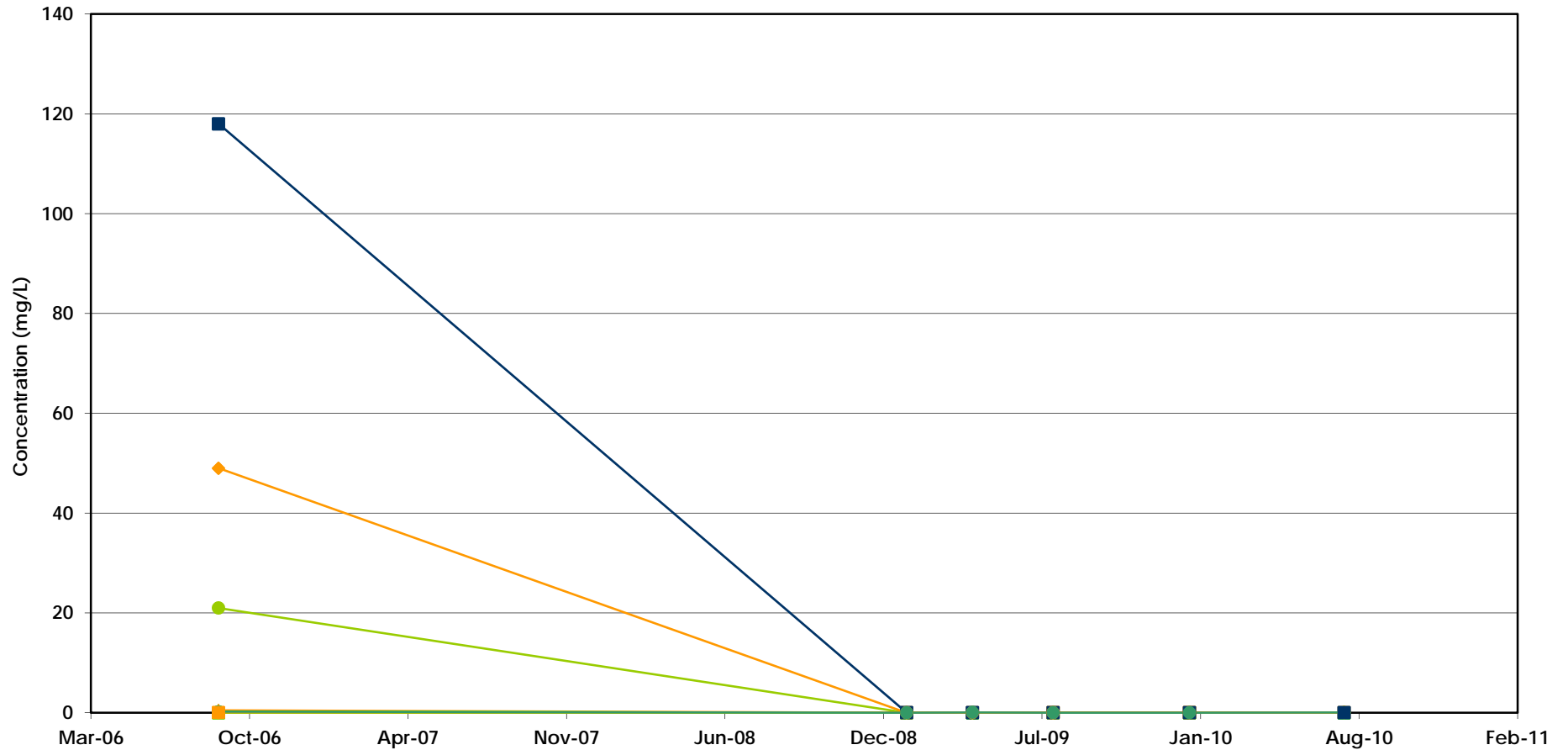
San Diego

October 2010

Figure

A-34

C:\Users\lepaten\Desktop\TDY_9_1_2010.xls\Plot_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-5
Time-Series Graph for Metals
2701 North Harbor Drive
San Diego, California

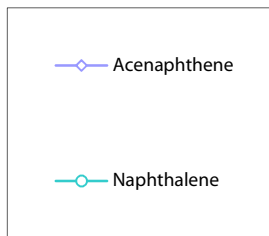
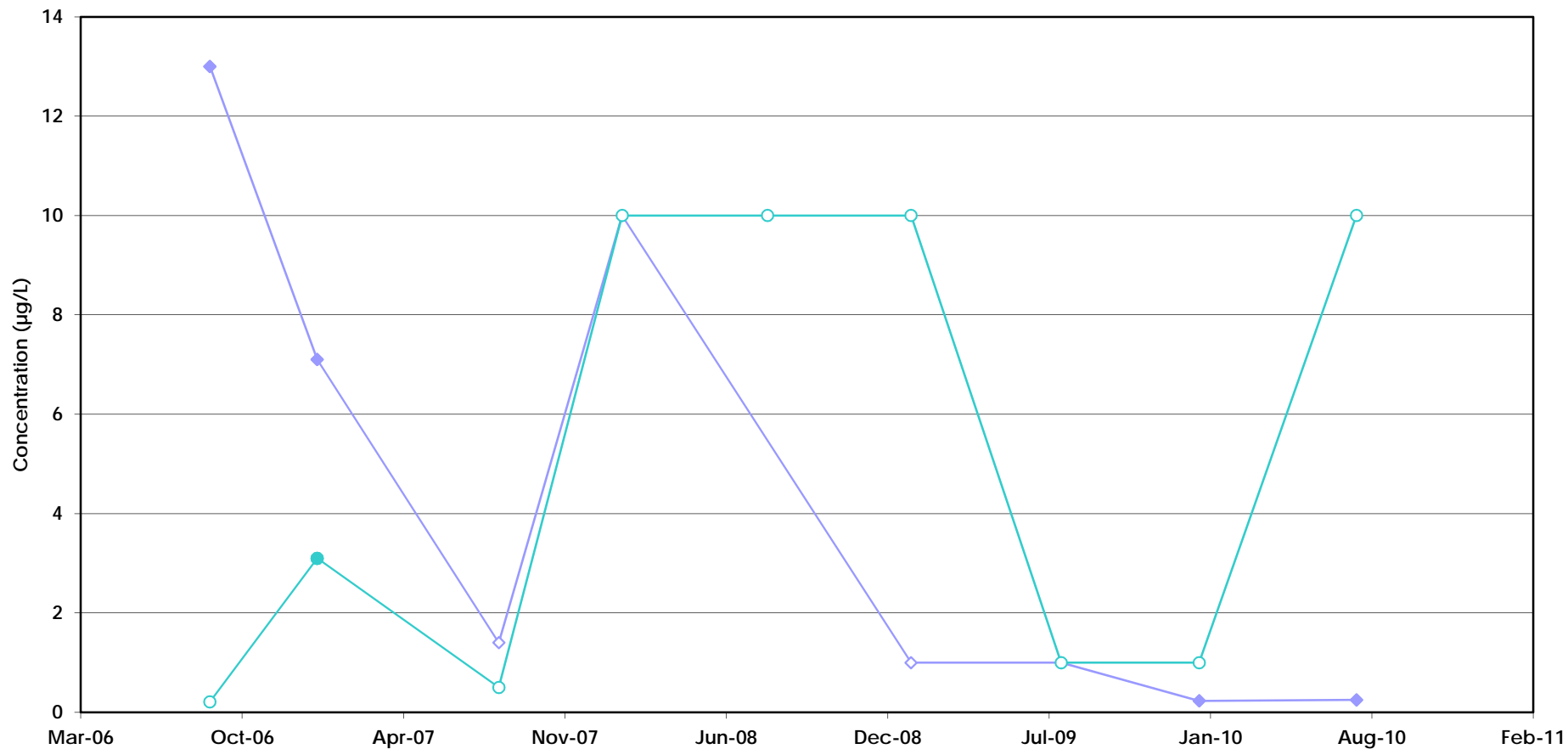


San Diego

October 2010

Figure
A-35

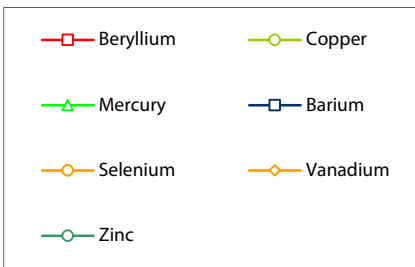
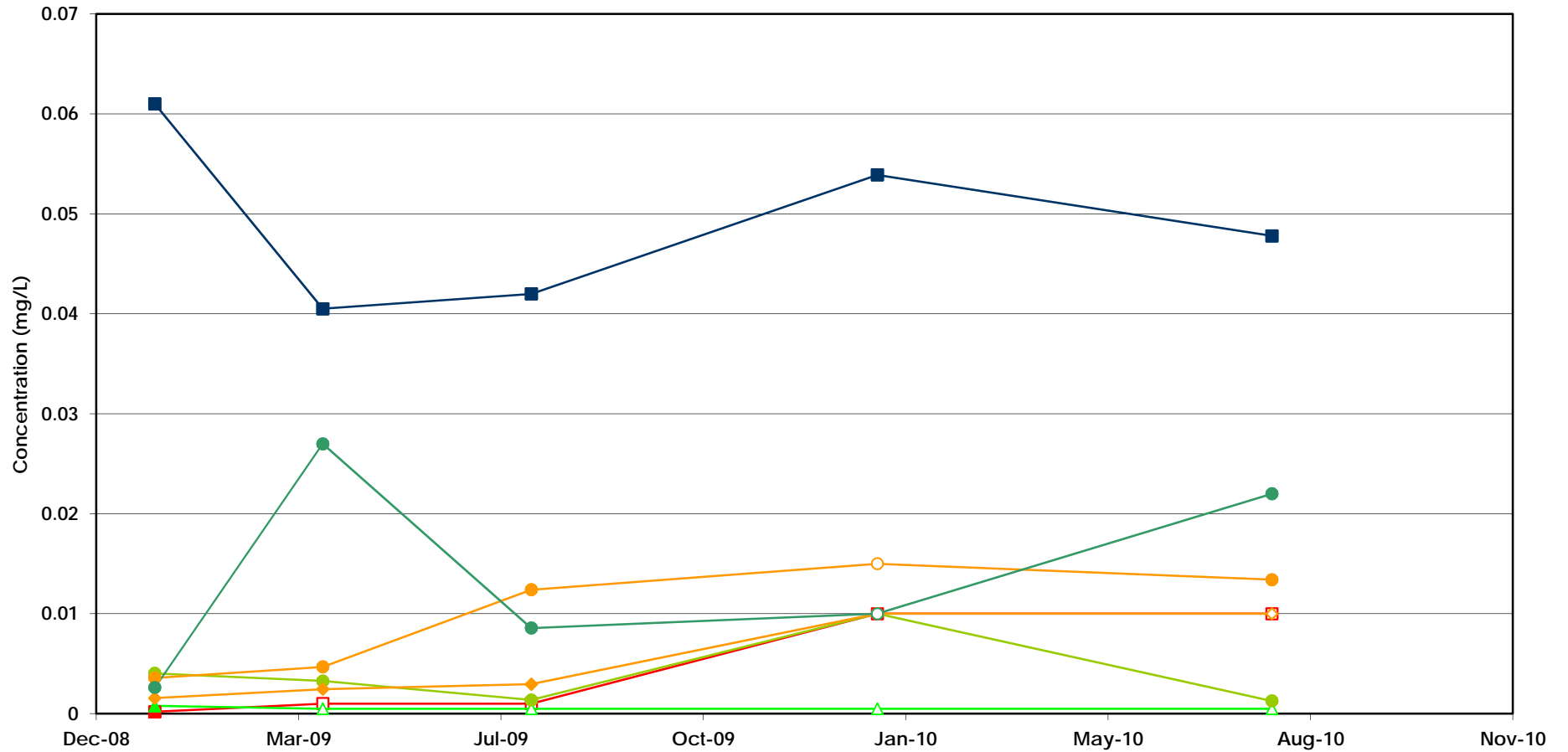
C:\Users\vepstein\Desktop\TIDY_9_1_2010.xls\Pro_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

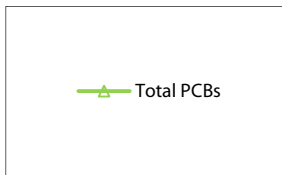
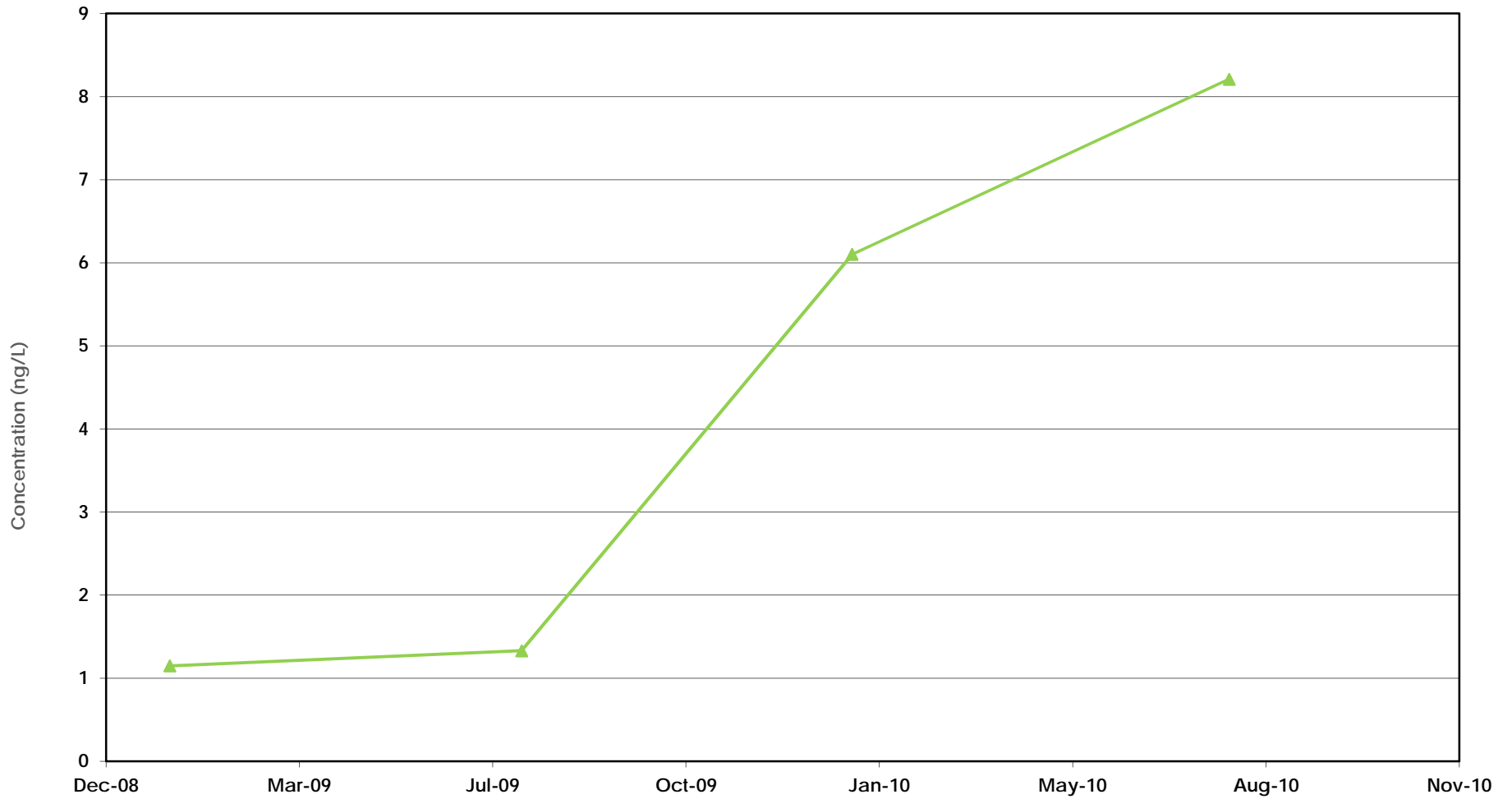
Monitor Well MWCL-6 Time-Series Graph for SVOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-36	

C:\Users\jpeplein\Desktop\TDX_9_1_2010.xls\Plot_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

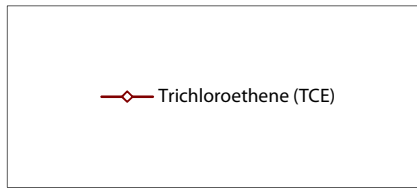
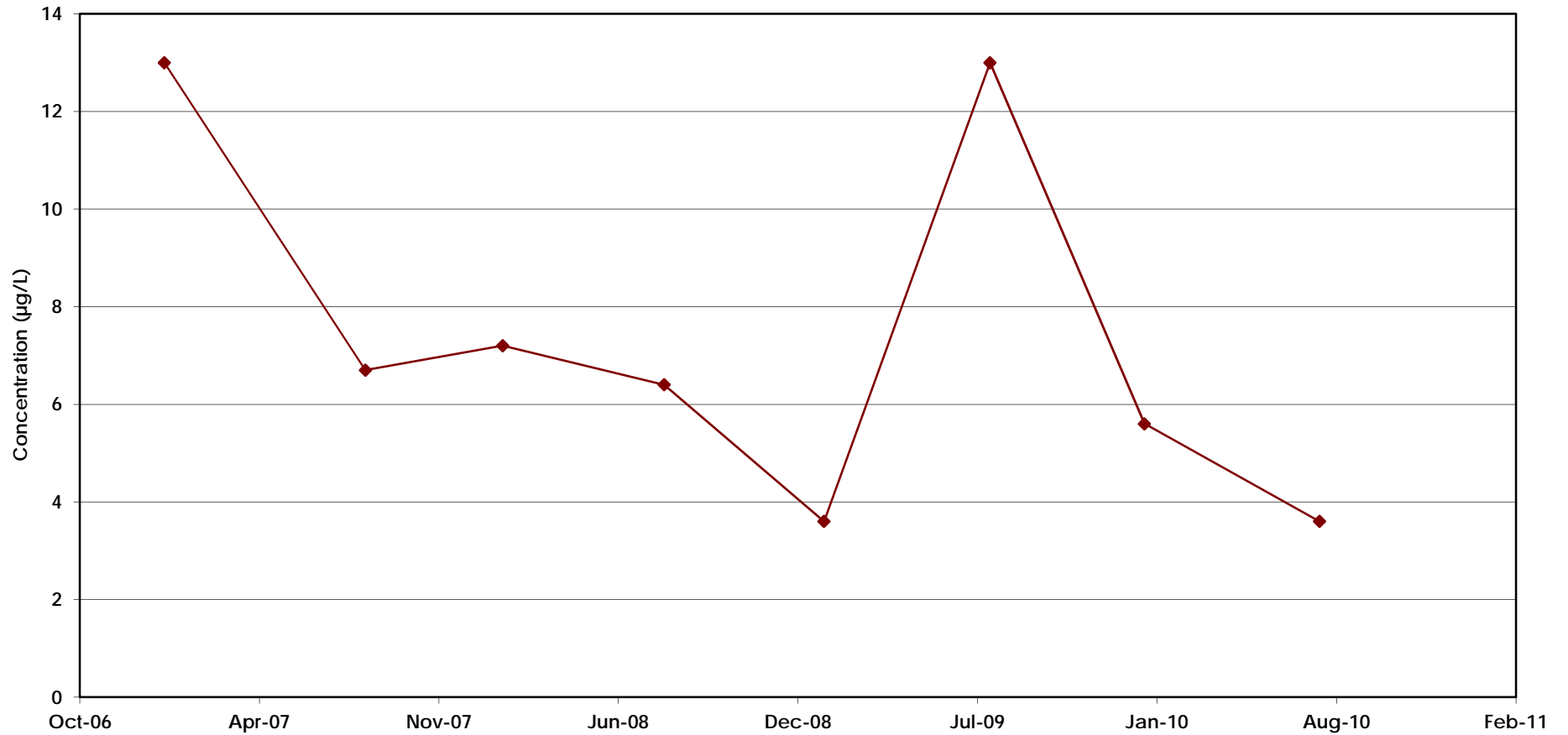
Monitor Well MWCL-6 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-37	



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-6 Time-Series Graph for PCBs 2701 North Harbor Drive San Diego, California	
Geosyntec consultants	
San Diego	March 2009
Figure A-38	

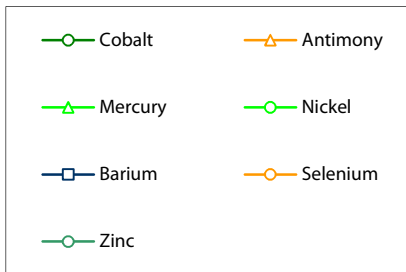
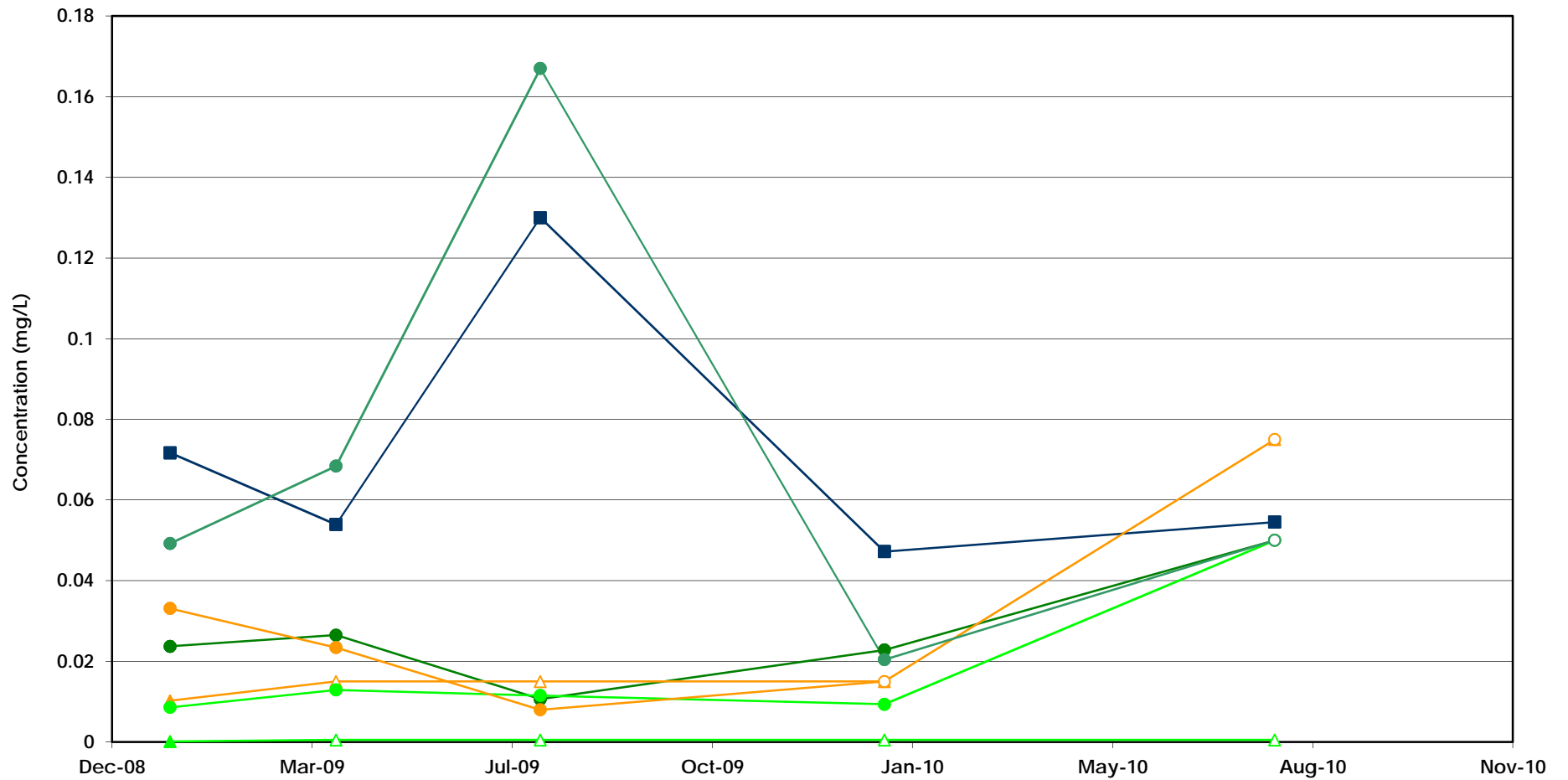
C:\Users\jpepstein\Desktop\TIDY_9_1_2010.xls\plot_Matias_MWCL-7



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-7 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-39	

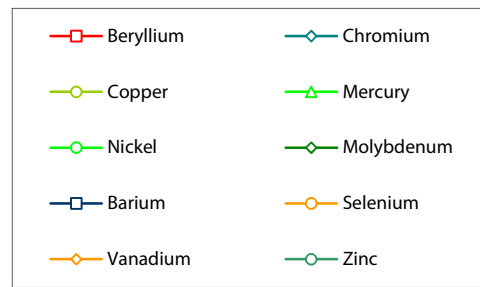
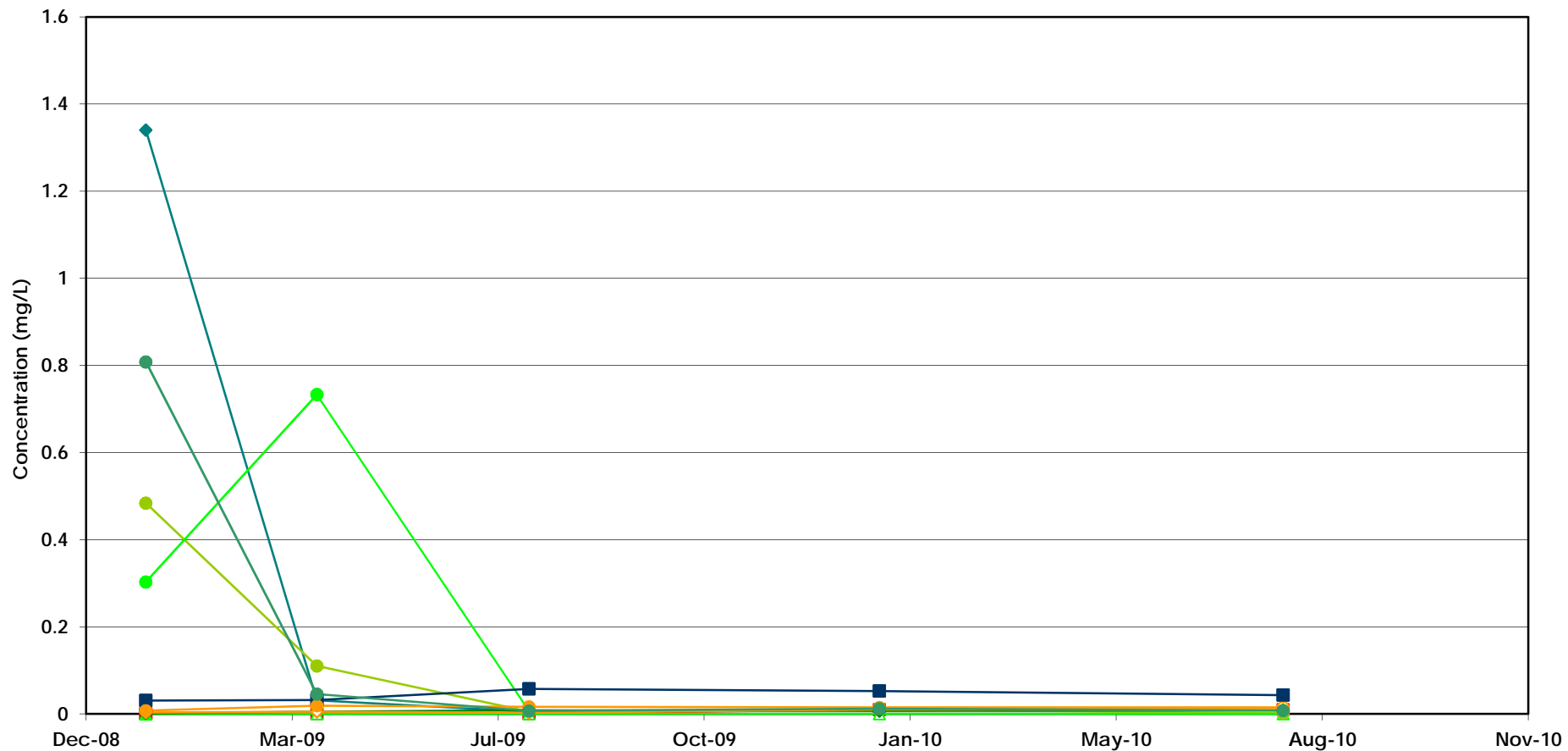
C:\Users\jplester\Desktop\ITDY_9_1_2010.xls\Plot_Metals_MWCL7



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-7 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-40	

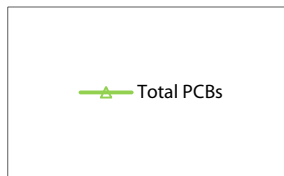
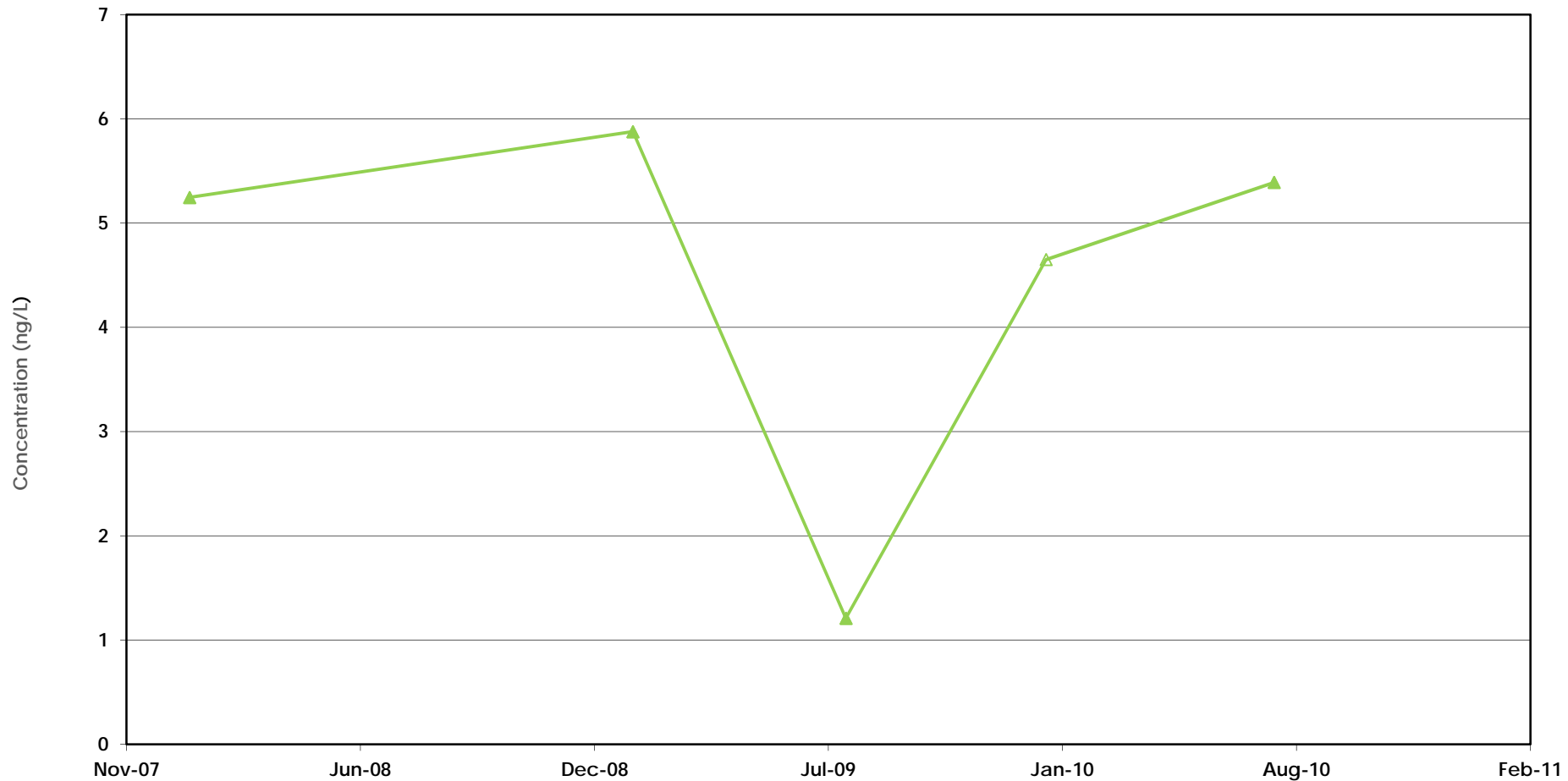
C:\Users\japstein\Desktop\TIDY_9_1_2010.xls\Plot_Metals_MWCL-1



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-8 Time-Series Graph for Metals 2701 North Harbor Drive San Diego, California	
San Diego	October 2010
Figure A-41	

X:\SC0807\TDY Harbor Drive\Well Monitoring & Abandonment\Monitoring Report\3010\TDY_9_1_2010_TSPs.xls\TotalPCBs



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-8
Time-Series Graph for PCBs
2701 North Harbor Drive
San Diego, California



San Diego

March 2009

Figure
A-42

APPENDIX B

Groundwater Sampling Field Forms

WELL GAUGING DATA

Project # 100721-KCI Date 07-21-10 Client Geosyntec

Site Geosyntec @ Telechrome Ryan

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	*Historical Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
BLD120-mw2	1114	4					6.25	13.33	TOC	
BLD120-mw1	1329	4					6.05	14.75		
BLD158-mw2	1542	2					6.73	16.56		
BLD131-mw2	1645	2					6.88	14.51		
AreaD-mw1	1803	2					8.37	16.69		
mwCL-5	0812	2					15.98	42.50		
mwCL-6	0807	2					10.04	14.90		
mwCL-7	0810	2					10.10 10.44	65.00		
AreaD-mw2	0940	2					7.20	15.67		
BLD120-mw9	1114	2					5.40	15.37		
BLD120-mw8	1250	2					6.08 6.07	15.22		
Fmp-mw1	1338	2					6.10	15.15		
BLD180-mw2	1432	2					6.69	13.35		
BLD131-mw4	0742	2					6.56	13.70		
BLD102-mw4	0853	2 4					6.70	17.80		
BLD120-mw7	1021	2					6.61	15.05		

WELL GAUGING DATA

Project # 100721-KC1

Date 7/21/10

Client Geosyntec

Site Geosyntec @ Teledyne Ryan San Diego

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
BLD120-MW6	7/21 1113	2					6.02	14.65		
BLD120-MW3	7/21 1300	4					6.20	14.35		
BLD166-MW4	7/21 1527	2					6.58	14.47		
BLD131-MW3	7/21 1636	2					6.68	14.46		
BLD131-MW6	7/21 1736	2					6.94	15.19		
MWEL-1	7/22 0900	2					6.81	42.20		
MWEL-2	7/22 0958	2					6.90	14.20		
MWEL-6	7/22 1125	2					10.04	14.90		
MWEL-7	7/22 1235	2					10.44	65.00		
MWEL-8R	7/22 1348	2					8.20	12.29		
BLD120-MW4	7/23 0736	2					5.04	14.55		
BLD120-MW5	7/23 0826	2					5.98	15.15 15.60		
MWEL-3	7/23 0947	2					9.17	43.40		
MWEL-4	7/23 1110	2					6.18	14.30		
BLD131-MW5	7/23 1240	2					7.80	13.55		

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: KC	Start Date: 07-21-10
Well I.D.: Area D - mw1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 116.69	Depth to Water: 8.37
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)
 Sampling Method: Dedicated Tubing (New Tubing) Other _____
 Flow Rate: 200 ml/min Pump Depth: 14.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water
1813	—	—	Start Purge	—	—	—	—	—
1816	22.2	11.32	2759	163	0.33	-74.6	600	8.41
1819	22.2	11.32	2754	128	0.32	-72.9	1,200	8.42
1822	22.3	11.31	2741	119	0.33	-71.3	1,800	8.42
1825	22.3	11.30	2736	114	0.33	-69.0	2,400	8.42
1828	22.3	11.29	2731	110	0.34	-68.1	3,000	8.42
1831	22.3	11.30	2733	106	0.33	-67.6	3,600	8.42

Did well dewater? Yes (No)	Amount actually evacuated: 3,600
Sampling Time: 1834	Sampling Date: 07-21-10
Sample I.D.: Area D - mw1	Laboratory: Coosciano
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See ROW
Equipment Blank I.D.: QCEB-1 @ Time 1855	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: KC	Start Date: 07-22-10
Well I.D.: Area D - mw2	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 15.67	Depth to Water: 7.20
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: 4SI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)

Sampling Method: Dedicated Tubing (New Tubing) Other _____

Flow Rate: 200 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0945	_____	_____	Start Purge	_____	_____	_____	_____	_____
0948	21.2	7.58	3430	16	0.36	-97.2	600	7.41
0951	21.4	7.51	3012	19	0.37	-108.1	1,200	7.44
0954	21.3	7.45	2911	20	0.26	-105.1	1,800	7.45
0957	21.3	7.42	3011	22	0.27	-102.9	2,400	7.45
1000	21.4	7.42	3080	23	0.27	-101.8	3,000	7.45
1003	21.3	7.41	3068	24	0.26	-101.4	3,600	7.45

Did well dewater? Yes (No)	Amount actually evacuated: 3,600 ml.
Sampling Time: 1006	Sampling Date: 07-22-10
Sample I.D.: Area D - mw2	Laboratory: CalScienc
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See below
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: <u>Geonintec</u>
Sampler: <u>KC</u>	Start Date: <u>07-23-10</u>
Well I.D.: <u>BLD102-mw4</u>	Well Diameter: <u>2</u> ⁱⁿ 3 <u>4</u> 6 8 _____
Total Well Depth: <u>17.80</u>	Depth to Water: <u>6.70</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI Plus</u>

Purge Method: <u>2" Grundfos Pump</u>	<u>Peristaltic Pump</u>	<u>Bladder Pump</u>
Sampling Method: <u>Dedicated Tubing</u>	<u>New Tubing</u>	Other _____
Flow Rate: <u>300 ml/min</u>	Pump Depth: <u>16'</u>	

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0906	_____	_____	<u>Start Purge</u>	_____	_____	_____	_____	_____
0909	22.1	7.83	3123	6	0.34	-85.1	900	6.87
0912	22.2	7.84	3121	2	0.30	-108.7	1800	6.87
0915	22.2	7.85	3078	2	0.20	-125.4	2700	6.87
0918	22.2	7.85	3035	2	0.18	-128.9	3600	6.87
0921	22.1	7.86	2971	2	0.17	-131.5	4500	6.87
0924	22.2	7.86	2949	2	0.17	-132.1	5400	6.87

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>5,400</u>
Sampling Time: <u>0927</u>	Sampling Date: <u>07-23-10</u>
Sample I.D.: <u>BLD102-mw4</u>	Laboratory: <u>Colscience</u>
Analyzed for: <u>TPH-G BTEX MTBE TPH-D</u>	Other: <u>See ROW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: KC	Start Date: 07-21-10
Well I.D.: BLD120-mw1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 14.75	Depth to Water: 6.05
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 300 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water
1342	_____	_____	Start Purge	_____	_____	_____	_____	_____
1345	19.8	6.93	3926	14	0.73	-152.3	900	6.28
1348	19.8	6.93	3928	14	0.26	-154.1	1,800	6.54
1351	19.8	6.93	3928	13	0.25	-154.3	2,700	6.72
1354	19.8	6.93	3929	12	0.23	-154.6	3,600	6.84
1357	19.8	6.93	3937	12	0.22	-155.1	4,500	6.92
1400	19.8	6.93	3941	13	0.21	-155.2	5,400	6.99

Did well dewater? Yes <input type="radio"/> <u>No</u> <input checked="" type="radio"/>	Amount actually evacuated: 5400ml.
Sampling Time: 1403	Sampling Date: 07-21-10
Sample I.D.: BLD120-mw1	Laboratory: CalSevenco
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Sell
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: geosyntec
Sampler: KC	Start Date: 07-21-10
Well I.D.: BLD120-mw2	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 13.33	Depth to Water: 6.25
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI P100</u>

Purge Method: 2" Grundfos Pump	Peristaltic Pump	<u>Bladder Pump</u>
Sampling Method: Dedicated Tubing	<u>New Tubing</u>	Other _____
Flow Rate: <u>300 ml/min</u>	Pump Depth: <u>12'</u>	

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water
1140	_____	_____	Start Purge	_____	_____	_____	_____	_____
1143	23.0	6.86	2975	49	0.42	-153.7	^{KLC} 300 900	6.87
1146	23.0	6.86	2972	43	0.29	-152.2	1,800	6.92
1149	23.1	6.87	2957	44	0.19	-149.5	2,700	7.00
1152	23.1	6.87	2953	43	0.19	-148.9	3,600	7.05
1155	23.1	6.86	2935	43	0.18	-147.3	4,500	^{KLC} 67 7.08
1158	23.0	6.86	2925	44	0.18	-146.0	5,400	7.11

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 5,400 ml.
Sampling Time: 1201	Sampling Date: 07-21-10
Sample I.D.: BLD120-mw2	Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: _____
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: BLD120-mw2-B @ 1201

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KU</u>	Client: <u>Freosyntec</u>
Sampler: <u>SIC</u>	Start Date: <u>7/21/10</u>
Well I.D.: <u>BLD120-MW3</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>14.35</u>	Depth to Water: <u>6.20</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI-556 ProPlus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 100 mL/min Pump Depth: 13.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1312	23.1	6.84	5095	47	0.60	-125.2	300	6.27
1315	22.7	6.86	5160	46	0.48	-131.1	600	6.27
1318	22.5	6.46	5169	46	0.41	-132.1	900	6.32
1321	22.4	6.85	5182	46	0.37	-134.2	1200	6.38
1324	22.5	6.85	5177	43	0.32	-135.4	1500	6.41
1327	22.6	6.85	5176	42	0.30	-136.6	1800	6.44

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>186</u>
Sampling Time: <u>1332</u>	Sampling Date: <u>7/21/10</u>
Sample I.D.: <u>BLD120-MW3</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See SOW</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>10072HKL1</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7/23/10</u>
Well I.D.: <u>BLD120-ALW4</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>14.55</u>	Depth to Water: <u>5.04</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI ProPlus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>Not Tubing</u>	Other _____
Flow Rate: <u>100 mL/min</u>	Pump Depth: <u>13.5'</u>	

Time	Temp. (<u>°C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water
<u>0744</u>	<u>24.4</u>	<u>7.09</u>	<u>5571</u>	<u>120</u>	<u>0.69</u>	<u>-126.9</u>	<u>300</u>	<u>5.09</u>
<u>0747</u>	<u>24.7</u>	<u>7.27</u>	<u>5661</u>	<u>220</u>	<u>0.19</u>	<u>-155.3</u>	<u>600</u>	<u>5.13</u>
<u>0750</u>	<u>24.7</u>	<u>7.28</u>	<u>5544</u>	<u>206</u>	<u>0.15</u>	<u>-154.4</u>	<u>900</u>	<u>5.14</u>
<u>0753</u>	<u>24.4</u>	<u>7.28</u>	<u>5521</u>	<u>199</u>	<u>0.15</u>	<u>-160.0</u>	<u>1200</u>	<u>5.21</u>
<u>0756</u>	<u>24.9</u>	<u>7.27</u>	<u>5490</u>	<u>195</u>	<u>0.17</u>	<u>-160.5</u>	<u>1500</u>	<u>5.24</u>
<u>0759</u>	<u>24.8</u>	<u>7.27</u>	<u>5489</u>	<u>154</u>	<u>0.14</u>	<u>-161.3</u>	<u>2400</u>	<u>5.30</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>2.4L</u>
Sampling Time: <u>0750H</u>	Sampling Date: <u>7/23/10</u>
Sample I.D.: <u>BLD120-ALW4</u>	Laboratory: <u>CalScience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See Ser.</u>
Equipment Blank I.D.: _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KC1</u>	Client: <u>Greenpoint</u>
Sampler: <u>SK</u>	Start Date: <u>7/23/07</u>
Well I.D.: <u>BLD120-MWS</u>	Well Diameter: <u>0</u> 3 4 6 8 _____
Total Well Depth: <u>14.5</u>	Depth to Water: <u>5.98</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI ProPlus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>New</u> Tubing	Other _____
Flow Rate: <u>200ml/min</u>	Pump Depth: <u>14.5'</u>	

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0835	26.0	7.20	7725	41	0.46	-77.5	600	6.25
0836	25.2	7.17	7719	36	0.32	-88.9	1200	6.28
0841	25.3	7.17	7601	25	0.30	-89.9	1900	6.24
0844	25.3	7.16	7715	22	0.31	-89.2	2400	6.28
0847	25.3	7.16	7514	17	0.29	-87.4	3000	6.30
0850	25.4	7.16	7332	16	0.29	-85.7	3600	6.30
0853	25.2	7.16	7310	16	0.29	-84.2	4200	6.30

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>4.2L</u>
Sampling Time: <u>0856</u>	Sampling Date: <u>7/23/07</u>
Sample I.D.: <u>BLD120-MWS</u>	Laboratory: <u>CEL Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See below</u>
Equipment Blank I.D.: _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-1001</u>	Client: <u>Freeosyntec</u>
Sampler: <u>SR</u>	Start Date: <u>7/21/10</u>
Well I.D.: <u>B6D122-MW6</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>1455</u>	Depth to Water: <u>6.02</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI SSC P12 Plus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	<u>Bladder Pump</u>
Sampling Method: <u>Dedicated Tubing</u>	<u>New Tubing</u>	Other _____
Flow Rate: <u>100 ml/min</u>	Pump Depth: <u>13.5'</u>	

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water
1123	24.4	6.42	2181	103	0.53	-144.9	300	6.10
1126	24.2	6.42	2186	80	0.35	-147.9	600	6.12
1127	24.1	6.41	2125	45	0.31	-147.4	900	6.20
1132	24.1	6.80	2101	39	0.28	-147.2	1200	6.22
1135	24.2	6.79	2084	32	0.27	-147.3	1500	6.26
1138	24.2	6.79	2063	30	0.23	-147.2	1800	6.27
1141	24.2	6.74	2049	29	0.22	-147.0	2100	6.29

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>2.1L</u>
Sampling Time: <u>1146</u>	Sampling Date: <u>7/21/10</u>
Sample I.D.: <u>B6D122-MW6</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See SOW.</u>
Equipment Blank I.D.: _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: <u>Geosyntec</u>
Sampler: <u>KC</u>	Start Date: <u>07-23-10</u>
Well I.D.: <u>BLD120-mw7</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>15.05</u>	Depth to Water: <u>6.61</u>
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 100 mL/min Pump Depth: 13.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>(µS)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>(mL)</u>)	Depth to Water
1034	_____	_____	Start Purge	_____	_____	_____	_____	_____
1037	21.7	6.95	5726	7	0.58	-117.4	300	6.91
1040	21.8	6.95	5686	6	0.46	-120.4	600	7.07
1043	21.8	6.95	5692	6	0.40	-122.0	900	7.17
1046	21.9	6.95	5674	7	0.37	-122.9	1,200	7.25
1049	21.9	6.95	5659	7	0.36	-123.5	1,500	7.30
1052	21.9	6.95	5657	7	0.35	-124.0	1,800	7.34

Did well dewater? Yes (No) Amount actually evacuated: 1,800

Sampling Time: 1055 Sampling Date: 07-23-10

Sample I.D.: BLD120-mw7 Laboratory: Calcochem

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See SW

Equipment Blank I.D.: QCEB-5 ^(#) _{Time} 1120 Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: KC	Start Date: 07-22-10
Well I.D.: BLD120-mw8	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 15.22	Depth to Water: 6.07
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)

Sampling Method: Dedicated Tubing (New Tubing) Other _____

Flow Rate: 200 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1251	_____	_____	Start Purge	_____	_____	_____	_____	_____
1254	22.1	6.71	2409	11	0.30	-123.3	600	6.44
1257	22.1	6.71	2431	12	0.24	-126.5	1,200	6.57
1300	22.1	6.70	2423	13	0.25	-128.9	1,800	6.70
1303	22.1	6.70	2426	12	0.23	-131.6	2,400	6.76
1306	22.1	6.70	2437	13	0.21	-133.0	3,000	6.79
1309	22.2	6.70	2445	13	0.21	-133.8	3,600	6.80

Did well dewater? Yes (No)	Amount actually evacuated: 3,600
Sampling Time: 1312	Sampling Date: 07-22-10
Sample I.D.: BLD120-mw8	Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See SOW
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: <u>Geodyntec</u>
Sampler: <u>KC</u>	Start Date: <u>07-22-10</u>
Well I.D.: <u>BLD120-mw9</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>15.37</u>	Depth to Water: <u>5.40</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)
 Sampling Method: Dedicated Tubing (New Tubing) Other
 Flow Rate: 200 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>(µS)</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>(mL)</u>)	Depth to Water
1119			Start Purge				to KIC	
1122	21.6	6.88	3703	109	0.28	-172.4	600	5.90
1125	21.8	6.88	3699	71	0.50	-170.0	1,200	6.20
1128	21.9	6.87	3696	66	0.32	-169.1	1,800	6.40
1131	21.9	6.87	3692	61	0.28	-169.8	2,400	6.56
1134	21.9	6.87	3686	63	0.26	-169.9	3,000	6.61
1137	21.9	6.87	3679	66 ^{KIC} 66	0.25	-169.0	3,600	6.65

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: <u>3,600 ml.</u>
Sampling Time: <u>1140</u>	Sampling Date: <u>07-22-10</u>
Sample I.D.: <u>BLD120-mw9</u>	Laboratory: <u>CalScience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See SOW</u>	
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: VC	Start Date: 07-21-10
Well I.D.: BLD131-mw2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 14.51	Depth to Water: 6.88
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI PLOW

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)

Sampling Method: Dedicated Tubing (New Tubing) Other _____

Flow Rate: 200 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water
1658	_____	_____	Start Purge	_____	_____	_____	_____	_____
1701	23.1	7.02	4841	25	0.51	-104.5	600	7.02
1704	23.1	7.02	4907	23	0.33	-110.1	1,200	7.02
1707	23.1	6.98	4711	21	0.30	-111.5	1,800	7.02
1710	23.0	6.94	4456	14	0.26	-109.8	2,400	7.02
1713	23.1	6.91	4041	12	0.25	-108.7	3,000	7.02
1716	23.1	6.90	3891	11	0.19	-109.8	3,600	7.02
1719	23.0	6.89	3860	11	0.17	-110.6	4,200	7.02
1722	23.0	6.89	3839	11	0.18	-111.4	4,800	7.02

Did well dewater? Yes (No)	Amount actually evacuated: 4,800 ml.
Sampling Time: 1725	Sampling Date: 07-21-10
Sample I.D.: BLD131-mw2	Laboratory: CalScienco
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See Sow
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>10072-KV</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7/21/10</u>
Well I.D.: <u>BLD131-MW3</u>	Well Diameter: <u>6</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>14.46</u>	Depth to Water: <u>6.64</u>
Depth to Free Product: <u> </u>	Thickness of Free Product (feet): <u> </u>
Referenced to: <u>VC</u> Grade	Flow Cell Type: <u>YSI 556 ProPlus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other:

Flow Rate: 200ml/min Pump Depth: 13.5'

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<u>1645</u>	<u>24.0</u>	<u>7.11</u>	<u>4691</u>	<u>17</u>	<u>0.46</u>	<u>-124.3</u>	<u>600</u>	<u>6.94</u>
<u>1648</u>	<u>23.5</u>	<u>7.09</u>	<u>4527</u>	<u>13</u>	<u>0.33</u>	<u>-130.6</u>	<u>1200</u>	<u>6.95</u>
<u>1651</u>	<u>23.4</u>	<u>7.07</u>	<u>4451</u>	<u>14</u>	<u>0.33</u>	<u>-133.0</u>	<u>1800</u>	<u>6.95</u>
<u>1654</u>	<u>23.2</u>	<u>7.07</u>	<u>4444</u>	<u>11</u>	<u>0.32</u>	<u>-134.7</u>	<u>2400</u>	<u>6.94</u>
<u>1657</u>	<u>23.2</u>	<u>7.07</u>	<u>4416</u>	<u>10</u>	<u>0.32</u>	<u>-135.7</u>	<u>3000</u>	<u>6.94</u>
<u>1700</u>	<u>23.2</u>	<u>7.06</u>	<u>4346</u>	<u>10</u>	<u>0.32</u>	<u>-136.6</u>	<u>3600</u>	<u>6.92</u>

Did well dewater? Yes No Amount actually evacuated: 3.6L

Sampling Time: 1705 Sampling Date: 7/21/10

Sample I.D.: BLD131-MW3 Laboratory: CalScience

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See SW

Equipment Blank I.D.: Duplicate I.D.: BLD131-MW3-B

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KCI	Client: Geosyntec
Sampler: KC	Start Date: 07-23-10
Well I.D.: BLD131-mw4	Well Diameter: (2) 3 4 6 8 _____
Total Well Depth: 13.70	Depth to Water: 6.56
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI P660

Purge Method: 2" Grundfos Pump Peristaltic Pump ~~Bladder Pump~~
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 300 ml/min Pump Depth: 12.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water
0806	_____	_____	Start	Purge	_____	_____	_____	_____
0809	24.5	6.83	1610	189	0.20	-104.3	900	6.86
0812	24.5	6.83	1603	175	0.20	-105.3	1,800	6.88
0815	24.6	6.83	1599	161	0.17	-107.6	2,700	6.89
0818	24.6	6.84	1596	120	0.16	-109.0	3,600	6.90
0821	24.5	6.86	1593	116	0.17	-111.4	4,500	6.90
0824	24.5	6.86	1589	119	0.18	-113.0	5,400	6.90
							6,300 ml	

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 5,400
Sampling Time: 0827	Sampling Date: 07-23-10
Sample I.D.: BLD131-mw4	Laboratory: CalScienco
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See SOW
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KC1</u>	Client: <u>Geosyntec</u>
Sampler: <u>GC</u>	Start Date: <u>7/23/10</u>
Well I.D.: <u>BLD131-11WS</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>13.55</u>	Depth to Water: <u>7.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VS110 Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200ml/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>GL</u>)	Depth to Water
<u>1239</u>	<u>25.5</u>	<u>7.10</u>	<u>4726</u>	<u>250</u>	<u>0.34</u>	<u>-137.6</u>	<u>600</u>	<u>7.91</u>
<u>1242</u>	<u>25.1</u>	<u>7.18</u>	<u>4614</u>	<u>219</u>	<u>0.31</u>	<u>-142.9</u>	<u>1200</u>	<u>7.91</u>
<u>1245</u>	<u>25.5</u>	<u>7.14</u>	<u>4584</u>	<u>204</u>	<u>0.32</u>	<u>-141.6</u>	<u>1900</u>	<u>7.93</u>
<u>1249</u>	<u>25.3</u>	<u>7.17</u>	<u>4563</u>	<u>172</u>	<u>0.40</u>	<u>-141.0</u>	<u>2400</u>	<u>7.94</u>
<u>1251</u>	<u>25.0</u>	<u>7.16</u>	<u>4505</u>	<u>164</u>	<u>0.39</u>	<u>-139.7</u>	<u>3000</u>	<u>7.95</u>
<u>1254</u>	<u>25.1</u>	<u>7.17</u>	<u>4551</u>	<u>156</u>	<u>0.39</u>	<u>-138.4</u>	<u>3600</u>	<u>7.95</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1300</u>	Sampling Date: <u>7/23/10</u>
Sample I.D.: <u>BLD131-11WS</u>	Laboratory: <u>CEL Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See below</u>	
Equipment Blank I.D.: <u>QCEB-6</u> @ <u>1335</u> Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KC1</u>	Client: <u>Geosyntec</u>
Sampler: <u>SIC</u>	Start Date: <u>7/21/10</u>
Well I.D.: <u>BDD131-MW6</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>15.19</u>	Depth to Water: <u>6.94</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>RVC</u> Grade	Flow Cell Type: <u>YS1556n ProPlus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	New Tubing	Other <u> </u>
Flow Rate: <u>200ml/min</u>	Pump Depth: <u>14'</u>	

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1743	24.2	7.16	5166	29	0.69	-116.9	600	7.00
1746	24.4	7.13	5247	27	0.35	-126.3	1200	6.94
1749	24.2	7.12	5254	29	0.24	-128.2	1800	6.94
1752	24.2	7.09	5090	36	0.20	-125.3	2400	6.99
1755	24.2	7.05	5022	33	0.21	-124.3	3000	7.02
1758	24.1	7.05	4961	34	0.20	-123.1	3600	7.01

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1803</u>	Sampling Date: <u>7/21/10</u>
Sample I.D.: <u>BDD131-MW6</u>	Laboratory: <u>C/S Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See Sow</u>
Equipment Blank I.D.: <u>QCEB-2</u> @ <u>1825</u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KC1</u>	Client: <u>Freebytec</u>
Sampler: <u>SK</u>	Start Date: <u>7/21/10</u>
Well I.D.: <u>BLD158-MW1</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>14.97</u>	Depth to Water: <u>6.56</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PTC</u> Grade	Flow Cell Type: <u>4.13.5' 1/2 1556 Pico Plus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>New</u> Tubing	Other <u> </u>
Flow Rate: <u>200 ml/min</u>	Pump Depth: <u>13.5'</u>	

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or L)	Depth to Water
1537	20.6	7.15	6522	60	0.72	129.5	600	6.69
1540	20.0	7.07	6544	43	0.37	132.3	1200	6.66
1543	19.6	7.13	5861	47	0.36	132.8	1400	6.65
1546	19.4	7.24	5165	57	0.37	132.2	2400	6.67
1549	19.3	7.33	4412	64	0.44	131.4	3000	6.66
1552	19.2	7.36	4622	44	0.55	131.2	3600	6.67
1555	19.2	7.36	4650	33	0.68	131.4	4200	6.66
1558	19.1	7.36	4612	19	0.73	131.6	4800	6.65
1601	19.1	7.36	4636	18	0.72	132.0	5400	6.68
1604	19.1	7.36	4606	14	0.74	132.2	6000	6.67

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>66</u>
Sampling Time: <u>1610</u>	Sampling Date: <u>7/21/10</u>
Sample I.D.: <u>BLD158-MW1</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See below</u>
Equipment Blank I.D.: <u> </u> @ <u> </u> Time	Duplicate I.D.: <u> </u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: KC	Start Date: 07-21-10
Well I.D.: BLD158-mw2	Well Diameter: ② 3 4 6 8 _____
Total Well Depth: 16.56	Depth to Water: 6.73
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 200 ml/min Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water
1554	_____	_____	Start Purge	_____	_____	_____	_____	_____
1557	23.0	7.12	4918	426	1.08	18.1	600	6.82
1600	22.9	7.10	5110	373	0.60	16.3	1200	6.82
1603	22.9	7.11	4914	281	0.50	17.2	1800	6.82
1606	22.9	7.11	4473	171	0.45	19.9	2,400	6.82
1609	22.9 ^{22.9}	7.13	4031	170	0.54	19.7	3,000	6.82
1612	23.0	7.14	3486	132	0.53	19.2	3,600	6.82
1615	23.0	7.14	3415	138	0.56	18.9	4,200	6.82
1618	22.9	7.15	3399	130	0.59	17.9	4,800	6.82

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 4,800
Sampling Time: 1621	Sampling Date: 07-21-10
Sample I.D.: BLD158-mw2	Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See SOW
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: KC	Start Date: 07-22-10
Well I.D.: BLD180-mw2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 13.35	Depth to Water: 6.69
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: (PVC) Grade	Flow Cell Type: YSI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing ~~New Tubing~~ Other _____
 Flow Rate: 200 ml/min Pump Depth: 11'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1440	_____	_____	Start Purge	_____	_____	_____	_____	_____
1443	24.7	6.96	5214	17	0.29	-113.5	600	7.03
1446	24.5	6.96	5224	15	0.22	-122.9	1,200	7.10
1449	24.4	6.96	5220	13	0.18	-127.5	1,800	7.13
1452	24.6	6.96	5218	12	0.17	-132.3	2,400	7.14
1455	24.5	6.96	5221	12	0.16	-136.7	3,000	7.14
1458	24.4	6.95	5218	11	0.15	-138.1	3,600	7.14

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 3,600.
Sampling Time: 1501	Sampling Date: 07-22-10
Sample I.D.: BLD180-mw2	Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See ROW.
Equipment Blank I.D.: QCEB-3 ^(#) Time 1510	Duplicate I.D.: QCEB

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KC1	Client: Geosyntec
Sampler: VC	Start Date: 07-22-10
Well I.D.: FMY-mw1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 15.15	Depth to Water: 6.10
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Plus

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)
 Sampling Method: Dedicated Tubing (New Tubing) Other _____
 Flow Rate: 200 ^{ml}/min Pump Depth: 13.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water
1344	—	—	Start Purge	—	—	—	—	—
1347	26.4	6.86	3497	26	0.46	-125.3	600	6.20
1350	26.5	6.85	3547	21	0.34	-128.8	1,200	6.26
1353	26.4	6.84	3576	21	0.28	-131.7	1,800	6.31
1356	26.5	6.84	3450	22	0.21	-136.8	2,400	6.36
1359	26.5	6.84	3409	21	0.19	-140.5	3,000	6.38
1402	26.5	6.84	3391	21	0.19	-141.2	3,600	6.41

Did well dewater? Yes (No)	Amount actually evacuated: 3,600
Sampling Time: 1405	Sampling Date: 07-22-10
Sample I.D.: FMY-mw1	Laboratory: Colscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See ROW
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-101</u>	Client: <u>GeoSyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7/22/10</u>
Well I.D.: <u>MWCL-1</u>	Well Diameter: <u>Ø 3 4 6 8</u>
Total Well Depth: <u>42.20</u>	Depth to Water: <u>6.41</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI 556 Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min Pump Depth: 41'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<u>07506</u>	<u>22.0</u>	<u>6.80</u>	<u>36429</u>	<u>27</u>	<u>0.47</u>	<u>-87.6</u>	<u>600</u>	<u>6.92</u>
<u>07509</u>	<u>21.9</u>	<u>6.42</u>	<u>3782</u>	<u>9</u>	<u>0.28</u>	<u>-98.7</u>	<u>1200</u>	<u>6.92</u>
<u>07512</u>	<u>21.9</u>	<u>6.85</u>	<u>37901</u>	<u>8</u>	<u>0.24</u>	<u>-102.7</u>	<u>1800</u>	<u>6.93</u>
<u>07515</u>	<u>22.0</u>	<u>6.45</u>	<u>38272</u>	<u>6</u>	<u>0.23</u>	<u>-103.9</u>	<u>2400</u>	<u>6.93</u>
<u>07518</u>	<u>22.0</u>	<u>6.80</u>	<u>40858</u>	<u>7</u>	<u>0.25</u>	<u>-95.2</u>	<u>3000</u>	<u>6.93</u>
<u>07521</u>	<u>22.0</u>	<u>6.78</u>	<u>40868</u>	<u>8</u>	<u>0.21</u>	<u>-90.6</u>	<u>3600</u>	<u>9.5 6.94</u>
<u>07524</u>	<u>22.0</u>	<u>6.77</u>	<u>41207</u>	<u>7</u>	<u>0.18</u>	<u>-88.3</u>	<u>4200</u>	<u>6.94</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>4.2L</u>
Sampling Time: <u>07530</u>	Sampling Date: <u>7/22/10</u>
Sample I.D.: <u>MWCL-1</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See GOW.</u>	
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-104</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7/22/10</u>
Well I.D.: <u>MWCL-2</u>	Well Diameter: <u>2</u> 3 4 6 8 ____
Total Well Depth: <u>14.20</u>	Depth to Water: <u>6.90</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> VC Grade	Flow Cell Type: <u>VSI 556 ProPlus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	<input checked="" type="checkbox"/> adder Pump
Sampling Method: <u>Dedicated Tubing</u>	<input checked="" type="checkbox"/> New Tubing	Other _____
Flow Rate: <u>200 mL/min</u>	Pump Depth: <u>13.5'</u>	

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0905	23.7	7.44	20513	233	0.74	-106.5	600	6.94
0908	23.0	7.35	20624	265	0.37	-120.0	1200	6.94
0911	22.7	7.35	19315	157	0.20	-122.0	1800	6.94
0914	22.4	7.35	19892	157	0.14	-122.4	2400	6.94
0917	22.9	7.35	18424	133	0.14	-123.4	3000	6.94
0920	22.7	7.34	14700	69	0.14	-124.2	3600	6.94
0923	22.6	7.34	14672	65	0.14	-124.9	4200	6.94
0926	22.7	7.34	14403	63	0.17	-125.3	4800	6.94
0929	22.8	7.34	14190	60	0.17	-125.5	5400	6.94

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: <u>5.4L</u>
Sampling Time: <u>0935</u>	Sampling Date: <u>7/22/10</u>
Sample I.D.: <u>MWCL-2</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See LOD</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: <u>MWCL-2-13</u>

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KC1</u>	Client: <u>FreeSystem</u>
Sampler: <u>LC</u>	Start Date: <u>7/23/10</u>
Well I.D.: <u>MWCL-3</u>	Well Diameter: <u>3</u> 3 4 6 8 _____
Total Well Depth: <u>43.40</u>	Depth to Water: <u>9.17</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI ProPlus</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	<u>Bladder</u> Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>New</u> Tubing	Other _____
Flow Rate: <u>200ml/min</u>	Pump Depth: <u>42.5'</u>	

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ML</u>)	Depth to Water
<u>0955</u>	<u>22.6</u>	<u>6.81</u>	<u>72558</u>	<u>6</u>	<u>0.71</u>	<u>-70.9</u>	<u>600</u>	<u>9.29</u>
<u>0954</u>	<u>22.5</u>	<u>6.75</u>	<u>72878</u>	<u>4</u>	<u>0.36</u>	<u>-86.2</u>	<u>1200</u>	<u>9.33</u>
<u>1001</u>	<u>22.5</u>	<u>6.73</u>	<u>72959</u>	<u>3</u>	<u>0.27</u>	<u>-89.7</u>	<u>1800</u>	<u>9.36</u>
<u>1004</u>	<u>22.5</u>	<u>6.74</u>	<u>72952</u>	<u>2</u>	<u>0.23</u>	<u>-93.6</u>	<u>2400</u>	<u>9.39</u>
<u>1007</u>	<u>22.4</u>	<u>6.74</u>	<u>72945</u>	<u>1</u>	<u>0.22</u>	<u>-96.2</u>	<u>3000</u>	<u>9.40</u>
<u>1010</u>	<u>22.5</u>	<u>6.74</u>	<u>72991</u>	<u>1</u>	<u>0.20</u>	<u>-99.1</u>	<u>3600</u>	<u>9.41</u>

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1015</u>	Sampling Date: <u>7/23/10</u>
Sample I.D.: <u>MWCL-3</u>	Laboratory: <u>CSI Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See SOW</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KC1</u>	Client: <u>Freosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7/23/10</u>
Well I.D.: <u>MWCL-4</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>14.30</u>	Depth to Water: <u>8.18</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VC</u> Grade	Flow Cell Type: <u>VSI ProPlus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 200ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1118	24.0	7.51	2099	31	0.73	521	600	8.24
1121	23.8	7.34	1729	24	0.58	47.8	1200	8.24
1124	23.8	7.29	1711	19	0.55	42.3	1400	8.26
1127	23.8	7.25	1707	14	0.51	31.4	2400	8.26
1130	23.7	7.23	1703	11	0.51	22.7	3000	8.26
1133	23.7	7.21	1705	9	0.51	15.0	3600	8.27
1136	23.7	7.20	1703	9	0.53	11.6	4200	8.25
1139	23.7	7.19	1704	9	0.54	7.6	4800	8.25

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>4.8L</u>
Sampling Time: <u>1144</u>	Sampling Date: <u>7/23/10</u>
Sample I.D.: <u>MWCL-4</u>	Laboratory: <u>CEL Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See SIDR.</u>	
Equipment Blank I.D.: <u>Q650A</u> ^(?) Time	Duplicate I.D.:

SAN DIEGO COUNTY WELL MONITORING DATA SHEET

BTS #: 100721-KC1		Date: 07-22-10	
Sampler: KC		Project Address: Geosyntec @ Teledyne Ryan	
Well ID: mwCL-5		Project Number: _____	
Borehole Diameter: (8) 10 12 _____		Well Diameter: (2) 3 4 6 8 _____	
Referenced to: (PVC) Grade		Water Column Height: 26.52	
Total Well Depth: 42.50		Depth to Water: 15.98* Time 0812	
Depth to Free Product: _____		Thickness of Free Product (feet): _____	
DTW with 80% Recharge of drawdown [(Maximum Drawdown during purging x 0.20) + DTW]: 20.60			
Meter type/ID: Ultrameter YSI 556 YSI 550 (YSI Plus) ID: _____			
Decontamination Method: (Steam/High Pressure Wash) 3 Stage Rinse Other _____			
Recharge type: Fast _____ Slow (X)		Water Level Indicator Type: GeoSlope Indicator ID: 31821	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer Peristaltic (Disposable Bailer)
 (Positive Air Displacement) Extraction Pump Extraction Port
 Fixed Electric Submersible Other _____ Dedicated Tubing
 Variable Electric Submersible Other: _____

Purge Rate: _____ start purge @ 0833

4.2 (Gals.) X	3	= 12.6 Gals.
1 Borehole Volume	Specified Volumes	Calculated Volume

CD	BD	Multiplier	CD	BD	Multiplier	CD	BD	Multiplier
2"	8"	0.8	4"	8"	1.1	6"	10"	2.1
2"	10"	1.1	4"	10"	1.5	6"	12"	2.6
			4"	12"	2.0			

Assumes 25% borehole porosity
 $Bv = 7.48 \times \{ [p(Cd/2)^2 + pP\{(Bd/2)^2 - (Cd/2)^2\}] \times (Dw - DTW) \}$

Purging Methods

- Method 1, Remove 3 BV sample after well recovers 80% of total purged drawdown
- Method 2, Remove 1 BV, test parameters until stable per SAM Manual, sample after well recovers to 80% of total purged drawdown
- Method 4, remove 1 BV, sample after 2 hrs. If well recovers 80% of total purged drawdown use another method
- Method 5, non-purge method, only with prior written approval from SAM

Time	Temp (°C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	gallons Gals-Removed	Depth to Water
0842	20.6	7.11	67,674	25	4.13	249.7	4.5	33.45
0846	_____	_____	water level @ pump inlet			_____	7.0	39.10
	_____	_____	slow recharging			_____	_____	_____
1055	21.3	7.24	66,300	10	3.23	121.3	_____	27.54

Did well dewater? Yes (No)	Gallons actually evacuated: 7.0g	
Sampling Date: 07-22-10	Sampling Time: 1055	Depth to Water: 27.54
Sample I.D.: mwCL-5	Laboratory: (Calscience)	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5 Other See SW)	Quantity: _____	Filterd: N/Y
EB I.D. (if applicable): _____	Duplicate I.D. (if applicable): _____	
D.O. (if req'd):	Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV
Field Sheet Checked by: _____		

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-KU</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7/22/10</u>
Well I.D.: <u>MWCL-6</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>14.40</u>	Depth to Water: <u>10.04</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VC</u> Grade	Flow Cell Type: <u>1/51 SSC ProPls</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min Pump Depth: 13.5'

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1137	24.6	7.57	4397	28	0.62	45.3	600	10.06
1140	23.4	7.41	3854	12	0.44	-1.6	1200	10.06
1143	23.0	7.36	3784	9	0.44	-7.8	1800	10.06
1146	22.8	7.34	3777	7	0.43	-36.2	2400	10.06
1149	22.7	7.34	3775	4	0.42	-45.0	3000	10.06
1152	22.6	7.33	3776	3	0.42	-46.6	3600	10.06
1155	22.6	7.33	3774	3	0.42	-57.4	4200	10.06

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>4.24</u>
Sampling Time: <u>1200</u>	Sampling Date: <u>7/22/10</u>
Sample I.D.: <u>MWCL-6</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See SW.</u>	
Equipment Blank I.D.: @ Time Duplicate I.D.:	

LOW FLOW WELL MONITORING DATA SHEET

Project #: 100721-KU	Client: Geosyntec
Sampler: SK	Start Date: 7/22/10
Well I.D.: MWCL-7	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 65.00	Depth to Water: 10.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI ProPlus

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other _____
Flow Rate: 200 mL/min	Pump Depth: 64'	

Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1245	22.9	6.66	666.31	3	0.82	-74.0	600	10.49
1248	22.9	6.57	739.89	3	0.54	-45.2	1200	10.48
1251	22.9	6.56	750.54	1	0.31	-57.3	1800	10.49
1254	22.8	6.56	752.27	1	0.25	-62.4	2400	10.49
1257	22.7	6.56	752.49	1	0.22	-66.2	3000	10.49
1700	22.9	6.56	752.89	1	0.24	-68.4	3600	10.49

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 3.6L
Sampling Time: 1305	Sampling Date: 7/22/10
Sample I.D.: MWCL-7	Laboratory: CalScience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See SDW.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>100721-104</u>	Client: <u>Freosyntec</u>
Sampler: <u>51C</u>	Start Date: <u>7/22/10</u>
Well I.D.: <u>MWCL-4R</u>	Well Diameter: <u>2</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>12.29</u>	Depth to Water: <u>8.20</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PUC</u> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 100ml/min Pump Depth: 11.5'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water
1353	24.3	7.16	4708	18	1.14	575	300	8.33
1356	23.6	7.07	3971	13	0.89	536	600	8.30
1359	23.3	7.04	3837	8	0.67	512	900	8.31
1402	23.1	7.03	3817	4	0.55	504	1200	8.31
1405	23.0	7.02	3829	4	0.51	496	1500	8.31
1408	22.9	7.01	3848	3	0.57	490	1800	8.31

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1414</u>	Sampling Date: <u>7/22/10</u>
Sample I.D.: <u>MWCL-4R</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See SW</u>	
Equipment Blank I.D.: <u>QCEB-4</u> @ <u>1450</u> Time	Duplicate I.D.:

BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #

Geosyntec

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	TOTAL	CONTAINERS
BLD131-mw-4	07-23-10	0827	W	4	Various
BLD102-mw-4	07-31-10	0927	W	5	Various
BLD120-mw-7	07-31-10	1055	W	10	Various
MS				15	Various
QCEB-5	07-31-10	1120	W	3	Various
QCTB-3	07-31-10	0800	W	2	Various

CONDUCT ANALYSIS TO DETECT		LAB	DHS #
Ethene/Ethane/Methane (RSK 175)	VOCs by 8260B	CalScience	1813
SVOCs 8270 SIM Super		SPECIAL INSTRUCTIONS	
TPH (8015)		*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits	
Metals (6010B/7470A)**		**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids	
1,4-Dioxane (Modified 8270)*		*** Metals Sample were filtered in the field	
EISB Sampling Suite**		Brian Hitchens	
Total Chromium/Hexavalent Chromium		Geosyntec: 10875 Rancho Bernardo Rd, suite 200	
		San Diego, CA 92127	
		(858) 674-6559	

ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3
			4
			5

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	
07-23-10	07-23-10	1120	Kerry L. Campbell	NO LATER THAN	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	07-23-10	1410		07-23-10	1410
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	7/23/10	18:00	Pannyle	7/23/10	18:00
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA

DATE SENT

TIME SENT

COOLER #

1576

BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1106
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT Geosyntec
 SITE Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #

Geosyntec

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRIX	TOTAL
BLD20-mw2	07-21-10	1201	W	2
BLD20-mw2-B	07-21-10	1201	W	2
BLD20-mw3	07-21-10	1332	W	2

11L Amber
 11L Amber
 11L Amber

CONDUCT ANALYSIS TO DETECT

LAB Columbia Analytical
 SPECIAL INSTRUCTIONS
 *Lab needs to filter sample through a 0.01 micron Filter
 PCB (1668A): send to Houston, TX
 (8082 ULL send to Kelso, WA
 Send Invoice and Report to:
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

DHS #

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3

PCBs (1668A)*

PCBs by EPA Method 8082 ULL*

X

X

X

SAMPLING DATE 07-21-10 TIME 1403 PERFORMED BY *[Signature]*

RELEASED BY *[Signature]*

RELEASED BY *[Signature]*

RELEASED BY *[Signature]*

RECEIVED BY *[Signature]*

DATE 07-21-10 TIME 1445

DATE 7/21/10 TIME 1800

DATE 7/21/10 TIME 18:00

DATE 7/21/10 TIME 1445

DATE 7/21/10 TIME 18:00

DATE 7/21/10 TIME 18:00

RESULTS NEEDED
 NO LATER THAN

[Signature]

[Signature]

[Signature]

DATE SENT TIME SENT COOLER #

SHIPPED VIA

1573

BLAINE
TECH SERVICES, INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY
CLIENT: Geosyntec
SITE: Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

LAB: CalScience
SPECIAL INSTRUCTIONS:
*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
**EISB= TOC, sulfate, sulfide, sulfite, nitrate, nitrite, chloride, and organic acids
*** Metals Sample were filtered in the field
Brian Hitchens
Geosyntec: 10875 Rancho Bernardo Rd, suite 200
San Diego, CA 92127
(858) 674-6559

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	CONDUCT ANALYSIS TO DETECT							STATUS	CONDITION	LAB SAMPLE #
					VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270)*	EISB Sampling Suite*			
BLD120-mw2	07-21-10	1201	W	14	X	X	X	X	X	X			1	
BLD120-mw1	07-21-10	1403	W	14	X	X	X	X	X	X			2	
BLD120-mw2-B	07-21-10	1201	W	7	X	X	X	X	X	X			3	
BLD120-mw6	07-21-10	1140	W	14	X	X	X	X	X	X			4	
BLD120-mw3	07-21-10	1332	W	14	X	X	X	X	X	X			5	
QCTB-1	07-21-10	1100	W	2	X								6	

RESULTS NEEDED NO LATER THAN

RECEIVED BY: *Randy W CEC* DATE: 7/21/10 TIME: 1445

RECEIVED BY: *Randy W CEC* DATE: 7/21/10 TIME: 1800

RECEIVED BY: *Randy W CEC* DATE: 7/21/10 TIME: 1800

SHIPPED VIA: _____ DATE SENT: _____ TIME SENT: _____ COOLER #: _____

PERFORMED BY: *Merry L. Campbell, Keith Sy*

DATE: 07-21-10 TIME: 1445

DATE: 7/21/10 TIME: 1800

DATE: 7/21/10 TIME: 1800

BLAINE

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7774
PHONE (408) 573-0555

TECH SERVICES, INC

CHAIN OF CUSTODY

BTS #

CLIENT

Geosyntec

SITE

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

CONTAINERS

MATRIX

Σ # SOIL
Σ # H2O

TOTAL

81D158-mus1 07-21-10 1410 2 Various

81D158-mus2 07-21-10 1421 2 Various

SAMPLING PERFORMED BY **Kerry L. Campbell, Keith Sy**

COMPLETED 07-21-10 1421

RELEASED BY *[Signature]*

DATE 07-21-10

TIME 1430

RECEIVED BY *[Signature]*

DATE 07-21-10

TIME 1430

RELEASED BY *[Signature]*

DATE 7/21/10

TIME 16:50

RECEIVED BY **FedEx**

DATE 7/21/10

TIME 16:50

RELEASED BY *[Signature]*

DATE 7/22/10

TIME 10:00

RECEIVED BY **Greg A. ca**

DATE 7/22/10

TIME 10:00

SHIPPED VIA

DATE SENT

TIME SENT

COOLER #

FRANK

1596

LAB		CalScience		DHS #	
SPECIAL INSTRUCTIONS		*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits			
EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids		* Metals Sample were filtered in the field			
Brian Hitchens		Geosyntec: 10875 Rancho Bernardo Rd, suite 200			
San Diego, CA 92127		(858) 674-6559			
ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #		
Total Chromium/Hexavalent Chromium	X		1		
EISB Sampling Suite *	X		2		
1,4-Dioxane (Modified 8270) *					
Metals (6010B/7470A)**					
TPH (8015)					
SVOCs 8270 SIM Super					
Ethene/Ethane/Methane (RSK 175)					
VOCs by 8260B					

CONDUCT ANALYSIS TO DETECT		RESULTS NEEDED	
		NO LATER THAN	
DATE	TIME	DATE	TIME
07-21-10	1430	7/21/10	16:30
7/21/10	16:50	7/21/10	16:50
7/22/10	10:00	7/22/10	10:00

BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #
 Geosyntec
 Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
					TOTAL
BLD131-mw2	07-21-10	1725	W		12
Area D-mw1	07-21-10	1834	W		5
QCEB-1	07-21-10	1855	W		3
Area D-mw2	07-22-10	1006	W		7
BLD120-mw9	07-22-10	1140	W		10
BLD120-mw8	07-22-10	1312	W		10
BLD180-mw2	07-22-10	1501	W		5
FMY-mw1	07-22-10	1405	W		5
QCEB-3	07-22-10	1510	W		3
QCEB-2	07-22-10	0800	W		2

SAMPLING PERFORMED BY: Kerry L. Campbell

COMPLETED: 07-22-10 1510

RELEASED BY: *[Signature]*

DATE: 7/22/10

TIME: 1520

RECEIVED BY: *[Signature]*

DATE: 7/22/10

TIME: 1816

RECEIVED BY: *[Signature]*

DATE: 7/22/10

TIME: 1846

CONDUCT ANALYSIS TO DETECT		LAB	CalScience	DHS #
<input checked="" type="checkbox"/>	VOCs by 8260B			1697
<input checked="" type="checkbox"/>	Ethene/Ethane/Methane (RSK 175)			
<input checked="" type="checkbox"/>	SVOCs 8270 SIM Super			
<input checked="" type="checkbox"/>	TPH (8015)			
<input checked="" type="checkbox"/>	Metals (6010B/7470A)***			
<input checked="" type="checkbox"/>	1,4-Dioxane (Modified 8270)*			
<input checked="" type="checkbox"/>	EISB Sampling Suite**			
<input checked="" type="checkbox"/>	Total Chromium/Hexavalent Chromium			
SPECIAL INSTRUCTIONS		*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids *** Metals Sample were filtered in the field Brian Hitchens Geosyntec: 10875 Rancho Bernardo Rd, suite 200 San Diego, CA 92127 (858) 674-6559		
RESULTS NEEDED		NO LATER THAN		
DATE		DATE	DATE	DATE
TIME		TIME	TIME	TIME
07-22-10		07-22-10	7/22/10	7/22/10
1520		1520	1520	1520
7/22/10		7/22/10	7/22/10	7/22/10
1816		1816	1816	1816
7/22/10		7/22/10	7/22/10	7/22/10
1846		1846	1846	1846

SHIPPED VIA

1698 1/2

BLAINE 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7774
 PHONE (408) 573-0556

TECH SERVICES, INC. CHAIN OF CUSTODY
 BTS #

CLIENT Geosyntec
 SITE Teledyne Ryan

2701 N. Harbor Drive
 San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		TOTAL	CONDUCT ANALYSIS TO DETECT							LAB	DHS #	
				Q	H ₂ O		VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270)*	FlSB Sampling Suite*			Total Chromium/Hexavalent Chromium
BLD131-MW-3	7/12/10	1705	W			12	X	X				X				
BLD131-MW-6	7/12/10	1803	W			12	X	X				X				
BLD131-MW-8	7/12/10	1705	W			3										
QCEB-2	7/12/10	1425	W			3										
AWCL-1	7/12/10	0830	W			9	X	X	X	X	X	X				
AWCL-2	7/12/10	0935	W			M ₉	X	X	X	X	X	X				
AWCL-2-B	7/12/10	0935	W			M ₉	X	X	X	X	X	X				
AWCL-5	7/12/10	1055	W			9	X	X	X	X	X	X				
AWCL-6	7/12/10	1200	W			9	X	X	X	X	X	X				
AWCL-7	7/12/10	1305	W			9	X	X	X	X	X	X				

SAMPLING COMPLETED DATE 7/12/10 TIME 1305 PERFORMED BY K. Kelly

RELEASED BY [Signature] DATE 7/12/10 TIME 1520 RECEIVED BY [Signature] DATE 7/22/10 TIME 1520

RELEASED BY [Signature] DATE 7/12/10 TIME 1816 RECEIVED BY [Signature] DATE 7/22/10 TIME 1816

RELEASED BY [Signature] DATE [] TIME [] RECEIVED BY [Signature] DATE [] TIME []

SHIPPED VIA DATE SENT TIME SENT COOLER #

LAB CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 *** Metals Sample were filtered in the field
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3
			4
			5
			6
			7
			8
			9
			10

RESULTS NEEDED NO LATER THAN

1698 2/2

BLAINE

TECH SERVICES, INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7774
PHONE (408) 573-0555

CHAIN OF CUSTODY
CLIENT: Geosyntec
SITE: Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

LAB: CalScience
SPECIAL INSTRUCTIONS:
*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
*** Metals Sample were filtered in the field
Brian Hitchens
Geosyntec: 10875 Rancho Bernardo Rd, suite 200
San Diego, CA 92127
(858) 674-6559

SAMPLE I.D.	DATE	TIME	MATRIX G # S# W # H2O	CONTAINERS		VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270)*	FISB Sampling Suite*	Total Chromium/Hexavalent Chromium	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					TOTAL												
ANULL-58	7/22/10	1414	W		9	X					A						
QCEB-4	7/22/10	1450	W		7	X											

SAMPLING COMPLETED		DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN			
RELEASED BY		DATE	TIME	RECEIVED BY	DATE	TIME	DATE	TIME
RELEASED BY		DATE	TIME	RECEIVED BY	DATE	TIME	DATE	TIME
RELEASED BY		DATE	TIME	RECEIVED BY	DATE	TIME	DATE	TIME
SHIPPED VIA		DATE SENT	TIME SENT	COOLER #				

RELEASED BY: [Signature] DATE: 7/22/10 TIME: 1520
 RECEIVED BY: [Signature] DATE: 7/22/10 TIME: 18:16
 RECEIVED BY: [Signature] DATE: 7/22/10 TIME: 18:16
 RECEIVED BY: [Signature] DATE: 7/22/10 TIME: 18:16

1699

BLAINE
TECH SERVICES, INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY
CLIENT Geosyntec
SITE Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

BTS #
SPECIAL INSTRUCTIONS
*Lab needs to filter sample through a 0.01micron Filter
PCB (1668A): send to Houston, TX
(8082 ULL send to Kelso, WA
Send Invoice and Report to:
Brian Hitchens
Geosyntec: 10875 Rancho Bernardo Rd, suite 200
San Diego, CA 92127
(858) 674-6559

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS		TOTAL	PCBs (1668A)*	PCBs by EPA Method 8082 ULL*	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
				#	of							
ANAL-2	7/22/10	0925	w	2		2	X					1
ANAL-2-B	7/22/10	0930	w	2		2	X					2
ANAL-6	7/22/10	0921	w	2		2	X					3
ANAL-4A	7/22/10	1114	w	2		2	X					4

CONDUCT ANALYSIS TO DETECT	LAB	Columbia Analytical	DHS #

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME	RESULTS NEEDED
	7/22/10	1414	Keith S	WJ	7/22/10	1520	Randy CBL	7/22/10	1520	NO LATER THAN
	7/22/10	1816		Randy W	7/22/10	1816	Dannye CBL	7/22/10	1816	
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #							

BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT Geosyntec
 SITE Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #

Geosyntec

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

CONTAINERS

MATRIX

W # H2O

TOTAL

Amber

2

TIME

1144

SAMPLE I.D.

MULL-4

DATE

7/23/10

DATE

7/23/10

PERFORMED BY

Kerby

SAMPLING

COMPLETED

7/23/10

DATE

7/23/10

TIME

1410

RECEIVED BY

[Signature]

DATE

07/23/10

TIME

1410

RECEIVED BY

[Signature]

DATE

7/23/10

TIME

18:00

RECEIVED BY

DANNY WEL

DATE

7/23/10

TIME

18:00

COOLER #

DATE SENT

TIME SENT

SHIPPED VIA

CONDUCT ANALYSIS TO DETECT

PCBs (1668A)*

PCBs by EPA Method 8082 ULL*

LAB Columbia Analytical

SPECIAL INSTRUCTIONS

*Lab needs to filter sample through a 0.01 micron Filter
 PCB (1668A): send to Houston, TX
 (8082 ULL send to Kelso, WA

Send Invoice and Report to:

Brian Hitchens

Geosyntec: 10875 Rancho Bernardo Rd, suite 200

San Diego, CA 92127

(858) 674-6559

ADD'L INFORMATION

STATUS

CONDITION

LAB SAMPLE #

RESULTS NEEDED
 NO LATER THAN

DATE	TIME	RECEIVED BY	DATE	TIME
7/23/10	1410	[Signature]	07/23/10	1410
7/23/10	18:00	[Signature]	7/23/10	18:00

DHS # 1811

PCB

1812

BLAINE
TECH SERVICES, INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY
BTS #
CLIENT Geosyntec
SITE Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

LAB CalScience
DHS #
SPECIAL INSTRUCTIONS
*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
*** Metals Sample were filtered in the field
Brian Hitchens
Geosyntec: 10875 Rancho Bernardo Rd, suite 200
San Diego, CA 92127
(858) 674-6559

CONDUCT ANALYSIS TO DETECT		EISB Sampling Suite *	Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270) *	TPH (8015)	SVOCs 8270 SIM Super	Ethene/Ethane/Methane (RSK 175)	VOCs by 8260B	Total Chromium/Hexavalent Chromium	ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270) *												
					X		X						1
				X	X								2
			X	X	X								3
			X	X	X								4
				X			X						5
				X			X						6

RESULTS NEEDED
NO LATER THAN

DATE	TIME	RECEIVED BY
7/23/10	14:10	[Signature]
7/23/10	18:00	[Signature]
7/23/10	18:00	[Signature]

COOLER #

DATE SENT

TIME SENT

SHIPPED VIA

SPH or Purge Water Drum Log

Client: GeoSyntec

Site Address: Tele Dynamic 2701 N. Harbor Dr. San Diego

STATUS OF DRUM(S) UPON ARRIVAL							
Date	7/21/10						
Number of drum(s) empty:	0						
Number of drum(s) 1/4 full:							
Number of drum(s) 1/2 full:							
Number of drum(s) 3/4 full:							
Number of drum(s) full:							
Total drum(s) on site:							
Are the drum(s) properly labeled?	NA						
Drum ID & Contents:	NA						
If any drum(s) are partially or totally filled, what is the first use date:	NA						

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purge water or DI Water.

- If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.

- All BTS drums MUST be labeled appropriately.

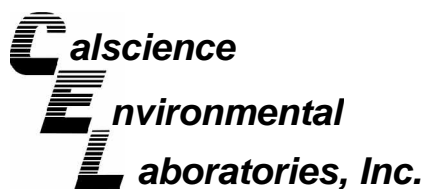
STATUS OF DRUM(S) UPON DEPARTURE							
Date	7/23/10						
Number of drums empty:	0						
Number of drum(s) 1/4 full:	0						
Number of drum(s) 1/2 full:	0						
Number of drum(s) 3/4 full:	0						
Number of drum(s) full:	2						
Total drum(s) on site:	2						
Are the drum(s) properly labeled?	Yes						
Drum ID & Contents:	5581, 2 groundwater						

LOCATION OF DRUM(S)	
Describe location of drum(s):	<u>Inside file East side of 0006 to right of entrance gate</u>

FINAL STATUS							
Number of new drum(s) left on site this event	2						
Date of inspection:	7/23/10						
Drum(s) labelled properly:	Yes						
Logged by BTS Field Tech:	n						
Office reviewed by:							

APPENDIX C

PDF Copy of Groundwater Monitoring
Report, 1st Quarter 2009, including
Laboratory Analytical Data (Compact Disc)



August 04, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-07-1813**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/23/2010 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Nowak'.

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	10-07-1813-3-D	07/23/10 10:55	Aqueous	GC 33	N/A	07/26/10 00:00	100726L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

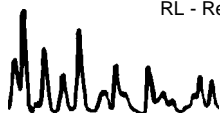
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Ethane	1.13	1.00	0.00547	1		ug/L
Ethylene	35.0	1.00	0.0933	1		ug/L
Methane	6750	40.0	0.314	40		ug/L

Method Blank	099-12-661-328	N/A	Aqueous	GC 33	N/A	07/26/10 00:00	100726L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD102-MW4	10-07-1813-2-E	07/23/10 09:27	Aqueous	GC 49	07/27/10	07/28/10 07:49	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 120 68-140

Method Blank	099-12-308-1,371	N/A	Aqueous	GC 49	07/27/10	07/28/10 04:43	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 132 68-140



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW4	10-07-1813-1-D	07/23/10 08:27	Aqueous	GC/MS GG	07/26/10	07/28/10 15:59	100726L07D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

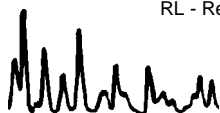
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	1.9	2.0	0.40	1	J	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	85	56-123				

Method Blank	099-09-004-1,502	N/A	Aqueous	GC/MS GG	07/26/10	07/28/10 13:26	100726L07D
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	85	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	10-07-1813-3-F	07/23/10 10:55	Aqueous	HPLC 6	N/A	07/28/10 18:34	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

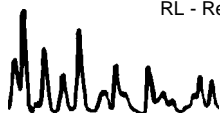
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	101	80-120				

Method Blank	099-12-016-270	N/A	Aqueous	HPLC 6	N/A	07/28/10 13:57	100728L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	100	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW4	10-07-1813-1-C	07/23/10 08:27	Aqueous	GC/MS CC	07/28/10	07/28/10 20:41	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.65	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	7.2	0.50	0.33	1	
c-1,2-Dichloroethene	9.9	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	80-126		1,2-Dichloroethane-d4	107	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	89	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD102-MW4	10-07-1813-2-B	07/23/10 09:27	Aqueous	GC/MS PP	07/27/10	07/28/10 09:39	100727L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.63	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	7.6	0.50	0.33	1	
c-1,2-Dichloroethene	0.74	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	80-126		1,2-Dichloroethane-d4	116	80-131	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	87	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	10-07-1813-3-B	07/23/10 10:55	Aqueous	GC/MS PP	07/27/10	07/28/10 10:07	100727L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	0.43	0.50	0.28	1	J	2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	18	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	0.68	1.0	0.37	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	3.2	0.50	0.33	1	
c-1,2-Dichloroethene	0.63	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	2.7	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	120	80-126		1,2-Dichloroethane-d4	114	80-131	
Toluene-d8	105	80-120		1,4-Bromofluorobenzene	91	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-5	10-07-1813-4-B	07/23/10 11:20	Aqueous	GC/MS PP	07/27/10	07/28/10 10:35	100727L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.72	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	114	80-126		1,2-Dichloroethane-d4	119	80-131	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	93	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 5 of 7


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-3	10-07-1813-5-B	07/23/10 08:00	Aqueous	GC/MS PP	07/27/10	07/28/10 03:06	100727L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	80-126		1,2-Dichloroethane-d4	112	80-131	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	90	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,511	N/A	Aqueous	GC/MS PP	07/27/10	07/28/10 02:37	100727L03

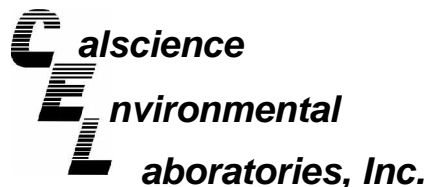
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	80-126		1,2-Dichloroethane-d4	114	80-131	
Toluene-d8	103	80-120		1,4-Bromofluorobenzene	90	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,524	N/A	Aqueous	GC/MS CC	07/28/10	07/28/10 11:59	100728L01

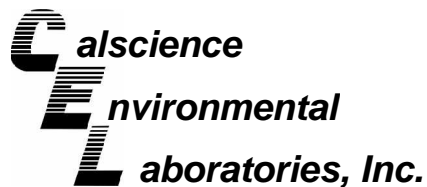
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	0.35	1.0	0.31	1	J
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	80-126		1,2-Dichloroethane-d4	104	80-131	
Toluene-d8	96	80-120		1,4-Bromofluorobenzene	91	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW7	10-07-1813-3	07/23/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

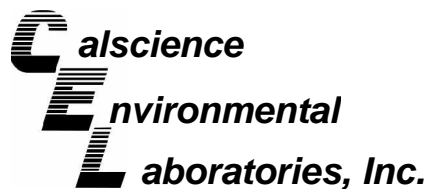
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	1200	20	2.7	20		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	150	5.0	0.81	5		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	0.20	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	80	0.50	0.10	1		mg/L	N/A	07/26/10	SM 5310 B

Method Blank	N/A	Aqueous
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Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.10	1		mg/L	N/A	07/26/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

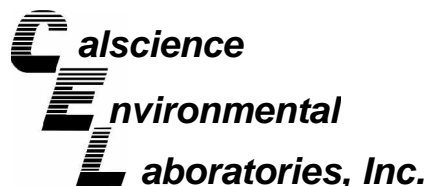
Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1698-1	Aqueous	HPLC 6	N/A	07/28/10	100728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	115	117	70-130	1	0-30	
Butyric Acid	96	96	70-130	1	0-30	
Lactic Acid	80	81	70-130	1	0-30	
Propionic Acid	99	100	70-130	1	0-30	
Pyruvic Acid	71	66	70-130	6	0-30	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1852-1	Aqueous	GC/MS PP	07/27/10	07/28/10	100727S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	106	80-120	1	0-20	
Carbon Tetrachloride	123	122	55-151	1	0-20	
Chlorobenzene	100	101	80-120	1	0-20	
1,2-Dibromoethane	100	100	77-125	0	0-20	
1,2-Dichlorobenzene	99	99	78-120	0	0-20	
1,2-Dichloroethane	98	99	80-120	1	0-20	
1,1-Dichloroethene	106	103	69-129	3	0-20	
Ethylbenzene	105	107	73-127	2	0-20	
Toluene	103	103	80-120	0	0-20	
Trichloroethene	101	104	67-133	3	0-20	
Vinyl Chloride	96	94	67-133	2	0-20	
Methyl-t-Butyl Ether (MTBE)	96	94	65-131	2	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

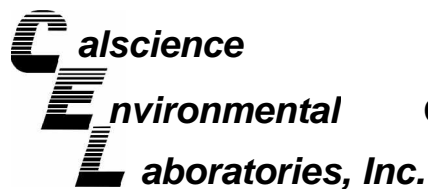
Date Received: 07/23/10
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1786-11	Aqueous	GC/MS CC	07/28/10	07/28/10	100728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	108	105	80-120	3	0-20	
Carbon Tetrachloride	108	105	55-151	3	0-20	
Chlorobenzene	107	102	80-120	4	0-20	
1,2-Dibromoethane	107	104	77-125	3	0-20	
1,2-Dichlorobenzene	100	100	78-120	0	0-20	
1,2-Dichloroethane	105	101	80-120	4	0-20	
1,1-Dichloroethene	105	104	69-129	1	0-20	
Ethylbenzene	116	113	73-127	3	0-20	
Toluene	110	106	80-120	4	0-20	
Trichloroethene	104	103	67-133	1	0-20	
Vinyl Chloride	90	98	67-133	8	0-20	
Methyl-t-Butyl Ether (MTBE)	101	101	65-131	0	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

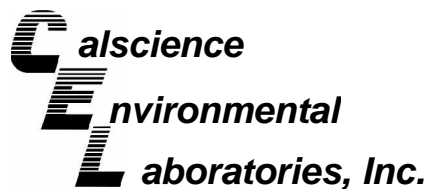
Date Received: N/A
Work Order No: 10-07-1813

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	10-07-1808-8	07/23/10	N/A	103	103	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	10-07-1808-8	07/23/10	N/A	100	100	80-120	1	0-20	
Nitrate (as N)	EPA 300.0	10-07-1808-8	07/23/10	N/A	101	101	80-120	0	0-20	
Sulfate	EPA 300.0	10-07-1808-8	07/23/10	N/A	101	101	80-120	0	0-20	
Carbon, Total Organic	SM 5310 B	10-07-1800-1	07/26/10	N/A	69	87	70-130	11	0-25	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

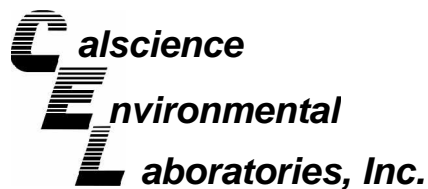
Date Received: N/A
Work Order No: 10-07-1813

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	10-07-1697-1	07/24/10	0.40	0.40	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

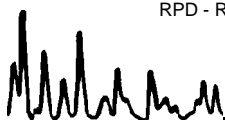
Date Received: N/A
Work Order No: 10-07-1813
Preparation: N/A
Method: RSK-175M

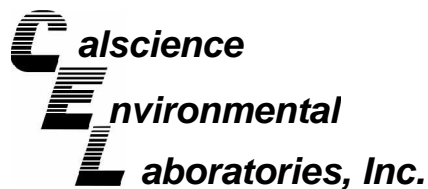
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-328	Aqueous	GC 33	N/A	07/26/10	100726L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	97	96	80-120	1	0-20	
Methane	102	101	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

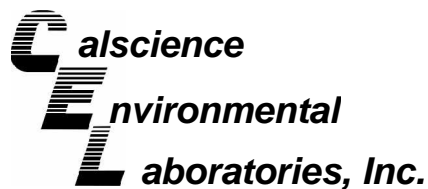
Date Received: N/A
Work Order No: 10-07-1813
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,371	Aqueous	GC 49	07/27/10	07/28/10	100727B16

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	101	100	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

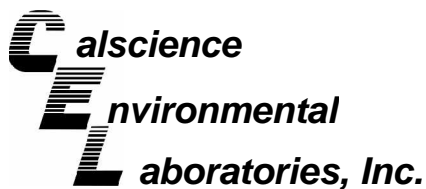
Date Received: N/A
Work Order No: 10-07-1813
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,502	Aqueous	GC/MS GG	07/26/10	07/28/10	100726L07D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	95	95	50-130	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

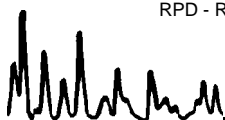
Date Received: N/A
Work Order No: 10-07-1813
Preparation: N/A
Method: HPLC/UV

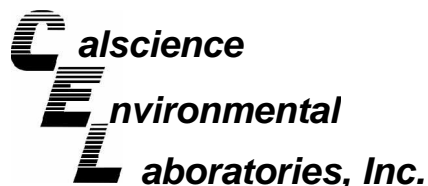
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-270	Aqueous	HPLC 6	N/A	07/28/10	100728L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	109	110	80-120	1	0-20	
Butyric Acid	105	109	80-120	4	0-20	
Lactic Acid	103	104	80-120	0	0-20	
Propionic Acid	115	115	80-120	0	0-20	
Pyruvic Acid	90	91	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,511	Aqueous	GC/MS PP	07/27/10	07/28/10	100727L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	97	80-120	73-127	3	0-20	
Carbon Tetrachloride	113	113	67-139	55-151	0	0-22	
Chlorobenzene	98	96	80-120	73-127	1	0-20	
1,2-Dibromoethane	104	98	80-120	73-127	6	0-20	
1,2-Dichlorobenzene	97	94	79-120	72-127	2	0-20	
1,2-Dichloroethane	96	95	80-120	73-127	1	0-20	
1,1-Dichloroethene	93	98	71-125	62-134	5	0-25	
Ethylbenzene	101	99	80-123	73-130	2	0-20	
Toluene	98	96	80-120	73-127	2	0-20	
Trichloroethene	98	94	80-120	73-127	4	0-20	
Vinyl Chloride	93	93	68-140	56-152	0	0-23	
Methyl-t-Butyl Ether (MTBE)	96	95	75-123	67-131	1	0-25	

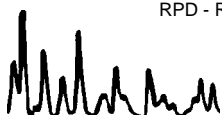
Total number of LCS compounds : 12

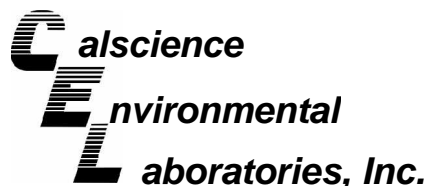
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1813
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,524	Aqueous	GC/MS CC	07/28/10	07/28/10	100728L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	104	80-120	73-127	1	0-20	
Carbon Tetrachloride	106	104	67-139	55-151	3	0-22	
Chlorobenzene	104	101	80-120	73-127	3	0-20	
1,2-Dibromoethane	104	100	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	103	101	79-120	72-127	2	0-20	
1,2-Dichloroethane	100	100	80-120	73-127	0	0-20	
1,1-Dichloroethene	106	104	71-125	62-134	2	0-25	
Ethylbenzene	114	110	80-123	73-130	3	0-20	
Toluene	106	105	80-120	73-127	1	0-20	
Trichloroethene	103	102	80-120	73-127	1	0-20	
Vinyl Chloride	94	103	68-140	56-152	9	0-23	
Methyl-t-Butyl Ether (MTBE)	101	102	75-123	67-131	0	0-25	

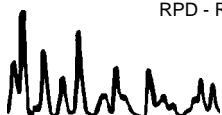
Total number of LCS compounds : 12

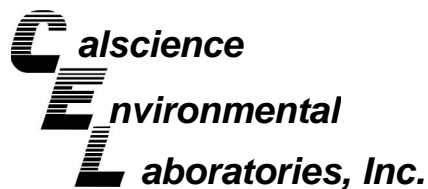
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
10-07-1813

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-1,155	N/A	07/23/10	104	104	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-1,155	N/A	07/23/10	94	93	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,155	N/A	07/23/10	107	106	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-1,155	N/A	07/23/10	102	102	90-110	0	0-15	
Carbon, Total Organic	SM 5310 B	099-05-097-3,945	N/A	07/26/10	114	109	80-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-07-1813

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



BLAINE

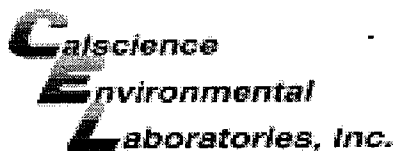
TECH SERVICES, INC.
 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS
BLD131-MW4	07-23-10	0827	W	4
BLD102-MW4	07-31-10	0927	W	5
BLD120-MW7	07-31-10	1055	W	10
QCEB-5	07-31-10	1120	W	3
QCTB-3	07-31-10	0800	W	2

LAB	CalScience	DHS #	1813
SPECIAL INSTRUCTIONS	*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids *** Metals Sample were filtered in the field Brian Hitchens Geosyntec: 10875 Rancho Bernardo Rd, suite 200 San Diego, CA 92127 (858) 674-6559		
ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Total Chromium/Hexavalent Chromium			1
EISB Sampling Suite**			2
1,4-Dioxane (Modified 8270)*			3
Metals (6010B/7470A)***			1
TPH (8015)			4
SVOCs 8270 SIM Super			5
Ethene/Ethane/Methane (RSK 175)			
VOCs by 8260B			

SAMPLING COMPLETED	DATE	TIME	PERFORMED BY	RESULTS NEEDED
	07-23-10	1120	Herry L. Campbell	NO LATER THAN
RELEASED BY	DATE	TIME	RECEIVED BY	DATE
[Signature]	07-23-10	1410	[Signature]	07-23-10
RELEASED BY	DATE	TIME	RECEIVED BY	DATE
[Signature]	7/23/10	18:00	Pannyle eze	7/23/10
RELEASED BY	DATE	TIME	RECEIVED BY	DATE
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	



WORK ORDER #: 10-07-7873

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: GEO Syntec

DATE: 07/23/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.2°C + 0.5°C (CF) = 2.7°C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: VB

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: VB

Sample _____ No (Not Intact) Not Present Initial: DT/VA

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA_p VOA_h VOAn₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

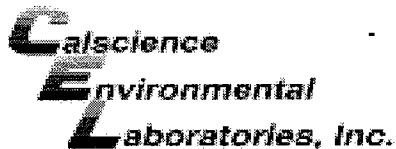
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** 100712B **Labeled/Checked by:** DT/VA

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** VB

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{nna}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** gob



WORK ORDER #: 10-07-1873

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- Sample(s)/Container(s) NOT RECEIVED but listed on COC
- Sample(s)/Container(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Water present in sample container
 - Broken
 - Without Label(s)
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into CalScience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

Comments:

*(-2) → (-5) collection
date per label is 7/23/10*

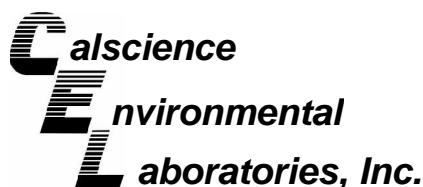
HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: go 07/23/10



August 04, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-07-1812**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/23/2010 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Nowak'.

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	10-07-1812-6-D	07/23/10 13:00	Aqueous	GC 52	N/A	07/26/10 00:00	100726L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

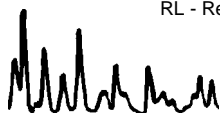
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	48.4	1.00	0.00547	1		ug/L
Ethylene	46.3	1.00	0.0933	1		ug/L
Methane	4670	20.0	0.157	20		ug/L

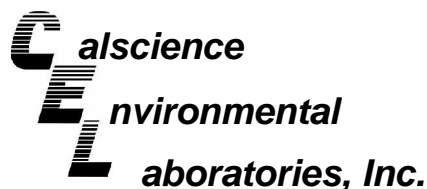
Method Blank	099-12-661-329	N/A	Aqueous	GC 52	N/A	07/26/10 00:00	100726L02
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW4	10-07-1812-1-E	07/23/10 08:04	Aqueous	GC 49	07/27/10	07/28/10 08:21	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 108 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW5	10-07-1812-2-E	07/23/10 08:58	Aqueous	GC 49	07/27/10	07/28/10 08:36	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 111 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	10-07-1812-3-E	07/23/10 10:15	Aqueous	GC 49	07/27/10	07/28/10 08:52	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 96 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	10-07-1812-4-F	07/23/10 11:44	Aqueous	GC 49	07/27/10	07/28/10 09:08	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 111 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-308-1,371	N/A	Aqueous	GC 49	07/27/10	07/28/10 04:43	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 132 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW4	10-07-1812-1-F	07/23/10 08:04	Aqueous	GC/MS GG	07/26/10	07/28/10 13:52	100726L07D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	94	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW5	10-07-1812-2-F	07/23/10 08:58	Aqueous	GC/MS GG	07/26/10	07/28/10 14:18	100726L07D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	89	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	10-07-1812-3-G	07/23/10 10:15	Aqueous	GC/MS GG	07/26/10	07/28/10 14:43	100726L07D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

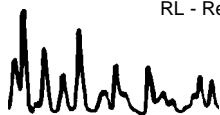
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	90	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	10-07-1812-4-G	07/23/10 11:44	Aqueous	GC/MS GG	07/26/10	07/28/10 15:09	100726L07D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	85	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	10-07-1812-6-J	07/23/10 13:00	Aqueous	GC/MS GG	07/26/10	07/28/10 15:34	100726L07D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

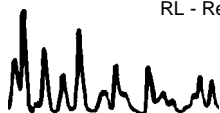
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	300	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	82	56-123				

Method Blank	099-09-004-1,502	N/A	Aqueous	GC/MS GG	07/26/10	07/28/10 13:26	100726L07D
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	85	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	10-07-1812-6-F	07/23/10 13:00	Aqueous	HPLC 6	N/A	07/28/10 18:56	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

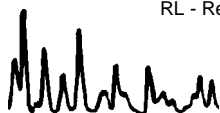
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	94	80-120				

Method Blank	099-12-016-270	N/A	Aqueous	HPLC 6	N/A	07/28/10 13:57	100728L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	100	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

Page 1 of 3


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	10-07-1812-3-H	07/23/10 10:15	Aqueous	GC/MS MM	07/26/10	07/28/10 19:48	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	95	24-152		2-Fluorobiphenyl	42	33-144	
2-Fluorophenol	75	31-142		Nitrobenzene-d5	81	28-139	
p-Terphenyl-d14	70	23-160		Phenol-d6	58	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	10-07-1812-4-H	07/23/10 11:44	Aqueous	GC/MS MM	07/26/10	07/28/10 20:13	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	89	24-152		2-Fluorobiphenyl	51	33-144	
2-Fluorophenol	52	31-142		Nitrobenzene-d5	78	28-139	
p-Terphenyl-d14	75	23-160		Phenol-d6	35	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-430-98	N/A	Aqueous	GC/MS MM	07/26/10	07/28/10 16:27	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	71	24-152		2-Fluorobiphenyl	96	33-144	
2-Fluorophenol	92	31-142		Nitrobenzene-d5	92	28-139	
p-Terphenyl-d14	86	23-160		Phenol-d6	89	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW4	10-07-1812-1-A	07/23/10 08:04	Aqueous	GC/MS S	07/24/10	07/25/10 01:22	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	1.9	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	80-126		1,2-Dichloroethane-d4	104	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	96	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW5	10-07-1812-2-A	07/23/10 08:58	Aqueous	GC/MS S	07/24/10	07/25/10 03:51	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	1.3	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	80-126		1,2-Dichloroethane-d4	105	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 3 of 7


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	10-07-1812-3-A	07/23/10 10:15	Aqueous	GC/MS S	07/24/10	07/25/10 04:21	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	80-126		1,2-Dichloroethane-d4	110	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	10-07-1812-4-A	07/23/10 11:44	Aqueous	GC/MS S	07/24/10	07/25/10 04:51	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	80-126		1,2-Dichloroethane-d4	107	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 5 of 7


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-6	10-07-1812-5-A	07/23/10 13:35	Aqueous	GC/MS S	07/24/10	07/25/10 00:52	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	80-126		1,2-Dichloroethane-d4	106	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 6 of 7


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	10-07-1812-6-A	07/23/10 13:00	Aqueous	GC/MS S	07/24/10	07/25/10 05:21	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	500	200	10		1,3-Dichloropropane	ND	10	3.8	10	
Benzene	15	5.0	2.8	10		2,2-Dichloropropane	ND	10	4.6	10	
Bromobenzene	ND	10	3.3	10		1,1-Dichloropropene	ND	10	2.6	10	
Bromochloromethane	ND	10	6.9	10		c-1,3-Dichloropropene	ND	5.0	2.8	10	
Bromodichloromethane	ND	10	3.3	10		t-1,3-Dichloropropene	ND	5.0	3.6	10	
Bromoform	ND	10	5.5	10		Ethylbenzene	ND	10	2.2	10	
Bromomethane	ND	100	43	10		2-Hexanone	ND	100	69	10	
2-Butanone	ND	100	69	10		Isopropylbenzene	ND	10	2.3	10	
n-Butylbenzene	ND	10	2.8	10		p-Isopropyltoluene	ND	10	2.6	10	
sec-Butylbenzene	ND	10	2.0	10		Methylene Chloride	ND	100	26	10	
tert-Butylbenzene	ND	10	2.8	10		4-Methyl-2-Pentanone	ND	100	44	10	
Carbon Disulfide	ND	100	19	10		Naphthalene	ND	100	25	10	
Carbon Tetrachloride	ND	5.0	4.3	10		n-Propylbenzene	ND	10	7.9	10	
Chlorobenzene	ND	10	2.2	10		Styrene	ND	10	3.0	10	
Chloroethane	ND	50	13	10		1,1,1,2-Tetrachloroethane	ND	10	3.5	10	
Chloroform	ND	10	3.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.4	10	
Chloromethane	ND	100	4.9	10		Tetrachloroethene	ND	10	5.1	10	
2-Chlorotoluene	ND	10	5.5	10		Toluene	ND	10	3.3	10	
4-Chlorotoluene	ND	10	2.1	10		1,2,3-Trichlorobenzene	ND	10	3.1	10	
Dibromochloromethane	ND	10	4.8	10		1,2,4-Trichlorobenzene	ND	10	4.9	10	
1,2-Dibromo-3-Chloropropane	ND	50	31	10		1,1,1-Trichloroethane	ND	10	4.5	10	
1,2-Dibromoethane	ND	10	4.7	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	6.4	10	
Dibromomethane	ND	10	5.9	10		1,1,2-Trichloroethane	ND	10	5.4	10	
1,2-Dichlorobenzene	ND	10	2.7	10		Trichloroethene	ND	10	3.0	10	
1,3-Dichlorobenzene	ND	10	2.8	10		Trichlorofluoromethane	ND	100	3.1	10	
1,4-Dichlorobenzene	ND	10	2.1	10		1,2,3-Trichloropropane	ND	50	13	10	
Dichlorodifluoromethane	ND	10	4.9	10		1,2,4-Trimethylbenzene	ND	10	2.4	10	
1,1-Dichloroethane	ND	10	3.7	10		1,3,5-Trimethylbenzene	ND	10	2.3	10	
1,2-Dichloroethane	ND	5.0	3.1	10		Vinyl Acetate	ND	100	71	10	
1,1-Dichloroethene	ND	10	4.0	10		Vinyl Chloride	1200	5.0	3.3	10	
c-1,2-Dichloroethene	ND	10	4.9	10		p/m-Xylene	ND	10	4.5	10	
t-1,2-Dichloroethene	7.6	10	4.0	10	J	o-Xylene	ND	10	2.4	10	
1,2-Dichloropropane	ND	10	3.8	10		Methyl-t-Butyl Ether (MTBE)	ND	10	3.0	10	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	80-126		1,2-Dichloroethane-d4	108	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,494	N/A	Aqueous	GC/MS S	07/24/10	07/24/10 23:52	100724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126		1,2-Dichloroethane-d4	105	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	10-07-1812-3-D	07/23/10 10:15	Aqueous	ICP/MS 04	07/26/10	07/26/10 21:26	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00248	0.0100	0.00105	10	J	mg/L
Silver	ND	0.0100	0.00120	10		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	10-07-1812-4-D	07/23/10 11:44	Aqueous	ICP/MS 04	07/26/10	07/26/10 19:27	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

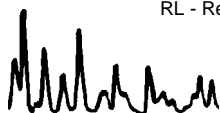
Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.000852	0.00100	0.000105	1	J	mg/L
Silver	ND	0.00100	0.000120	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	096-06-003-2,908	N/A	Aqueous	ICP/MS 04	07/26/10	07/26/10 16:03	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	ND	0.00100	0.000105	1		mg/L
Silver	ND	0.00100	0.000120	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	10-07-1812-3-D	07/23/10 10:15	Aqueous	ICP 5300	07/26/10	07/26/10 16:09	100726LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

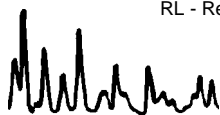
Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	0.0102	0.0100	0.00611	1		mg/L
Barium	0.0512	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	ND	0.0100	0.00429	1		mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	0.0268	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Zinc	0.0107	0.0100	0.00666	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	10-07-1812-4-D	07/23/10 11:44	Aqueous	ICP 5300	07/26/10	07/26/10 16:11	100726LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	0.0536	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	0.00935	0.0100	0.00429	1	J	mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Zinc	0.00880	0.0100	0.00666	1	J	mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

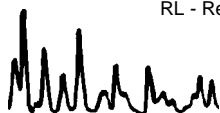
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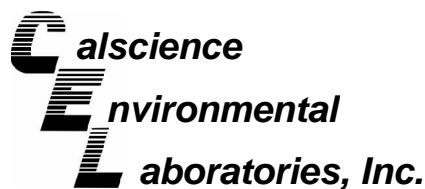
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-10,823	N/A	Aqueous	ICP 5300	07/26/10	07/26/10 17:27	100726LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	ND	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	ND	0.0100	0.00429	1		mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Zinc	ND	0.0100	0.00666	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/23/10
Work Order No: 10-07-1812

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW5	10-07-1812-6	07/23/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	670	10	1.3	10		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	150	5.0	0.81	5		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	74	2.5	0.50	5		mg/L	N/A	07/26/10	SM 5310 B

Method Blank	N/A	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.10	1		mg/L	N/A	07/26/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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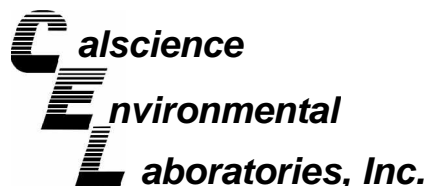
Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1506-7	Aqueous	ICP 5300	07/26/10	07/27/10	100726SA2

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	101	108	72-132	7	0-10	
Arsenic	104	105	80-140	1	0-11	
Barium	111	114	87-123	2	0-6	
Beryllium	102	104	89-119	2	0-8	
Cadmium	101	102	82-124	1	0-7	
Chromium	102	103	86-122	1	0-8	
Cobalt	108	109	83-125	1	0-7	
Lead	104	105	84-120	1	0-7	
Molybdenum	104	106	78-126	2	0-7	
Nickel	104	105	84-120	1	0-7	
Selenium	102	103	79-127	1	0-9	
Thallium	104	105	79-121	1	0-8	
Vanadium	106	107	88-118	1	0-7	
Zinc	87	93	89-131	5	0-8	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



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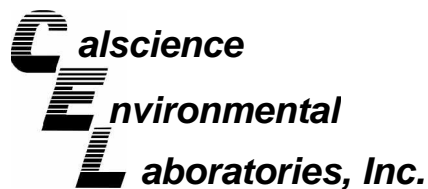
Date Received 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
10-07-1506-7	Aqueous	ICP 5300	07/26/10	07/27/10	100726SA2

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	101	105	75-125	4	0-10	
Arsenic	102	105	75-125	3	0-11	
Barium	112	116	75-125	3	0-6	
Beryllium	103	105	75-125	2	0-8	
Cadmium	101	103	75-125	2	0-7	
Chromium	102	105	75-125	2	0-8	
Cobalt	108	111	75-125	2	0-7	
Lead	103	107	75-125	3	0-7	
Molybdenum	104	108	75-125	3	0-7	
Nickel	104	107	75-125	3	0-7	
Selenium	101	105	75-125	4	0-9	
Thallium	104	107	75-125	3	0-8	
Vanadium	106	109	75-125	3	0-7	
Zinc	102	108	75-125	4	0-8	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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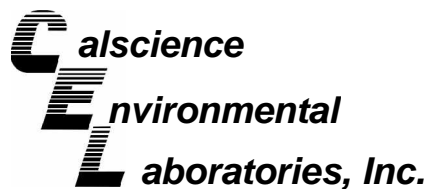
Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3020A Total
Method: EPA 6020

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1807-1	Aqueous	ICP/MS 04	07/26/10	07/26/10	100726S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	106	97	72-108	7	0-10	
Silver	107	101	68-128	6	0-14	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



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Date Received 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 3020A Total
Method: EPA 6020

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
10-07-1807-1	Aqueous	ICP/MS 04	07/26/10	07/26/10	100726S01

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	92	89	75-125	3	0-10	
Silver	101	98	75-125	3	0-14	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: EPA 7470A Total
Method: EPA 7470A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1805-1	Aqueous	Mercury	07/26/10	07/26/10	100726S06

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	81	82	57-141	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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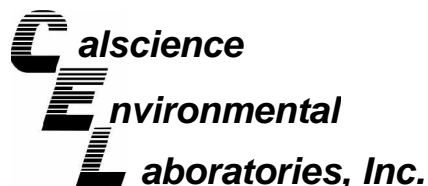
Date Received: 07/23/10
Work Order No: 10-07-1812
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1698-1	Aqueous	HPLC 6	N/A	07/28/10	100728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	115	117	70-130	1	0-30	
Butyric Acid	96	96	70-130	1	0-30	
Lactic Acid	80	81	70-130	1	0-30	
Propionic Acid	99	100	70-130	1	0-30	
Pyruvic Acid	71	66	70-130	6	0-30	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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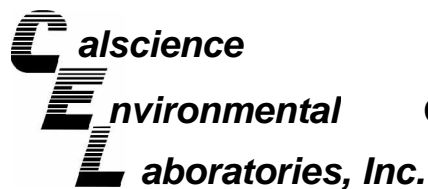
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Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD120-MW4	Aqueous	GC/MS S	07/24/10	07/25/10	100724S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	109	110	80-120	1	0-20	
Carbon Tetrachloride	108	110	55-151	2	0-20	
Chlorobenzene	101	102	80-120	0	0-20	
1,2-Dibromoethane	102	103	77-125	1	0-20	
1,2-Dichlorobenzene	103	102	78-120	1	0-20	
1,2-Dichloroethane	109	109	80-120	0	0-20	
1,1-Dichloroethene	107	108	69-129	0	0-20	
Ethylbenzene	106	106	73-127	0	0-20	
Toluene	109	110	80-120	1	0-20	
Trichloroethene	106	107	67-133	2	0-20	
Vinyl Chloride	109	110	67-133	1	0-20	
Methyl-t-Butyl Ether (MTBE)	103	103	65-131	0	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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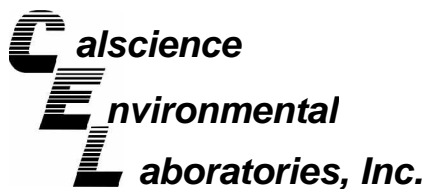
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Work Order No: 10-07-1812

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	10-07-1808-8	07/23/10	N/A	103	103	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	10-07-1808-8	07/23/10	N/A	100	100	80-120	1	0-20	
Nitrate (as N)	EPA 300.0	10-07-1808-8	07/23/10	N/A	101	101	80-120	0	0-20	
Sulfate	EPA 300.0	10-07-1808-8	07/23/10	N/A	101	101	80-120	0	0-20	
Carbon, Total Organic	SM 5310 B	10-07-1800-1	07/26/10	N/A	69	87	70-130	11	0-25	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



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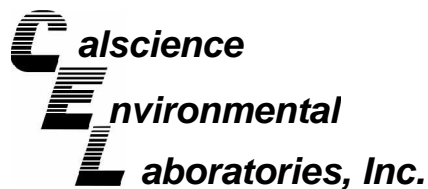
Date Received: N/A
Work Order No: 10-07-1812

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	10-07-1697-1	07/24/10	0.40	0.40	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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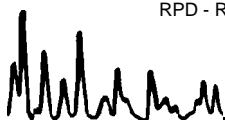
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Work Order No: 10-07-1812
Preparation: N/A
Method: RSK-175M

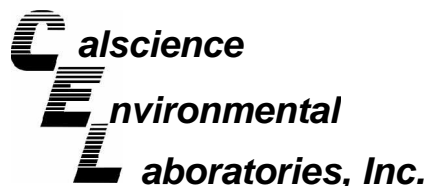
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-329	Aqueous	GC 52	N/A	07/26/10	100726L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	101	99	80-120	2	0-20	
Methane	99	96	79-109	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 10-07-1812
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-003-10,823	Aqueous	ICP 5300	07/26/10	07/26/10	100726LA2F		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	103	104	80-120	73-127	1	0-20	
Arsenic	100	101	80-120	73-127	1	0-20	
Barium	110	108	80-120	73-127	1	0-20	
Beryllium	98	97	80-120	73-127	1	0-20	
Cadmium	102	101	80-120	73-127	0	0-20	
Chromium	100	100	80-120	73-127	0	0-20	
Cobalt	114	114	80-120	73-127	0	0-20	
Lead	104	106	80-120	73-127	1	0-20	
Molybdenum	101	103	80-120	73-127	2	0-20	
Nickel	107	107	80-120	73-127	0	0-20	
Selenium	96	97	80-120	73-127	1	0-20	
Thallium	105	106	80-120	73-127	1	0-20	
Vanadium	103	103	80-120	73-127	1	0-20	
Zinc	106	106	80-120	73-127	0	0-20	

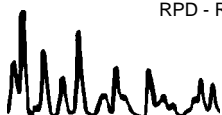
Total number of LCS compounds : 14

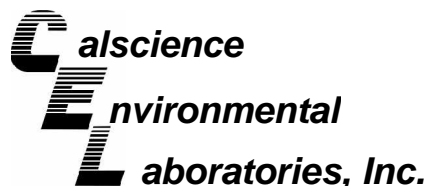
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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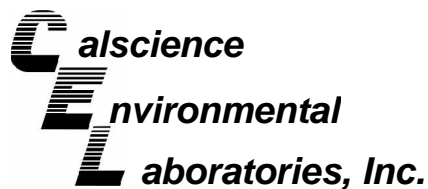
Date Received: N/A
Work Order No: 10-07-1812
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-2,908	Aqueous	ICP/MS 04	07/26/10	07/26/10	100726L01F

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Copper	98	101	80-120	3	0-20	
Silver	89	90	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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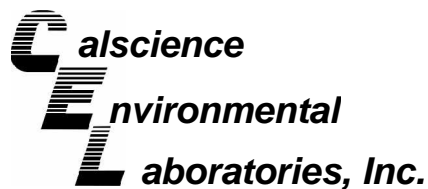
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Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,371	Aqueous	GC 49	07/27/10	07/28/10	100727B16

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	101	100	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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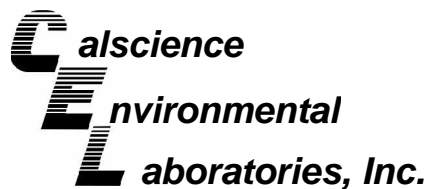
Date Received: N/A
Work Order No: 10-07-1812
Preparation: EPA 7470A Filt.
Method: EPA 7470A

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,869	Aqueous	Mercury	07/26/10	07/26/10	100726L06F

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	104	103	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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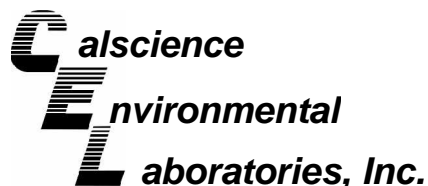
Date Received: N/A
Work Order No: 10-07-1812
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,502	Aqueous	GC/MS GG	07/26/10	07/28/10	100726L07D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	95	95	50-130	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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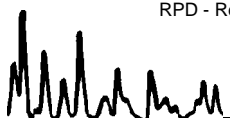
Date Received: N/A
Work Order No: 10-07-1812
Preparation: N/A
Method: HPLC/UV

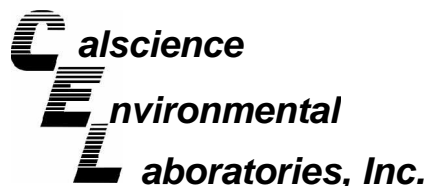
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-270	Aqueous	HPLC 6	N/A	07/28/10	100728L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	109	110	80-120	1	0-20	
Butyric Acid	105	109	80-120	4	0-20	
Lactic Acid	103	104	80-120	0	0-20	
Propionic Acid	115	115	80-120	0	0-20	
Pyruvic Acid	90	91	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 10-07-1812
Preparation: EPA 3510C
Method: EPA 8270C SIM

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-430-98	Aqueous	GC/MS MM	07/26/10	07/28/10	100726L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
2,4,6-Trichlorophenol	88	87	80-120	73-127	2	0-20	
2,4-Dichlorophenol	82	81	40-160	20-180	1	0-20	
2-Methylphenol	83	83	40-160	20-180	1	0-20	
2-Nitrophenol	75	76	40-160	20-180	1	0-20	
4-Chloro-3-Methylphenol	76	77	40-160	20-180	1	0-20	
Acenaphthene	77	75	55-121	44-132	2	0-15	
Benzo (a) Pyrene	90	92	17-163	0-187	2	0-20	
Chrysene	86	87	17-168	0-193	1	0-20	
Di-n-Butyl Phthalate	89	89	40-160	20-180	0	0-20	
Dimethyl Phthalate	84	83	40-160	20-180	1	0-20	
Fluoranthene	85	85	26-137	8-156	1	0-20	
Fluorene	80	80	59-121	49-131	0	0-20	
Naphthalene	72	73	21-133	2-152	1	0-20	
Phenanthrene	83	83	54-120	43-131	0	0-20	
Phenol	53	54	40-160	20-180	1	0-20	
Pyrene	82	82	45-129	31-143	0	0-15	

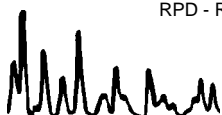
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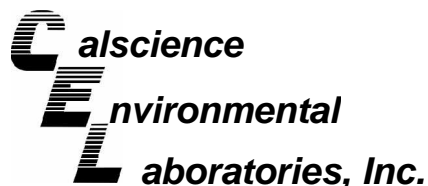
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1812
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,494	Aqueous	GC/MS S	07/24/10	07/24/10	100724L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	107	112	80-120	73-127	5	0-20	
Carbon Tetrachloride	107	109	67-139	55-151	1	0-22	
Chlorobenzene	100	103	80-120	73-127	2	0-20	
1,2-Dibromoethane	104	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	102	105	79-120	72-127	3	0-20	
1,2-Dichloroethane	106	111	80-120	73-127	4	0-20	
1,1-Dichloroethene	106	108	71-125	62-134	2	0-25	
Ethylbenzene	105	108	80-123	73-130	3	0-20	
Toluene	105	112	80-120	73-127	6	0-20	
Trichloroethene	106	111	80-120	73-127	5	0-20	
Vinyl Chloride	103	108	68-140	56-152	5	0-23	
Methyl-t-Butyl Ether (MTBE)	95	101	75-123	67-131	6	0-25	

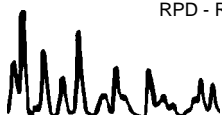
Total number of LCS compounds : 12

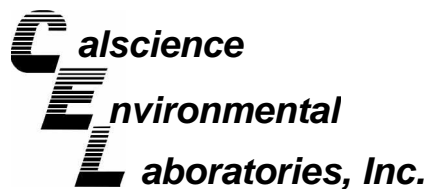
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1812

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-1,155	N/A	07/23/10	104	104	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-1,155	N/A	07/23/10	94	93	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,155	N/A	07/23/10	107	106	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-1,155	N/A	07/23/10	102	102	90-110	0	0-15	
Carbon, Total Organic	SM 5310 B	099-05-097-3,945	N/A	07/26/10	114	109	80-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-07-1812

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



1812

BLAINE
TECH SERVICES, INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

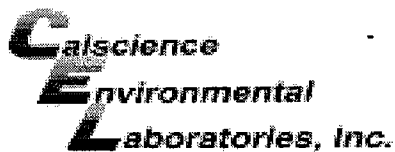
CHAIN OF CUSTODY
CLIENT Geosyntec
SITE Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
				W	TOTAL
BLD11-MMS	7/23/10	0804	W	6	6
BLD11-MMS	7/23/10	0858	W	6	6
MML-3	7/23/10	1015	W	8	8
MML-4	7/23/10	1144	W	8	8
QUEB-6	7/23/10	1335	W	3	3
BLD11-MMS	7/23/10	1300	W	11	11

CONDUCT ANALYSIS TO DETECT							LAB	CalScience	DHS #
VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270)*	EISB Sampling Suite**	Total Chromium/Hexavalent Chromium	SPECIAL INSTRUCTIONS *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids *** Metals Sample were filtered in the field Brian Hitchens Geosyntec: 10875 Rancho Bernardo Rd, suite 200 San Diego, CA 92127 (858) 674-6559	
X	X	X	X	X	X	X	X		
X	X	X	X	X	X	X	X		1
X	X	X	X	X	X	X	X		2
X	X	X	X	X	X	X	X		3
X	X	X	X	X	X	X	X		4
X	X	X	X	X	X	X	X		5
X	X	X	X	X	X	X	X		6

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
7/23/10	7/23/10	1335	Keith S.		
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1066	7/23/10	1410	[Signature]	7/23/10	1410
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[Signature]	7/23/10	18:00	Pannyle	7/23/10	18:00
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #



WORK ORDER #: 10-07-1812

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: GEOSYNTEC

DATE: 07/23/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.2 °C + 0.5 °C (CF) = 2.7 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: VB

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: VB

Sample _____ No (Not Intact) Not Present Initial: DT

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOAp VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

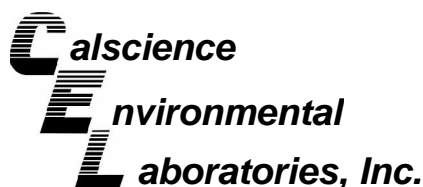
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** DT/ST

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** WSC/TN

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** ST



August 03, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-07-1698**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/22/2010 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	10-07-1698-1-D	07/21/10 17:05	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	5.92	1.00	0.00547	1		ug/L
Ethylene	4.27	1.00	0.0933	1		ug/L
Methane	6680	20.0	0.157	20		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW6	10-07-1698-2-D	07/21/10 18:03	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

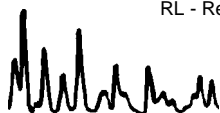
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	12.6	1.00	0.00547	1		ug/L
Ethylene	3.64	1.00	0.0933	1		ug/L
Methane	8150	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-327	N/A	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	10-07-1698-5-F	07/22/10 08:30	Aqueous	GC 49	07/27/10	07/28/10 05:29	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 104 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2	10-07-1698-6-F	07/22/10 09:35	Aqueous	GC 49	07/27/10	07/28/10 05:45	100727B16


Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 113 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 2 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2-B	10-07-1698-7-F	07/22/10 09:35	Aqueous	GC 49	07/27/10	07/28/10 06:01	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 111 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	10-07-1698-8-F	07/22/10 10:55	Aqueous	GC 49	07/27/10	07/28/10 06:16	100727B16


Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

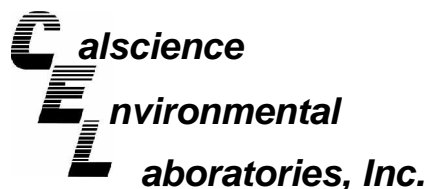
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 107 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 3 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	10-07-1698-9-F	07/22/10 12:00	Aqueous	GC 49	07/27/10	07/28/10 06:31	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 105 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	10-07-1698-10-F	07/22/10 13:05	Aqueous	GC 49	07/27/10	07/28/10 06:47	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 92 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 4 of 4

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-8R	10-07-1698-11-F	07/22/10 14:14	Aqueous	GC 49	07/27/10	07/28/10 07:02	100727B16

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 113 68-140

Method Blank	099-12-308-1,371	N/A	Aqueous	GC 49	07/27/10	07/28/10 04:43	100727B16
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 132 68-140



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	10-07-1698-1-J	07/21/10 17:05	Aqueous	GC/MS GG	07/23/10	07/28/10 19:22	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	62	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	84	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW6	10-07-1698-2-J	07/21/10 18:03	Aqueous	GC/MS GG	07/23/10	07/28/10 19:48	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	27	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	86	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	10-07-1698-5-G	07/22/10 08:30	Aqueous	GC/MS GG	07/23/10	07/28/10 20:13	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

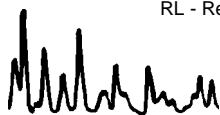
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	8.6	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	88	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2	10-07-1698-6-G	07/22/10 09:35	Aqueous	GC/MS GG	07/23/10	07/28/10 20:39	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	86	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2-B	10-07-1698-7-G	07/22/10 09:35	Aqueous	GC/MS GG	07/23/10	07/28/10 21:04	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	84	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	10-07-1698-8-G	07/22/10 10:55	Aqueous	GC/MS GG	07/23/10	07/28/10 21:30	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	2.5	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	76	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	10-07-1698-9-G	07/22/10 12:00	Aqueous	GC/MS GG	07/23/10	07/28/10 21:55	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

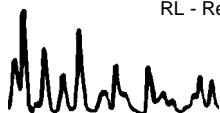
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	3.4	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	83	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	10-07-1698-10-G	07/22/10 13:05	Aqueous	GC/MS GG	07/23/10	07/28/10 22:20	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	9.0	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	82	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-8R	10-07-1698-11-G	07/22/10 14:14	Aqueous	GC/MS GG	07/23/10	07/28/10 22:46	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

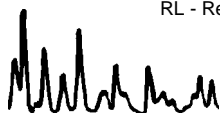
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Nitrobenzene-d5	87	56-123				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-09-004-1,501	N/A	Aqueous	GC/MS GG	07/23/10	07/28/10 18:07	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Nitrobenzene-d5	98	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	10-07-1698-1-F	07/21/10 17:05	Aqueous	HPLC 6	N/A	07/28/10 15:52	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW6	10-07-1698-2-F	07/21/10 18:03	Aqueous	HPLC 6	N/A	07/28/10 16:15	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

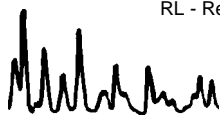
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-270	N/A	Aqueous	HPLC 6	N/A	07/28/10 13:57	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	100	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1698
 Preparation: EPA 3510C
 Method: EPA 8270C SIM
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	10-07-1698-5-I	07/22/10 08:30	Aqueous	GC/MS MM	07/26/10	07/28/10 19:23	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	1.4	5.0	0.44	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	0.47	1.0	0.090	1	J
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	0.24	1.0	0.086	1	J	Naphthalene	0.22	1.0	0.097	1	J
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	0.39	1.0	0.11	1	J

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	56	24-152		2-Fluorobiphenyl	34	33-144	
2-Fluorophenol	51	31-142		Nitrobenzene-d5	63	28-139	
p-Terphenyl-d14	65	23-160		Phenol-d6	43	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1698
 Preparation: EPA 3510C
 Method: EPA 8270C SIM
 Units: ug/L

Project: Teledyne Ryan

Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2	10-07-1698-6-I	07/22/10 09:35	Aqueous	GC/MS MM	07/26/10	07/28/10 18:58	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	70	24-152		2-Fluorobiphenyl	38	33-144	
2-Fluorophenol	71	31-142		Nitrobenzene-d5	80	28-139	
p-Terphenyl-d14	81	23-160		Phenol-d6	49	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2-B	10-07-1698-7-I	07/22/10 09:35	Aqueous	GC/MS MM	07/26/10	07/28/10 18:33	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	90	24-152		2-Fluorobiphenyl	41	33-144	
2-Fluorophenol	69	31-142		Nitrobenzene-d5	77	28-139	
p-Terphenyl-d14	71	23-160		Phenol-d6	50	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	10-07-1698-8-I	07/22/10 10:55	Aqueous	GC/MS MM	07/26/10	07/28/10 18:08	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	0.44	5.0	0.44	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	86	24-152		2-Fluorobiphenyl	52	33-144	
2-Fluorophenol	49	31-142		Nitrobenzene-d5	65	28-139	
p-Terphenyl-d14	72	23-160		Phenol-d6	41	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1698
 Preparation: EPA 3510C
 Method: EPA 8270C SIM
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	10-07-1698-9-I	07/22/10 12:00	Aqueous	GC/MS MM	07/26/10	07/28/10 17:42	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	0.25	1.0	0.086	1	J	Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	73	24-152		2-Fluorobiphenyl	51	33-144	
2-Fluorophenol	71	31-142		Nitrobenzene-d5	83	28-139	
p-Terphenyl-d14	84	23-160		Phenol-d6	52	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	10-07-1698-10-1	07/22/10 13:05	Aqueous	GC/MS MM	07/26/10	07/28/10 17:17	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	85	24-152		2-Fluorobiphenyl	45	33-144	
2-Fluorophenol	78	31-142		Nitrobenzene-d5	82	28-139	
p-Terphenyl-d14	85	23-160		Phenol-d6	42	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-8R	10-07-1698-11-I	07/22/10 14:14	Aqueous	GC/MS MM	07/26/10	07/28/10 16:52	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	68	24-152		2-Fluorobiphenyl	61	33-144	
2-Fluorophenol	54	31-142		Nitrobenzene-d5	77	28-139	
p-Terphenyl-d14	90	23-160		Phenol-d6	36	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-430-98	N/A	Aqueous	GC/MS MM	07/26/10	07/28/10 16:27	100726L03

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	5.0	0.44	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	5.0	0.46	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	5.0	0.67	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	5.0	0.44	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	5.0	0.66	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	5.0	0.61	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
2,4,6-Tribromophenol	71	24-152		2-Fluorobiphenyl	96	33-144	
2-Fluorophenol	92	31-142		Nitrobenzene-d5	92	28-139	
p-Terphenyl-d14	86	23-160		Phenol-d6	89	30-136	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	10-07-1698-1-B	07/21/10 17:05	Aqueous	GC/MS M	07/24/10	07/24/10 17:12	100724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	2.0	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	1.6	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	2.6	0.50	0.33	1	
c-1,2-Dichloroethene	1.1	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126	
Toluene-d8	99	80-120	

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	102	80-131	
1,4-Bromofluorobenzene	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW6	10-07-1698-2-B	07/21/10 18:03	Aqueous	GC/MS M	07/24/10	07/24/10 20:56	100724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	7.4	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	1.3	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.67	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	0.56	1.0	0.33	1	J
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	0.44	1.0	0.27	1	J	Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	2.6	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	0.76	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	80	80-126		1,2-Dichloroethane-d4	62	80-131	2
Toluene-d8	94	80-120		1,4-Bromofluorobenzene	81	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 3 of 15


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3-B	10-07-1698-3-B	07/21/10 17:05	Aqueous	GC/MS M	07/24/10	07/24/10 21:24	100724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	2.0	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	1.5	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	2.5	0.50	0.33	1	
c-1,2-Dichloroethene	0.98	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	107	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-2	10-07-1698-4-B	07/21/10 18:25	Aqueous	GC/MS M	07/24/10	07/24/10 21:53	100724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	105	80-126		1,2-Dichloroethane-d4	108	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	97	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	10-07-1698-5-C	07/22/10 08:30	Aqueous	GC/MS M	07/27/10	07/27/10 17:27	100727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	0.58	1.0	0.37	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	95	80-126		1,2-Dichloroethane-d4	99	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2	10-07-1698-6-C	07/22/10 09:35	Aqueous	GC/MS M	07/27/10	07/27/10 20:48	100727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	80-126		1,2-Dichloroethane-d4	100	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2-B	10-07-1698-7-C	07/22/10 09:35	Aqueous	GC/MS M	07/27/10	07/27/10 21:17	100727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	80-126		1,2-Dichloroethane-d4	100	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 8 of 15


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	10-07-1698-8-C	07/22/10 10:55	Aqueous	GC/MS M	07/27/10	07/27/10 21:47	100727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	32	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	80-126		1,2-Dichloroethane-d4	104	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	105	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	10-07-1698-9-C	07/22/10 12:00	Aqueous	GC/MS M	07/27/10	07/28/10 07:24	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	103	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 10 of 15

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	10-07-1698-10-B	07/22/10 13:05	Aqueous	GC/MS M	07/27/10	07/28/10 07:52	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	3.6	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	0.64	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	80-126		1,2-Dichloroethane-d4	113	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-8R	10-07-1698-11-B	07/22/10 14:14	Aqueous	GC/MS M	07/27/10	07/28/10 02:11	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	80-126		1,2-Dichloroethane-d4	100	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-4	10-07-1698-12-B	07/22/10 14:50	Aqueous	GC/MS M	07/27/10	07/28/10 02:40	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	80-126		1,2-Dichloroethane-d4	100	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	106	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,482	N/A	Aqueous	GC/MS M	07/24/10	07/24/10 16:43	100724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	104	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	98	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,503	N/A	Aqueous	GC/MS M	07/27/10	07/27/10 16:59	100727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	97	80-126		1,2-Dichloroethane-d4	97	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,509	N/A	Aqueous	GC/MS M	07/27/10	07/28/10 01:42	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	101	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filtr.
Method: EPA 6020

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	10-07-1698-5-D	07/22/10 08:30	Aqueous	ICP/MS 04	07/26/10	07/28/10 01:00	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	ND	0.0100	0.00105	10		mg/L
Silver	ND	0.0100	0.00120	10		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2	10-07-1698-6-D	07/22/10 09:35	Aqueous	ICP/MS 04	07/26/10	07/26/10 20:26	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00162	0.00100	0.000105	1		mg/L
Silver	ND	0.00100	0.000120	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2-B	10-07-1698-7-D	07/22/10 09:35	Aqueous	ICP/MS 04	07/26/10	07/26/10 20:30	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00157	0.00100	0.000105	1		mg/L
Silver	ND	0.00100	0.000120	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	10-07-1698-8-D	07/22/10 10:55	Aqueous	ICP/MS 04	07/26/10	07/28/10 01:04	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

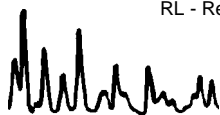
Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00951	0.0100	0.00105	10	J	mg/L
Silver	ND	0.0100	0.00120	10		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	10-07-1698-9-D	07/22/10 12:00	Aqueous	ICP/MS 04	07/26/10	07/26/10 21:12	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00127	0.00100	0.000105	1		mg/L
Silver	ND	0.00100	0.000120	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	10-07-1698-10-D	07/22/10 13:05	Aqueous	ICP/MS 04	07/26/10	07/28/10 01:07	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00446	0.0100	0.00105	10	J	mg/L
Silver	ND	0.0100	0.00120	10		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-8R	10-07-1698-11-D	07/22/10 14:14	Aqueous	ICP/MS 04	07/26/10	07/26/10 21:19	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

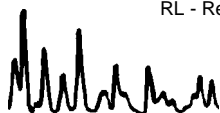
Parameter	Result	RL	MDL	DF	Qual	Units
Copper	0.00147	0.00100	0.000105	1		mg/L
Silver	ND	0.00100	0.000120	1		mg/L

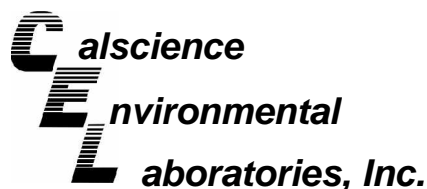
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	096-06-003-2,908	N/A	Aqueous	ICP/MS 04	07/26/10	07/26/10 16:03	100726L01F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Copper	ND	0.00100	0.000105	1		mg/L
Silver	ND	0.00100	0.000120	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	10-07-1698-5-D	07/22/10 08:30	Aqueous	ICP 5300	07/23/10	07/24/10 11:54	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 07/23/10 16:32 with batch 100723L01F.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	0.0626	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	0.00596	0.0100	0.00441	1	J	mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	0.00952	0.0100	0.00429	1	J	mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	ND	0.0100	0.00666	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

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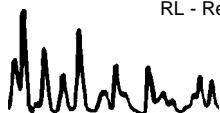
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2	10-07-1698-6-D	07/22/10 09:35	Aqueous	ICP 5300	07/23/10	07/28/10 10:25	100723LA2F

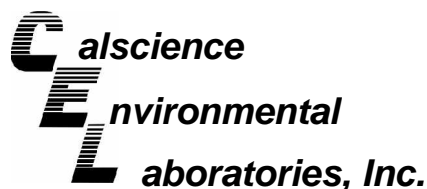
Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 07/23/10 16:39 with batch 100723L01F.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	0.0769	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	0.0112	0.0100	0.00429	1		mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	ND	0.0100	0.00666	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-2-B	10-07-1698-7-D	07/22/10 09:35	Aqueous	ICP 5300	07/23/10	07/28/10 10:27	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.
-Mercury analysis was performed on 07/23/10 16:41 with batch 100723L01F.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	0.0733	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	0.0100	0.0100	0.00429	1		mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	0.0141	0.0100	0.00666	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

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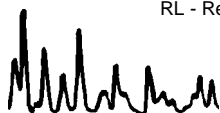
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	10-07-1698-8-D	07/22/10 10:55	Aqueous	ICP 5300	07/23/10	07/28/10 10:40	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 07/23/10 16:43 with batch 100723L01F.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0750	0.0372	5		mg/L
Arsenic	ND	0.0500	0.0305	5		mg/L
Barium	0.0370	0.0500	0.0233	5	J	mg/L
Beryllium	ND	0.0500	0.0219	5		mg/L
Cadmium	ND	0.0500	0.0227	5		mg/L
Chromium	ND	0.0500	0.0218	5		mg/L
Cobalt	ND	0.0500	0.0221	5		mg/L
Lead	ND	0.0500	0.0347	5		mg/L
Molybdenum	ND	0.0500	0.0214	5		mg/L
Nickel	ND	0.0500	0.0216	5		mg/L
Selenium	ND	0.0750	0.0535	5		mg/L
Thallium	ND	0.0750	0.0270	5		mg/L
Vanadium	ND	0.0500	0.0224	5		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	ND	0.0500	0.0333	5		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

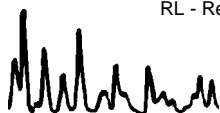
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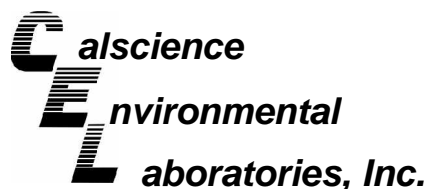
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	10-07-1698-9-D	07/22/10 12:00	Aqueous	ICP 5300	07/23/10	07/28/10 10:31	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.
-Mercury analysis was performed on 07/23/10 16:46 with batch 100723L01F.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	0.0478	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	0.00434	0.0100	0.00429	1	J	mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	0.0134	0.0150	0.0107	1	J	mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	0.0220	0.0100	0.00666	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	10-07-1698-10-D	07/22/10 13:05	Aqueous	ICP 5300	07/23/10	07/28/10 10:42	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury analysis was performed on 07/23/10 16:48 with batch 100723L01F.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0750	0.0372	5		mg/L
Arsenic	ND	0.0500	0.0305	5		mg/L
Barium	0.0545	0.0500	0.0233	5		mg/L
Beryllium	ND	0.0500	0.0219	5		mg/L
Cadmium	ND	0.0500	0.0227	5		mg/L
Chromium	ND	0.0500	0.0218	5		mg/L
Cobalt	ND	0.0500	0.0221	5		mg/L
Lead	ND	0.0500	0.0347	5		mg/L
Molybdenum	ND	0.0500	0.0214	5		mg/L
Nickel	ND	0.0500	0.0216	5		mg/L
Selenium	ND	0.0750	0.0535	5		mg/L
Thallium	ND	0.0750	0.0270	5		mg/L
Vanadium	ND	0.0500	0.0224	5		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	ND	0.0500	0.0333	5		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1698
 Preparation: EPA 3005A Filt. / EPA 7470A Filt.
 Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-8R	10-07-1698-11-D	07/22/10 14:14	Aqueous	ICP 5300	07/23/10	07/28/10 10:35	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.
 -Mercury analysis was performed on 07/23/10 16:51 with batch 100723L01F.

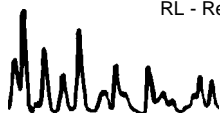
Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	0.0434	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	0.00804	0.0100	0.00429	1	J	mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Mercury	ND	0.000500	0.0000310	1		mg/L
Zinc	0.00742	0.0100	0.00666	1	J	mg/L

Method Blank	099-04-008-4,866	N/A	Aqueous	Mercury	07/23/10	07/23/10 16:05	100723L01F
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Comment(s): -Preparation/analysis for Mercury was performed by EPA 7470A.
 -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Mercury	ND	0.000500	0.0000310	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

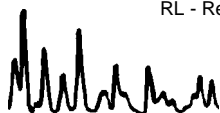
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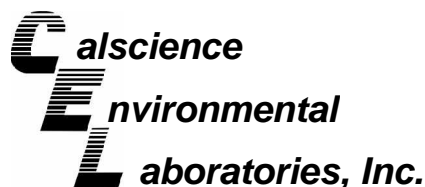
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-10,820	N/A	Aqueous	ICP 5300	07/23/10	07/24/10 11:05	100723LA2F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00744	1		mg/L
Arsenic	ND	0.0100	0.00611	1		mg/L
Barium	ND	0.0100	0.00465	1		mg/L
Beryllium	ND	0.0100	0.00439	1		mg/L
Cadmium	ND	0.0100	0.00454	1		mg/L
Chromium	ND	0.0100	0.00436	1		mg/L
Cobalt	ND	0.0100	0.00441	1		mg/L
Lead	ND	0.0100	0.00693	1		mg/L
Molybdenum	ND	0.0100	0.00429	1		mg/L
Nickel	ND	0.0100	0.00433	1		mg/L
Selenium	ND	0.0150	0.0107	1		mg/L
Thallium	ND	0.0150	0.00540	1		mg/L
Vanadium	ND	0.0100	0.00449	1		mg/L
Zinc	ND	0.0100	0.00666	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1698

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW3	10-07-1698-1	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	630	10	1.3	10		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	16	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	0.30	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	38	2.5	0.50	5		mg/L	N/A	07/23/10	SM 5310 B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW6	10-07-1698-2	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

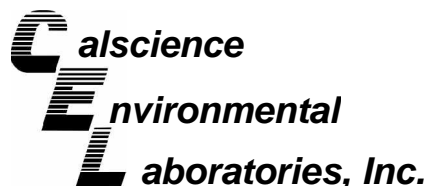
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	750	10	1.3	10		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	0.16	1.0	0.16	1	J	mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	0.20	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	87	2.5	0.50	5		mg/L	N/A	07/23/10	SM 5310 B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.10	1		mg/L	N/A	07/23/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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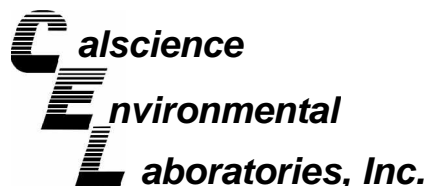
Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MWCL-1	Aqueous	ICP 5300	07/23/10	07/24/10	100723SA2

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	113	113	72-132	1	0-10	
Arsenic	106	108	80-140	2	0-11	
Barium	94	97	87-123	3	0-6	
Beryllium	88	91	89-119	2	0-8	3
Cadmium	82	83	82-124	1	0-7	
Chromium	89	89	86-122	1	0-8	
Cobalt	90	90	83-125	0	0-7	
Lead	81	81	84-120	0	0-7	3
Molybdenum	95	96	78-126	1	0-7	
Nickel	87	88	84-120	1	0-7	
Selenium	105	108	79-127	2	0-9	
Thallium	78	79	79-121	2	0-8	3
Vanadium	100	102	88-118	2	0-7	
Zinc	77	77	89-131	0	0-8	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



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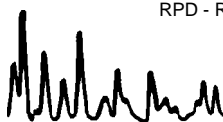
Date Received 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
MWCL-1	Aqueous	ICP 5300	07/23/10	07/24/10	100723SA2

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	112	109	75-125	2	0-10	
Arsenic	106	103	75-125	3	0-11	
Barium	94	93	75-125	2	0-6	
Beryllium	89	87	75-125	2	0-8	
Cadmium	81	80	75-125	1	0-7	
Chromium	88	86	75-125	1	0-8	
Cobalt	88	87	75-125	1	0-7	
Lead	79	78	75-125	1	0-7	
Molybdenum	93	93	75-125	1	0-7	
Nickel	85	84	75-125	1	0-7	
Selenium	104	101	75-125	3	0-9	
Thallium	76	75	75-125	1	0-8	
Vanadium	100	98	75-125	2	0-7	
Zinc	75	75	75-125	0	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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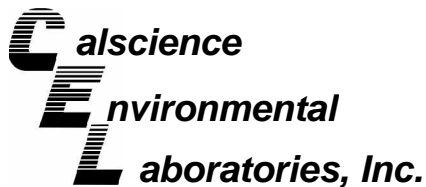
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Work Order No: 10-07-1698
Preparation: EPA 3020A Total
Method: EPA 6020

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1807-1	Aqueous	ICP/MS 04	07/26/10	07/26/10	100726S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	106	97	72-108	7	0-10	
Silver	107	101	68-128	6	0-14	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



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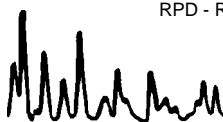
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 Method: EPA 6020

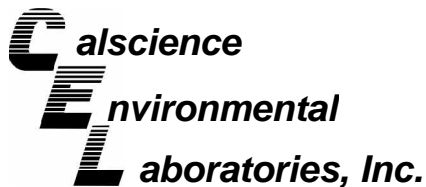
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
10-07-1807-1	Aqueous	ICP/MS 04	07/26/10	07/26/10	100726S01

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	92	89	75-125	3	0-10	
Silver	101	98	75-125	3	0-14	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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Date Received: 07/22/10
 Work Order No: 10-07-1698
 Preparation: EPA 7470A Total
 Method: EPA 7470A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1390-1	Aqueous	Mercury	07/23/10	07/23/10	100723S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	100	100	57-141	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD131-MW3	Aqueous	HPLC 6	N/A	07/28/10	100728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	115	117	70-130	1	0-30	
Butyric Acid	96	96	70-130	1	0-30	
Lactic Acid	80	81	70-130	1	0-30	
Propionic Acid	99	100	70-130	1	0-30	
Pyruvic Acid	71	66	70-130	6	0-30	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD131-MW3	Aqueous	GC/MS M	07/24/10	07/24/10	100724S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	96	80-120	3	0-20	
Carbon Tetrachloride	100	101	55-151	1	0-20	
Chlorobenzene	92	94	80-120	2	0-20	
1,2-Dibromoethane	94	98	77-125	4	0-20	
1,2-Dichlorobenzene	97	99	78-120	2	0-20	
1,2-Dichloroethane	94	97	80-120	3	0-20	
1,1-Dichloroethene	92	97	69-129	5	0-20	
Ethylbenzene	96	98	73-127	2	0-20	
Toluene	93	96	80-120	3	0-20	
Trichloroethene	90	93	67-133	3	0-20	
Vinyl Chloride	100	106	67-133	6	0-20	
Methyl-t-Butyl Ether (MTBE)	92	96	65-131	4	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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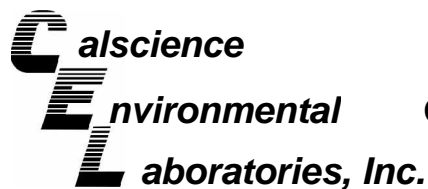
Date Received: 07/22/10
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MWCL-1	Aqueous	GC/MS M	07/27/10	07/27/10	100727S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	100	80-120	1	0-20	
Carbon Tetrachloride	116	115	55-151	1	0-20	
Chlorobenzene	99	99	80-120	0	0-20	
1,2-Dibromoethane	103	104	77-125	1	0-20	
1,2-Dichlorobenzene	99	99	78-120	0	0-20	
1,2-Dichloroethane	103	104	80-120	1	0-20	
1,1-Dichloroethene	103	101	69-129	2	0-20	
Ethylbenzene	104	103	73-127	1	0-20	
Toluene	101	101	80-120	0	0-20	
Trichloroethene	102	103	67-133	1	0-20	
Vinyl Chloride	96	95	67-133	1	0-20	
Methyl-t-Butyl Ether (MTBE)	97	96	65-131	1	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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Date Received:
Work Order No:

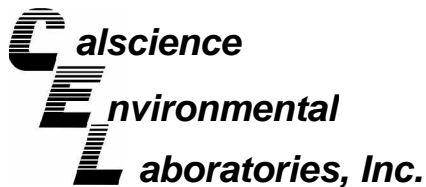
N/A
10-07-1698

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	10-07-1697-1	07/23/10	N/A	92	91	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	10-07-1697-1	07/23/10	N/A	100	100	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	10-07-1697-1	07/23/10	N/A	98	98	80-120	0	0-20	
Sulfate	EPA 300.0	10-07-1697-1	07/23/10	N/A	97	97	80-120	0	0-20	
Carbon, Total Organic	SM 5310 B	BLD131-MW3	07/23/10	N/A	100	109	70-130	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



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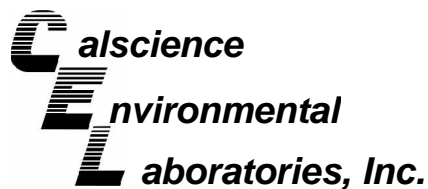
Date Received: N/A
Work Order No: 10-07-1698

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	10-07-1697-1	07/24/10	0.40	0.40	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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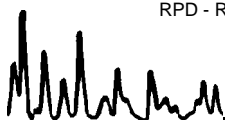
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Work Order No: 10-07-1698
Preparation: N/A
Method: RSK-175M

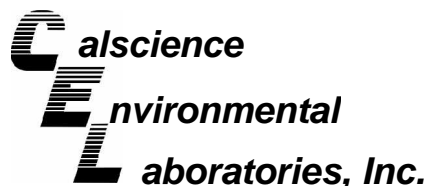
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-327	Aqueous	GC 33	N/A	07/23/10	100723L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	96	96	80-120	0	0-20	
Methane	101	101	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-003-10,820	Aqueous	ICP 5300	07/23/10	07/24/10	100723LA2F		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	102	102	80-120	73-127	0	0-20	
Arsenic	100	99	80-120	73-127	1	0-20	
Barium	112	114	80-120	73-127	2	0-20	
Beryllium	101	103	80-120	73-127	2	0-20	
Cadmium	100	101	80-120	73-127	1	0-20	
Chromium	101	103	80-120	73-127	1	0-20	
Cobalt	110	110	80-120	73-127	0	0-20	
Lead	102	103	80-120	73-127	1	0-20	
Molybdenum	102	102	80-120	73-127	0	0-20	
Nickel	107	107	80-120	73-127	0	0-20	
Selenium	96	97	80-120	73-127	1	0-20	
Thallium	105	105	80-120	73-127	0	0-20	
Vanadium	106	107	80-120	73-127	1	0-20	
Zinc	101	101	80-120	73-127	0	0-20	

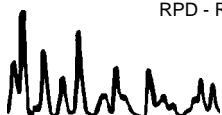
Total number of LCS compounds : 14

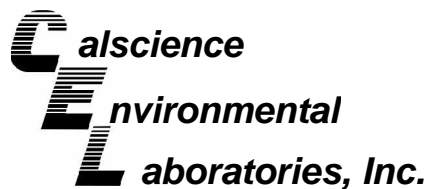
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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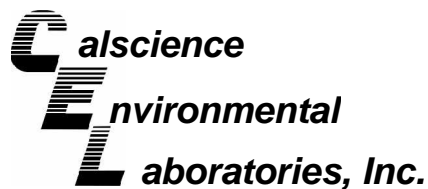
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Work Order No: 10-07-1698
Preparation: EPA 3005A Filt.
Method: EPA 6020

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
096-06-003-2,908	Aqueous	ICP/MS 04	07/26/10	07/26/10	100726L01F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Copper	98	101	80-120	3	0-20	
Silver	89	90	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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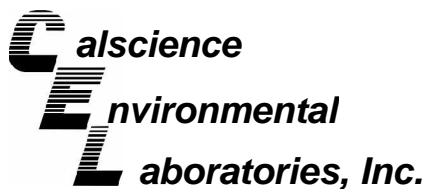
Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,371	Aqueous	GC 49	07/27/10	07/28/10	100727B16

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	101	100	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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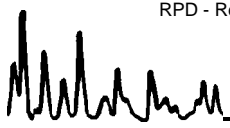
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 Work Order No: 10-07-1698
 Preparation: EPA 7470A Filt.
 Method: EPA 7470A

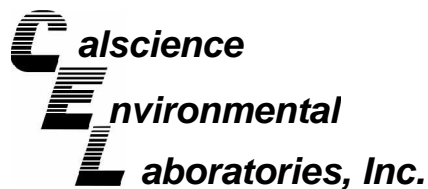
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,866	Aqueous	Mercury	07/23/10	07/23/10	100723L01F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	99	97	85-121	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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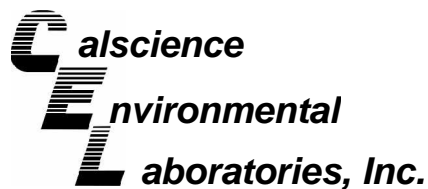
Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,501	Aqueous	GC/MS GG	07/23/10	07/28/10	100723L19D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	94	96	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

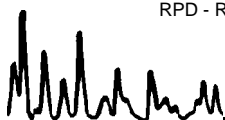
Date Received: N/A
Work Order No: 10-07-1698
Preparation: N/A
Method: HPLC/UV

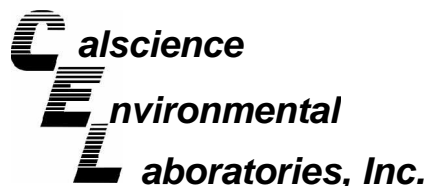
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-270	Aqueous	HPLC 6	N/A	07/28/10	100728L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	109	110	80-120	1	0-20	
Butyric Acid	105	109	80-120	4	0-20	
Lactic Acid	103	104	80-120	0	0-20	
Propionic Acid	115	115	80-120	0	0-20	
Pyruvic Acid	90	91	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 3510C
Method: EPA 8270C SIM

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-430-98	Aqueous	GC/MS MM	07/26/10	07/28/10	100726L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
2,4,6-Trichlorophenol	88	87	80-120	73-127	2	0-20	
2,4-Dichlorophenol	82	81	40-160	20-180	1	0-20	
2-Methylphenol	83	83	40-160	20-180	1	0-20	
2-Nitrophenol	75	76	40-160	20-180	1	0-20	
4-Chloro-3-Methylphenol	76	77	40-160	20-180	1	0-20	
Acenaphthene	77	75	55-121	44-132	2	0-15	
Benzo (a) Pyrene	90	92	17-163	0-187	2	0-20	
Chrysene	86	87	17-168	0-193	1	0-20	
Di-n-Butyl Phthalate	89	89	40-160	20-180	0	0-20	
Dimethyl Phthalate	84	83	40-160	20-180	1	0-20	
Fluoranthene	85	85	26-137	8-156	1	0-20	
Fluorene	80	80	59-121	49-131	0	0-20	
Naphthalene	72	73	21-133	2-152	1	0-20	
Phenanthrene	83	83	54-120	43-131	0	0-20	
Phenol	53	54	40-160	20-180	1	0-20	
Pyrene	82	82	45-129	31-143	0	0-15	

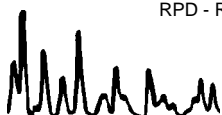
Total number of LCS compounds : 16

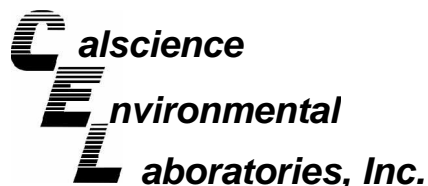
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,482	Aqueous	GC/MS M	07/24/10	07/24/10	100724L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	94	98	80-120	73-127	4	0-20	
Carbon Tetrachloride	97	104	67-139	55-151	6	0-22	
Chlorobenzene	92	97	80-120	73-127	5	0-20	
1,2-Dibromoethane	97	100	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	100	79-120	72-127	5	0-20	
1,2-Dichloroethane	95	100	80-120	73-127	4	0-20	
1,1-Dichloroethene	91	99	71-125	62-134	8	0-25	
Ethylbenzene	96	101	80-123	73-130	5	0-20	
Toluene	94	100	80-120	73-127	6	0-20	
Trichloroethene	92	97	80-120	73-127	6	0-20	
Vinyl Chloride	104	111	68-140	56-152	6	0-23	
Methyl-t-Butyl Ether (MTBE)	96	103	75-123	67-131	7	0-25	

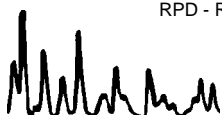
Total number of LCS compounds : 12

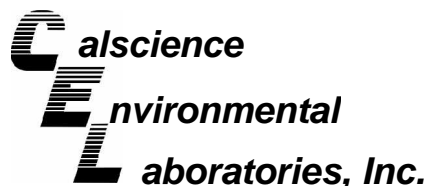
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,503	Aqueous	GC/MS M	07/27/10	07/27/10	100727L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	100	80-120	73-127	1	0-20	
Carbon Tetrachloride	113	111	67-139	55-151	2	0-22	
Chlorobenzene	100	98	80-120	73-127	2	0-20	
1,2-Dibromoethane	104	102	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	95	99	79-120	72-127	4	0-20	
1,2-Dichloroethane	103	101	80-120	73-127	2	0-20	
1,1-Dichloroethene	105	102	71-125	62-134	3	0-25	
Ethylbenzene	104	102	80-123	73-130	2	0-20	
Toluene	103	100	80-120	73-127	3	0-20	
Trichloroethene	104	101	80-120	73-127	3	0-20	
Vinyl Chloride	93	95	68-140	56-152	2	0-23	
Methyl-t-Butyl Ether (MTBE)	103	102	75-123	67-131	2	0-25	

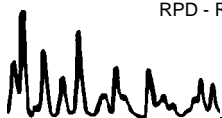
Total number of LCS compounds : 12

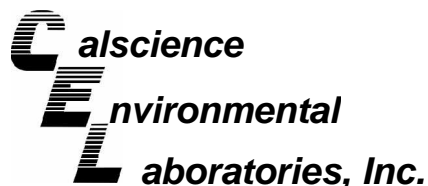
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1698
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,509	Aqueous	GC/MS M	07/27/10	07/28/10	100727L02		
<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	99	99	80-120	73-127	1	0-20	
Carbon Tetrachloride	112	115	67-139	55-151	3	0-22	
Chlorobenzene	98	98	80-120	73-127	1	0-20	
1,2-Dibromoethane	102	104	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	98	98	79-120	72-127	0	0-20	
1,2-Dichloroethane	103	102	80-120	73-127	1	0-20	
1,1-Dichloroethene	99	102	71-125	62-134	3	0-25	
Ethylbenzene	101	100	80-123	73-130	1	0-20	
Toluene	99	99	80-120	73-127	0	0-20	
Trichloroethene	102	100	80-120	73-127	1	0-20	
Vinyl Chloride	92	94	68-140	56-152	1	0-23	
Methyl-t-Butyl Ether (MTBE)	97	101	75-123	67-131	3	0-25	

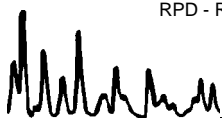
Total number of LCS compounds : 12

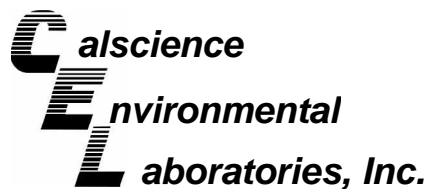
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
10-07-1698

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-1,153	N/A	07/23/10	106	105	90-110	1	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-1,153	N/A	07/23/10	94	94	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,153	N/A	07/23/10	107	107	90-110	1	0-15	
Sulfate	EPA 300.0	099-12-906-1,153	N/A	07/23/10	104	103	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: N/A
 Work Order No: 10-07-1698

Project: Teledyne Ryan

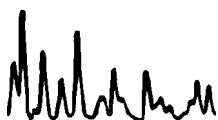
Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 B	099-05-097-3,948	07/23/10	N/A	10.0	9.70	97	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-07-1698

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



1698 1/2

BLAINE
TECH SERVICES, INC.
1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

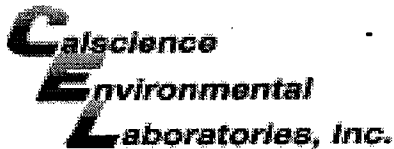
CHAIN OF CUSTODY
CLIENT: Geosyntec
SITE: Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX W = Soil H2O = H2O	CONTAINERS	
				TOTAL	
BLD131-MW-3	7/21/10	1705	W	12	
BLD131-MW-6	7/21/10	1803	W	12	
BLD131-MW-8	7/21/10	1705	W	3	
QUEB-2	7/21/10	1425	W	3	
AWCL-1	7/21/10	0830	W	9	
AWCL-2	7/21/10	0935	W	H2 9	
AWCL-2-B	7/21/10	0935	W	H2 9	
AWCL-5	7/22/10	1055	W	9	
AWCL-6	7/22/10	1200	W	9	
AWCL-7	7/22/10	1305	W	9	

SAMPLING PERFORMED BY: *Keith*
RELEASED BY: *MB* DATE: 7/21/10 TIME: 7:10
RELEASED BY: *Randy N* DATE: 7/22/10 TIME: 1520
RELEASED BY: *Randy N* DATE: 7/22/10 TIME: 1816
SHIPPED VIA: DATE SENT: TIME SENT: COOLER #:

CONDUCT ANALYSIS TO DETECT							LAB	CalScience	DHS #
VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	Metals (6010B/7470A)***	1,4-Dioxane (Modified 8270)*	EISB Sampling Suite**			
X	X	X	X	X	X	X	Total Chromium/Hexavalent Chromium	SPECIAL INSTRUCTIONS	1698 1/2
X	X	X	X	X	X	X		*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits	
X	X	X	X	X	X	X		**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids	
X	X	X	X	X	X	X		*** Metals Sample were filtered in the field	
X	X	X	X	X	X	X		Brian Hitchens	
X	X	X	X	X	X	X		Geosyntec: 10875 Rancho Bernardo Rd, suite 200	
X	X	X	X	X	X	X		San Diego, CA 92127	
X	X	X	X	X	X	X		(858) 674-6559	

RESULTS NEEDED NO LATER THAN		DATE	TIME	RECEIVED BY	DATE	TIME
		7/22/10	1520	<i>Randy N</i>	7/22/10	1520
		7/22/10	1816	<i>Randy N</i>	7/22/10	1816



WORK ORDER #: 10-07-1698

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: GEOSYNTEC

DATE: 07/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.0 °C + 0.5 °C (CF) = 2.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: AM

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: AM

Sample _____ No (Not Intact) Not Present Initial: DT

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOAP VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

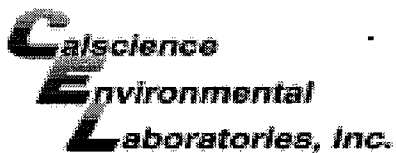
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBnf 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** DT

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** DT

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z₂na: ZnAc₂+NaOH f: Field-filtered **Scanned by:** DT



WORK ORDER #: 10-07-1698

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: GEOSYNTEC

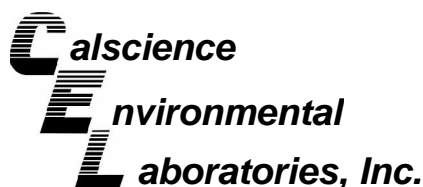
DATE: 07/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 2.6°C + 0.5°C (CF) = 3.1°C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: AM

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Initial: AM
Initial: DT

Table with 4 columns: SAMPLE CONDITION, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, Sample container(s) intact and good condition, Proper containers and sufficient volume for analyses requested, Analyses received within holding time, pH / Residual Chlorine / Dissolved Sulfide received within 24 hours, Proper preservation noted on COC or sample container, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBf 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by: DT
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by:



August 03, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-07-1697**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/22/2010 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	10-07-1697-1-D	07/21/10 17:25	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	4.30	1.00	0.00547	1		ug/L
Ethylene	72.4	1.00	0.0933	1		ug/L
Methane	10800	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	10-07-1697-5-D	07/22/10 11:40	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.0900	1.00	0.00547	1	J	ug/L
Ethylene	0.810	1.00	0.0933	1	J	ug/L
Methane	5810	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	10-07-1697-6-D	07/22/10 13:12	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	8.41	1.00	0.00547	1		ug/L
Ethylene	15.1	1.00	0.0933	1		ug/L
Methane	7930	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	10-07-1697-7-D	07/22/10 15:01	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

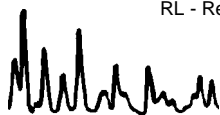
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.120	1.00	0.00547	1	J	ug/L
Ethylene	2.51	1.00	0.0933	1		ug/L
Methane	6700	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	10-07-1697-8-D	07/22/10 14:05	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.150	1.00	0.00547	1	J	ug/L
Ethylene	0.250	1.00	0.0933	1	J	ug/L
Methane	7170	40.0	0.314	40		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1697
 Preparation: N/A
 Method: RSK-175M

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-327	N/A	Aqueous	GC 33	N/A	07/23/10 00:00	100723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Area D-MW1	10-07-1697-2-E	07/21/10 18:34	Aqueous	GC 48	07/23/10	07/25/10 04:04	100723B31

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	160	500	14	1	J	C21-C22	190	500	180	1	J
C7	270	500	61	1	J	C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	250	500	160	1	J
C9-C10	ND	500	130	1		C29-C32	410	500	85	1	J
C11-C12	150	500	140	1	J	C33-C36	230	500	79	1	J
C13-C14	ND	500	160	1		C37-C40	87	500	68	1	J
C15-C16	190	500	170	1	J	C41-C44	ND	500	66	1	
C17-C18	240	500	170	1	J	C6-C44 Total	2400	500	480	1	
C19-C20	190	500	180	1	J						

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 111 68-140

Area D-MW2	10-07-1697-4-F	07/22/10 10:06	Aqueous	GC 48	07/23/10	07/25/10 04:19	100723B31
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 116 68-140

Method Blank	099-12-308-1,370	N/A	Aqueous	GC 48	07/23/10	07/25/10 00:44	100723B31
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 122 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	10-07-1697-1-I	07/21/10 17:25	Aqueous	GC/MS GG	07/23/10	07/28/10 18:32	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	4.6	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	92	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Area D-MW2	10-07-1697-4-E	07/22/10 10:06	Aqueous	GC/MS GG	07/23/10	07/28/10 18:57	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

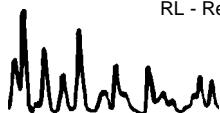
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	98	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-09-004-1,501	N/A	Aqueous	GC/MS GG	07/23/10	07/28/10 18:07	100723L19D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	98	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	10-07-1697-1-F	07/21/10 17:25	Aqueous	HPLC 6	N/A	07/28/10 17:24	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	99	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	10-07-1697-5-F	07/22/10 11:40	Aqueous	HPLC 6	N/A	07/28/10 17:47	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

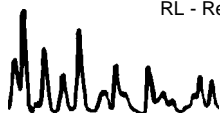
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	6.4	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	10-07-1697-6-F	07/22/10 13:12	Aqueous	HPLC 6	N/A	07/28/10 18:11	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	101	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

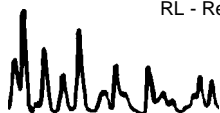
Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-270	N/A	Aqueous	HPLC 6	N/A	07/28/10 13:57	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	100	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	10-07-1697-1-C	07/21/10 17:25	Aqueous	GC/MS EE	07/27/10	07/28/10 03:49	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	250	100	5		1,3-Dichloropropane	ND	5.0	1.9	5	
Benzene	ND	2.5	1.4	5		2,2-Dichloropropane	ND	5.0	2.3	5	
Bromobenzene	ND	5.0	1.7	5		1,1-Dichloropropene	ND	5.0	1.3	5	
Bromochloromethane	ND	5.0	3.5	5		c-1,3-Dichloropropene	ND	2.5	1.4	5	
Bromodichloromethane	ND	5.0	1.7	5		t-1,3-Dichloropropene	ND	2.5	1.8	5	
Bromoform	ND	5.0	2.8	5		Ethylbenzene	ND	5.0	1.1	5	
Bromomethane	ND	50	21	5		2-Hexanone	ND	50	34	5	
2-Butanone	ND	50	35	5		Isopropylbenzene	ND	5.0	1.1	5	
n-Butylbenzene	ND	5.0	1.4	5		p-Isopropyltoluene	ND	5.0	1.3	5	
sec-Butylbenzene	ND	5.0	1.0	5		Methylene Chloride	ND	50	13	5	
tert-Butylbenzene	ND	5.0	1.4	5		4-Methyl-2-Pentanone	ND	50	22	5	
Carbon Disulfide	ND	50	9.6	5		Naphthalene	ND	50	13	5	
Carbon Tetrachloride	ND	2.5	2.1	5		n-Propylbenzene	ND	5.0	4.0	5	
Chlorobenzene	ND	5.0	1.1	5		Styrene	ND	5.0	1.5	5	
Chloroethane	ND	25	6.4	5		1,1,1,2-Tetrachloroethane	ND	5.0	1.8	5	
Chloroform	ND	5.0	1.7	5		1,1,2,2-Tetrachloroethane	ND	5.0	2.2	5	
Chloromethane	ND	50	2.4	5		Tetrachloroethene	ND	5.0	2.6	5	
2-Chlorotoluene	ND	5.0	2.8	5		Toluene	1.7	5.0	1.6	5	J
4-Chlorotoluene	ND	5.0	1.1	5		1,2,3-Trichlorobenzene	ND	5.0	1.5	5	
Dibromochloromethane	ND	5.0	2.4	5		1,2,4-Trichlorobenzene	ND	5.0	2.4	5	
1,2-Dibromo-3-Chloropropane	ND	25	16	5		1,1,1-Trichloroethane	ND	5.0	2.2	5	
1,2-Dibromoethane	ND	5.0	2.3	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	3.2	5	
Dibromomethane	ND	5.0	2.9	5		1,1,2-Trichloroethane	ND	5.0	2.7	5	
1,2-Dichlorobenzene	2.6	5.0	1.4	5	J	Trichloroethene	4.8	5.0	1.5	5	J
1,3-Dichlorobenzene	ND	5.0	1.4	5		Trichlorofluoromethane	ND	50	1.6	5	
1,4-Dichlorobenzene	7.3	5.0	1.1	5		1,2,3-Trichloropropane	ND	25	6.7	5	
Dichlorodifluoromethane	ND	5.0	2.5	5		1,2,4-Trimethylbenzene	ND	5.0	1.2	5	
1,1-Dichloroethane	ND	5.0	1.9	5		1,3,5-Trimethylbenzene	ND	5.0	1.2	5	
1,2-Dichloroethane	ND	2.5	1.6	5		Vinyl Acetate	ND	50	35	5	
1,1-Dichloroethene	ND	5.0	2.0	5		Vinyl Chloride	670	2.5	1.6	5	
c-1,2-Dichloroethene	350	5.0	2.4	5		p/m-Xylene	ND	5.0	2.3	5	
t-1,2-Dichloroethene	5.6	5.0	2.0	5		o-Xylene	ND	5.0	1.2	5	
1,2-Dichloropropane	ND	5.0	1.9	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.5	5	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	99	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	93	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Area D-MW1	10-07-1697-2-A	07/21/10 18:34	Aqueous	GC/MS WW	07/23/10	07/24/10 02:28	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.67	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	80-126		1,2-Dichloroethane-d4	118	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-1	10-07-1697-3-A	07/21/10 18:55	Aqueous	GC/MS WW	07/23/10	07/24/10 02:56	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	80-126		1,2-Dichloroethane-d4	124	80-131	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	107	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Area D-MW2	10-07-1697-4-A	07/22/10 10:06	Aqueous	GC/MS WW	07/23/10	07/24/10 01:34	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	0.67	1.0	0.23	1	J
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	0.31	1.0	0.20	1	J	Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	115	80-131	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 5 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	10-07-1697-5-C	07/22/10 11:40	Aqueous	GC/MS EE	07/27/10	07/28/10 04:20	100727L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	2.6	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.78	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	0.47	1.0	0.33	1	J
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	0.67	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	101	80-126		1,2-Dichloroethane-d4	101	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	92	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 6 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	10-07-1697-6-A	07/22/10 13:12	Aqueous	GC/MS WW	07/23/10	07/24/10 03:50	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	1.9	10	1.9	1	J	Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	2.4	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	7.2	0.50	0.33	1	
c-1,2-Dichloroethene	6.3	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	1.1	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126	
Toluene-d8	99	80-120	

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	119	80-131	
1,4-Bromofluorobenzene	106	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 7 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	10-07-1697-7-A	07/22/10 15:01	Aqueous	GC/MS WW	07/23/10	07/24/10 04:18	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	0.41	0.50	0.28	1	J	2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	2.5	10	1.9	1	J	Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.9	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	1.6	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	80-126		1,2-Dichloroethane-d4	127	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	107	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 8 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	10-07-1697-8-A	07/22/10 14:05	Aqueous	GC/MS WW	07/23/10	07/24/10 04:45	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.81	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.9	0.50	0.33	1	
c-1,2-Dichloroethene	0.67	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	0.44	1.0	0.40	1	J	o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126		1,2-Dichloroethane-d4	124	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	110	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 9 of 12

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-3	10-07-1697-9-A	07/22/10 15:10	Aqueous	GC/MS WW	07/23/10	07/24/10 05:12	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	80-126		1,2-Dichloroethane-d4	127	80-131	
Toluene-d8	102	80-120		1,4-Bromofluorobenzene	107	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-2	10-07-1697-10-A	07/22/10 08:00	Aqueous	GC/MS WW	07/23/10	07/24/10 01:06	100723L03

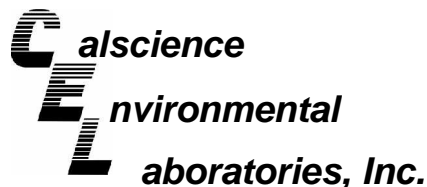
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	116	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	103	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1697
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

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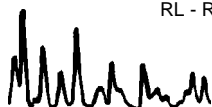
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,492	N/A	Aqueous	GC/MS WW	07/23/10	07/24/10 00:39	100723L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	80-126		1,2-Dichloroethane-d4	115	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	104	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,522	N/A	Aqueous	GC/MS EE	07/27/10	07/28/10 03:19	100727L02

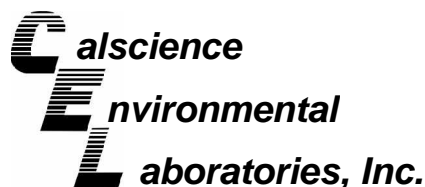
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	99	80-126		1,2-Dichloroethane-d4	100	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	94	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW2	10-07-1697-1	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	750	20	2.7	20		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	53	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	0.40	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	60	0.50	0.10	1		mg/L	N/A	07/23/10	SM 5310 B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW9	10-07-1697-5	07/22/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

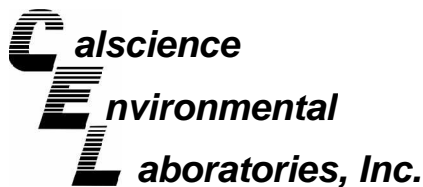
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	280	5.0	0.67	5		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	0.63	1.0	0.16	1	J	mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	0.050	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	14	0.50	0.10	1		mg/L	N/A	07/23/10	SM 5310 B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW8	10-07-1697-6	07/22/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	320	5.0	0.67	5		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	10	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	0.80	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	69	0.50	0.10	1		mg/L	N/A	07/23/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/10
 Work Order No: 10-07-1697

Project: Teledyne Ryan

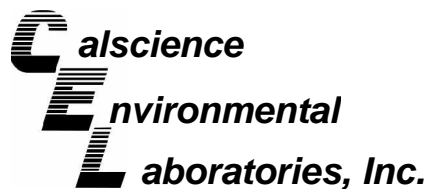
Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/23/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/23/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/24/10	07/24/10	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.10	1		mg/L	N/A	07/23/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1698-1	Aqueous	HPLC 6	N/A	07/28/10	100728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	115	117	70-130	1	0-30	
Butyric Acid	96	96	70-130	1	0-30	
Lactic Acid	80	81	70-130	1	0-30	
Propionic Acid	99	100	70-130	1	0-30	
Pyruvic Acid	71	66	70-130	6	0-30	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

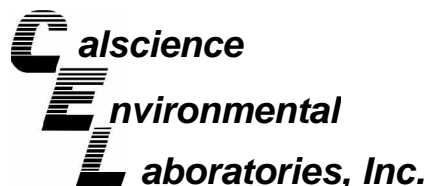
Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
Area D-MW2	Aqueous	GC/MS WW	07/23/10	07/24/10	100723S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	91	80-120	1	0-20	
Carbon Tetrachloride	126	126	55-151	0	0-20	
Chlorobenzene	91	93	80-120	3	0-20	
1,2-Dibromoethane	104	104	77-125	0	0-20	
1,2-Dichlorobenzene	92	91	78-120	1	0-20	
1,2-Dichloroethane	131	131	80-120	0	0-20	3
1,1-Dichloroethene	106	103	69-129	2	0-20	
Ethylbenzene	98	98	73-127	0	0-20	
Toluene	92	95	80-120	3	0-20	
Trichloroethene	102	104	67-133	2	0-20	
Vinyl Chloride	103	110	67-133	6	0-20	
Methyl-t-Butyl Ether (MTBE)	101	102	65-131	1	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

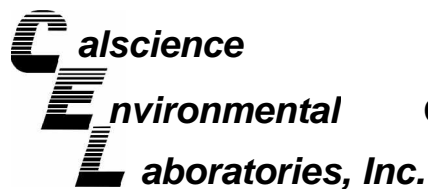
Date Received: 07/22/10
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1764-1	Aqueous	GC/MS EE	07/27/10	07/27/10	100727S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	103	80-120	2	0-20	
Carbon Tetrachloride	98	101	55-151	3	0-20	
Chlorobenzene	97	100	80-120	4	0-20	
1,2-Dibromoethane	100	103	77-125	3	0-20	
1,2-Dichlorobenzene	100	104	78-120	4	0-20	
1,2-Dichloroethane	102	100	80-120	1	0-20	
1,1-Dichloroethene	99	104	69-129	5	0-20	
Ethylbenzene	104	107	73-127	3	0-20	
Toluene	99	101	80-120	2	0-20	
Trichloroethene	100	101	67-133	1	0-20	
Vinyl Chloride	100	110	67-133	10	0-20	
Methyl-t-Butyl Ether (MTBE)	97	101	65-131	4	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

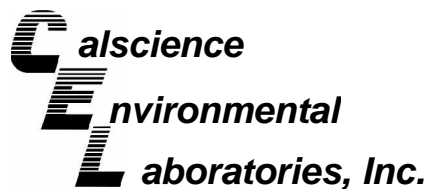
Date Received: N/A
Work Order No: 10-07-1697

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	BLD131-MW2	07/23/10	N/A	92	91	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	BLD131-MW2	07/23/10	N/A	100	100	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	BLD131-MW2	07/23/10	N/A	98	98	80-120	0	0-20	
Sulfate	EPA 300.0	BLD131-MW2	07/23/10	N/A	97	97	80-120	0	0-20	
Carbon, Total Organic	SM 5310 B	10-07-1698-1	07/23/10	N/A	100	109	70-130	5	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1697

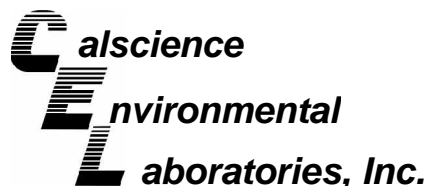
Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	BLD131-MW2	07/24/10	0.40	0.40	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

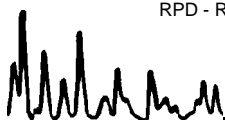
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Work Order No: 10-07-1697
Preparation: N/A
Method: RSK-175M

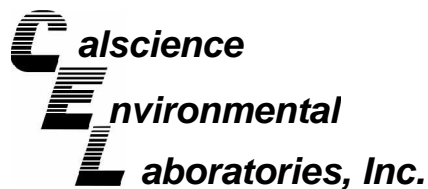
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-327	Aqueous	GC 33	N/A	07/23/10	100723L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	96	96	80-120	0	0-20	
Methane	101	101	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

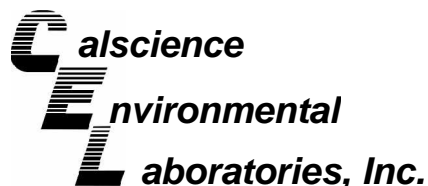
Date Received: N/A
Work Order No: 10-07-1697
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,370	Aqueous	GC 48	07/23/10	07/25/10	100723B31

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	99	97	75-117	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

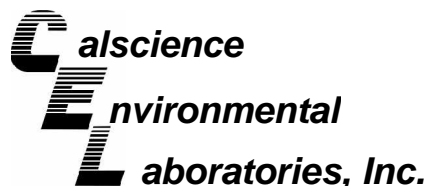
Date Received: N/A
Work Order No: 10-07-1697
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,501	Aqueous	GC/MS GG	07/23/10	07/28/10	100723L19D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	94	96	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

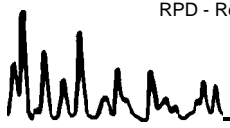
Date Received: N/A
Work Order No: 10-07-1697
Preparation: N/A
Method: HPLC/UV

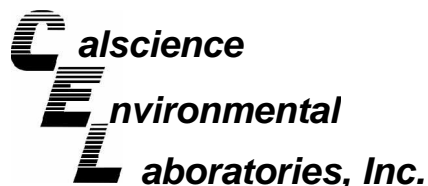
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-270	Aqueous	HPLC 6	N/A	07/28/10	100728L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	109	110	80-120	1	0-20	
Butyric Acid	105	109	80-120	4	0-20	
Lactic Acid	103	104	80-120	0	0-20	
Propionic Acid	115	115	80-120	0	0-20	
Pyruvic Acid	90	91	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,492	Aqueous	GC/MS WW	07/23/10	07/23/10	100723L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	95	95	80-120	73-127	0	0-20	
Carbon Tetrachloride	111	112	67-139	55-151	1	0-22	
Chlorobenzene	97	96	80-120	73-127	1	0-20	
1,2-Dibromoethane	106	107	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	93	94	79-120	72-127	1	0-20	
1,2-Dichloroethane	115	118	80-120	73-127	2	0-20	
1,1-Dichloroethene	99	99	71-125	62-134	0	0-25	
Ethylbenzene	97	97	80-123	73-130	1	0-20	
Toluene	95	96	80-120	73-127	0	0-20	
Trichloroethene	103	104	80-120	73-127	1	0-20	
Vinyl Chloride	104	108	68-140	56-152	4	0-23	
Methyl-t-Butyl Ether (MTBE)	99	105	75-123	67-131	5	0-25	

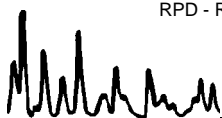
Total number of LCS compounds : 12

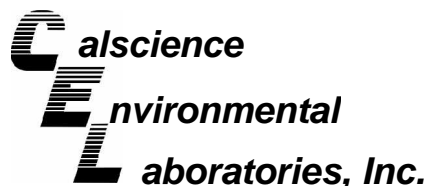
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1697
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,522	Aqueous	GC/MS EE	07/27/10	07/28/10	100727L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	101	80-120	73-127	1	0-20	
Carbon Tetrachloride	98	100	67-139	55-151	2	0-22	
Chlorobenzene	95	96	80-120	73-127	1	0-20	
1,2-Dibromoethane	101	102	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	95	95	79-120	72-127	0	0-20	
1,2-Dichloroethane	99	101	80-120	73-127	1	0-20	
1,1-Dichloroethene	90	91	71-125	62-134	0	0-25	
Ethylbenzene	103	103	80-123	73-130	0	0-20	
Toluene	97	98	80-120	73-127	1	0-20	
Trichloroethene	97	98	80-120	73-127	2	0-20	
Vinyl Chloride	106	107	68-140	56-152	1	0-23	
Methyl-t-Butyl Ether (MTBE)	97	98	75-123	67-131	2	0-25	

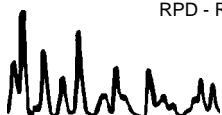
Total number of LCS compounds : 12

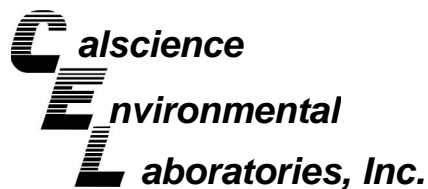
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1697

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-1,153	N/A	07/23/10	106	105	90-110	1	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-1,153	N/A	07/23/10	94	94	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,153	N/A	07/23/10	107	107	90-110	1	0-15	
Sulfate	EPA 300.0	099-12-906-1,153	N/A	07/23/10	104	103	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: N/A
 Work Order No: 10-07-1697

Project: Teledyne Ryan

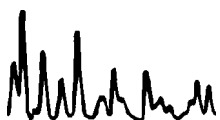
Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 B	099-05-097-3,948	07/23/10	N/A	10.0	9.70	97	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-07-1697

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



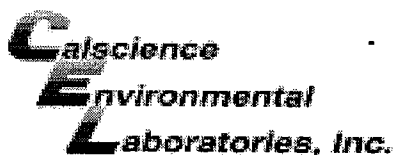
BLAINE
 TECH SERVICES, INC.
 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
					TOTAL
BLD131-mw2	07-21-10	1725	W		12
Area D - mw1	07-21-10	1834	W		5
QCEB-1	07-21-10	1855	W		3
Area D - mw2	07-22-10	1006	W		7
BLD120-mw9	07-22-10	1140	W		10
BLD120-mw8	07-22-10	1312	W		10
BLD150-mw2	07-22-10	1501	W		5
FMY - mw1	07-22-10	1405	W		5
QCEB-3	07-22-10	1510	W		3
QCEB-2	07-22-10	0800	W		2

SAMPLING PERFORMED BY: Kerry L. Campbell
 SAMPLING COMPLETED: 07-22-10 1510
 RELEASED BY: *[Signature]* 7/22/10 1520
 RECEIVED BY: *[Signature]* 7/22/10 1816
 SHIPPED VIA: _____

CONDUCT ANALYSIS TO DETECT		LAB	CalScience	DHS #			
VOCS by 8260B	<input checked="" type="checkbox"/>	ADD'L INFORMATION STATUS CONDITION LAB SAMPLE #	SPECIAL INSTRUCTIONS *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids *** Metals Sample were filtered in the field Brian Hitchens Geosyntec: 10875 Rancho Bernardo Rd, suite 200 San Diego, CA 92127 (858) 674-6559	1697			
Ethene/Ethane/Methane (RSK 175)	<input checked="" type="checkbox"/>						
SVOCs 8270 SIM Super							
TPH (8015)	<input checked="" type="checkbox"/>						
Metals (6010B/7470A)**							
1,4-Dioxane (Modified 8270)*	<input checked="" type="checkbox"/>						
EISB Sampling Suite*	<input checked="" type="checkbox"/>						
Total Chromium/Hexavalent Chromium							
RESULTS NEEDED NO LATER THAN							



WORK ORDER #: 10-07-1697

SAMPLE RECEIPT FORM

Cooler 1 of 3

CLIENT: GEOSYNTEC

DATE: 07/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.1 °C + 0.5°C (CF) = 2.6 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only

Initial: RY

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Initial: RY

Initial: AC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <u>AC</u> <u>7/22</u>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA_p VOA_h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

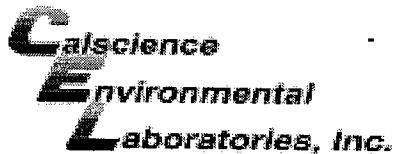
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** 10071 v B **Labeled/Checked by:** AC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** CA

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** SO



WORK ORDER #: 10-07-11697

SAMPLE RECEIPT FORM

Cooler 2 of 3

CLIENT: GEOSYNTEC

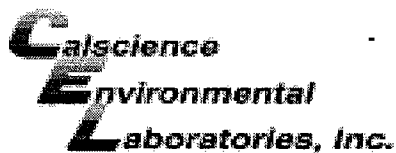
DATE: 07/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 2.4°C + 0.5°C (CF) = 2.9°C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by: _____).
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: AM

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Initial: AM
Initial: AC

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples
COC document(s) received complete
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC
Sample container label(s) consistent with COC
Sample container(s) intact and good condition
Proper containers and sufficient volume for analyses requested
Analyses received within holding time
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours
Proper preservation noted on COC or sample container
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace
Tedlar bag(s) free of condensation

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by:
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by:
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by:



WORK ORDER #: 10-07-1697

SAMPLE RECEIPT FORM

Cooler 3 of 3

CLIENT: GEOSYNTEC

DATE: 07/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.5 °C + 0.5 °C (CF) = 3.0 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only

Initial: AM

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Initial: AM

Initial: AC

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOAp VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

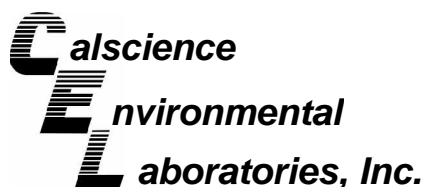
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: AC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: SA

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z₂na: ZnAc₂+NaOH f: Field-filtered Scanned by: A



July 29, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-07-1596**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/22/2010 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Nowak'.

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1596
Preparation: N/A
Method: EPA 7196A

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW1	10-07-1596-1-A	07/21/10 16:10	Aqueous	UV 2	07/22/10	07/22/10 12:30	A0722CRL2

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	410	16	3.2	800		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW2	10-07-1596-2-A	07/21/10 16:21	Aqueous	UV 2	07/22/10	07/22/10 12:30	A0722CRL2

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

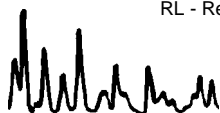
Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	ND	0.020	0.0040	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-05-064-2,023	N/A	Aqueous	UV 2	07/22/10	07/22/10 12:30	A0722CRL2

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	ND	0.020	0.0040	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/10
Work Order No: 10-07-1596
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW1	10-07-1596-1-B	07/21/10 16:10	Aqueous	ICP 5300	07/22/10	07/23/10 16:33	100722LA5

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Chromium	425	1.00	0.436	100		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW2	10-07-1596-2-B	07/21/10 16:21	Aqueous	ICP 5300	07/22/10	07/23/10 12:00	100722LA5

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

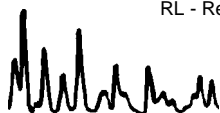
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Chromium	0.0119	0.0100	0.00436	1		mg/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-10,819	N/A	Aqueous	ICP 5300	07/22/10	07/23/10 11:04	100722LA5

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Chromium	ND	0.0100	0.00436	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

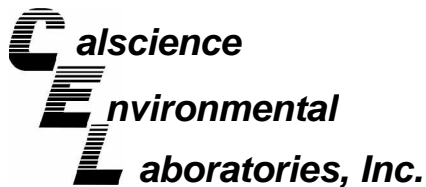
Date Received: 07/22/10
Work Order No: 10-07-1596
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1572-14	Aqueous	ICP 5300	07/22/10	07/23/10	100722SA5

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chromium	102	102	86-122	0	0-8	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

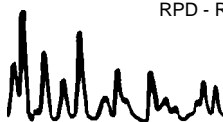
Date Received 07/22/10
 Work Order No: 10-07-1596
 Preparation: EPA 3010A Total
 Method: EPA 6010B

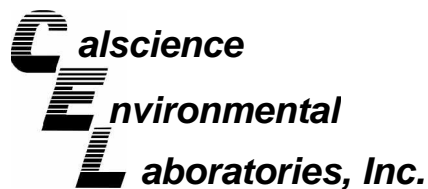
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS / PDSD Batch Number
10-07-1572-14	Aqueous	ICP 5300	07/22/10	07/23/10	100722SA5

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium	97	97	75-125	0	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

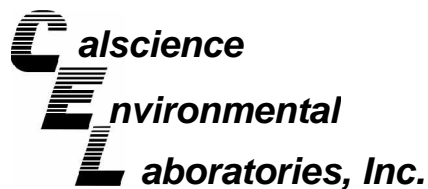
Date Received: 07/22/10
Work Order No: 10-07-1596
Preparation: N/A
Method: EPA 7196A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD158-MW2	Aqueous	UV 2	07/22/10	07/22/10	A0722CRS2

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	97	98	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1596
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-10,819	Aqueous	ICP 5300	07/22/10	07/23/10	100722LA5

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chromium	101	99	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: N/A
 Work Order No: 10-07-1596
 Preparation: N/A
 Method: EPA 7196A

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-064-2,023	Aqueous	UV 2	07/22/10	NONE	A0722CRL2

<u>Parameter</u>	<u>Conc Added</u>	<u>Conc Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	0.500	0.475	95	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-07-1596

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



1 From
 Date _____ Sender's FedEx Account Number 235475120
 Sender's Name Chris Lieder Phone _____
 Company Geosyntec
 Address 10875 Rancho Bernardo Rd. St 200
 City San Diego State CA ZIP 92127

2 Your Internal Billing Reference

3 To
 Recipient's Name Steve Nowak Phone 714 895-5494
 Company Calscience Labs
 Address 7440 Lincoln Way
 We cannot deliver to P.O. boxes or P.O. ZIP codes.
 Address _____
 Use this line for the HOLD location address or for continuation of your shipping address.
 City Garden Grove State CA ZIP 92841

HOLD Weekday
 FedEx location address REQUIRED. NOT available for FedEx First Overnight.
 HOLD Saturday
 FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4a Express Package Service * To most locations. Packages up to 150 lbs.
 01 FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 03 FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 05 FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.
 06 FedEx First Overnight Earliest next business morning delivery to select locations.*
 20 FedEx Express Saver Third business day.* Saturday Delivery NOT available.
4b Express Freight Service ** To most locations. Packages over 150 lbs.
 70 FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No. _____
 80 FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 83 FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.
5 Packaging * Declared value limit \$500.
 06 FedEx Envelope* **02 FedEx Pak*** Includes FedEx Small Pak and FedEx Large Pak. **03 FedEx Box** **04 FedEx Tube** **01 Other**

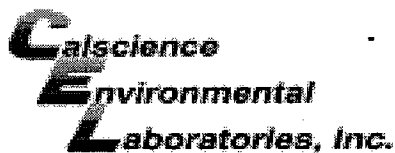
6 Special Handling and Delivery Signature Options
 03 SATURDAY DELIVERY
 No Signature Required Package may be left without obtaining a signature for delivery.
 10 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
 34 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.
Does this shipment contain dangerous goods?
 No **04 Yes** As per attached Shipper's Declaration. **Yes** Shipper's Declaration not required. **06 Dry Ice** Dry ice, 9, UN 1845 _____ x _____ kg
 Cargo Aircraft Only

7 Payment Bill to: Obtain recip. Acct. No.
 Enter FedEx Acct. No. or Credit Card No. below.
 1 Sender Acct. No. in Section 1 will be billed. **2 Recipient** **3 Third Party** **4 Credit Card** **5 Cash/Check**
 Total Packages _____ Total Weight _____ lbs. Credit Card Auth. _____
 Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.



8728 5227 1362

606



WORK ORDER #: 10-07-1596

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: GEDSYNTEC

DATE: 07/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 1.9°C + 0.5°C (CF) = 2.4°C [] Blank [x] Sample

- [] Sample(s) outside temperature criteria (PM/APM contacted by: _____).
[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter [] Metals Only [] PCBs Only

Initial: PS

CUSTODY SEALS INTACT:

- [] Cooler [] _____ [] No (Not Intact) [x] Not Present [] N/A
[] Sample [] _____ [] No (Not Intact) [x] Not Present

Initial: PS

Initial: PS

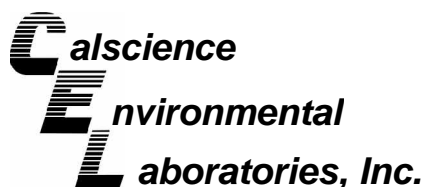
SAMPLE CONDITION:

Table with 4 columns: Sample Condition, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Sampler's name indicated on COC, Sample container label(s) consistent with COC, etc.

CONTAINER TYPE:

- Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve (____) [] EnCores® [] TerraCores® [] _____
Water: [] VOA [] VOA h [] VOA na2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [] 1AGBna2 [] 1AGBs
[] 500AGB [] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [] 250CGBs [] 1PB [] 500PB [] 500PBna
[] 250PB [x] 250PBn [] 125PB [] 125PBz nna [] 100PJ [] 100PJna2 [] _____ [] _____ [] _____

Air: [] Tedlar® [] Summa® Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: PS
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: PS
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 z nna: ZnAc2+NaOH f: Field-filtered Scanned by: PS



August 03, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-07-1573**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/21/2010 and analyzed in accordance with the attached chain-of-custody.

CalScience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	10-07-1573-1-D	07/21/10 12:01	Aqueous	GC 33	N/A	07/22/10 00:00	100722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.310	1.00	0.00547	1	J	ug/L
Ethylene	300	2.00	0.187	2		ug/L
Methane	7700	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	10-07-1573-2-D	07/21/10 14:03	Aqueous	GC 33	N/A	07/22/10 00:00	100722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.160	1.00	0.00547	1	J	ug/L
Ethylene	38.6	1.00	0.0933	1		ug/L
Methane	5340	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	10-07-1573-4-D	07/21/10 11:46	Aqueous	GC 33	N/A	07/22/10 00:00	100722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.200	1.00	0.00547	1	J	ug/L
Ethylene	4.00	1.00	0.0933	1		ug/L
Methane	7880	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	10-07-1573-5-D	07/21/10 13:32	Aqueous	GC 33	N/A	07/22/10 00:00	100722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

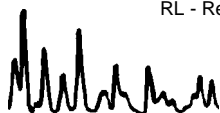
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.150	1.00	0.00547	1	J	ug/L
Ethylene	2.35	1.00	0.0933	1		ug/L
Methane	4740	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-326	N/A	Aqueous	GC 33	N/A	07/22/10 00:00	100722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	10-07-1573-1-N	07/21/10 12:01	Aqueous	GC/MS GG	07/22/10	07/27/10 19:02	100722L16D

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	23	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	98	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	10-07-1573-2-N	07/21/10 14:03	Aqueous	GC/MS GG	07/22/10	07/27/10 19:27	100722L16D

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	570	20	0.40	10		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	81	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2-B	10-07-1573-3-G	07/21/10 12:01	Aqueous	GC/MS GG	07/22/10	07/27/10 19:52	100722L16D

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

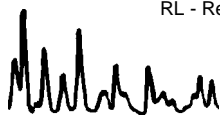
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	22	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	88	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	10-07-1573-4-N	07/21/10 11:46	Aqueous	GC/MS GG	07/22/10	07/27/10 20:17	100722L16D

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	5.3	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	68	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/21/10
 Work Order No: 10-07-1573
 Preparation: EPA 3520C
 Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	10-07-1573-5-N	07/21/10 13:32	Aqueous	GC/MS GG	07/22/10	07/27/10 20:42	100722L16D

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	DF	Qual	Units
1,4-Dioxane	690	20	10		ug/L
Surrogates:	REC (%)	Control Limits	MDL	Qual	
Nitrobenzene-d5	82	56-123			

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-09-004-1,498	N/A	Aqueous	GC/MS GG	07/22/10	07/27/10 16:55	100722L16D

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Nitrobenzene-d5	92	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	10-07-1573-1-E	07/21/10 12:01	Aqueous	GC 48	07/23/10	07/26/10 14:12	100723B31

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 117 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	10-07-1573-2-E	07/21/10 14:03	Aqueous	GC 48	07/23/10	07/26/10 14:27	100723B31

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	29	500	14	1	J	C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 106 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2-B	10-07-1573-3-L	07/21/10 12:01	Aqueous	GC 48	07/23/10	07/26/10 14:42	100723B31

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 108 68-140

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	10-07-1573-4-E	07/21/10 11:46	Aqueous	GC 48	07/23/10	07/25/10 03:33	100723B31

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND	500	14	1		C21-C22	ND	500	180	1	
C7	ND	500	61	1		C23-C24	ND	500	180	1	
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	ND	500	79	1	
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND	500	180	1							

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 109 68-140

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	10-07-1573-5-E	07/21/10 13:32	Aqueous	GC 48	07/23/10	07/25/10 03:49	100723B31

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	46	500	14	1	J	C21-C22	370	500	180	1	J
C7	ND	500	61	1		C23-C24	190	500	180	1	J
C8	ND	500	99	1		C25-C28	ND	500	160	1	
C9-C10	ND	500	130	1		C29-C32	ND	500	85	1	
C11-C12	ND	500	140	1		C33-C36	89	500	79	1	J
C13-C14	ND	500	160	1		C37-C40	ND	500	68	1	
C15-C16	ND	500	170	1		C41-C44	ND	500	66	1	
C17-C18	ND	500	170	1		C6-C44 Total	910	500	480	1	
C19-C20	220	500	180	1	J						

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 110 68-140

Method Blank	099-12-308-1,370	N/A	Aqueous	GC 48	07/23/10	07/25/10 00:44	100723B31
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	

Surrogates: REC (%) Control Limits Qual

Decachlorobiphenyl 122 68-140



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	10-07-1573-1-F	07/21/10 12:01	Aqueous	HPLC 6	N/A	07/28/10 14:21	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	3.3	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	99	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	10-07-1573-2-F	07/21/10 14:03	Aqueous	HPLC 6	N/A	07/28/10 14:44	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

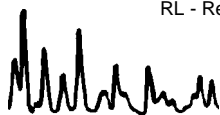
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	9.2	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	105	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	10-07-1573-4-F	07/21/10 11:46	Aqueous	HPLC 6	N/A	07/28/10 15:06	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	10-07-1573-5-F	07/21/10 13:32	Aqueous	HPLC 6	N/A	07/28/10 15:29	100728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

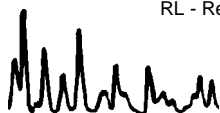
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	7.8	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	108	80-120				

Method Blank	099-12-016-270	N/A	Aqueous	HPLC 6	N/A	07/28/10 13:57	100728L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>MDL</u>		<u>Qual</u>	
Dibromopropionic Acid	100	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	10-07-1573-1-B	07/21/10 12:01	Aqueous	GC/MS OO	07/23/10	07/24/10 06:52	100723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	100	40	2		1,3-Dichloropropane	ND	2.0	0.76	2	
Benzene	ND	1.0	0.57	2		2,2-Dichloropropane	ND	2.0	0.92	2	
Bromobenzene	ND	2.0	0.67	2		1,1-Dichloropropene	ND	2.0	0.51	2	
Bromochloromethane	ND	2.0	1.4	2		c-1,3-Dichloropropene	ND	1.0	0.57	2	
Bromodichloromethane	ND	2.0	0.66	2		t-1,3-Dichloropropene	ND	1.0	0.72	2	
Bromoform	ND	2.0	1.1	2		Ethylbenzene	ND	2.0	0.44	2	
Bromomethane	ND	20	8.6	2		2-Hexanone	ND	20	14	2	
2-Butanone	ND	20	14	2		Isopropylbenzene	ND	2.0	0.45	2	
n-Butylbenzene	ND	2.0	0.55	2		p-Isopropyltoluene	ND	2.0	0.52	2	
sec-Butylbenzene	ND	2.0	0.41	2		Methylene Chloride	ND	20	5.2	2	
tert-Butylbenzene	ND	2.0	0.55	2		4-Methyl-2-Pentanone	ND	20	8.8	2	
Carbon Disulfide	ND	20	3.8	2		Naphthalene	ND	20	5.1	2	
Carbon Tetrachloride	ND	1.0	0.85	2		n-Propylbenzene	ND	2.0	1.6	2	
Chlorobenzene	ND	2.0	0.44	2		Styrene	ND	2.0	0.60	2	
Chloroethane	7.7	10	2.6	2	J	1,1,1,2-Tetrachloroethane	ND	2.0	0.70	2	
Chloroform	ND	2.0	0.66	2		1,1,2,2-Tetrachloroethane	ND	2.0	0.88	2	
Chloromethane	1.3	20	0.97	2	J	Tetrachloroethene	11	2.0	1.0	2	
2-Chlorotoluene	ND	2.0	1.1	2		Toluene	ND	2.0	0.65	2	
4-Chlorotoluene	ND	2.0	0.42	2		1,2,3-Trichlorobenzene	ND	2.0	0.61	2	
Dibromochloromethane	ND	2.0	0.97	2		1,2,4-Trichlorobenzene	ND	2.0	0.97	2	
1,2-Dibromo-3-Chloropropane	ND	10	6.2	2		1,1,1-Trichloroethane	ND	2.0	0.90	2	
1,2-Dibromoethane	ND	2.0	0.93	2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	1.3	2	
Dibromomethane	ND	2.0	1.2	2		1,1,2-Trichloroethane	ND	2.0	1.1	2	
1,2-Dichlorobenzene	ND	2.0	0.54	2		Trichloroethene	3.6	2.0	0.61	2	
1,3-Dichlorobenzene	ND	2.0	0.57	2		Trichlorofluoromethane	ND	20	0.62	2	
1,4-Dichlorobenzene	ND	2.0	0.42	2		1,2,3-Trichloropropane	ND	10	2.7	2	
Dichlorodifluoromethane	ND	2.0	0.98	2		1,2,4-Trimethylbenzene	ND	2.0	0.49	2	
1,1-Dichloroethane	ND	2.0	0.75	2		1,3,5-Trimethylbenzene	ND	2.0	0.46	2	
1,2-Dichloroethane	ND	1.0	0.63	2		Vinyl Acetate	ND	20	14	2	
1,1-Dichloroethene	ND	2.0	0.80	2		Vinyl Chloride	600	2.5	1.6	5	
c-1,2-Dichloroethene	350	2.0	0.97	2		p/m-Xylene	ND	2.0	0.91	2	
t-1,2-Dichloroethene	6.2	2.0	0.81	2		o-Xylene	ND	2.0	0.47	2	
1,2-Dichloropropane	ND	2.0	0.76	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.61	2	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-126		1,2-Dichloroethane-d4	106	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	101	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	10-07-1573-2-A	07/21/10 14:03	Aqueous	GC/MS EE	07/22/10	07/23/10 08:08	100722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	3.5	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.62	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	4.3	0.50	0.33	1	
c-1,2-Dichloroethene	1.2	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126		1,2-Dichloroethane-d4	109	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	89	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2-B	10-07-1573-3-B	07/21/10 12:01	Aqueous	GC/MS OO	07/23/10	07/24/10 07:21	100723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	250	100	5		1,3-Dichloropropane	ND	5.0	1.9	5	
Benzene	ND	2.5	1.4	5		2,2-Dichloropropane	ND	5.0	2.3	5	
Bromobenzene	ND	5.0	1.7	5		1,1-Dichloropropene	ND	5.0	1.3	5	
Bromochloromethane	ND	5.0	3.5	5		c-1,3-Dichloropropene	ND	2.5	1.4	5	
Bromodichloromethane	ND	5.0	1.7	5		t-1,3-Dichloropropene	ND	2.5	1.8	5	
Bromoform	ND	5.0	2.8	5		Ethylbenzene	ND	5.0	1.1	5	
Bromomethane	ND	50	21	5		2-Hexanone	ND	50	34	5	
2-Butanone	ND	50	35	5		Isopropylbenzene	ND	5.0	1.1	5	
n-Butylbenzene	ND	5.0	1.4	5		p-Isopropyltoluene	ND	5.0	1.3	5	
sec-Butylbenzene	ND	5.0	1.0	5		Methylene Chloride	ND	50	13	5	
tert-Butylbenzene	ND	5.0	1.4	5		4-Methyl-2-Pentanone	ND	50	22	5	
Carbon Disulfide	ND	50	9.6	5		Naphthalene	ND	50	13	5	
Carbon Tetrachloride	ND	2.5	2.1	5		n-Propylbenzene	ND	5.0	4.0	5	
Chlorobenzene	ND	5.0	1.1	5		Styrene	ND	5.0	1.5	5	
Chloroethane	10	25	6.4	5	J	1,1,1,2-Tetrachloroethane	ND	5.0	1.8	5	
Chloroform	ND	5.0	1.7	5		1,1,2,2-Tetrachloroethane	ND	5.0	2.2	5	
Chloromethane	ND	50	2.4	5		Tetrachloroethene	12	5.0	2.6	5	
2-Chlorotoluene	ND	5.0	2.8	5		Toluene	ND	5.0	1.6	5	
4-Chlorotoluene	ND	5.0	1.1	5		1,2,3-Trichlorobenzene	ND	5.0	1.5	5	
Dibromochloromethane	ND	5.0	2.4	5		1,2,4-Trichlorobenzene	ND	5.0	2.4	5	
1,2-Dibromo-3-Chloropropane	ND	25	16	5		1,1,1-Trichloroethane	ND	5.0	2.2	5	
1,2-Dibromoethane	ND	5.0	2.3	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	3.2	5	
Dibromomethane	ND	5.0	2.9	5		1,1,2-Trichloroethane	ND	5.0	2.7	5	
1,2-Dichlorobenzene	ND	5.0	1.4	5		Trichloroethene	4.1	5.0	1.5	5	J
1,3-Dichlorobenzene	ND	5.0	1.4	5		Trichlorofluoromethane	ND	50	1.6	5	
1,4-Dichlorobenzene	ND	5.0	1.1	5		1,2,3-Trichloropropane	ND	25	6.7	5	
Dichlorodifluoromethane	ND	5.0	2.5	5		1,2,4-Trimethylbenzene	ND	5.0	1.2	5	
1,1-Dichloroethane	ND	5.0	1.9	5		1,3,5-Trimethylbenzene	ND	5.0	1.2	5	
1,2-Dichloroethane	ND	2.5	1.6	5		Vinyl Acetate	ND	50	35	5	
1,1-Dichloroethene	ND	5.0	2.0	5		Vinyl Chloride	790	2.5	1.6	5	
c-1,2-Dichloroethene	380	5.0	2.4	5		p/m-Xylene	ND	5.0	2.3	5	
t-1,2-Dichloroethene	6.8	5.0	2.0	5		o-Xylene	ND	5.0	1.2	5	
1,2-Dichloropropane	ND	5.0	1.9	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.5	5	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	80-126	
Toluene-d8	103	80-120	

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	80-131	
1,4-Bromofluorobenzene	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	10-07-1573-4-A	07/21/10 11:46	Aqueous	GC/MS EE	07/22/10	07/23/10 04:33	100722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	2.4	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	4.5	0.50	0.33	1	
c-1,2-Dichloroethene	1.0	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	80-126		1,2-Dichloroethane-d4	113	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	90	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	10-07-1573-5-A	07/21/10 13:32	Aqueous	GC/MS EE	07/22/10	07/23/10 09:10	100722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	2.7	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	0.84	1.0	0.30	1	J
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.7	0.50	0.33	1	
c-1,2-Dichloroethene	0.72	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	0.73	1.0	0.40	1	J	o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	107	80-126		1,2-Dichloroethane-d4	105	80-131	
Toluene-d8	100	80-120		1,4-Bromofluorobenzene	87	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-1	10-07-1573-6-A	07/21/10 11:00	Aqueous	GC/MS EE	07/22/10	07/23/10 04:03	100722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	110	80-126		1,2-Dichloroethane-d4	111	80-131	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	89	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,468	N/A	Aqueous	GC/MS EE	07/22/10	07/23/10 02:02	100722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126		1,2-Dichloroethane-d4	108	80-131	
Toluene-d8	99	80-120		1,4-Bromofluorobenzene	89	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,487	N/A	Aqueous	GC/MS OO	07/23/10	07/24/10 03:30	100723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	106	80-126		1,2-Dichloroethane-d4	105	80-131	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	99	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-14-001-1,520	N/A	Aqueous	GC/MS EE	07/27/10	07/27/10 18:35	100727L01

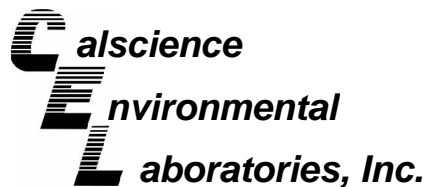
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	80-126		1,2-Dichloroethane-d4	98	80-131	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	95	80-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW2	10-07-1573-1	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	160	5.0	0.67	5		mg/L	N/A	07/22/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfate (24)	39	1.0	0.16	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfide, Total (24)	0.10	0.050	0.042	1		mg/L	07/23/10	07/23/10	SM 4500 S2 - D
Carbon, Total Organic (24)	110	0.50	0.10	1		mg/L	N/A	07/22/10	SM 5310 B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW1	10-07-1573-2	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

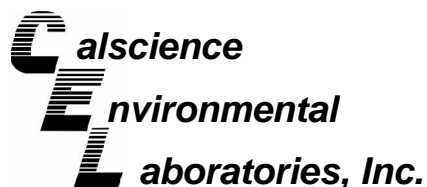
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	420	10	1.3	10		mg/L	N/A	07/22/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfate (24)	0.45	1.0	0.16	1	J	mg/L	N/A	07/22/10	EPA 300.0
Sulfide, Total (24)	0.050	0.050	0.042	1		mg/L	07/23/10	07/23/10	SM 4500 S2 - D
Carbon, Total Organic (24)	150	0.50	0.10	1		mg/L	N/A	07/22/10	SM 5310 B

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW6	10-07-1573-4	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	170	5.0	0.67	5		mg/L	N/A	07/22/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfate (24)	0.82	1.0	0.16	1	J	mg/L	N/A	07/22/10	EPA 300.0
Sulfide, Total (24)	0.050	0.050	0.042	1		mg/L	07/23/10	07/23/10	SM 4500 S2 - D
Carbon, Total Organic (24)	81	0.50	0.10	1		mg/L	N/A	07/22/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW3	10-07-1573-5	07/21/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	800	10	1.3	10		mg/L	N/A	07/22/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfate (24)	0.40	1.0	0.16	1	J	mg/L	N/A	07/22/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/23/10	07/23/10	SM 4500 S2 - D
Carbon, Total Organic (24)	220	0.50	0.10	1		mg/L	N/A	07/22/10	SM 5310 B

Method Blank	N/A	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/22/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/22/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/23/10	07/23/10	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.10	1		mg/L	N/A	07/22/10	SM 5310 B

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1698-1	Aqueous	HPLC 6	N/A	07/28/10	100728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	115	117	70-130	1	0-30	
Butyric Acid	96	96	70-130	1	0-30	
Lactic Acid	80	81	70-130	1	0-30	
Propionic Acid	99	100	70-130	1	0-30	
Pyruvic Acid	71	66	70-130	6	0-30	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

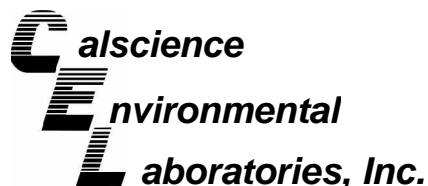
Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD120-MW6	Aqueous	GC/MS EE	07/22/10	07/23/10	100722S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	99	80-120	5	0-20	
Carbon Tetrachloride	82	89	55-151	8	0-20	
Chlorobenzene	104	111	80-120	6	0-20	
1,2-Dibromoethane	101	109	77-125	7	0-20	
1,2-Dichlorobenzene	104	110	78-120	6	0-20	
1,2-Dichloroethane	103	110	80-120	7	0-20	
1,1-Dichloroethene	97	111	69-129	13	0-20	
Ethylbenzene	99	106	73-127	6	0-20	
Toluene	90	95	80-120	6	0-20	
Trichloroethene	99	104	67-133	5	0-20	
Vinyl Chloride	101	112	67-133	10	0-20	
Methyl-t-Butyl Ether (MTBE)	82	88	65-131	7	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1626-2	Aqueous	GC/MS OO	07/23/10	07/24/10	100723S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	102	80-120	1	0-20	
Carbon Tetrachloride	105	103	55-151	2	0-20	
Chlorobenzene	99	98	80-120	1	0-20	
1,2-Dibromoethane	106	102	77-125	4	0-20	
1,2-Dichlorobenzene	97	97	78-120	0	0-20	
1,2-Dichloroethane	112	110	80-120	2	0-20	
1,1-Dichloroethene	102	101	69-129	1	0-20	
Ethylbenzene	101	101	73-127	0	0-20	
Toluene	101	99	80-120	2	0-20	
Trichloroethene	98	96	67-133	2	0-20	
Vinyl Chloride	108	105	67-133	3	0-20	
Methyl-t-Butyl Ether (MTBE)	106	109	65-131	3	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

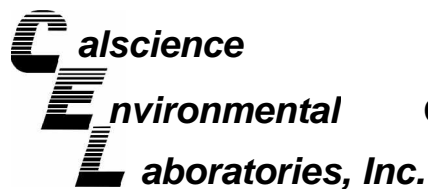
Date Received: 07/21/10
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-1764-1	Aqueous	GC/MS EE	07/27/10	07/27/10	100727S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	103	80-120	2	0-20	
Carbon Tetrachloride	98	101	55-151	3	0-20	
Chlorobenzene	97	100	80-120	4	0-20	
1,2-Dibromoethane	100	103	77-125	3	0-20	
1,2-Dichlorobenzene	100	104	78-120	4	0-20	
1,2-Dichloroethane	102	100	80-120	1	0-20	
1,1-Dichloroethene	99	104	69-129	5	0-20	
Ethylbenzene	104	107	73-127	3	0-20	
Toluene	99	101	80-120	2	0-20	
Trichloroethene	100	101	67-133	1	0-20	
Vinyl Chloride	100	110	67-133	10	0-20	
Methyl-t-Butyl Ether (MTBE)	97	101	65-131	4	0-22	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

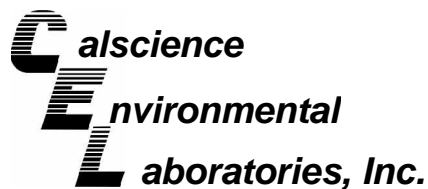
Date Received: N/A
Work Order No: 10-07-1573

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	10-07-1572-28	07/22/10	N/A	98	98	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	10-07-1572-28	07/22/10	N/A	90	90	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	10-07-1572-28	07/22/10	N/A	95	95	80-120	0	0-20	
Sulfate	EPA 300.0	10-07-1572-28	07/22/10	N/A	96	97	80-120	0	0-20	
Carbon, Total Organic	SM 5310 B	10-07-1662-5	07/22/10	N/A	58	56	70-130	1	0-25	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

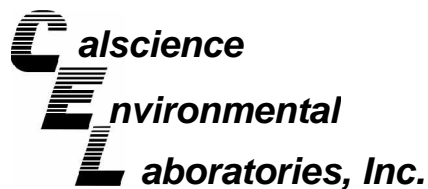
Date Received: N/A
Work Order No: 10-07-1573

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	10-07-1572-27	07/23/10	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

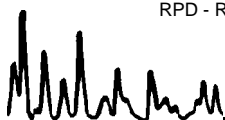
Date Received: N/A
Work Order No: 10-07-1573
Preparation: N/A
Method: RSK-175M

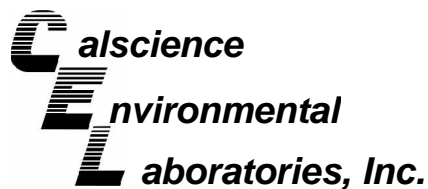
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-326	Aqueous	GC 33	N/A	07/22/10	100722L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	89	88	80-120	0	0-20	
Methane	102	101	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

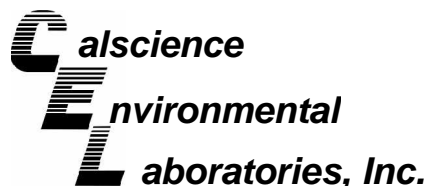
Date Received: N/A
Work Order No: 10-07-1573
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,370	Aqueous	GC 48	07/23/10	07/25/10	100723B31

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	99	97	75-117	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

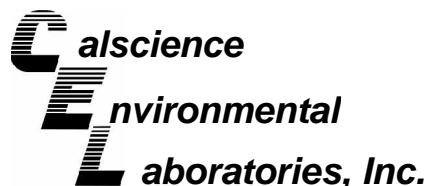
Date Received: N/A
Work Order No: 10-07-1573
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,498	Aqueous	GC/MS GG	07/22/10	07/27/10	100722L16D

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
1,4-Dioxane	97	97	50-130	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

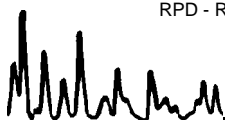
Date Received: N/A
Work Order No: 10-07-1573
Preparation: N/A
Method: HPLC/UV

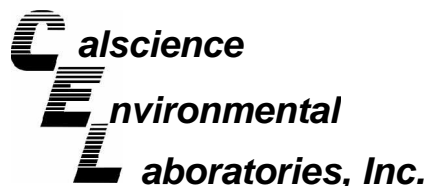
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-270	Aqueous	HPLC 6	N/A	07/28/10	100728L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	109	110	80-120	1	0-20	
Butyric Acid	105	109	80-120	4	0-20	
Lactic Acid	103	104	80-120	0	0-20	
Propionic Acid	115	115	80-120	0	0-20	
Pyruvic Acid	90	91	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,468	Aqueous	GC/MS EE	07/22/10	07/23/10	100722L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	90	92	80-120	73-127	2	0-20	
Carbon Tetrachloride	78	82	67-139	55-151	4	0-22	
Chlorobenzene	102	101	80-120	73-127	1	0-20	
1,2-Dibromoethane	99	102	80-120	73-127	3	0-20	
1,2-Dichlorobenzene	98	99	79-120	72-127	1	0-20	
1,2-Dichloroethane	99	103	80-120	73-127	4	0-20	
1,1-Dichloroethene	107	110	71-125	62-134	2	0-25	
Ethylbenzene	97	97	80-123	73-130	0	0-20	
Toluene	87	89	80-120	73-127	2	0-20	
Trichloroethene	95	98	80-120	73-127	3	0-20	
Vinyl Chloride	98	101	68-140	56-152	3	0-23	
Methyl-t-Butyl Ether (MTBE)	83	85	75-123	67-131	2	0-25	

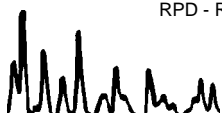
Total number of LCS compounds : 12

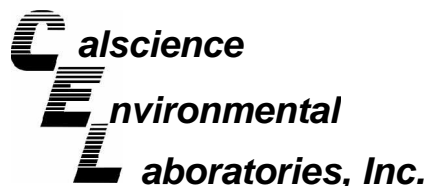
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,487	Aqueous	GC/MS OO	07/23/10	07/24/10	100723L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	103	80-120	73-127	4	0-20	
Carbon Tetrachloride	97	101	67-139	55-151	4	0-22	
Chlorobenzene	96	101	80-120	73-127	4	0-20	
1,2-Dibromoethane	104	108	80-120	73-127	4	0-20	
1,2-Dichlorobenzene	94	99	79-120	72-127	5	0-20	
1,2-Dichloroethane	109	111	80-120	73-127	2	0-20	
1,1-Dichloroethene	96	102	71-125	62-134	6	0-25	
Ethylbenzene	99	103	80-123	73-130	4	0-20	
Toluene	101	102	80-120	73-127	1	0-20	
Trichloroethene	98	100	80-120	73-127	1	0-20	
Vinyl Chloride	103	106	68-140	56-152	2	0-23	
Methyl-t-Butyl Ether (MTBE)	103	105	75-123	67-131	3	0-25	

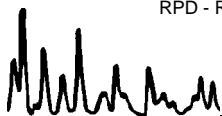
Total number of LCS compounds : 12

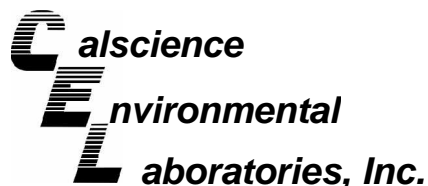
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1573
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-14-001-1,520	Aqueous	GC/MS EE	07/27/10	07/27/10	100727L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	97	100	80-120	73-127	3	0-20	
Carbon Tetrachloride	94	96	67-139	55-151	2	0-22	
Chlorobenzene	94	97	80-120	73-127	2	0-20	
1,2-Dibromoethane	100	99	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	95	99	79-120	72-127	3	0-20	
1,2-Dichloroethane	94	97	80-120	73-127	3	0-20	
1,1-Dichloroethene	98	88	71-125	62-134	11	0-25	
Ethylbenzene	101	103	80-123	73-130	2	0-20	
Toluene	96	98	80-120	73-127	2	0-20	
Trichloroethene	95	99	80-120	73-127	3	0-20	
Vinyl Chloride	101	101	68-140	56-152	0	0-23	
Methyl-t-Butyl Ether (MTBE)	96	96	75-123	67-131	0	0-25	

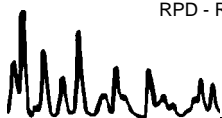
Total number of LCS compounds : 12

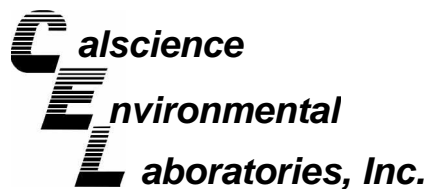
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-07-1573

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-1,150	N/A	07/22/10	105	105	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-1,150	N/A	07/22/10	98	94	90-110	5	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-1,150	N/A	07/22/10	106	103	90-110	2	0-15	
Sulfate	EPA 300.0	099-12-906-1,150	N/A	07/22/10	104	104	90-110	1	0-15	
Carbon, Total Organic	SM 5310 B	099-05-097-3,947	N/A	07/22/10	92	92	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-07-1573

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



1573

BLAINE
 TECH SERVICES, INC.
 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF CUSTODY
 CLIENT Geosyntec
 SITE Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	
				MATRIX	TOTAL
BLD120-mw2	07-21-10	1201	Soil	16	14
BLD120-mw1	07-21-10	1403	Soil	14	
BLD120-mw2-B	07-21-10	1201	Soil	7	
BLD120-mw6	07-21-10	1140	Soil	14	
BLD120-mw3	07-21-10	1332	Soil	14	
QCTB-1	07-21-10	1100	Soil	2	

LAB CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 *** Metals Sample were filtered in the field
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Total Chromium/Hexavalent Chromium			1
EISB Sampling Suite*	X		2
1,4-Dioxane (Modified 8270)*	X		3
Metals (6010B/7470A)**	X		4
TPH (8015)	X		5
SVOCs 8270 SIM Super	X		6
Ethene/Ethane/Methane (RSK 175)	X		
VOCs by 8260B	X		

RESULTS NEEDED
NO LATER THAN

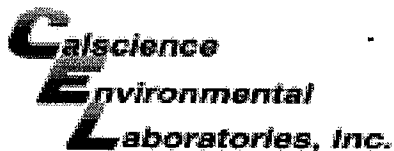
RECEIVED BY: *Randy W CEC* DATE: 7/21/10 TIME: 1445

RECEIVED BY: *Dannyle ool* DATE: 7/21/10 TIME: 1800

RECEIVED BY: DATE: TIME:

DATE SENT: TIME SENT: COOLER #

SHIPPED VIA



WORK ORDER #: 10-07-1573

SAMPLE RECEIPT FORM

Cooler 1 of 2

CLIENT: GEOSYNTEC

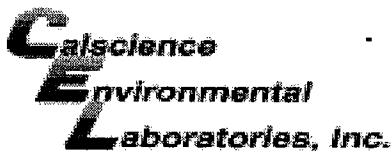
DATE: 07/21/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C - 6.0 °C, not frozen)
Temperature 2.3 °C + 0.5 °C (CF) = 2.8 °C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: AM

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Initial: AM
Initial: SO

SAMPLE CONDITION:
Chain-Of-Custody (COC) document(s) received with samples.
COC document(s) received complete.
Collection date/time, matrix, and/or # of containers logged in based on sample labels.
No analysis requested. Not relinquished. No date/time relinquished.
Sampler's name indicated on COC.
Sample container label(s) consistent with COC.
Sample container(s) intact and good condition.
Proper containers and sufficient volume for analyses requested.
Analyses received within holding time.
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.
Proper preservation noted on COC or sample container.
Unpreserved vials received for Volatiles analysis
Volatile analysis container(s) free of headspace.
Tedlar bag(s) free of condensation.

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2 250PB
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by: SO
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WSL
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: WSL



WORK ORDER #: 10-07-1573

SAMPLE RECEIPT FORM

Cooler 2 of 2

CLIENT: GEOSYNTEC

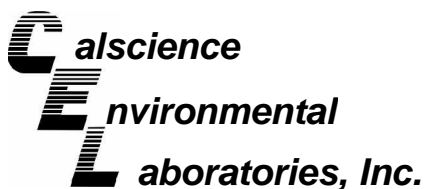
DATE: 07/ /10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C - 6.0°C, not frozen)
Temperature 2.1°C + 0.5°C (CF) = 2.6°C
Blank Sample
Sample(s) outside temperature criteria (PM/APM contacted by:)
Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
Received at ambient temperature, placed on ice for transport by Courier.
Ambient Temperature: Air Filter Metals Only PCBs Only
Initial: AM

CUSTODY SEALS INTACT:
Cooler No (Not Intact) Not Present N/A
Sample No (Not Intact) Not Present
Initial: AM
Initial: SO

SAMPLE CONDITION: Table with columns Yes, No, N/A and rows for Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, etc.

CONTAINER TYPE:
Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve () EnCores TerraCores
Water: VOAP VOAh VOAna2 125AGB 125AGBh 125AGBp 1AGB 1AGBna2 1AGBs
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna
250PB 250PBn 125PB 125PBzanna 100PJ 100PJna2
Air: Tedlar Summa Other: Trip Blank Lot#: Labeled/Checked by: SO
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WSC
Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: WSC



January 29, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **CalScience Work Order No.: 10-01-1675**
Client Reference: TDY / SC0307

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/22/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard CalScience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

CalScience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/10
Work Order No: 10-01-1675
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: TDY / SC0307

Page 1 of 1

Client Sample Number	Lab Sample Number	Date /Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CB104-012210	10-01-1675-1-D	01/22/10 10:20	Aqueous	ICP 5300	01/22/10	01/23/10 12:03	100122LA5F

Comment(s): -Mercury was analyzed on 1/25/2010 10:50:19 AM with batch 100122L01F

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Molybdenum	ND	0.0100	1	
Arsenic	ND	0.0100	1		Nickel	ND	0.0100	1	
Barium	0.0176	0.0100	1		Selenium	ND	0.0150	1	
Beryllium	ND	0.0100	1		Silver	ND	0.00500	1	
Cadmium	ND	0.0100	1		Thallium	ND	0.0150	1	
Chromium	ND	0.0100	1		Vanadium	ND	0.0100	1	
Cobalt	ND	0.0100	1		Mercury	ND	0.000500	1	
Copper	0.0290	0.0100	1		Zinc	0.283	0.0100	1	
Lead	ND	0.0100	1						

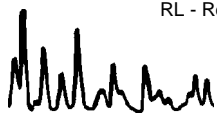
Method Blank	099-04-008-4,554	N/A	Aqueous	Mercury	01/22/10	01/22/10 13:44	100122L01F
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Parameter	Result	RL	DF	Qual
Mercury	ND	0.000500	1	

Method Blank	097-01-003-10,092	N/A	Aqueous	ICP 5300	01/22/10	01/23/10 11:37	100122LA5F
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Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Antimony	ND	0.0150	1		Lead	ND	0.0100	1	
Arsenic	ND	0.0100	1		Molybdenum	ND	0.0100	1	
Barium	ND	0.0100	1		Nickel	ND	0.0100	1	
Beryllium	ND	0.0100	1		Selenium	ND	0.0150	1	
Cadmium	ND	0.0100	1		Silver	ND	0.00500	1	
Chromium	ND	0.0100	1		Thallium	ND	0.0150	1	
Cobalt	ND	0.0100	1		Vanadium	ND	0.0100	1	
Copper	ND	0.0100	1		Zinc	ND	0.0100	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 01/22/10
 Work Order No: 10-01-1675
 Preparation: EPA 3510C
 Method: EPA 8082
 Units: ug/L

Project: TDY / SC0307

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CB104-012210	10-01-1675-1-B	01/22/10 10:20	Aqueous	GC 58	01/25/10	01/26/10 20:39	100125L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	1.0	1		Aroclor-1248	ND	1.0	1	
Aroclor-1221	ND	1.0	1		Aroclor-1254	ND	1.0	1	
Aroclor-1232	ND	1.0	1		Aroclor-1260	ND	1.0	1	
Aroclor-1242	ND	1.0	1		Aroclor-1262	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Decachlorobiphenyl	102	50-135			2,4,5,6-Tetrachloro-m-Xylene	95	50-135		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
CB90-012210	10-01-1675-2-A	01/22/10 10:25	Aqueous	GC 58	01/25/10	01/26/10 20:57	100125L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	1.0	1		Aroclor-1248	ND	1.0	1	
Aroclor-1221	ND	1.0	1		Aroclor-1254	ND	1.0	1	
Aroclor-1232	ND	1.0	1		Aroclor-1260	ND	1.0	1	
Aroclor-1242	ND	1.0	1		Aroclor-1262	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Decachlorobiphenyl	105	50-135			2,4,5,6-Tetrachloro-m-Xylene	96	50-135		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-533-389	N/A	Aqueous	GC 58	01/25/10	01/26/10 18:34	100125L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Aroclor-1016	ND	1.0	1		Aroclor-1248	ND	1.0	1	
Aroclor-1221	ND	1.0	1		Aroclor-1254	ND	1.0	1	
Aroclor-1232	ND	1.0	1		Aroclor-1260	ND	1.0	1	
Aroclor-1242	ND	1.0	1		Aroclor-1262	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
Decachlorobiphenyl	106	50-135			2,4,5,6-Tetrachloro-m-Xylene	98	50-135		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/10
Work Order No: 10-01-1675

Project: TDY / SC0307

Page 1 of 1

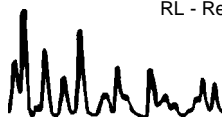
Client Sample Number	Lab Sample Number	Date Collected	Matrix
CB104-012210	10-01-1675-1	01/22/10	Aqueous

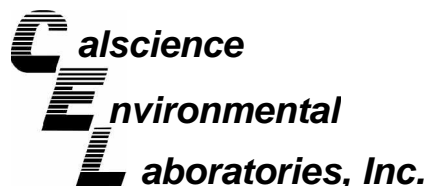
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	01/28/10	01/28/10	EPA 1664A
Chromium, Hexavalent	ND	0.020	1		mg/L	01/22/10	01/22/10	EPA 7196A
Specific Conductance	60	1.0	1		umhos/cm	N/A	01/22/10	SM 2510 B
Solids, Total Suspended	1.8	1.0	1		mg/L	01/27/10	01/27/10	SM 2540 D
pH	7.01	0.01	1		pH units	N/A	01/22/10	SM 4500 H+ B

Method Blank					N/A			Aqueous
---------------------	--	--	--	--	------------	--	--	----------------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
HEM: Oil and Grease	ND	1.0	1		mg/L	01/28/10	01/28/10	EPA 1664A
Chromium, Hexavalent	ND	0.020	1		mg/L	01/22/10	01/22/10	EPA 7196A
Solids, Total Suspended	ND	1.0	1		mg/L	01/27/10	01/27/10	SM 2540 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/22/10
Work Order No: 10-01-1675
Preparation: EPA 3010A Total
Method: EPA 6010B

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-1626-1	Aqueous	ICP 5300	01/22/10	01/23/10	100122SA5

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	58	61	72-132	5	0-10	3
Arsenic	100	106	80-140	6	0-11	
Barium	71	52	87-123	9	0-6	3,4
Beryllium	102	108	89-119	6	0-8	
Cadmium	98	104	82-124	7	0-7	
Chromium	99	105	86-122	5	0-8	
Cobalt	104	110	83-125	6	0-7	
Copper	101	108	78-126	6	0-7	
Lead	98	105	84-120	6	0-7	
Molybdenum	95	100	78-126	6	0-7	
Nickel	101	107	84-120	6	0-7	
Selenium	97	104	79-127	7	0-9	
Silver	99	106	86-128	7	0-7	
Thallium	90	99	79-121	9	0-8	4
Vanadium	103	109	88-118	5	0-7	
Zinc	61	54	89-131	4	0-8	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

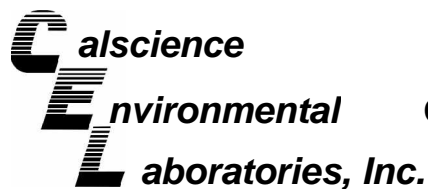
Date Received: 01/22/10
Work Order No: 10-01-1675
Preparation: EPA 7470A Total
Method: EPA 7470A

Project TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-1599-1	Aqueous	Mercury	01/22/10	01/22/10	100122S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	99	100	57-141	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

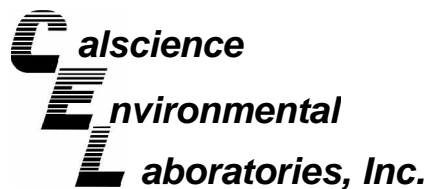
Date Received: N/A
Work Order No: 10-01-1675

Project: TDY / SC0307

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	EPA 7196A	CB104-012210	01/22/10	1/22/10	98	98	70-130	1	0-25	
HEM: Oil and Grease	EPA 1664A	10-01-1463-5	01/28/10	1/28/10	92	88	78-114	6	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

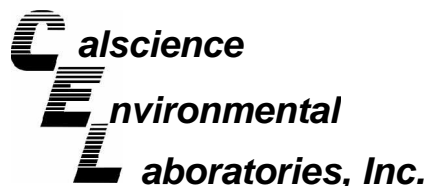
Date Received: N/A
Work Order No: 10-01-1675

Project: TDY / SC0307

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
pH	SM 4500 H+ B	10-01-1615-2	01/22/10	7.12	7.10	0	0-25	
Specific Conductance	SM 2510 B	10-01-1672-1	01/22/10	140	140	0	0-25	
Solids, Total Suspended	SM 2540 D	10-01-1626-1	01/27/10	874	858	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-01-1675
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-003-10,092	Aqueous	ICP 5300	01/22/10	01/23/10	100122LA5F		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	99	101	80-120	73-127	2	0-20	
Arsenic	101	102	80-120	73-127	1	0-20	
Barium	109	110	80-120	73-127	1	0-20	
Beryllium	103	103	80-120	73-127	1	0-20	
Cadmium	105	106	80-120	73-127	0	0-20	
Chromium	102	102	80-120	73-127	0	0-20	
Cobalt	107	108	80-120	73-127	1	0-20	
Copper	102	102	80-120	73-127	0	0-20	
Lead	106	107	80-120	73-127	1	0-20	
Molybdenum	105	106	80-120	73-127	1	0-20	
Nickel	107	108	80-120	73-127	1	0-20	
Selenium	99	100	80-120	73-127	1	0-20	
Silver	105	105	80-120	73-127	0	0-20	
Thallium	102	103	80-120	73-127	1	0-20	
Vanadium	104	104	80-120	73-127	0	0-20	
Zinc	114	114	80-120	73-127	0	0-20	

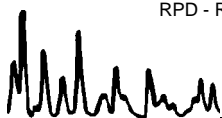
Total number of LCS compounds : 16

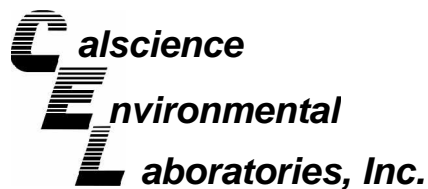
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

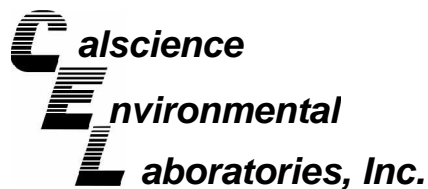
Date Received: N/A
Work Order No: 10-01-1675
Preparation: EPA 7470A Filt.
Method: EPA 7470A

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,554	Aqueous	Mercury	01/22/10	01/22/10	100122L01F

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	99	100	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-01-1675
Preparation: EPA 3510C
Method: EPA 8082

Project: TDY / SC0307

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-533-389	Aqueous	GC 58	01/25/10	01/27/10	100125L03

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Aroclor-1016	101	88	50-135	13	0-25	
Aroclor-1260	98	85	50-135	14	0-25	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: N/A
 Work Order No: 10-01-1675

Project: TDY / SC0307

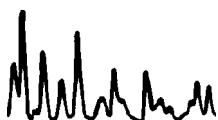
Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>Conc.</u> <u>Added</u>	<u>Conc.</u> <u>Recovered</u>	<u>LCS</u> <u>%Rec</u>	<u>%Rec</u> <u>CL</u>	<u>Qualifiers</u>
Chromium, Hexavalent	EPA 7196A	099-05-064-1,939	01/22/10	01/22/10	0.500	0.496	99	80-120	
HEM: Oil and Grease	EPA 1664A	099-05-119-2,244	01/28/10	01/28/10	40.0	38.7	97	78-114	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-01-1675

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.





CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

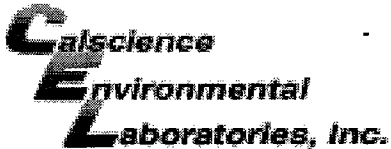
6925 Canoga Ave. • Canoga Park, CA 91303 • (818) 587-5550 • 800-695-7222 x02 • FAX (818) 587-5555

PAGE 7 OF 7

CAS Contact 1675

Project Name: <u>TDY</u> Project Manager: <u>Brian Hitchens</u> Company Address: <u>10875 Baneho Bernardo San Diego, CA 92127</u> Phone #: <u>858-674-6559</u> Fax #: <u>858-674-6559</u> Sampler's Signature: <u>[Signature]</u> Sampler's Printed Name: <u>Chris Lieder</u>		Project Number: <u>SC0307</u> Report CC: <u> </u> FAX#: <u> </u> Sampler's Printed Name: <u>Chris Lieder</u>	
ANALYSIS REQUESTED (Include Method Number and Container Preservative) TPB Gas 8015m (purgeable) <input type="checkbox"/> 8015m Diesel Fuel Char. <input type="checkbox"/> 8021 MTEB <input type="checkbox"/> Halogenated Volatiles <input type="checkbox"/> 8260 VOA by GCMS <input type="checkbox"/> 8260 / 624 SemivOA by GCMS <input type="checkbox"/> 8270 / 625 Pesticides <input type="checkbox"/> 8081 / 8082 PCBs <input type="checkbox"/> 8081 / 8082 / 608 CCR Metals (17) <input type="checkbox"/> 6010 / 6020 / 7000 / 2007 / 200.8 Metals <input type="checkbox"/> Chrome VI <input type="checkbox"/> TSS, PH, & Cond. <input type="checkbox"/> Oil & Grease <input type="checkbox"/> PCBs <input type="checkbox"/>		PRESERVATIVE: <u> </u> PREPARATIVE: <u> </u> NUMBER OF CONTAINERS: <u> </u>	
CLIENT SAMPLE ID: <u>CB04-012210</u> <u>CB90-012210</u>		LAB ID: <u> </u> DATE: <u>1/22/10</u> TIME: <u>10:20</u> MATRIX: <u>H2O</u> DATE: <u>1/22/10</u> TIME: <u>10:25</u> MATRIX: <u>H2O</u>	
SPECIAL INSTRUCTIONS/COMMENTS: <u> </u>			
TURNAROUND REQUIREMENTS (SURCHARGES APPLY) RUSH <input type="checkbox"/> (LCS, DUP, MS/MSD as required) PLEASE CIRCLE WORK DAYS: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> STANDARD <input type="checkbox"/> REQUESTED FAX DATE: <u> </u> REQUESTED REPORT DATE: <u> </u>		REPORT REQUIREMENTS I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data <input type="checkbox"/> MPL Yes <input type="checkbox"/> No <input type="checkbox"/> POL/MDL/J Yes <input type="checkbox"/> No <input type="checkbox"/> Edata Yes <input type="checkbox"/> No <input type="checkbox"/>	
RECEIVED BY: <u>[Signature]</u> Signature: <u> </u> Printed Name: <u> </u> Firm: <u> </u> Date/Time: <u>1/22/10 @ 10:55</u>		RECEIVED BY: <u>[Signature]</u> Signature: <u> </u> Printed Name: <u> </u> Firm: <u> </u> Date/Time: <u>1/22/10 12:00</u>	
RELINQUISHED BY: <u>[Signature]</u> Signature: <u> </u> Printed Name: <u> </u> Firm: <u> </u> Date/Time: <u>1/22/10 @ 10:55</u>		RELINQUISHED BY: <u>[Signature]</u> Signature: <u> </u> Printed Name: <u> </u> Firm: <u> </u> Date/Time: <u>1/22/10 12:00</u>	
INVOICE INFORMATION PO#: <u> </u> BILL TO: <u> </u> Lab No.: <u> </u>		RECEIVED BY: <u>[Signature]</u> Signature: <u> </u> Printed Name: <u> </u> Firm: <u> </u> Date/Time: <u>1/22/10 1555</u>	

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client



WORK ORDER #: 10-01-1675

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Goosynotes

DATE: 01/22/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.3 °C + 0.5°C (CF) = 1.8 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: YC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

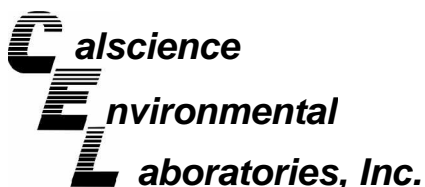
500AGB 500AGJ 500AGJ_s 250AGB 250CGB 250CGB_s 1PB 500PB 500PB_{na}

250PB 250PB_n 125PB 125PB_{z_{na}} 100PJ 100PJ_{na2} _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Checked by:** YC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope **Reviewed by:** RM

Preservative: h: HCL n: HNO3 na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** YC



January 18, 2010

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 10-01-0135**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/5/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	10-01-0135-1-D	01/05/10 13:02	Aqueous	GC 52	N/A	01/06/10 00:00	100106L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.650	1.00	0.00547	1	J	ug/L
Ethylene	17.2	1.00	0.0933	1		ug/L
Methane	6360	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	10-01-0135-2-D	01/05/10 13:56	Aqueous	GC 52	N/A	01/06/10 00:00	100106L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	7.80	1.00	0.00547	1		ug/L
Ethylene	0.720	1.00	0.0933	1	J	ug/L
Methane	7680	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	10-01-0135-3-D	01/05/10 14:40	Aqueous	GC 52	N/A	01/06/10 00:00	100106L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

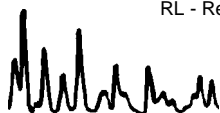
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.350	1.00	0.00547	1	J	ug/L
Ethylene	7.34	1.00	0.0933	1		ug/L
Methane	6830	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-268	N/A	Aqueous	GC 52	N/A	01/06/10 00:00	100106L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	10-01-0135-1-F	01/05/10 13:02	Aqueous	HPLC 6	N/A	01/07/10 18:59	100107L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	110	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	10-01-0135-2-F	01/05/10 13:56	Aqueous	HPLC 6	N/A	01/07/10 19:22	100107L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

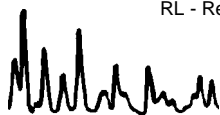
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	11	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	97	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	10-01-0135-3-F	01/05/10 14:40	Aqueous	HPLC 6	N/A	01/07/10 19:45	100107L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	430	20	16	20		mg/L
Butyric Acid	12	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	50	20	15	20		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	107	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-244	N/A	Aqueous	HPLC 6	N/A	01/07/10 17:50	100107L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

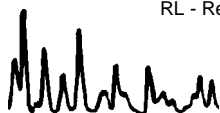
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	104	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-245	N/A	Aqueous	HPLC 6	N/A	01/14/10 12:39	100114L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	105	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 1 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	10-01-0135-1-A	01/05/10 13:02	Aqueous	GC/MS VV	01/06/10	01/07/10 08:45	100106L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	0.30	0.50	0.28	1	J	2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	9.7	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.5	0.50	0.33	1	
c-1,2-Dichloroethene	0.82	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	0.42	1.0	0.40	1	J	o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	108	80-132		1,2-Dichloroethane-d4	111	80-141	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	95	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 2 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	10-01-0135-2-B	01/05/10 13:56	Aqueous	GC/MS XX	01/07/10	01/07/10 14:55	100107L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	3.8	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	0.79	0.50	0.33	1	
c-1,2-Dichloroethene	2.3	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	0.51	1.0	0.40	1	J	o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	99	80-132		1,2-Dichloroethane-d4	101	80-141	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	95	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 3 of 8


Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	10-01-0135-3-B	01/05/10 14:40	Aqueous	GC/MS XX	01/07/10	01/07/10 15:24	100107L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	540	250	100	5		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	5.9	10	4.4	1	J
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	3.0	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	0.95	1.0	0.33	1	J
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	0.55	0.50	0.33	1	
c-1,2-Dichloroethene	0.79	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	0.41	1.0	0.40	1	J	o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	99	80-132		1,2-Dichloroethane-d4	97	80-141	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	95	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 4 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-1	10-01-0135-4-A	01/05/10 13:00	Aqueous	GC/MS VV	01/06/10	01/06/10 13:26	100106L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	103	80-132	
Toluene-d8	99	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	108	80-141	
1,4-Bromofluorobenzene	94	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 5 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-1	10-01-0135-5-A	01/05/10 11:00	Aqueous	GC/MS VV	01/06/10	01/06/10 12:59	100106L01

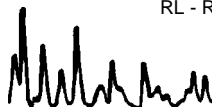
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	102	80-132	
Toluene-d8	97	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	105	80-141	
1,4-Bromofluorobenzene	94	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 6 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,829	N/A	Aqueous	GC/MS VV	01/06/10	01/06/10 12:04	100106L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control I	Qual
Dibromofluoromethane	102	80-132		1,2-Dichloroethane-d4	103	80-141	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	95	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 7 of 8

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,842	N/A	Aqueous	GC/MS VV	01/06/10	01/07/10 00:01	100106L02

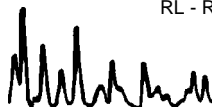
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	104	80-132	
Toluene-d8	98	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	105	80-141	
1,4-Bromofluorobenzene	96	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-31,843	N/A	Aqueous	GC/MS XX	01/07/10	01/07/10 12:03	100107L01

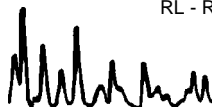
Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

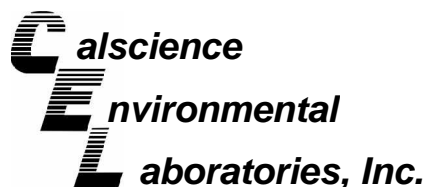
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	20	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	98	80-132	
Toluene-d8	98	80-120	

Surrogates:	REC (%)	Control I	Qual
1,2-Dichloroethane-d4	97	80-141	
1,4-Bromofluorobenzene	96	76-120	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW7	10-01-0135-1	01/05/10	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (3) (24)	2000	50	6.7	50		mg/L	N/A	01/06/10	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.20	0.026	2		mg/L	N/A	01/06/10	EPA 300.0
Nitrate (as N) (3) (24)	ND	0.20	0.033	2		mg/L	N/A	01/06/10	EPA 300.0
Sulfate (3) (24)	9.6	2.0	0.32	2		mg/L	N/A	01/06/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	01/08/10	01/08/10	SM 4500 S2 - D
Carbon, Total Organic (24)	31	10	0.42	20		mg/L	N/A	01/06/10	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW8	10-01-0135-2	01/05/10	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	250	5.0	0.67	5		mg/L	N/A	01/06/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	01/06/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	01/06/10	EPA 300.0
Sulfate (24)	1.5	1.0	0.16	1		mg/L	N/A	01/06/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	01/08/10	01/08/10	SM 4500 S2 - D
Carbon, Total Organic (24)	24	10	0.42	20		mg/L	N/A	01/06/10	SM 5310 D

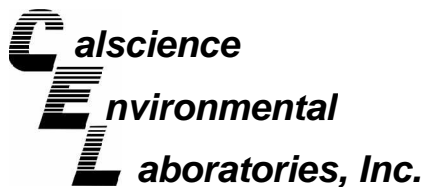
Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW9	10-01-0135-3	01/05/10	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (3) (24)	300	5.0	0.67	5		mg/L	N/A	01/06/10	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.20	0.026	2		mg/L	N/A	01/06/10	EPA 300.0
Nitrate (as N) (3) (24)	ND	0.20	0.033	2		mg/L	N/A	01/06/10	EPA 300.0
Sulfate (3) (24)	1.3	2.0	0.32	2	J	mg/L	N/A	01/06/10	EPA 300.0
Sulfide, Total (24)	0.30	0.050	0.042	1		mg/L	01/08/10	01/08/10	SM 4500 S2 - D
Carbon, Total Organic (24)	230	10	0.42	20		mg/L	N/A	01/06/10	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 01/05/10
 Work Order No: 10-01-0135

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	01/06/10	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	01/06/10	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	01/06/10	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	01/06/10	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	01/08/10	01/08/10	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.021	1		mg/L	N/A	01/06/10	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

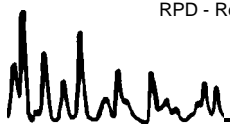
Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD120-MW7	Aqueous	HPLC 6	N/A	01/07/10	100107S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	89	77	70-130	15	0-30	
Butyric Acid	100	91	70-130	9	0-30	
Lactic Acid	49	15	70-130	107	0-30	3,4
Propionic Acid	97	88	70-130	10	0-30	
Pyruvic Acid	89	77	70-130	14	0-30	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0398-5	Aqueous	HPLC 6	N/A	01/14/10	100114S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	88	103	70-130	13	0-30	
Butyric Acid	92	102	70-130	10	0-30	
Lactic Acid	71	80	70-130	12	0-30	
Propionic Acid	94	104	70-130	10	0-30	
Pyruvic Acid	75	87	70-130	14	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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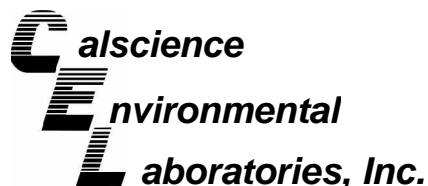
Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0124-4	Aqueous	GC/MS VV	01/06/10	01/06/10	100106S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	99	72-120	1	0-20	
Carbon Tetrachloride	102	101	63-135	1	0-20	
Chlorobenzene	101	101	80-120	0	0-20	
1,2-Dibromoethane	104	103	80-120	2	0-20	
1,2-Dichlorobenzene	100	101	80-120	0	0-20	
1,1-Dichloroethene	96	92	60-132	4	0-24	
Ethylbenzene	108	108	78-120	0	0-20	
Toluene	97	96	74-122	1	0-20	
Trichloroethene	99	98	69-120	1	0-20	
Vinyl Chloride	100	102	58-130	2	0-20	
Methyl-t-Butyl Ether (MTBE)	92	92	72-126	0	0-21	
Tert-Butyl Alcohol (TBA)	99	97	72-126	2	0-20	
Diisopropyl Ether (DIPE)	96	96	71-137	1	0-23	
Ethyl-t-Butyl Ether (ETBE)	91	92	74-128	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	92	95	76-124	3	0-20	
Ethanol	98	100	35-167	3	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

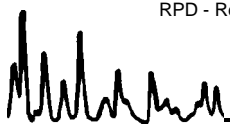
Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0114-1	Aqueous	GC/MS VV	01/06/10	01/07/10	100106S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	98	72-120	1	0-20	
Toluene	94	96	74-122	2	0-20	
Ethylbenzene	102	105	78-120	3	0-20	
Methyl-t-Butyl Ether (MTBE)	87	90	72-126	4	0-21	
Tert-Butyl Alcohol (TBA)	103	97	72-126	5	0-20	
Diisopropyl Ether (DIPE)	93	96	71-137	4	0-23	
Ethyl-t-Butyl Ether (ETBE)	87	90	74-128	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	90	92	76-124	2	0-20	
Ethanol	104	106	35-167	2	0-48	
1,1-Dichloroethene	90	93	60-132	4	0-24	
1,2-Dibromoethane	105	104	80-120	1	0-20	
1,2-Dichlorobenzene	96	98	80-120	2	0-20	
Carbon Tetrachloride	99	102	63-135	3	0-20	
Chlorobenzene	98	100	80-120	2	0-20	
Trichloroethene	93	96	69-120	3	0-20	
Vinyl Chloride	97	102	58-130	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

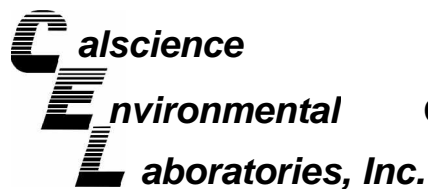
Date Received: 01/05/10
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-01-0124-10	Aqueous	GC/MS XX	01/07/10	01/07/10	100107S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	95	72-120	0	0-20	
Carbon Tetrachloride	98	98	63-135	0	0-20	
Chlorobenzene	102	101	80-120	1	0-20	
1,2-Dibromoethane	97	97	80-120	0	0-20	
1,2-Dichlorobenzene	101	101	80-120	0	0-20	
1,1-Dichloroethene	95	96	60-132	1	0-24	
Ethylbenzene	103	102	78-120	1	0-20	
Toluene	100	100	74-122	0	0-20	
Trichloroethene	98	98	69-120	0	0-20	
Vinyl Chloride	92	92	58-130	0	0-20	
Methyl-t-Butyl Ether (MTBE)	94	96	72-126	1	0-21	
Tert-Butyl Alcohol (TBA)	99	99	72-126	0	0-20	
Diisopropyl Ether (DIPE)	96	97	71-137	1	0-23	
Ethyl-t-Butyl Ether (ETBE)	95	95	74-128	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	96	98	76-124	2	0-20	
Ethanol	111	108	35-167	3	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

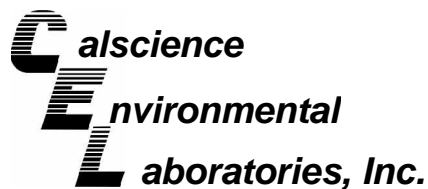
N/A
10-01-0135

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	10-01-0144-1	01/06/10	N/A	106	106	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	10-01-0144-1	01/06/10	N/A	99	100	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	10-01-0144-1	01/06/10	N/A	105	105	80-120	0	0-20	
Sulfate	EPA 300.0	10-01-0144-1	01/06/10	N/A	104	104	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	10-01-0201-1	01/06/10	N/A	90	91	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-01-0135

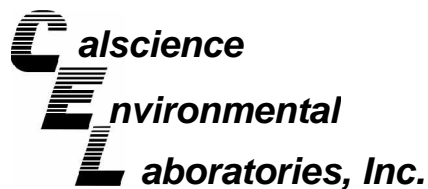
Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	10-01-0132-1	01/08/10	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit

7440 Lincoln Way, Garden Grove, CA 92841-1427 . TEL:(714) 895-5494 . FAX: (714) 894-7501



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

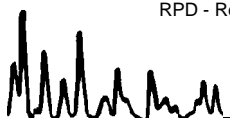
Date Received: N/A
Work Order No: 10-01-0135
Preparation: N/A
Method: RSK-175M

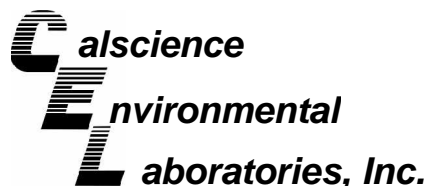
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-268	Aqueous	GC 52	N/A	01/06/10	100106L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	97	95	80-120	2	0-20	
Methane	95	92	79-109	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

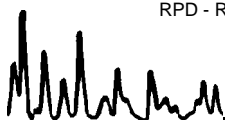
Date Received: N/A
Work Order No: 10-01-0135
Preparation: N/A
Method: HPLC/UV

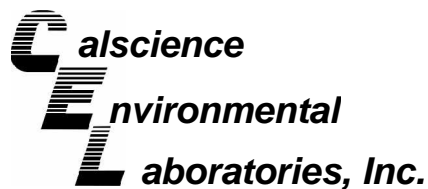
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-244	Aqueous	HPLC 6	N/A	01/07/10	100107L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	106	98	80-120	8	0-20	
Butyric Acid	101	92	80-120	9	0-20	
Lactic Acid	86	81	80-120	7	0-20	
Propionic Acid	103	94	80-120	9	0-20	
Pyruvic Acid	94	88	80-120	7	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

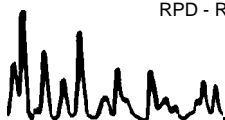
Date Received: N/A
Work Order No: 10-01-0135
Preparation: N/A
Method: HPLC/UV

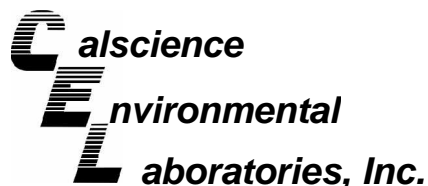
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-245	Aqueous	HPLC 6	N/A	01/14/10	100114L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	105	105	80-120	1	0-20	
Butyric Acid	99	101	80-120	2	0-20	
Lactic Acid	83	83	80-120	0	0-20	
Propionic Acid	102	103	80-120	0	0-20	
Pyruvic Acid	90	91	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,829	Aqueous	GC/MS VV	01/06/10	01/06/10	100106L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	101	80-122	73-129	2	0-20	
Carbon Tetrachloride	101	102	68-140	56-152	1	0-20	
Chlorobenzene	101	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	103	104	80-121	73-128	1	0-20	
1,2-Dichlorobenzene	101	101	80-120	73-127	0	0-20	
1,1-Dichloroethene	94	94	72-132	62-142	0	0-25	
Ethylbenzene	107	108	80-126	72-134	1	0-20	
Toluene	96	98	80-121	73-128	2	0-20	
Trichloroethene	98	98	80-123	73-130	1	0-20	
Vinyl Chloride	103	102	67-133	56-144	0	0-20	
Methyl-t-Butyl Ether (MTBE)	99	99	75-123	67-131	0	0-20	
Tert-Butyl Alcohol (TBA)	101	94	75-123	67-131	7	0-20	
Diisopropyl Ether (DIPE)	98	100	71-131	61-141	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	97	100	76-124	68-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	99	103	80-123	73-130	4	0-20	
Ethanol	91	87	61-139	48-152	5	0-27	

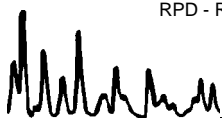
Total number of LCS compounds : 16

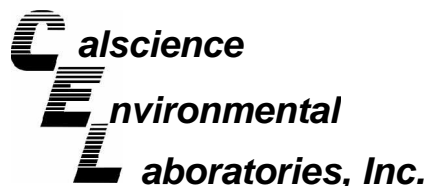
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,842	Aqueous	GC/MS VV	01/06/10	01/06/10	100106L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	96	96	80-122	73-129	0	0-20	
Carbon Tetrachloride	103	98	68-140	56-152	4	0-20	
Chlorobenzene	97	98	80-120	73-127	1	0-20	
1,2-Dibromoethane	106	104	80-121	73-128	2	0-20	
1,2-Dichlorobenzene	97	97	80-120	73-127	1	0-20	
1,1-Dichloroethene	94	89	72-132	62-142	6	0-25	
Ethylbenzene	103	103	80-126	72-134	0	0-20	
Toluene	93	94	80-121	73-128	1	0-20	
Trichloroethene	94	96	80-123	73-130	1	0-20	
Vinyl Chloride	100	97	67-133	56-144	3	0-20	
Methyl-t-Butyl Ether (MTBE)	97	92	75-123	67-131	5	0-20	
Tert-Butyl Alcohol (TBA)	100	94	75-123	67-131	6	0-20	
Diisopropyl Ether (DIPE)	95	96	71-131	61-141	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	90	93	76-124	68-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	93	94	80-123	73-130	1	0-20	
Ethanol	98	111	61-139	48-152	12	0-27	

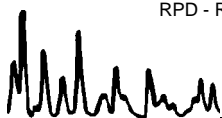
Total number of LCS compounds : 16

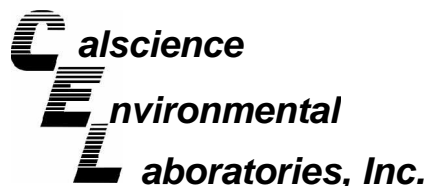
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 10-01-0135
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-31,843	Aqueous	GC/MS XX	01/07/10	01/07/10	100107L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	97	95	80-122	73-129	2	0-20	
Carbon Tetrachloride	102	102	68-140	56-152	0	0-20	
Chlorobenzene	103	102	80-120	73-127	1	0-20	
1,2-Dibromoethane	99	100	80-121	73-128	1	0-20	
1,2-Dichlorobenzene	103	103	80-120	73-127	1	0-20	
1,1-Dichloroethene	94	95	72-132	62-142	1	0-25	
Ethylbenzene	105	104	80-126	72-134	1	0-20	
Toluene	103	101	80-121	73-128	2	0-20	
Trichloroethene	101	100	80-123	73-130	1	0-20	
Vinyl Chloride	90	91	67-133	56-144	0	0-20	
Methyl-t-Butyl Ether (MTBE)	94	95	75-123	67-131	1	0-20	
Tert-Butyl Alcohol (TBA)	97	97	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	97	96	71-131	61-141	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	96	96	76-124	68-132	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	100	99	80-123	73-130	0	0-20	
Ethanol	99	95	61-139	48-152	4	0-27	

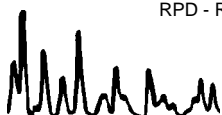
Total number of LCS compounds : 16

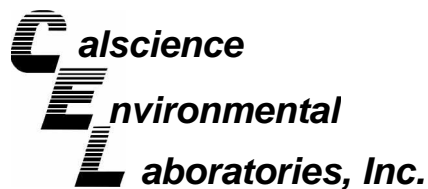
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
10-01-0135

Project: Teledyne Ryan

Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-697	N/A	01/06/10	103	104	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-697	N/A	01/06/10	99	99	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-697	N/A	01/06/10	103	103	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-697	N/A	01/06/10	102	102	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: N/A
 Work Order No: 10-01-0135

Project: Teledyne Ryan

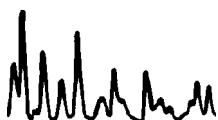
Matrix: Aqueous or Solid

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,698	01/06/10	N/A	5.00	5.00	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 10-01-0135

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY **BTS #**
 CLIENT **Geosyntec**
 SITE **Teledyne Ryan**
2701 N. Harbor Drive
San Diego, CA

6135

LAB **CalScience** DHS #
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 *** Metals Sample were filtered in the field
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL	CONDUCT ANALYSIS TO DETECT						ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	PCBs by EPA Method 8082 ULL	Metals (6010B/7470A)**				
BLD120-1117	01-05-10	1302	W	10	X	X	X	X	X	X			1	
BLD120-1118		1356	W	3	X	X	X	X	X	X			2	
BLD120-1119		1440	W	3	X	X	X	X	X	X			3	
GCEB-1		1300	W	2	X	X	X	X	X	X			4	
GCTB-1		1100	W	2	X	X	X	X	X	X			5	

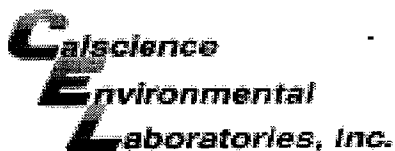
RESULTS NEEDED
NO LATER THAN

RELEASING BY: **Chris Davis** DATE: 01-05-10 TIME: 1500 RECEIVED BY: **CEL** DATE: 1/5/10 TIME: 1500

RELEASING BY: **CEL** DATE: 1/5/10 TIME: 1700 RECEIVED BY: **CEL** DATE: 1/5/10 TIME: 1700

RELEASING BY: DATE: TIME: RECEIVED BY: DATE: TIME:

SHIPPED VIA DATE SENT TIME SENT COOLER #



WORK ORDER #: 10-01-0135

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blain Tech

DATE: 01/5/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 0.9 °C + 0.5 °C (CF) = 1.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOAg VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: 091217 B Checked by: [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WSC

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered Scanned by: [Signature]

August 17, 2010

Service Request No: E1000812

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

Laboratory Results for: Teledyne Ryan

Dear Brian:

Enclosed are the results of the sample(s) submitted to our laboratory on July 24, 2010. For your reference, these analyses have been assigned our service request number **E1000812**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the final complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2959. You may also contact me via email at NBrown@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Nicole Brown
Project Manager

Page 1 of _____



Certificate of Analysis

19408 Park Row, Suite 320, Houston, TX 77084

Phone (713)266-1599 Fax (713)266-0130

www.caslab.com

An Employee Owned Company

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each congener in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Approved by _____ Date 08/23/10

Xiangqiu Liang, Laboratory Director

Client:
Project: Teledyne Ryan

Service Request: E1000812

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E1000812-001	MWCL-2	7/22/10	09:35
E1000812-002	MWCL-2-B	7/22/10	09:35
E1000812-003	MWCL-6	7/22/10	12:00
E1000812-004	MWCL-8R	7/22/10	14:14

Superset Summary

Service Request: E1000812

SuperSet Reference: 10-0000151697 rev 00

1668A/Cl Biphen Cong

Calibrations: 10/19/09

Data Files:

<i>Raw Data</i>	<i>Begin CCAL</i>	<i>Method Blank</i>	<i>Lab ID</i>
U223465	U223464	U223465	EQ1000375-01
U223467	U223464	U223465	E1000812-001
U223471	U223468	U223465	EQ1000375-02
U223472	U223468	U223465	EQ1000375-03
U223474	U223468	U223465	E1000812-002
U223475	U223468	U223465	E1000812-003
U223476	U223468	U223465	E1000812-004

Laboratory Certifications 2010-2011

STATE/PROGRAM	AGENCY	CERTIFICATION ID	EXP DATE
ARIZONA	AZ-DHS	AZ0725	05/27/11
ARKANSAS	ADEQ	10-035-0	06/16/11
CALIFORNIA	CA-ELAP	2452	02/28/11
DoD ELAP	A2LA	2897.01	11/30/11
FLORIDA/NELAP	FL-DOHS	E87611	06/30/11
HAWAII	HI-DOH	N/A	06/30/11
ILLINOIS/NELAP	IL-EPA	002380	10/06/10
ISO 17025	A2LA	2897.01	11/30/11
LOUISIANA/NELAP	LELAP	03048	06/30/11
LOUISIANA/NELAP	LDHH	LA100032	12/31/10
MAINE	ME-DOHS	2010041	06/05/12
MICHIGAN	MIDEQ	9971	06/30/11
MINNESOTA	MDH	048-999-427	12/31/10
NEVADA	NDEP	TX014112010A	07/31/10
NEW JERSEY	NJDEP	TX008	06/30/11
NEW MEXICO	NMED-DWB	N/A	06/30/11
NEW YORK/NELAP	NY-DOH	11707	04/01/11
OKLAHOMA	OKDEQ	2009-25	08/31/10
OREGON/NELAP	ORELAP	TX200002-006	03/24/10
PENNSYLVANIA/NELAP	PLAP	002	06/30/11
TENNESSEE	TNDEC	04016	06/30/11
TEXAS/NELAP	TCEQ	T104704216-10-1	06/30/11
UTAH/NELAP	UTELCP	COLU2	06/30/11
SOIL IMPORT PERMIT	USDA	P330-09-00067	03/27/12
WASHINGTON/NELAP	WA-Ecology	C1855	11/14/10
WEST VIRGINIA	WVDEP	347	06/30/11

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent Recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-Noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – PCB Congeners

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample
- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range
- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL)
- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.
- **U** Indicates the compound was analyzed and not detected
- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.
- **ND** Indicates concentration is reported as 'Not Detected'
- **S** Peak is saturated; data not reportable
- **Q** Lock-mass interference by ether compounds
- **X** See case narrative

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID

E1000812

DB-5

DB-225

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 08/10/10 Analyst: MC

Samples: OOLRE

Second Level - Data Review – to be filled by person doing peer review

Date: 08/12/10 Analyst: PJ

Samples: OOLRE

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID

DB- 5

DB- 225

SPB- Oct y1

First Level - Data Processing - to be filled by person generating the forms

Date: 08/11/10

Anal yst: [Signature]

Sampl es: (002RE, 003RE, 004RE)

Second Level - Data Review – to be filled by person doing peer review

Date: 08/13/10

Anal yst: [Signature]

Sampl es: 002RE, 003RE, 004RE



Analytical Results

19408 Park Row, Suite 320, Houston, TX 77084

Phone (713)266-1599 Fax (713)266-0130

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E1000812-001

Service Request: E1000812
Date Collected: 7/22/10 0935
Date Received: 7/24/10
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1040mL
Data File Name: U223467
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 1525
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223464

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	61.4	BJK	6.62	2400	0.98	1.001	1
Total MonoCB	386	J	10.1	962	3.10		1
Total DiCB	6140		57.2	2400			1
Total TriCB	2000	J	9.04	2400			1
Total TetraCB	1880	J	5.54	2400			1
Total PentaCB	805	J	5.07	4810			1
Total HexaCB	237	J	3.74	4810			1
Total HeptaCB	15.4	J	4.41	4810			1
Total OctaCB	53.9	J	4.33	4810	0.78		1
Total NonaCB	68.0	J	5.65	4810			1
Total PCBs	11600		3.74	4810			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E1000812-001

Service Request: E1000812
Date Collected: 7/22/10 0935
Date Received: 7/24/10
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1040mL
Data File Name: U223467
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 1525
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223464

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	2678.724	27		15-150	3.07	0.746
PCB 3L	10000	2694.333	27		15-150	3.34	0.874
PCB 4L	10000	2583.412	26		25-150	1.51	0.887
PCB 15L	10000	3074.164	31		25-150	1.60	1.225
PCB 19L	10000	2430.910	24	Y	25-150	0.99	1.066
PCB 37L	10000	4988.156	50		25-150	1.06	1.083
PCB 54L	10000	2708.753	27		25-150	0.77	0.831
PCB 81L	10000	6160.741	62		25-150	0.80	1.332
PCB 77L	10000	6885.416	69		25-150	0.80	1.352
PCB 104L	10000	2624.813	26		25-150	1.55	0.826
PCB 123L	10000	5474.470	55		25-150	1.58	1.137
PCB 118L	10000	5637.214	56		25-150	1.59	1.146
PCB 114L	10000	5473.927	55		25-150	1.59	1.161
PCB 105L	10000	6096.010	61		25-150	1.56	1.181
PCB 126L	10000	7501.326	75		25-150	1.57	1.272
PCB 155L	10000	3258.981	33		25-150	1.13	0.802
PCB 167L	10000	5652.025	57		25-150	1.28	1.071
PCBs 156L + 157L	20000	12434.180	62		25-150	1.28	1.099
PCB 169L	10000	6720.694	67		25-150	1.28	1.176
PCB 188L	10000	4264.905	43		25-150	1.01	0.731
PCB 189L	10000	5863.938	59		25-150	1.04	0.961
PCB 202L	10000	4814.071	48		25-150	0.89	0.830
PCB 205L	10000	6917.345	69		25-150	0.87	1.009
PCB 208L	10000	5902.118	59		25-150	0.76	0.952
PCB 206L	10000	5461.294	55		25-150	0.78	1.040
PCB 209L	10000	4362.741	44		25-150	1.21	1.069
PCB 28L	10000	8748.415	87		30-135	1.07	0.932
PCB 111L	10000	9029.586	90		30-135	1.56	1.078
PCB 178L	10000	8086.850	81		30-135	1.01	1.010

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-2-B
Lab Code: E1000812-002

Service Request: E1000812
Date Collected: 7/22/10 0935
Date Received: 7/24/10
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223474
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2334
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	210	BJ	21.2	2500	1.16	1.001	1
Total MonoCB	524	J	15.4	1000	2.97		1
Total DiCB	8240		136	2500			1
Total TriCB	3700		15.8	2500			1
Total TetraCB	3970		13.5	2500			1
Total PentaCB	1410	J	11.5	5000			1
Total HexaCB	788	J	10.1	5000			1
Total HeptaCB	112	J	7.29	5000			1
Total OctaCB	28.4	J	11.9	5000	0.94		1
Total NonaCB	202	J	14.1	5000			1
Total PCBs	19200		7.29	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-2-B
Lab Code: E1000812-002

Service Request: E1000812
Date Collected: 7/22/10 0935
Date Received: 7/24/10
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223474
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2334
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	1836.001	18		15-150	3.18	0.746
PCB 3L	10000	1865.960	19		15-150	3.33	0.874
PCB 4L	10000	1843.306	18	Y	25-150	1.53	0.887
PCB 15L	10000	1993.320	20	Y	25-150	1.60	1.225
PCB 19L	10000	1905.061	19	Y	25-150	1.02	1.066
PCB 37L	10000	2701.697	27		25-150	1.06	1.082
PCB 54L	10000	2031.508	20	Y	25-150	0.77	0.831
PCB 81L	10000	2843.724	28		25-150	0.80	1.332
PCB 77L	10000	3127.171	31		25-150	0.80	1.352
PCB 104L	10000	1743.931	17	Y	25-150	1.57	0.826
PCB 123L	10000	2279.211	23	Y	25-150	1.58	1.137
PCB 118L	10000	2336.328	23	Y	25-150	1.58	1.146
PCB 114L	10000	2320.588	23	Y	25-150	1.60	1.161
PCB 105L	10000	2529.529	25		25-150	1.58	1.181
PCB 126L	10000	3115.328	31		25-150	1.55	1.272
PCB 155L	10000	1545.642	15	Y	25-150	1.25	0.802
PCB 167L	10000	2048.687	20	Y	25-150	1.28	1.071
PCBs 156L + 157L	20000	4501.542	23	Y	25-150	1.27	1.099
PCB 169L	10000	2421.320	24	Y	25-150	1.28	1.176
PCB 188L	10000	1613.914	16	Y	25-150	1.03	0.731
PCB 189L	10000	2071.371	21	Y	25-150	1.04	0.962
PCB 202L	10000	1707.951	17	Y	25-150	0.88	0.830
PCB 205L	10000	2266.981	23	Y	25-150	0.90	1.009
PCB 208L	10000	2086.662	21	Y	25-150	0.76	0.952
PCB 206L	10000	1713.896	17	Y	25-150	0.80	1.040
PCB 209L	10000	1411.401	14	Y	25-150	1.19	1.069
PCB 28L	10000	8156.971	82		30-135	1.03	0.932
PCB 111L	10000	8470.743	85		30-135	1.54	1.078
PCB 178L	10000	7456.189	75		30-135	1.03	1.010

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E1000812-003

Service Request: E1000812
Date Collected: 7/22/10 1200
Date Received: 7/24/10
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1080mL

Data File Name: U223475
ICAL Date: 10/19/09

Date Analyzed: 8/10/10 0043
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	7420	B	12.2	2310	1.15	1.001	1
Total MonoCB	325	J	9.69	926	3.19		1
Total DiCB	5900		96.1	2310			1
Total TriCB	2310		9.86	2310			1
Total TetraCB	2090	J	6.98	2310			1
Total PentaCB	2100	J	8.75	4630			1
Total HexaCB	1530	J	6.15	4630			1
Total HeptaCB	329	J	6.59	4630			1
Total OctaCB	265	J	5.47	4630	0.85		1
Total NonaCB	233	J	9.44	4630			1
Total PCBs	22500		5.47	4630			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E1000812-003

Service Request: E1000812
Date Collected: 7/22/10 1200
Date Received: 7/24/10
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1080mL
Data File Name: U223475
ICAL Date: 10/19/09

Date Analyzed: 8/10/10 0043
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	2326.815	23		15-150	3.06	0.747
PCB 3L	10000	2331.026	23		15-150	3.36	0.874
PCB 4L	10000	2196.032	22	Y	25-150	1.54	0.888
PCB 15L	10000	2592.128	26		25-150	1.60	1.225
PCB 19L	10000	2061.290	21	Y	25-150	1.00	1.066
PCB 37L	10000	3384.377	34		25-150	1.06	1.083
PCB 54L	10000	2156.811	22	Y	25-150	0.79	0.831
PCB 81L	10000	3853.785	39		25-150	0.80	1.332
PCB 77L	10000	4213.328	42		25-150	0.79	1.352
PCB 104L	10000	1838.230	18	Y	25-150	1.47	0.826
PCB 123L	10000	3235.389	32		25-150	1.58	1.137
PCB 118L	10000	3304.251	33		25-150	1.60	1.146
PCB 114L	10000	3239.180	32		25-150	1.62	1.162
PCB 105L	10000	3503.069	35		25-150	1.57	1.182
PCB 126L	10000	4358.240	44		25-150	1.60	1.273
PCB 155L	10000	1891.910	19	Y	25-150	1.24	0.802
PCB 167L	10000	3000.384	30		25-150	1.28	1.071
PCBs 156L + 157L	20000	6542.596	33		25-150	1.27	1.099
PCB 169L	10000	3525.329	35		25-150	1.30	1.176
PCB 188L	10000	2550.792	26		25-150	1.04	0.731
PCB 189L	10000	3202.220	32		25-150	1.07	0.962
PCB 202L	10000	2613.609	26		25-150	0.88	0.830
PCB 205L	10000	3597.488	36		25-150	0.90	1.009
PCB 208L	10000	3309.685	33		25-150	0.80	0.952
PCB 206L	10000	2808.163	28		25-150	0.77	1.041
PCB 209L	10000	2366.675	24	Y	25-150	1.18	1.070
PCB 28L	10000	7822.413	78		30-135	1.07	0.932
PCB 111L	10000	7709.927	77		30-135	1.55	1.079
PCB 178L	10000	6925.827	69		30-135	1.01	1.011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E1000812-004

Service Request: E1000812
Date Collected: 7/22/10 1414
Date Received: 7/24/10
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1060mL

Data File Name: U223476
ICAL Date: 10/19/09

Date Analyzed: 8/10/10 0151
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	78.1	BJ	8.61	2360	1.04	1.001	1
Total MonoCB	130	J	9.90	943	3.18		1
Total DiCB	5390		147	2360			1
Total TriCB	1960	J	9.40	2360			1
Total TetraCB	2020	J	6.34	2360			1
Total PentaCB	1240	J	7.51	4720			1
Total HexaCB	685	J	5.67	4720			1
Total HeptaCB	175	J	5.86	4720			1
Total OctaCB	131	J	7.12	4720	0.98		1
Total NonaCB	51.9	J	7.00	4720			1
Total PCBs	11900		5.67	4720			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E1000812-004

Service Request: E1000812
Date Collected: 7/22/10 1414
Date Received: 7/24/10
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1060mL
Data File Name: U223476
ICAL Date: 10/19/09

Date Analyzed: 8/10/10 0151
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	2829.864	28		15-150	3.16	0.746
PCB 3L	10000	2872.769	29		15-150	3.38	0.874
PCB 4L	10000	2595.106	26		25-150	1.51	0.887
PCB 15L	10000	3199.238	32		25-150	1.60	1.225
PCB 19L	10000	2624.371	26		25-150	1.09	1.066
PCB 37L	10000	4370.442	44		25-150	1.07	1.082
PCB 54L	10000	2576.798	26		25-150	0.79	0.831
PCB 81L	10000	5041.102	50		25-150	0.79	1.332
PCB 77L	10000	5616.157	56		25-150	0.81	1.352
PCB 104L	10000	2201.372	22	Y	25-150	1.47	0.826
PCB 123L	10000	4134.256	41		25-150	1.58	1.137
PCB 118L	10000	4285.010	43		25-150	1.63	1.146
PCB 114L	10000	4165.566	42		25-150	1.55	1.162
PCB 105L	10000	4595.154	46		25-150	1.61	1.182
PCB 126L	10000	5711.773	57		25-150	1.61	1.273
PCB 155L	10000	2499.692	25		25-150	1.13	0.802
PCB 167L	10000	4019.719	40		25-150	1.29	1.071
PCBs 156L + 157L	20000	8926.748	45		25-150	1.27	1.100
PCB 169L	10000	4783.634	48		25-150	1.27	1.176
PCB 188L	10000	3172.689	32		25-150	1.02	0.731
PCB 189L	10000	4215.081	42		25-150	1.03	0.962
PCB 202L	10000	3419.241	34		25-150	0.89	0.830
PCB 205L	10000	4824.512	48		25-150	0.89	1.009
PCB 208L	10000	4240.022	42		25-150	0.82	0.952
PCB 206L	10000	3673.542	37		25-150	0.78	1.041
PCB 209L	10000	3064.059	31		25-150	1.22	1.070
PCB 28L	10000	8751.352	88		30-135	1.06	0.932
PCB 111L	10000	8632.749	86		30-135	1.61	1.079
PCB 178L	10000	7812.566	78		30-135	1.02	1.011

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ1000375-01

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223465
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 1312
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223464

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total MonoCB	128	J	2.92	1000	3.10		1
Total DiCB	2380	J	12.7	2500			1
Total TriCB	1050	J	3.05	2500			1
Total TetraCB	1060	J	1.56	2500			1
Total PentaCB	519	J	3.17	5000			1
Total HexaCB	171	J	2.31	5000			1
Total HeptaCB	33.0	J	2.79	5000			1
Total OctaCB	44.7	J	2.70	5000	0.78		1
Total NonaCB	38.6	J	3.46	5000			1
PCB 209	261	J	4.41	2500	1.18	1.001	1
Total PCBs	5680		1.56	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ1000375-01

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223465
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 1312
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223464

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	9408.067	94		15-150	3.06	0.747
PCB 3L	10000	9335.421	93		15-150	3.18	0.873
PCB 4L	10000	8620.929	86		25-150	1.47	0.887
PCB 15L	10000	9607.946	96		25-150	1.59	1.225
PCB 19L	10000	8624.568	86		25-150	1.05	1.066
PCB 37L	10000	11083.618	111		25-150	1.05	1.082
PCB 54L	10000	9614.744	96		25-150	0.77	0.831
PCB 81L	10000	11470.966	115		25-150	0.80	1.332
PCB 77L	10000	11731.504	117		25-150	0.80	1.352
PCB 104L	10000	8805.763	88		25-150	1.57	0.826
PCB 123L	10000	9489.767	95		25-150	1.58	1.137
PCB 118L	10000	10791.361	108		25-150	1.56	1.146
PCB 114L	10000	9905.719	99		25-150	1.57	1.162
PCB 105L	10000	9774.203	98		25-150	1.60	1.182
PCB 126L	10000	11676.281	117		25-150	1.58	1.273
PCB 155L	10000	8801.491	88		25-150	1.18	0.803
PCB 167L	10000	8829.195	88		25-150	1.29	1.071
PCBs 156L + 157L	20000	18984.672	95		25-150	1.26	1.099
PCB 169L	10000	10079.736	101		25-150	1.28	1.176
PCB 188L	10000	8145.567	81		25-150	1.02	0.731
PCB 189L	10000	8287.786	83		25-150	1.04	0.962
PCB 202L	10000	7298.690	73		25-150	0.88	0.830
PCB 205L	10000	9287.068	93		25-150	0.88	1.009
PCB 208L	10000	8756.757	88		25-150	0.77	0.952
PCB 206L	10000	7318.163	73		25-150	0.78	1.041
PCB 209L	10000	6094.264	61		25-150	1.18	1.070
PCB 28L	10000	9552.892	96		30-135	1.06	0.932
PCB 111L	10000	9361.388	94		30-135	1.56	1.079
PCB 178L	10000	9069.024	91		30-135	1.01	1.011



Accuracy and Precision

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: E1000812
Date Analyzed: 8/9/10

Lab Control Sample Summary
Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method

Units: pg/L
Basis: NA

Extraction Lot: 116304

Analyte Name	Lab Control Sample EQ1000375-02			Duplicate Lab Control Sample EQ1000375-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
PCB 1	5800	5000	116	6170	5000	123	50 - 150	6	50
PCB 3	5880	5000	118	6270	5000	125	50 - 150	6	50
PCB 4	5330	5000	107	5750	5000	115	50 - 150	7	50
PCB 15	6360	5000	127	6900	5000	138	50 - 150	8	50
PCB 19	5460	5000	109	5910	5000	118	50 - 150	8	50
PCB 37	5960	5000	119	6450	5000	129	50 - 150	8	50
PCB 54	5370	5000	107	6150	5000	123	50 - 150	14	50
PCB 81	5780	5000	116	6230	5000	125	50 - 150	7	50
PCB 77	5760	5000	115	6050	5000	121	50 - 150	5	50
PCB 104	5320	5000	106	5740	5000	115	50 - 150	8	50
PCB 123	5730	5000	115	6120	5000	122	50 - 150	6	50
PCB 118	5520	5000	110	5890	5000	118	50 - 150	7	50
PCB 114	5630	5000	113	6030	5000	121	50 - 150	7	50
PCB 105	5830	5000	117	6220	5000	124	50 - 150	6	50
PCB 126	5550	5000	111	5960	5000	119	50 - 150	7	50
PCB 155	5290	5000	106	5590	5000	112	50 - 150	6	50
PCB 167	5880	5000	118	6330	5000	127	50 - 150	7	50
PCBs 156 + 157	11500	10000	115	12200	10000	122	50 - 150	6	50
PCB 169	5860	5000	117	6280	5000	126	50 - 150	7	50
PCB 188	5090	5000	102	5350	5000	107	50 - 150	5	50
PCB 189	5760	5000	115	6070	5000	121	50 - 150	5	50
PCB 202	5540	5000	111	6000	5000	120	50 - 150	8	50
PCB 205	5100	5000	102	5400	5000	108	50 - 150	6	50
PCB 208	5590	5000	112	5940	5000	119	50 - 150	6	50
PCB 206	5620	5000	112	5850	5000	117	50 - 150	4	50
PCB 209	6240	5000	125	6820	5000	136	50 - 150	8	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ1000375-02

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223471
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2010
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	5800		3.48	1000	3.22	1.001	1
PCB 3	5880		4.16	1000	3.13	1.001	1
PCB 4	5330		47.7	2500	1.52	1.001	1
PCB 15	6360		30.9	2500	1.58	1.001	1
PCB 19	5460		11.3	500	1.06	1.001	1
PCB 37	5960		5.56	2500	1.07	1.001	1
PCB 54	5370		2.69	2500	0.71	1.001	1
PCB 81	5780		4.48	2500	0.80	1.001	1
PCB 77	5760		4.56	2500	0.81	1.001	1
PCB 104	5320		2.91	2500	1.58	1.001	1
PCB 123	5730		14.0	2500	1.56	1.000	1
PCB 118	5520		13.2	2500	1.61	1.000	1
PCB 114	5630		13.8	2500	1.62	1.001	1
PCB 105	5830		14.5	1000	1.60	1.001	1
PCB 126	5550		13.9	2500	1.56	1.000	1
PCB 155	5290		3.24	5000	1.21	1.000	1
PCB 167	5880		3.70	2500	1.26	1.001	1
PCBs 156 + 157	11500		5.36	2500	1.26	1.000	1
PCB 169	5860		4.10	2500	1.28	1.001	1
PCB 188	5090		2.30	2500	1.00	1.000	1
PCB 189	5760		3.06	2500	1.02	1.001	1
PCB 202	5540		3.75	5000	0.88	1.001	1
PCB 205	5100		3.66	5000	0.86	1.000	1
PCB 208	5590		3.80	5000	0.78	1.001	1
PCB 206	5620		8.69	5000	0.75	1.001	1
PCB 209	6240		3.58	2500	1.17	1.001	1
Total MonoCB	11900		3.82	1000	3.22		1
Total DiCB	14000		30.9	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ1000375-02

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223471
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2010
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total TriCB	12300		5.56	2500			1
Total TetraCB	17900		2.69	2500			1
Total PentaCB	33900		2.91	5000			1
Total HexaCB	28800		3.24	5000			1
Total HeptaCB	11100		2.02	5000			1
Total OctaCB	10800		3.72	5000	0.88		1
Total NonaCB	11300		4.80	5000			1
Total PCBs	158000		2.02	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ1000375-02

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223471
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2010
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	7848.140	78		15-150	3.12	0.746
PCB 3L	10000	7804.317	78		15-150	3.16	0.874
PCB 4L	10000	7317.266	73		25-150	1.52	0.887
PCB 15L	10000	8336.867	83		25-150	1.59	1.225
PCB 19L	10000	7329.493	73		25-150	1.02	1.066
PCB 37L	10000	9853.041	99		25-150	1.05	1.083
PCB 54L	10000	7812.377	78		25-150	0.78	0.831
PCB 81L	10000	9891.648	99		25-150	0.79	1.332
PCB 77L	10000	10233.491	102		25-150	0.80	1.352
PCB 104L	10000	7781.904	78		25-150	1.45	0.826
PCB 123L	10000	8474.619	85		25-150	1.55	1.137
PCB 118L	10000	8546.992	85		25-150	1.56	1.146
PCB 114L	10000	8511.235	85		25-150	1.60	1.161
PCB 105L	10000	8613.949	86		25-150	1.58	1.181
PCB 126L	10000	10114.105	101		25-150	1.57	1.272
PCB 155L	10000	7765.131	78		25-150	1.18	0.802
PCB 167L	10000	7599.514	76		25-150	1.26	1.071
PCBs 156L + 157L	20000	16213.124	81		25-150	1.28	1.099
PCB 169L	10000	8583.589	86		25-150	1.27	1.175
PCB 188L	10000	7673.835	77		25-150	1.03	0.731
PCB 189L	10000	7683.784	77		25-150	1.05	0.962
PCB 202L	10000	6965.990	70		25-150	0.89	0.830
PCB 205L	10000	8822.672	88		25-150	0.89	1.009
PCB 208L	10000	8351.503	84		25-150	0.79	0.952
PCB 206L	10000	6725.261	67		25-150	0.78	1.041
PCB 209L	10000	5848.016	58		25-150	1.20	1.070
PCB 28L	10000	8565.244	86		30-135	1.05	0.932
PCB 111L	10000	8627.472	86		30-135	1.54	1.078
PCB 178L	10000	8125.060	81		30-135	1.03	1.010

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ1000375-03

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223472
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2118
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	6170		4.13	1000	3.16	1.000	1
PCB 3	6270		4.74	1000	3.21	1.001	1
PCB 4	5750		57.9	2500	1.56	1.001	1
PCB 15	6900		49.3	2500	1.60	1.001	1
PCB 19	5910		8.83	500	1.02	1.001	1
PCB 37	6450		9.03	2500	1.06	1.001	1
PCB 54	6150		2.83	2500	0.73	1.001	1
PCB 81	6230		4.21	2500	0.80	1.001	1
PCB 77	6050		4.34	2500	0.80	1.001	1
PCB 104	5740		4.08	2500	1.54	1.000	1
PCB 123	6120		16.8	2500	1.59	1.001	1
PCB 118	5890		15.7	2500	1.61	1.000	1
PCB 114	6030		16.6	2500	1.58	1.000	1
PCB 105	6220		17.3	1000	1.61	1.001	1
PCB 126	5960		16.4	2500	1.60	1.001	1
PCB 155	5590		4.17	5000	1.20	1.001	1
PCB 167	6330		11.5	2500	1.24	1.000	1
PCBs 156 + 157	12200		16.9	2500	1.25	1.000	1
PCB 169	6280		12.4	2500	1.28	1.000	1
PCB 188	5350		2.45	2500	1.00	1.001	1
PCB 189	6070		5.32	2500	0.99	1.000	1
PCB 202	6000		3.88	5000	0.86	1.000	1
PCB 205	5400		3.82	5000	0.86	1.001	1
PCB 208	5940		6.14	5000	0.77	1.001	1
PCB 206	5850		10.2	5000	0.77	1.000	1
PCB 209	6820		5.19	2500	1.21	1.001	1
Total MonoCB	12700		4.44	1000	3.16		1
Total DiCB	14800		49.3	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ1000375-03

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223472
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2118
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total TriCB	13200	6.24	2500			1
Total TetraCB	19300	2.83	2500			1
Total PentaCB	36300	4.02	5000			1
Total HexaCB	30600	4.17	5000			1
Total HeptaCB	11700	2.81	5000			1
Total OctaCB	11500	3.87	5000	0.86		1
Total NonaCB	11900	6.30	5000			1
Total PCBs	169000	2.81	5000			1

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ1000375-03

Service Request: E1000812
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223472
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2118
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	7640.755	76		15-150	3.07	0.747
PCB 3L	10000	7763.998	78		15-150	3.21	0.873
PCB 4L	10000	7043.549	70		25-150	1.48	0.887
PCB 15L	10000	8356.431	84		25-150	1.62	1.225
PCB 19L	10000	7123.570	71		25-150	1.04	1.066
PCB 37L	10000	9830.834	98		25-150	1.04	1.083
PCB 54L	10000	7377.391	74		25-150	0.78	0.831
PCB 81L	10000	10109.375	101		25-150	0.79	1.332
PCB 77L	10000	10497.282	105		25-150	0.79	1.352
PCB 104L	10000	7679.289	77		25-150	1.48	0.826
PCB 123L	10000	8496.853	85		25-150	1.58	1.137
PCB 118L	10000	8518.432	85		25-150	1.62	1.146
PCB 114L	10000	8492.357	85		25-150	1.61	1.162
PCB 105L	10000	8720.728	87		25-150	1.60	1.182
PCB 126L	10000	10278.268	103		25-150	1.57	1.272
PCB 155L	10000	7736.522	77		25-150	1.14	0.802
PCB 167L	10000	7707.366	77		25-150	1.28	1.071
PCBs 156L + 157L	20000	16322.040	82		25-150	1.26	1.099
PCB 169L	10000	8671.651	87		25-150	1.28	1.176
PCB 188L	10000	7097.078	71		25-150	1.02	0.731
PCB 189L	10000	7427.702	74		25-150	1.05	0.962
PCB 202L	10000	6434.701	64		25-150	0.89	0.830
PCB 205L	10000	8442.558	84		25-150	0.89	1.009
PCB 208L	10000	7740.399	77		25-150	0.82	0.952
PCB 206L	10000	6328.936	63		25-150	0.78	1.041
PCB 209L	10000	5440.878	54		25-150	1.13	1.069
PCB 28L	10000	8709.180	87		30-135	1.04	0.932
PCB 111L	10000	8696.618	87		30-135	1.56	1.079
PCB 178L	10000	8228.097	82		30-135	1.02	1.010



Chain of Custody

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Columbia Analytical Services, Inc.
Cooler Receipt Form

Client/Project: Calscience Environmental Services Service Request: E1000812
 Received: 07/24/10; 1200 Opened (Date/Time): 7/24/10; 1200 By: CD for GC

1. Samples were received via? US Mail Fedex UPS DHL Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Other _____ NA
3. Were custody seals present on coolers? Y N If yes, how many and where? 1-front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? NA Y N If not, record air bill number: 798880656154
5. Temperature of cooler(s) upon receipt (°C): 0
6. If applicable, list Chain of Custody numbers: _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Packing material used: Inserts Bubble Wrap Blue Ice Wet Ice Sleeves Other _____
9. Were the correct types of bottles used for the tests indicated? Y N
 Did all bottles arrive in good condition (i.e. unbroken, out of temp.)? Indicate in the table below. Y N

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Initials
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

10. Were all bottle labels complete (i.e. analysis, ID, etc.)? Y N
 Did all bottle labels and tags agree with custody papers? Indicate in the table below. Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

11. Additional notes, discrepancies, and resolutions:

Sample Acceptance Policy

Custody Seals (desirable, mandatory if specified in SAP):

- ✓ On outside of cooler
- ✓ Seals intact, signed and dated

Chain-of-Custody documentation (mandatory):

- ✓ Properly filled out in ink & signed by the client
- ✓ Sign and date the coc for CAS/HOU upon cooler receipt
- ✓ Coc must list method number
- ✓ If no coc was submitted with the samples, complete a CAS/HOU coc for the client

Sample Integrity (mandatory):

- ✓ Sample containers must arrive in good condition (not broken or leaking)
- ✓ Sample IDs on the bottles must match the sample IDs on the coc
- ✓ The correct type of sample bottle must be used for the method requested
- ✓ The correct number of sample containers received must agree with the documentation on the coc
- ✓ The correct sample matrix must appear on the coc
- ✓ An appropriate sample volume or weight must be received

Preservatives (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C
- ✓ TO-9A air samples can be shipped and stored at ambient temperature, ~23°C, Method 23 samples must be shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the coc
- ✓ Notify a Project Chemist if any samples are outside the acceptance temperature or have compromised sample integrity – the client must decide re: replacement sample submittal or continue with the analysis
- ✓ pH and chlorine adjustments must be performed as required for the applicable methods

Cooler Receipt Form, CRF (mandatory):

- ✓ Cooler receipt forms must be completed for each coc & SR# and at the time of cooler receipt
- ✓ Sample integrity issues must be documented on the CRF
- ✓ A scan of the carrier and the airbill number must be recorded in CAS LIMS

Sample Integrity Issues/Resolutions (mandatory):

- ✓ Sample integrity issues are documented on the CRF and given to the Project Chemist for resolution with the client
- ✓ Client resolution is documented in writing (typically email or on the CRF) and filed in the project folder(s)

Service Request Summary

Folder #: E1000812
Client Name: Calscience Environmental Laboratory
Project Name: Teledyne Ryan
Project Number:

Report To: Brian Hitchens
 GeoSyntec Consultants
 10875 Rancho Bernardo Road
 Suite 200
 San Diego, CA 92127

Phone Number: 858 674-6559

Cell Number:

Fax Number:

E-mail: bhitchens@geosyntec.com

Project Chemist: Nicole Brown
Originating Lab: HOUSTON
Logged By: CDONOVAN
Date Received: 7/24/10
Internal Due Date: 8/22/10
QAP: 1668 100uL FV
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

8 - 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: E-Disposed, E-WIC01

CAS Samp No	Client Samp No.	Matrix	Collected	1668A/Cl Biphen Cong	SVM
E1000812-001	MWCL-2	Water	7/22/10 0935		IV
E1000812-002	MWCL-2-B	Water	7/22/10 0935		IV
E1000812-003	MWCL-6	Water	7/22/10 1200		IV
E1000812-004	MWCL-8R	Water	7/22/10 1414		IV

Folder Comments:

Report should be like the one for service request E1000028.

Filter through 0.1 micron filter prior to extraction.

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	Cl Biphen Cong/1668A	1-4, 0	RE 08/03/10 ASB

August 17, 2010

Service Request No: E1000817

Chris Lieder
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

Laboratory Results for: Teledyne Ryan

Dear Chris:

Enclosed are the results of the sample(s) submitted to our laboratory on July 27, 2010. For your reference, these analyses have been assigned our service request number **E1000817**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the final complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2959. You may also contact me via email at NBrown@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Nicole Brown
Project Manager

Page 1 of _____



Certificate of Analysis

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COLUMBIA ANALYTICAL SERVICES, INC

Client:	Geosyntec Consultants	Service Request No.:	E1000817
Project:	Teledyne Ryan	Date Received:	07/27/10
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One water sample was received for analysis at Columbia Analytical Services on 07/27/10.

The sample was received at 2°C in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

B flags – Method Blanks

The Method Blank EQ1000375-01 contained low levels of various compounds at or below the Method Reporting Limit (MRL).

MS/MSD

EQ1000196: Laboratory Control Spike/Laboratory Control Spike Duplicate (LCS/LCSD) samples were analyzed and reported in lieu of an MS/MSD for this extraction batch. The batch quality control criteria were met.

Detection Limits

Detection limits are calculated for each congener in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Approved by _____ Date 08/23/10

Xiangqiu Liang, Laboratory Director

Client: Geosyntec Consultants
Project: Teledyne Ryan

Service Request: E1000817

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E1000817-001	MWCL-4	7/23/10	11:44

Superset Summary

Service Request: E1000817

SuperSet Reference: 10-0000151698 rev 00

1668A/Cl Biphen Cong

Calibrations: 10/19/09

Data Files:

<i>Raw Data</i>	<i>Begin CCAL</i>	<i>Method Blank</i>	<i>Lab ID</i>
U223465	U223464	U223465	EQ1000375-01
U223471	U223468	U223465	EQ1000375-02
U223472	U223468	U223465	EQ1000375-03
U223477	U223468	U223465	E1000817-001

Laboratory Certifications 2010-2011

STATE/PROGRAM	AGENCY	CERTIFICATION ID	EXP DATE
ARIZONA	AZ-DHS	AZ0725	05/27/11
ARKANSAS	ADEQ	10-035-0	06/16/11
CALIFORNIA	CA-ELAP	2452	02/28/11
DoD ELAP	A2LA	2897.01	11/30/11
FLORIDA/NELAP	FL-DOHS	E87611	06/30/11
HAWAII	HI-DOH	N/A	06/30/11
ILLINOIS/NELAP	IL-EPA	002380	10/06/10
ISO 17025	A2LA	2897.01	11/30/11
LOUISIANA/NELAP	LELAP	03048	06/30/11
LOUISIANA/NELAP	LDHH	LA100032	12/31/10
MAINE	ME-DOHS	2010041	06/05/12
MICHIGAN	MIDEQ	9971	06/30/11
MINNESOTA	MDH	048-999-427	12/31/10
NEVADA	NDEP	TX014112010A	07/31/10
NEW JERSEY	NJDEP	TX008	06/30/11
NEW MEXICO	NMED-DWB	N/A	06/30/11
NEW YORK/NELAP	NY-DOH	11707	04/01/11
OKLAHOMA	OKDEQ	2009-25	08/31/10
OREGON/NELAP	ORELAP	TX200002-006	03/24/10
PENNSYLVANIA/NELAP	PLAP	002	06/30/11
TENNESSEE	TNDEC	04016	06/30/11
TEXAS/NELAP	TCEQ	T104704216-10-1	06/30/11
UTAH/NELAP	UTELCP	COLU2	06/30/11
SOIL IMPORT PERMIT	USDA	P330-09-00067	03/27/12
WASHINGTON/NELAP	WA-Ecology	C1855	11/14/10
WEST VIRGINIA	WVDEP	347	06/30/11

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent Recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-Noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – PCB Congeners

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample
- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range
- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL)
- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.
- **U** Indicates the compound was analyzed and not detected
- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.
- **ND** Indicates concentration is reported as 'Not Detected'
- **S** Peak is saturated; data not reportable
- **Q** Lock-mass interference by ether compounds
- **X** See case narrative

COLUMBIA ANALYTICAL SERVICES, INC. – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID

DB-5

DB-225

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 08/12/10

Anal yst: *[Signature]*

Sampl es: 001

Second Level - Data Review – to be filled by person doing peer review

Date: 08/13/10

Anal yst: *[Signature]*

Sampl es: 001



Analytical Results

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COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E1000817-001

Service Request: E1000817
Date Collected: 7/23/10 1144
Date Received: 7/27/10
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1020mL
Data File Name: U223477
ICAL Date: 10/19/09

Date Analyzed: 8/10/10 0259
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	157	BJ	7.02	2450	1.20	1.000	1
Total MonoCB	129	J	7.22	980	3.34		1
Total DiCB	2850		83.9	2450			1
Total TriCB	1150	J	7.27	2450			1
Total TetraCB	1470	J	5.07	2450			1
Total PentaCB	617	J	5.67	4900			1
Total HexaCB	185	J	3.46	4900			1
Total HeptaCB	30.8	J	5.86	4900			1
Total OctaCB	24.9	J	4.78	4900	0.95		1
Total NonaCB	15.5	J	4.19	4900			1
Total PCBs	6630		3.46	4900			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E1000817-001

Service Request: E1000817
Date Collected: 7/23/10 1144
Date Received: 7/27/10
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1020mL
Data File Name: U223477
ICAL Date: 10/19/09

Date Analyzed: 8/10/10 0259
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	3492.746	35		15-150	3.10	0.746
PCB 3L	10000	3595.558	36		15-150	3.29	0.873
PCB 4L	10000	3126.347	31		25-150	1.54	0.887
PCB 15L	10000	4030.935	40		25-150	1.62	1.225
PCB 19L	10000	3026.897	30		25-150	0.98	1.066
PCB 37L	10000	5461.718	55		25-150	1.05	1.083
PCB 54L	10000	3063.283	31		25-150	0.79	0.830
PCB 81L	10000	5984.980	60		25-150	0.79	1.332
PCB 77L	10000	6456.026	65		25-150	0.79	1.352
PCB 104L	10000	2794.823	28		25-150	1.52	0.826
PCB 123L	10000	4856.278	49		25-150	1.61	1.137
PCB 118L	10000	5011.592	50		25-150	1.59	1.146
PCB 114L	10000	4938.251	49		25-150	1.58	1.162
PCB 105L	10000	5265.624	53		25-150	1.61	1.182
PCB 126L	10000	6350.140	64		25-150	1.56	1.272
PCB 155L	10000	2907.856	29		25-150	1.15	0.802
PCB 167L	10000	4558.914	46		25-150	1.27	1.071
PCBs 156L + 157L	20000	9981.520	50		25-150	1.30	1.099
PCB 169L	10000	5411.407	54		25-150	1.27	1.176
PCB 188L	10000	3600.295	36		25-150	1.03	0.731
PCB 189L	10000	4834.815	48		25-150	1.05	0.962
PCB 202L	10000	3820.892	38		25-150	0.90	0.830
PCB 205L	10000	5393.075	54		25-150	0.89	1.009
PCB 208L	10000	4846.873	48		25-150	0.75	0.952
PCB 206L	10000	4139.033	41		25-150	0.80	1.040
PCB 209L	10000	3494.575	35		25-150	1.18	1.069
PCB 28L	10000	8139.210	81		30-135	1.06	0.932
PCB 111L	10000	8105.214	81		30-135	1.56	1.078
PCB 178L	10000	7426.719	74		30-135	1.02	1.010

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ1000375-01

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223465
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 1312
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223464

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total MonoCB	128	J	2.92	1000	3.10		1
Total DiCB	2380	J	12.7	2500			1
Total TriCB	1050	J	3.05	2500			1
Total TetraCB	1060	J	1.56	2500			1
Total PentaCB	519	J	3.17	5000			1
Total HexaCB	171	J	2.31	5000			1
Total HeptaCB	33.0	J	2.79	5000			1
Total OctaCB	44.7	J	2.70	5000	0.78		1
Total NonaCB	38.6	J	3.46	5000			1
PCB 209	157	BJ	7.02	2450	1.20	1.000	1
Total PCBs	5680		1.56	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ1000375-01

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223465
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 1312
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223464

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	9408.067	94		15-150	3.06	0.747
PCB 3L	10000	9335.421	93		15-150	3.18	0.873
PCB 4L	10000	8620.929	86		25-150	1.47	0.887
PCB 15L	10000	9607.946	96		25-150	1.59	1.225
PCB 19L	10000	8624.568	86		25-150	1.05	1.066
PCB 37L	10000	11083.618	111		25-150	1.05	1.082
PCB 54L	10000	9614.744	96		25-150	0.77	0.831
PCB 81L	10000	11470.966	115		25-150	0.80	1.332
PCB 77L	10000	11731.504	117		25-150	0.80	1.352
PCB 104L	10000	8805.763	88		25-150	1.57	0.826
PCB 123L	10000	9489.767	95		25-150	1.58	1.137
PCB 118L	10000	10791.361	108		25-150	1.56	1.146
PCB 114L	10000	9905.719	99		25-150	1.57	1.162
PCB 105L	10000	9774.203	98		25-150	1.60	1.182
PCB 126L	10000	11676.281	117		25-150	1.58	1.273
PCB 155L	10000	8801.491	88		25-150	1.18	0.803
PCB 167L	10000	8829.195	88		25-150	1.29	1.071
PCBs 156L + 157L	20000	18984.672	95		25-150	1.26	1.099
PCB 169L	10000	10079.736	101		25-150	1.28	1.176
PCB 188L	10000	8145.567	81		25-150	1.02	0.731
PCB 189L	10000	8287.786	83		25-150	1.04	0.962
PCB 202L	10000	7298.690	73		25-150	0.88	0.830
PCB 205L	10000	9287.068	93		25-150	0.88	1.009
PCB 208L	10000	8756.757	88		25-150	0.77	0.952
PCB 206L	10000	7318.163	73		25-150	0.78	1.041
PCB 209L	10000	6094.264	61		25-150	1.18	1.070
PCB 28L	10000	9552.892	96		30-135	1.06	0.932
PCB 111L	10000	9361.388	94		30-135	1.56	1.079
PCB 178L	10000	9069.024	91		30-135	1.01	1.011



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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: E1000817
Date Analyzed: 8/9/10

**Lab Control Sample Summary
 Chlorinated Biphenyl Congeners by HRGC/HRMS**

Analytical Method: 1668A
Prep Method: Method

Units: pg/L
Basis: NA

Extraction Lot: 116304

Analyte Name	Lab Control Sample EQ1000375-02			Duplicate Lab Control Sample EQ1000375-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
PCB 1	5800	5000	116	6170	5000	123	50 - 150	6	50
PCB 3	5880	5000	118	6270	5000	125	50 - 150	6	50
PCB 4	5330	5000	107	5750	5000	115	50 - 150	7	50
PCB 15	6360	5000	127	6900	5000	138	50 - 150	8	50
PCB 19	5460	5000	109	5910	5000	118	50 - 150	8	50
PCB 37	5960	5000	119	6450	5000	129	50 - 150	8	50
PCB 54	5370	5000	107	6150	5000	123	50 - 150	14	50
PCB 81	5780	5000	116	6230	5000	125	50 - 150	7	50
PCB 77	5760	5000	115	6050	5000	121	50 - 150	5	50
PCB 104	5320	5000	106	5740	5000	115	50 - 150	8	50
PCB 123	5730	5000	115	6120	5000	122	50 - 150	6	50
PCB 118	5520	5000	110	5890	5000	118	50 - 150	7	50
PCB 114	5630	5000	113	6030	5000	121	50 - 150	7	50
PCB 105	5830	5000	117	6220	5000	124	50 - 150	6	50
PCB 126	5550	5000	111	5960	5000	119	50 - 150	7	50
PCB 155	5290	5000	106	5590	5000	112	50 - 150	6	50
PCB 167	5880	5000	118	6330	5000	127	50 - 150	7	50
PCBs 156 + 157	11500	10000	115	12200	10000	122	50 - 150	6	50
PCB 169	5860	5000	117	6280	5000	126	50 - 150	7	50
PCB 188	5090	5000	102	5350	5000	107	50 - 150	5	50
PCB 189	5760	5000	115	6070	5000	121	50 - 150	5	50
PCB 202	5540	5000	111	6000	5000	120	50 - 150	8	50
PCB 205	5100	5000	102	5400	5000	108	50 - 150	6	50
PCB 208	5590	5000	112	5940	5000	119	50 - 150	6	50
PCB 206	5620	5000	112	5850	5000	117	50 - 150	4	50
PCB 209	6240	5000	125	6820	5000	136	50 - 150	8	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ1000375-02

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223471
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2010
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	5800		3.48	1000	3.22	1.001	1
PCB 3	5880		4.16	1000	3.13	1.001	1
PCB 4	5330		47.7	2500	1.52	1.001	1
PCB 15	6360		30.9	2500	1.58	1.001	1
PCB 19	5460		11.3	500	1.06	1.001	1
PCB 37	5960		5.56	2500	1.07	1.001	1
PCB 54	5370		2.69	2500	0.71	1.001	1
PCB 81	5780		4.48	2500	0.80	1.001	1
PCB 77	5760		4.56	2500	0.81	1.001	1
PCB 104	5320		2.91	2500	1.58	1.001	1
PCB 123	5730		14.0	2500	1.56	1.000	1
PCB 118	5520		13.2	2500	1.61	1.000	1
PCB 114	5630		13.8	2500	1.62	1.001	1
PCB 105	5830		14.5	1000	1.60	1.001	1
PCB 126	5550		13.9	2500	1.56	1.000	1
PCB 155	5290		3.24	5000	1.21	1.000	1
PCB 167	5880		3.70	2500	1.26	1.001	1
PCBs 156 + 157	11500		5.36	2500	1.26	1.000	1
PCB 169	5860		4.10	2500	1.28	1.001	1
PCB 188	5090		2.30	2500	1.00	1.000	1
PCB 189	5760		3.06	2500	1.02	1.001	1
PCB 202	5540		3.75	5000	0.88	1.001	1
PCB 205	5100		3.66	5000	0.86	1.000	1
PCB 208	5590		3.80	5000	0.78	1.001	1
PCB 206	5620		8.69	5000	0.75	1.001	1
PCB 209	6240		3.58	2500	1.17	1.001	1
Total MonoCB	11900		3.82	1000	3.22		1
Total DiCB	14000		30.9	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ1000375-02

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223471
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2010
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total TriCB	12300	5.56	2500			1
Total TetraCB	17900	2.69	2500			1
Total PentaCB	33900	2.91	5000			1
Total HexaCB	28800	3.24	5000			1
Total HeptaCB	11100	2.02	5000			1
Total OctaCB	10800	3.72	5000	0.88		1
Total NonaCB	11300	4.80	5000			1
Total PCBs	158000	2.02	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ1000375-02

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223471
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2010
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	7848.140	78		15-150	3.12	0.746
PCB 3L	10000	7804.317	78		15-150	3.16	0.874
PCB 4L	10000	7317.266	73		25-150	1.52	0.887
PCB 15L	10000	8336.867	83		25-150	1.59	1.225
PCB 19L	10000	7329.493	73		25-150	1.02	1.066
PCB 37L	10000	9853.041	99		25-150	1.05	1.083
PCB 54L	10000	7812.377	78		25-150	0.78	0.831
PCB 81L	10000	9891.648	99		25-150	0.79	1.332
PCB 77L	10000	10233.491	102		25-150	0.80	1.352
PCB 104L	10000	7781.904	78		25-150	1.45	0.826
PCB 123L	10000	8474.619	85		25-150	1.55	1.137
PCB 118L	10000	8546.992	85		25-150	1.56	1.146
PCB 114L	10000	8511.235	85		25-150	1.60	1.161
PCB 105L	10000	8613.949	86		25-150	1.58	1.181
PCB 126L	10000	10114.105	101		25-150	1.57	1.272
PCB 155L	10000	7765.131	78		25-150	1.18	0.802
PCB 167L	10000	7599.514	76		25-150	1.26	1.071
PCBs 156L + 157L	20000	16213.124	81		25-150	1.28	1.099
PCB 169L	10000	8583.589	86		25-150	1.27	1.175
PCB 188L	10000	7673.835	77		25-150	1.03	0.731
PCB 189L	10000	7683.784	77		25-150	1.05	0.962
PCB 202L	10000	6965.990	70		25-150	0.89	0.830
PCB 205L	10000	8822.672	88		25-150	0.89	1.009
PCB 208L	10000	8351.503	84		25-150	0.79	0.952
PCB 206L	10000	6725.261	67		25-150	0.78	1.041
PCB 209L	10000	5848.016	58		25-150	1.20	1.070
PCB 28L	10000	8565.244	86		30-135	1.05	0.932
PCB 111L	10000	8627.472	86		30-135	1.54	1.078
PCB 178L	10000	8125.060	81		30-135	1.03	1.010

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ1000375-03

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223472
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2118
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	6170		4.13	1000	3.16	1.000	1
PCB 3	6270		4.74	1000	3.21	1.001	1
PCB 4	5750		57.9	2500	1.56	1.001	1
PCB 15	6900		49.3	2500	1.60	1.001	1
PCB 19	5910		8.83	500	1.02	1.001	1
PCB 37	6450		9.03	2500	1.06	1.001	1
PCB 54	6150		2.83	2500	0.73	1.001	1
PCB 81	6230		4.21	2500	0.80	1.001	1
PCB 77	6050		4.34	2500	0.80	1.001	1
PCB 104	5740		4.08	2500	1.54	1.000	1
PCB 123	6120		16.8	2500	1.59	1.001	1
PCB 118	5890		15.7	2500	1.61	1.000	1
PCB 114	6030		16.6	2500	1.58	1.000	1
PCB 105	6220		17.3	1000	1.61	1.001	1
PCB 126	5960		16.4	2500	1.60	1.001	1
PCB 155	5590		4.17	5000	1.20	1.001	1
PCB 167	6330		11.5	2500	1.24	1.000	1
PCBs 156 + 157	12200		16.9	2500	1.25	1.000	1
PCB 169	6280		12.4	2500	1.28	1.000	1
PCB 188	5350		2.45	2500	1.00	1.001	1
PCB 189	6070		5.32	2500	0.99	1.000	1
PCB 202	6000		3.88	5000	0.86	1.000	1
PCB 205	5400		3.82	5000	0.86	1.001	1
PCB 208	5940		6.14	5000	0.77	1.001	1
PCB 206	5850		10.2	5000	0.77	1.000	1
PCB 209	6820		5.19	2500	1.21	1.001	1
Total MonoCB	12700		4.44	1000	3.16		1
Total DiCB	14800		49.3	2500			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ1000375-03

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223472
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2118
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Analyte Name	Result Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total TriCB	13200	6.24	2500			1
Total TetraCB	19300	2.83	2500			1
Total PentaCB	36300	4.02	5000			1
Total HexaCB	30600	4.17	5000			1
Total HeptaCB	11700	2.81	5000			1
Total OctaCB	11500	3.87	5000	0.86		1
Total NonaCB	11900	6.30	5000			1
Total PCBs	169000	2.81	5000			1

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Calscience Environmental Laboratory
Project: Teledyne Ryan
Sample Matrix: Water
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ1000375-03

Service Request: E1000817
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U223472
ICAL Date: 10/19/09

Date Analyzed: 8/9/10 2118
Date Extracted: 8/4/10
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U223465
Cal Ver. File Name: U223468

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	7640.755	76		15-150	3.07	0.747
PCB 3L	10000	7763.998	78		15-150	3.21	0.873
PCB 4L	10000	7043.549	70		25-150	1.48	0.887
PCB 15L	10000	8356.431	84		25-150	1.62	1.225
PCB 19L	10000	7123.570	71		25-150	1.04	1.066
PCB 37L	10000	9830.834	98		25-150	1.04	1.083
PCB 54L	10000	7377.391	74		25-150	0.78	0.831
PCB 81L	10000	10109.375	101		25-150	0.79	1.332
PCB 77L	10000	10497.282	105		25-150	0.79	1.352
PCB 104L	10000	7679.289	77		25-150	1.48	0.826
PCB 123L	10000	8496.853	85		25-150	1.58	1.137
PCB 118L	10000	8518.432	85		25-150	1.62	1.146
PCB 114L	10000	8492.357	85		25-150	1.61	1.162
PCB 105L	10000	8720.728	87		25-150	1.60	1.182
PCB 126L	10000	10278.268	103		25-150	1.57	1.272
PCB 155L	10000	7736.522	77		25-150	1.14	0.802
PCB 167L	10000	7707.366	77		25-150	1.28	1.071
PCBs 156L + 157L	20000	16322.040	82		25-150	1.26	1.099
PCB 169L	10000	8671.651	87		25-150	1.28	1.176
PCB 188L	10000	7097.078	71		25-150	1.02	0.731
PCB 189L	10000	7427.702	74		25-150	1.05	0.962
PCB 202L	10000	6434.701	64		25-150	0.89	0.830
PCB 205L	10000	8442.558	84		25-150	0.89	1.009
PCB 208L	10000	7740.399	77		25-150	0.82	0.952
PCB 206L	10000	6328.936	63		25-150	0.78	1.041
PCB 209L	10000	5440.878	54		25-150	1.13	1.069
PCB 28L	10000	8709.180	87		30-135	1.04	0.932
PCB 111L	10000	8696.618	87		30-135	1.56	1.079
PCB 178L	10000	8228.097	82		30-135	1.02	1.010



Chain of Custody

19408 Park Row, Suite 320, Houston, TX 77084

Phone (713)266-1599 Fax (713)266-0130

www.caslab.com

An Employee Owned Company

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client/Project: Calscience Environmental Labs/ Teledyne Ryan Service Request: E1000817
 Received: 07/27/10; 1012 Opened (Date/Time): 7/27/10; 1012 By: CD for TL

1. Samples were received via? US Mail Fedex UPS DHL Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Other _____ NA
3. Were custody seals present on coolers? Y N If yes, how many and where? 1-front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? NA Y N If not, record air bill number: 798885317378
5. Temperature of cooler(s) upon receipt (°C): 2
6. If applicable, list Chain of Custody numbers: _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Packing material used: Inserts Bubble Wrap Blue Ice Wet Ice Sleeves Other _____
9. Were the correct types of bottles used for the tests indicated? Y N
 Did all bottles arrive in good condition (i.e. unbroken, out of temp.)? Indicate in the table below. Y N

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Initials
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

10. Were all bottle labels complete (i.e. analysis, ID, etc.)? Y N
 Did all bottle labels and tags agree with custody papers? Indicate in the table below. Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

11. Additional notes, discrepancies, and resolutions:

Sample Acceptance Policy

Custody Seals (desirable, mandatory if specified in SAP):

- ✓ On outside of cooler
- ✓ Seals intact, signed and dated

Chain-of-Custody documentation (mandatory):

- ✓ Properly filled out in ink & signed by the client
- ✓ Sign and date the coc for CAS/HOU upon cooler receipt
- ✓ Coc must list method number
- ✓ If no coc was submitted with the samples, complete a CAS/HOU coc for the client

Sample Integrity (mandatory):

- ✓ Sample containers must arrive in good condition (not broken or leaking)
- ✓ Sample IDs on the bottles must match the sample IDs on the coc
- ✓ The correct type of sample bottle must be used for the method requested
- ✓ The correct number of sample containers received must agree with the documentation on the coc
- ✓ The correct sample matrix must appear on the coc
- ✓ An appropriate sample volume or weight must be received

Preservatives (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C
- ✓ TO-9A air samples can be shipped and stored at ambient temperature, ~23°C, Method 23 samples must be shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the coc
- ✓ Notify a Project Chemist if any samples are outside the acceptance temperature or have compromised sample integrity – the client must decide re: replacement sample submittal or continue with the analysis
- ✓ pH and chlorine adjustments must be performed as required for the applicable methods

Cooler Receipt Form, CRF (mandatory):

- ✓ Cooler receipt forms must be completed for each coc & SR# and at the time of cooler receipt
- ✓ Sample integrity issues must be documented on the CRF
- ✓ A scan of the carrier and the airbill number must be recorded in CAS LIMS

Sample Integrity Issues/Resolutions (mandatory):

- ✓ Sample integrity issues are documented on the CRF and given to the Project Chemist for resolution with the client
- ✓ Client resolution is documented in writing (typically email or on the CRF) and filed in the project folder(s)

Service Request Summary

Folder #: E1000817
Client Name: Calscience Environmental Laboratory
Project Name: Teledyne Ryan
Project Number:

Report To: Chris Lieder
 GeoSyntec Consultants
 10875 Rancho Bernardo Road
 Suite 200
 San Diego, CA 92127

Phone Number: 858 674-6559 Ext. 214
Cell Number: 619-980-4558
Fax Number: 858-674-6586
E-mail: clieder@geosyntec.com

Project Chemist: Nicole Brown
Originating Lab: HOUSTON
Logged By: CDONOVAN
Date Received: 7/27/10
Internal Due Date: 8/19/10
QAP: 1668 100uL FV
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 - 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: E-WIC01

CAS Samp No	Client Samp No.	Matrix	Collected	1668A/ CI Biphen Cong	SVM
E1000817-001	MWCL-4	Water	7/23/10 1144	IV	

Folder Comments:

Filter through 0.1 micron filter prior to extraction. NB 07/28/10

August 26, 2010

Analytical Report for Service Request No: K1007714

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

RE: Teledyne Ryan

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on July 23, 2010. For your reference, these analyses have been assigned our service request number K1007714.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvella@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Pradeep Divvella
Project Chemist

PD/rh

Page 1 of 494

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request No.: K1007714
Date Received: 07/23/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 07/23/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Samples notes and discussion

Per client's request, all samples were filtered through a 0.1micron filter by applying positive pressure before extraction.

Surrogate Exceptions:

The control criteria for Decachlorobiphenyl in samples BLD120-MW2-B and BLD120-MW2 were not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

Elevated Detection Limits:

Samples BLD120-MW2 and BLD120-MW2-B required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution

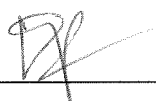
The detection limit was elevated for Aroclors 1248 and 1254 in sample BLD120-MW3. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the normal limit. The results were flagged to indicate the matrix interference.

Notes and Discussion:

Aroclor 1248 and Aroclor 1254 were identified in samples: BLD120-MW2-B and BLD120-MW2. When mixtures of PCB Aroclors are present in a sample, correct identification and quantitative analysis of the individual Aroclors can be subjective. In particular, when mixtures are present, differentiating Aroclor 1242 from Aroclor 1248 can be difficult.

A review of the sample chromatograms indicated the presence of PCB patterns or matrix components that spanned the entire elution range from Aroclor 1242 through the end of Aroclor 1260. Based on individual PCB peaks in the early portion of the chromatogram, Aroclor 1248 was identified and quantitated. Although the presence of Aroclor 1242/1248 cannot be ruled out, Aroclor 1248 appears to be the best match based on the early eluting peaks in the PCB chromatogram. Aroclor 1254 was identified based on the presence of PCB peaks eluting late in the chromatogram

Approved by _____



Date _____

8/26/10

Chain of Custody

TO: Columbia
 1317 South 13th Ave.
 Kelso, WA 98626 1800-695-7222

LABORATORY CLIENT: **Geosyntec Consultants**
 ADDRESS: **10875 Rancho Berrardo Rd, Suite 200**
 CITY: **San Diego, CA 92127**
 TEL: **858-674-6559** E-MAIL: **bhitchens@geosyntec.com**

CLIENT PROJECT NAME/NUMBER: _____
 PROJECT CONTACT: **Teledyne Ryan**
 SAMPLER(S): (PRINT) **Brian Hitchens**
 QUOTE NO.: _____
 LAB USE ONLY

TURNAROUND TIME: SAME DAY 24 HR 48HR 72 HR 5 DAYS NORMAL
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
 RWQCB REPORTING ARCHIVE SAMPLES UNTIL ____ / ____ / ____
 SPECIAL INSTRUCTIONS

*** Lab needs to filter sample through a 0.01 micron filter.

LAB USE ONLY	SAMPLE ID	SAMPLING		Matrix	#Cont	REQUESTED ANALYSIS														
		DATE	TIME			PCBs by EPA 8082 ULL*														
	BLD120-MW2	07/21/10	12:01	W	2	X														
	BLD120-MW2-B	07/21/10	12:01	W	2	X														
	BLD120-MW3	07/21/10	13:32	W	2	X														

Relinquished by: (Signature) *Wobart* (CALSCIENCE)
 Received by / Affiliation: (Signature) *Teledyne Ryan*
 Date: 7/21/10 Time: 1430
 Relinquished by: (Signature) _____
 Received by / Affiliation: (Signature) *Frank Slaw*
 Date: 7/23/10 Time: 0930

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: Geo Syntec Consultants Service Request K10 0 7714

Received: 7/23/10 Opened: 7/23/10 By: HO

1. Samples were received via? *Mail* Fed Ex *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) Cooler *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? *NA* *Y* N If yes, how many and where? _____
- If present, were custody seals intact? *Y* N If present, were they signed and dated? *Y* N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
<u>1.20</u>		<u>275</u>			<u>79375311 2462</u>		

7. Packing material used. *Inserts* *Baggies* Bubble Wrap *Gel Packs* Wet Ice *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* Y *N*
10. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* Y *N*
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* Y *N*
12. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA *Y* *N*
14. Were VOA vials received without headspace? *Indicate in the table below.* NA *Y* *N*
15. Was C12/Res negative? *NA* Y *N*

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Out of	Head-	Broke	pH	Reagent	Volume	Reagent Lot	Initials	Time
	Bottle Type	Temp	space				added	Number		

Notes, Discrepancies, & Resolutions: _____

Polychlorinated Biphenyls

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Summary Package

Sample and QC Results



Client: GeoSyntec Consultants
Project: Teledyne Ryan

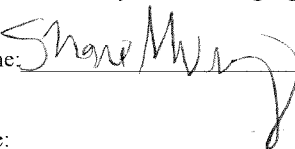
Service Request: K1007714

**Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)**

Sample Name	Lab Code	Date Collected	Date Received
BLD120-MW2	K1007714-001	07/21/2010	07/23/2010
BLD120-MW2-B	K1007714-002	07/21/2010	07/23/2010
BLD120-MW3	K1007714-003	07/21/2010	07/23/2010

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 
Date: 

Name: 
Title: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Collected: 07/21/2010
Date Received: 07/23/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: BLD120-MW2
Lab Code: K1007714-001
Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.46	0.096	100	07/28/10	08/10/10	KWG1008029	
Aroclor 1221	ND	U	0.91	0.096	100	07/28/10	08/10/10	KWG1008029	
Aroclor 1232	ND	U	0.46	0.096	100	07/28/10	08/10/10	KWG1008029	
Aroclor 1242	ND	U	0.46	0.096	100	07/28/10	08/10/10	KWG1008029	
Aroclor 1248	43	D	0.46	0.096	100	07/28/10	08/10/10	KWG1008029	
Aroclor 1254	ND	U	0.46	0.096	100	07/28/10	08/10/10	KWG1008029	
Aroclor 1260	3.3	D	0.46	0.096	100	07/28/10	08/10/10	KWG1008029	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	114	36-113	08/10/10	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Collected: 07/21/2010
Date Received: 07/23/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: BLD120-MW2-B
Lab Code: K1007714-002
Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.45	0.096	100	07/28/10	08/11/10	KWG1008029	
Aroclor 1221	ND	U	0.90	0.096	100	07/28/10	08/11/10	KWG1008029	
Aroclor 1232	ND	U	0.45	0.096	100	07/28/10	08/11/10	KWG1008029	
Aroclor 1242	ND	U	0.45	0.096	100	07/28/10	08/11/10	KWG1008029	
Aroclor 1248	63	D	0.45	0.096	100	07/28/10	08/11/10	KWG1008029	
Aroclor 1254	ND	U	0.45	0.096	100	07/28/10	08/11/10	KWG1008029	
Aroclor 1260	5.3	D	0.45	0.096	100	07/28/10	08/11/10	KWG1008029	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	164	36-113	08/11/10	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Collected: 07/21/2010
Date Received: 07/23/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: BLD120-MW3
Lab Code: K1007714-003
Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.0045	0.00096	1	07/28/10	08/10/10	KWG1008029	
Aroclor 1221	ND	U	0.0090	0.00096	1	07/28/10	08/10/10	KWG1008029	
Aroclor 1232	ND	U	0.0045	0.00096	1	07/28/10	08/10/10	KWG1008029	
Aroclor 1242	ND	U	0.0045	0.00096	1	07/28/10	08/10/10	KWG1008029	
Aroclor 1248	ND	Ui	0.013	0.013	1	07/28/10	08/10/10	KWG1008029	
Aroclor 1254	ND	Ui	0.0092	0.0092	1	07/28/10	08/10/10	KWG1008029	
Aroclor 1260	ND	U	0.0045	0.00096	1	07/28/10	08/10/10	KWG1008029	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	100	36-113	08/10/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1008029-3
Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.0025	0.00096	1	07/28/10	08/09/10	KWG1008029	
Aroclor 1221	ND	U	0.0050	0.00096	1	07/28/10	08/09/10	KWG1008029	
Aroclor 1232	ND	U	0.0025	0.00096	1	07/28/10	08/09/10	KWG1008029	
Aroclor 1242	ND	U	0.0025	0.00096	1	07/28/10	08/09/10	KWG1008029	
Aroclor 1248	ND	U	0.0025	0.00096	1	07/28/10	08/09/10	KWG1008029	
Aroclor 1254	ND	U	0.0025	0.00096	1	07/28/10	08/09/10	KWG1008029	
Aroclor 1260	ND	U	0.0025	0.00096	1	07/28/10	08/09/10	KWG1008029	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	109	36-113	08/09/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714

**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3535A
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
BLD120-MW2	K1007714-001	114 D #
BLD120-MW2-B	K1007714-002	164 D #
BLD120-MW3	K1007714-003	100
Method Blank	KWG1008029-3	109
Lab Control Sample	KWG1008029-1	113
Duplicate Lab Control Sample	KWG1008029-2	113

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 36-113

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Extracted: 07/28/2010
Date Analyzed: 08/09/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1008029

Analyte Name	Lab Control Sample KWG1008029-1 Lab Control Spike			Duplicate Lab Control Sample KWG1008029-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	0.0910	0.200	45	0.0857	0.200	43	41-113	6	30
Aroclor 1260	0.104	0.200	52	0.0992	0.200	50	47-117	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Extracted: 07/28/2010
Date Analyzed: 08/09/2010
Time Analyzed: 17:48

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1008029-3
Extraction Method: EPA 3535A
Analysis Method: 8082

File ID: J:\GC22\DATA\080910.B\0809F005.D
Instrument ID: GC22.i
Level: Low
Extraction Lot: KWG1008029

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG1008029-1	J:\GC22\DATA\080910.B\0809F006.D	08/09/10	18:12
Duplicate Lab Control Sample	KWG1008029-2	J:\GC22\DATA\080910.B\0809F007.D	08/09/10	18:36
BLD120-MW3	K1007714-003	J:\GC22\DATA\081010.B\0810F005.D	08/10/10	19:12
BLD120-MW2	K1007714-001	J:\GC22\DATA\081010.B\0810F006.D	08/10/10	19:36
BLD120-MW2-B	K1007714-002	J:\GC22\DATA\081110.B\0811F004.D	08/11/10	11:16

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Extracted: 07/28/2010
Date Analyzed: 08/09/2010
Time Analyzed: 18:12

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Lab Control Sample
Lab Code: KWG1008029-1
Extraction Method: EPA 3535A
Analysis Method: 8082

File ID: J:\GC22\DATA\080910.B\0809F006.D
Instrument ID: GC22.i
Level: Low
Extraction Lot: KWG1008029

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG1008029-3	J:\GC22\DATA\080910.B\0809F005.D	08/09/10	17:48
BLD120-MW3	K1007714-003	J:\GC22\DATA\081010.B\0810F005.D	08/10/10	19:12
BLD120-MW2	K1007714-001	J:\GC22\DATA\081010.B\0810F006.D	08/10/10	19:36
BLD120-MW2-B	K1007714-002	J:\GC22\DATA\081110.B\0811F004.D	08/11/10	11:16

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9635
Instrument ID: GC22.i

Column: DB-35MS

Level ID	File ID	Level ID	File ID
A	\\Cash1\Acqudata\GC22\data\070910.b\0709F003.D	Q	\\Cash1\Acqudata\GC22\data\070910.b\0709F019.D
B	\\Cash1\Acqudata\GC22\data\070910.b\0709F004.D	R	\\Cash1\Acqudata\GC22\data\070910.b\0709F020.D
C	\\Cash1\Acqudata\GC22\data\070910.b\0709F005.D	S	\\Cash1\Acqudata\GC22\data\070910.b\0709F021.D
D	\\Cash1\Acqudata\GC22\data\070910.b\0709F006.D	T	\\Cash1\Acqudata\GC22\data\070910.b\0709F022.D
E	\\Cash1\Acqudata\GC22\data\070910.b\0709F007.D	U	\\Cash1\Acqudata\GC22\data\070910.b\0709F023.D
F	\\Cash1\Acqudata\GC22\data\070910.b\0709F008.D	V	\\Cash1\Acqudata\GC22\data\070910.b\0709F024.D
G	\\Cash1\Acqudata\GC22\data\070910.b\0709F009.D	W	\\Cash1\Acqudata\GC22\data\070910.b\0709F025.D
H	\\Cash1\Acqudata\GC22\data\070910.b\0709F010.D	X	\\Cash1\Acqudata\GC22\data\070910.b\0709F026.D
I	\\Cash1\Acqudata\GC22\data\070910.b\0709F011.D	Y	\\Cash1\Acqudata\GC22\data\070910.b\0709F027.D
J	\\Cash1\Acqudata\GC22\data\070910.b\0709F012.D	Z	\\Cash1\Acqudata\GC22\data\070910.b\0709F028.D
K	\\Cash1\Acqudata\GC22\data\070910.b\0709F013.D	AA	\\Cash1\Acqudata\GC22\data\070910.b\0709F029.D
L	\\Cash1\Acqudata\GC22\data\070910.b\0709F014.D	AB	\\Cash1\Acqudata\GC22\data\070910.b\0709F030.D
M	\\Cash1\Acqudata\GC22\data\070910.b\0709F015.D	AC	\\Cash1\Acqudata\GC22\data\070910.b\0709F031.D
N	\\Cash1\Acqudata\GC22\data\070910.b\0709F016.D	AD	\\Cash1\Acqudata\GC22\data\070910.b\0709F032.D
O	\\Cash1\Acqudata\GC22\data\070910.b\0709F017.D		
P	\\Cash1\Acqudata\GC22\data\070910.b\0709F018.D		

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
Decachlorobiphenyl	A	0.25	2.53E+6	B	0.50	2.41E+6	C	5.0	2.35E+6	D	10	2.28E+6	E	20	2.20E+6
	F	50	2.17E+6												
Aroclor 1016 {1}	A	2.5	1.19E+5	B	5.0	1.19E+5	C	50	1.15E+5	D	100	1.06E+5	E	200	1.05E+5
	F	500	1.01E+5												
Aroclor 1016 {2}	A	2.5	56100	B	5.0	70800	C	50	72100	D	100	68200	E	200	64600
	F	500	62400												
Aroclor 1016 {3}	A	2.5	57900	B	5.0	55300	C	50	60800	D	100	56100	E	200	51900
	F	500	48500												
Aroclor 1016 {4}	A	2.5	56400	B	5.0	54500	C	50	56700	D	100	55000	E	200	51400
	F	500	49600												
Aroclor 1016 {5}	A	2.5	39300	B	5.0	41400	C	50	43800	D	100	41900	E	200	38800
	F	500	37900												
Aroclor 1260 {1}	A	2.5	1.22E+5	B	5.0	1.22E+5	C	50	1.15E+5	D	100	1.09E+5	E	200	1.04E+5
	F	500	1.01E+5												
Aroclor 1260 {2}	A	2.5	1.52E+5	B	5.0	1.51E+5	C	50	1.43E+5	D	100	1.37E+5	E	200	1.32E+5
	F	500	1.29E+5												
Aroclor 1260 {3}	A	2.5	1.01E+5	B	5.0	99300	C	50	98500	D	100	94000	E	200	91100
	F	500	89300												
Aroclor 1260 {4}	A	2.5	2.23E+5	B	5.0	2.16E+5	C	50	2.26E+5	D	100	2.21E+5	E	200	2.20E+5
	F	500	2.23E+5												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9635
Instrument ID: GC22.i

Column: DB-35MS

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
Aroclor 1260 {5}	A	2.5	1.79E+5	B	5.0	1.75E+5	C	50	1.78E+5	D	100	1.71E+5	E	200	1.67E+5
	F	500	1.68E+5												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9635
Instrument ID: GC22.i

Column: DB-35MS

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	5.8		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	6.9		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	9.1		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	7.9		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	5.3		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	5.5		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	8.2		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	6.8		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	4.9		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	1.6		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	2.9		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010
Date Analyzed: 07/10/2010

**Second Source Calibration Verification
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration ID: CAL9635
Units: ng/mL

File ID: \\Cash1\Acqudata\GC22\data\070910.b\0709F033.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F034.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F035.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F036.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F037.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F038.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F039.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F040.D
 \\Cash1\Acqudata\GC22\data\070910.b\0709F041.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016	100	91	NA	NA	NA	-9	± 20 %	NA
Aroclor 1016 {1}	100	86	111000	95500	-14	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	92	65700	60600	-8	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	86	55100	47300	-14	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	91	53900	48800	-9	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	100	40500	41600	3	NA	± 100 %	AverageRF
Aroclor 1260	100	100	NA	NA	NA	3	± 20 %	NA
Aroclor 1260 {1}	100	92	112000	104000	-8	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	96	141000	134000	-4	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	110	95500	104000	9	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	110	222000	248000	12	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	110	173000	185000	7	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9635
Instrument ID: GC22.i

Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F003.D	Q	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F019.D
B	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F004.D	R	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F020.D
C	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F005.D	S	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F021.D
D	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F006.D	T	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F022.D
E	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F007.D	U	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F023.D
F	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F008.D	V	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F024.D
G	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F009.D	W	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F025.D
H	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F010.D	X	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F026.D
I	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F011.D	Y	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F027.D
J	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F012.D	Z	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F028.D
K	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F013.D	AA	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F029.D
L	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F014.D	AB	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F030.D
M	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F015.D	AC	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F031.D
N	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F016.D	AD	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F032.D
O	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F017.D		
P	\\Cash1\Acqudata\GC22\data\070910_r.b\0709F018.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Decachlorobiphenyl	A	0.25	5.62E+6	B	0.50	5.41E+6	C	5.0	4.91E+6	D	10	4.70E+6	E	20	4.51E+6
	F	50	4.39E+6												
Aroclor 1016 {1}	A	2.5	1.74E+5	B	5.0	1.55E+5	C	50	1.37E+5	D	100	1.30E+5	E	200	1.22E+5
	F	500	1.12E+5												
Aroclor 1016 {2}	A	2.5	2.59E+5	B	5.0	2.47E+5	C	50	2.27E+5	D	100	2.18E+5	E	200	2.21E+5
	F	500	2.14E+5												
Aroclor 1016 {3}	A	2.5	1.31E+5	B	5.0	1.21E+5	C	50	1.12E+5	D	100	1.06E+5	E	200	1.01E+5
	F	500	93800												
Aroclor 1016 {4}	A	2.5	1.58E+5	B	5.0	1.43E+5	C	50	1.26E+5	D	100	1.18E+5	E	200	1.13E+5
	F	500	1.06E+5												
Aroclor 1016 {5}	A	2.5	1.31E+5	B	5.0	1.28E+5	C	50	1.22E+5	D	100	1.16E+5	E	200	1.13E+5
	F	500	1.06E+5												
Aroclor 1260 {1}	A	2.5	3.09E+5	B	5.0	3.03E+5	C	50	2.72E+5	D	100	2.61E+5	E	200	2.50E+5
	F	500	2.40E+5												
Aroclor 1260 {2}	A	2.5	4.10E+5	B	5.0	4.03E+5	C	50	3.73E+5	D	100	3.63E+5	E	200	3.57E+5
	F	500	3.52E+5												
Aroclor 1260 {3}	A	2.5	2.21E+5	B	5.0	2.27E+5	C	50	2.28E+5	D	100	2.20E+5	E	200	2.12E+5
	F	500	2.04E+5												
Aroclor 1260 {4}	A	2.5	5.74E+5	B	5.0	5.19E+5	C	50	4.92E+5	D	100	4.82E+5	E	200	4.80E+5
	F	500	4.82E+5												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9635
Instrument ID: GC22.i

Column: DB-XLB

Analyte Name	Level			Level			Level			Level					
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF			
Aroclor 1260 {5}	A	2.5	3.08E+5	B	5.0	3.08E+5	C	50	3.04E+5	D	100	2.97E+5	E	200	2.93E+5
	F	500	2.90E+5												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010

**Initial Calibration Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration ID: CAL9635
Instrument ID: GC22.i

Column: DB-XLB

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	10.0		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	16.3		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	7.8		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	12.3		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	15.6		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	7.8		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	10.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	6.6		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	4.1		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	7.3		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	2.6		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Calibration Date: 07/09/2010
Date Analyzed: 07/10/2010

**Second Source Calibration Verification
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration ID: CAL9635
Units: ng/mL

File ID: \\Cash1\Acqudata\GC22\data\070910_r.b\0709F033.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F034.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F035.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F036.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F037.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F038.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F039.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F040.D
 \\Cash1\Acqudata\GC22\data\070910_r.b\0709F041.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016	100	91	NA	NA	NA	-9	± 20 %	NA
Aroclor 1016 {1}	100	88	138000	121000	-12	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	95	231000	218000	-5	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	88	111000	97400	-12	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	89	127000	113000	-11	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	95	119000	114000	-5	NA	± 100 %	AverageRF
Aroclor 1260	100	110	NA	NA	NA	8	± 20 %	NA
Aroclor 1260 {1}	100	96	273000	263000	-4	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	93	376000	349000	-7	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	120	219000	266000	22	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	110	505000	574000	14	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	110	300000	342000	14	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008417
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHKELSO\CQU\DATA\GC22\DATA\080910.B\0809F004.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	8.0	2320000	1850000	-20 *	NA	± 20 %	AverageRF
Aroclor 1016	100	92	NA	NA	NA	-8	± 20 %	NA
Aroclor 1016 {1}	100	90	111000	100000	-10	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	94	65700	61700	-6	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	89	55100	49100	-11	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	93	53900	49900	-7	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	93	40500	37800	-7	NA	± 100 %	AverageRF
Aroclor 1260	100	89	NA	NA	NA	-11	± 20 %	NA
Aroclor 1260 {1}	100	92	112000	103000	-8	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	97	141000	136000	-3	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	84	95500	80400	-16	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	87	222000	194000	-13	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	83	173000	143000	-17	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008417
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASH\KELSO\ACQU\DATA\GC22\DATA\080910_R.B\0809F004.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	11	4920000	5230000	6	NA	± 20 %	AverageRF
Aroclor 1016	100	100	NA	NA	NA	2	± 20 %	NA
Aroclor 1016 {1}	100	95	138000	132000	-5	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	110	231000	253000	10	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	100	111000	111000	0	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	98	127000	124000	-2	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	100	119000	125000	4	NA	± 100 %	AverageRF
Aroclor 1260	100	110	NA	NA	NA	9	± 20 %	NA
Aroclor 1260 {1}	100	100	273000	281000	3	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	110	376000	413000	10	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	110	219000	241000	10	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	110	505000	555000	10	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	110	300000	340000	13	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008417
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHKELSO\ACQU\DATA\GC22\DATA\080910.B\0809F013.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	7.2	2320000	1670000	-28 *	NA	± 20 %	AverageRF
Aroclor 1016	100	92	NA	NA	NA	-8	± 20 %	NA
Aroclor 1016 {1}	100	93	111000	103000	-7	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	95	65700	62400	-5	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	90	55100	49300	-10	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	91	53900	48900	-9	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	93	40500	37800	-7	NA	± 100 %	AverageRF
Aroclor 1260	100	87	NA	NA	NA	-13	± 20 %	NA
Aroclor 1260 {1}	100	88	112000	99300	-12	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	97	141000	136000	-3	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	80	95500	76800	-20	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	86	222000	190000	-14	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	82	173000	141000	-18	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/09/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008417
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASH\KELSO\ACQU\DATA\GC22\DATA\080910_R.B\0809F013.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	9.3	4920000	4560000	-7	NA	± 20 %	AverageRF
Aroclor 1016	100	96	NA	NA	NA	-4	± 20 %	NA
Aroclor 1016 {1}	100	91	138000	126000	-9	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	110	231000	255000	11	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	91	111000	100000	-9	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	89	127000	114000	-11	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	96	119000	115000	-4	NA	± 100 %	AverageRF
Aroclor 1260	100	96	NA	NA	NA	-4	± 20 %	NA
Aroclor 1260 {1}	100	91	273000	249000	-9	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	97	376000	365000	-3	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	97	219000	212000	-3	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	96	505000	487000	-4	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	98	300000	294000	-2	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/10/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008468
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081010.B\0810F004.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	8.6	2320000	2010000	-14	NA	± 20 %	AverageRF
Aroclor 1016	100	100	NA	NA	NA	1	± 20 %	NA
Aroclor 1016 {1}	100	100	111000	115000	3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	100	65700	67000	2	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	97	55100	53400	-3	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	100	53900	54500	1	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	100	40500	42000	3	NA	± 100 %	AverageRF
Aroclor 1260	100	98	NA	NA	NA	-2	± 20 %	NA
Aroclor 1260 {1}	100	100	112000	113000	0	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	110	141000	152000	8	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	92	95500	87900	-8	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	96	222000	213000	-4	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	93	173000	161000	-7	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/10/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008468
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081010_R.B\0810F004.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	11	4920000	5640000	15	NA	± 20 %	AverageRF
Aroclor 1016	100	110	NA	NA	NA	11	± 20 %	NA
Aroclor 1016 {1}	100	100	138000	142000	3	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	120	231000	286000	24	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	110	111000	120000	9	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	110	127000	136000	7	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	110	119000	135000	13	NA	± 100 %	AverageRF
Aroclor 1260	100	120	NA	NA	NA	17	± 20 %	NA
Aroclor 1260 {1}	100	110	273000	300000	10	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	120	376000	444000	18	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	120	219000	256000	17	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	120	505000	601000	19	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	120	300000	368000	23	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/10/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008468
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081010.B\0810F010.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	8.8	2320000	2050000	-12	NA	± 20 %	AverageRF
Aroclor 1016	100	110	NA	NA	NA	5	± 20 %	NA
Aroclor 1016 {1}	100	110	111000	120000	8	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	110	65700	70000	7	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	100	55100	54800	0	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	100	53900	56100	4	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	110	40500	44200	9	NA	± 100 %	AverageRF
Aroclor 1260	100	100	NA	NA	NA	1	± 20 %	NA
Aroclor 1260 {1}	100	100	112000	116000	3	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	110	141000	156000	11	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	95	95500	90300	-5	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	99	222000	220000	-1	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	96	173000	166000	-4	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/10/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008468
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081010_R.B\0810F010.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	11	4920000	5620000	14	NA	± 20 %	AverageRF
Aroclor 1016	100	110	NA	NA	NA	11	± 20 %	NA
Aroclor 1016 {1}	100	100	138000	143000	4	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	120	231000	282000	22	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	110	111000	120000	9	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	110	127000	137000	8	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	110	119000	135000	13	NA	± 100 %	AverageRF
Aroclor 1260	100	120	NA	NA	NA	17	± 20 %	NA
Aroclor 1260 {1}	100	110	273000	300000	10	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	120	376000	447000	19	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	120	219000	256000	17	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	120	505000	601000	19	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	120	300000	367000	22	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/11/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008470
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASH1\ACQUDATA\GC22\DATA\081110.B\0811F003.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	7.4	2320000	1710000	-26 *	NA	± 20 %	AverageRF
Aroclor 1016	100	86	NA	NA	NA	-14	± 20 %	NA
Aroclor 1016 {1}	100	86	111000	95700	-14	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	87	65700	57100	-13	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	83	55100	45800	-17	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	87	53900	46800	-13	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	88	40500	35700	-12	NA	± 100 %	AverageRF
Aroclor 1260	100	83	NA	NA	NA	-17	± 20 %	NA
Aroclor 1260 {1}	100	86	112000	96300	-14	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	92	141000	130000	-8	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	78	95500	74400	-22	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	80	222000	178000	-20	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	77	173000	134000	-23	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/11/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008470
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081110_R.B\0811F003.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	10	4920000	5020000	2	NA	± 20 %	AverageRF
Aroclor 1016	100	98	NA	NA	NA	-2	± 20 %	NA
Aroclor 1016 {1}	100	92	138000	127000	-8	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	110	231000	246000	7	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	97	111000	107000	-3	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	95	127000	120000	-5	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	100	119000	120000	0	NA	± 100 %	AverageRF
Aroclor 1260	100	100	NA	NA	NA	4	± 20 %	NA
Aroclor 1260 {1}	100	99	273000	269000	-1	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	100	376000	392000	4	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	110	219000	230000	5	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	100	505000	526000	4	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	110	300000	322000	7	NA	± 100 %	AverageRF

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/11/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008470
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081110.B\0811F007.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	8.8	2320000	2040000	-12	NA	± 20 %	AverageRF
Aroclor 1016	100	100	NA	NA	NA	4	± 20 %	NA
Aroclor 1016 {1}	100	110	111000	117000	5	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	110	65700	70100	7	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	100	55100	55500	1	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	100	53900	54900	2	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	110	40500	43300	7	NA	± 100 %	AverageRF
Aroclor 1260	100	100	NA	NA	NA	1	± 20 %	NA
Aroclor 1260 {1}	100	100	112000	115000	3	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	110	141000	159000	13	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	94	95500	89400	-6	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	98	222000	217000	-2	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	98	173000	170000	-2	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714
Date Analyzed: 08/11/2010

**Continuing Calibration Verification Summary
 Polychlorinated Biphenyls (PCBs)**

Calibration Type: External Standard
Analysis Method: 8082

Calibration Date: 07/09/2010
Calibration ID: CAL9635
Analysis Lot: KWG1008470
Units: ng/mL
Column ID: DB-XLB

File ID: \\CASHI\ACQU\DATA\GC22\DATA\081110_R.B\0811F007.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	10	11	4920000	5190000	5	NA	± 20 %	AverageRF
Aroclor 1016	100	100	NA	NA	NA	0	± 20 %	NA
Aroclor 1016 {1}	100	93	138000	128000	-7	NA	± 100 %	AverageRF
Aroclor 1016 {2}	100	110	231000	250000	8	NA	± 100 %	AverageRF
Aroclor 1016 {3}	100	98	111000	109000	-2	NA	± 100 %	AverageRF
Aroclor 1016 {4}	100	99	127000	125000	-1	NA	± 100 %	AverageRF
Aroclor 1016 {5}	100	100	119000	123000	3	NA	± 100 %	AverageRF
Aroclor 1260	100	110	NA	NA	NA	7	± 20 %	NA
Aroclor 1260 {1}	100	100	273000	274000	0	NA	± 100 %	AverageRF
Aroclor 1260 {2}	100	110	376000	405000	8	NA	± 100 %	AverageRF
Aroclor 1260 {3}	100	110	219000	233000	7	NA	± 100 %	AverageRF
Aroclor 1260 {4}	100	110	505000	556000	10	NA	± 100 %	AverageRF
Aroclor 1260 {5}	100	110	300000	332000	11	NA	± 100 %	AverageRF

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714

**Analysis Run Log
 Polychlorinated Biphenyls (PCBs)**

Analysis Method: 8082

Analysis Lot: KWG1008417
Instrument ID: GC22.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0809F003.D	Instrument Blank	KWG1008417-1	8/9/2010	16:59		8/9/2010	16:59
0809F004.D	Continuing Calibration Verification	KWG1008417-2	8/9/2010	17:23		8/9/2010	17:23
0809F005.D	Method Blank	KWG1008029-3	8/9/2010	17:48		8/9/2010	17:48
0809F006.D	Lab Control Sample	KWG1008029-1	8/9/2010	18:12		8/9/2010	18:12
0809F007.D	Duplicate Lab Control Sample	KWG1008029-2	8/9/2010	18:36		8/9/2010	18:36
0809F012.D	Instrument Blank	KWG1008417-3	8/9/2010	20:38		8/9/2010	20:38
0809F013.D	Continuing Calibration Verification	KWG1008417-4	8/9/2010	21:02		8/9/2010	21:02

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714

**Analysis Run Log
 Polychlorinated Biphenyls (PCBs)**

Analysis Method: 8082

Analysis Lot: KWG1008468
Instrument ID: GC22.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0810F003.D	Instrument Blank	KWG1008468-1	8/10/2010	18:23		8/10/2010	18:23
0810F004.D	Continuing Calibration Verification	KWG1008468-2	8/10/2010	18:48		8/10/2010	18:48
0810F005.D	BLD120-MW3	K1007714-003	8/10/2010	19:12		8/10/2010	19:12
0810F006.D	BLD120-MW2	K1007714-001	8/10/2010	19:36		8/10/2010	19:36
0810F009.D	Instrument Blank	KWG1008468-3	8/10/2010	20:50		8/10/2010	20:50
0810F010.D	Continuing Calibration Verification	KWG1008468-4	8/10/2010	21:14		8/10/2010	21:14

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan

Service Request: K1007714

**Analysis Run Log
 Polychlorinated Biphenyls (PCBs)**

Analysis Method: 8082

Analysis Lot: KWG1008470
Instrument ID: GC22.i
Column: DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0811F002.D	Instrument Blank	KWG1008470-1	8/11/2010	10:28		8/11/2010	10:28
0811F003.D	Continuing Calibration Verification	KWG1008470-2	8/11/2010	10:52		8/11/2010	10:52
0811F004.D	BLD120-MW2-B	K1007714-002	8/11/2010	11:16		8/11/2010	11:16
0811F006.D	Instrument Blank	KWG1008470-3	8/11/2010	12:05		8/11/2010	12:05
0811F007.D	Continuing Calibration Verification	KWG1008470-4	8/11/2010	12:30		8/11/2010	12:30

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Extracted: 07/28/2010

**Extraction Prep Log
 Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3535A
Analysis Method: 8082

Extraction Lot: KWG1008029
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BLD120-MW2	K1007714-001	07/21/10	07/23/10	550mL	1mL	NA	
BLD120-MW2-B	K1007714-002	07/21/10	07/23/10	560mL	1mL	NA	
BLD120-MW3	K1007714-003	07/21/10	07/23/10	560mL	1mL	NA	
Method Blank	KWG1008029-3	NA	NA	1000mL	1mL	NA	
Lab Control Sample	KWG1008029-1	NA	NA	1000mL	1mL	NA	
Duplicate Lab Control Sample	KWG1008029-2	NA	NA	1000mL	1mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Collected: 07/21/2010
Date Received: 07/23/2010
Date Extracted: 07/28/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: BLD120-MW2
Lab Code: K1007714-001
Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	0.46	0.096	43	43	0.0	D	100	08/10/10
Aroclor 1260	0.46	0.096	3.3	3.4	3.0	D	100	08/10/10

COLUMBIA ANALYTICAL SERVICES, INC.

Confirmation Results

Client: GeoSyntec Consultants
Project: Teledyne Ryan
Sample Matrix: Water

Service Request: K1007714
Date Collected: 07/21/2010
Date Received: 07/23/2010
Date Extracted: 07/28/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: BLD120-MW2-B
Lab Code: K1007714-002
Extraction Method: EPA 3535A
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	MRL	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1248	0.45	0.096	63	60	4.9	D	100	08/11/10
Aroclor 1260	0.45	0.096	5.3	4.1	25.5	D	100	08/11/10