ConocoPhillips
76 Broadway
Sacramento, California 95818

September 15, 2010

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Magnesium sulfate application pilot test report**
76 Service Station No. 4186
1771 First Street
Livermore, California

Dear Mr. Wickham,

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

If you have any questions or need additional information, please contact me at (916) 558-7612.

Sincerely,

Bill Borgh

Bill Borgh
Site Manager – Risk Management and Remediation

Attachment

September 15, 2010

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RE: MAGNESIUM SULFATE APPLICATION
PILOT TEST REPORT
76 Service Station No. 4186
1771 First Street
Livermore, California

DELTA

Dear Mr. Wickham:

On behalf of ConocoPhillips Company (ConocoPhillips), Delta Consultants (Delta) is submitting this *Magnesium Sulfate Application Pilot Test Report* for 76 Station No. 4186 in Livermore, California. Approval for the work associated with the pilot test was granted in a Alameda County Environmental Health (ACEH) letter to ConocoPhillips dated May 4, 2010.

Please contact James Barnard at (916) 503-1279 if you have questions.

Sincerely,

DELTA CONSULTANTS

James B. Barnard
Project Manager

Enclosure

cc: Mr. Bill Borgh – COP (electronic copy only)

a member of: Inogen Environmental Alliance

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MAGNESIUM SULFATE APPLICATION PILOT TEST REPORT

76 SERVICE STATION NO. 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

September 15, 2010

Prepared for

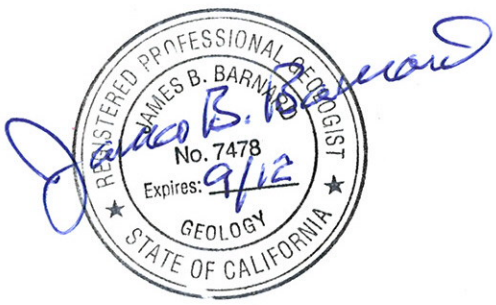
ConocoPhillips Company
76 Broadway
Sacramento, California

The material and data in this report were prepared under the supervision and direction of the undersigned.

Delta Consultants

Alan Buehler
Staff Geologist

James B. Barnard, P.G.
Project Manager
California Registered Professional Geologist No. 7478



1.0 INTRODUCTION

On behalf of ConocoPhillips, Delta has prepared this report for the 76 Service Station No. 4186 (site) located at 1771 First Street, Livermore, California (**Figure 1**). Approval for this work was granted in a letter from ACEH to ConocoPhillips dated May 4, 2010 (**Appendix A**).

The purpose of this report is to provide a summary of the pilot testing activities for enhanced in-situ bioremediation and provide results of biodegradation parameter testing at the 76 service station property.

2.0 SITE BACKGROUND

2.1 PREVIOUS ENVIRONMENTAL WORK

The site is an active 76 service station, located on the southwest corner of First Street and N Street (**Figure 1**). Two 10,000 gallon gasoline underground storage tanks (USTs), four dispenser islands, and a station building are present at the site (**Figure 2**). The site is located in a generally commercial area.

June 1996: During dispenser piping replacement activities, six soil samples were collected beneath the dispensers and product piping. Total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were below the laboratory's indicated reporting limits in all of the samples.

September 1997: A soil gas survey was conducted at the site. Six soil gas probes were advanced and samples were collected at 3 and 15 feet below ground surface (bgs) in the vicinity of the USTs, dispenser islands, and product lines. TPHg was reported in the samples at concentrations ranging from 41 to 4,500 parts per billion (ppb), benzene was reported at concentrations up to 110 ppb, and methyl tert butyl ether (MTBE) was reported at concentrations up to 8,000 ppb. The highest concentrations were reported in the area of the USTs.

June 1998: Three groundwater monitoring wells (U-1 through U-3) were installed at the site to a depth of 34 feet bgs. TPHg, benzene, and MTBE were below laboratory reporting limits in soil samples collected from the well borings. The approximate well locations are shown in **Figure 2**.

May 2000: A site conceptual model (SCM) was completed for the site. The groundwater flow velocity was calculated to estimate plume travel time to the nearest down-gradient receptor. Groundwater velocity was calculated to be 46 feet per year. It was concluded that hydrocarbon impact to groundwater appears to fluctuate with the rise and fall of the groundwater surface beneath the site.

February 2001: Two additional monitoring wells (U-4 and (U-5) were installed. The monitoring wells were installed to depths of 45 feet bgs (U-4) and 47 feet bgs (U-5). TPHg, BTEX, and MTBE were below laboratory reporting limits in soil

samples collected from the well boring. TPHg and benzene were below laboratory reporting limits in the initial groundwater samples collected from wells U-4 and U-5; however, MTBE was reported at concentrations of 38.2 and 55.4 micrograms per liter (ug/L) respectively. The approximate well locations are shown in **Figure 2**.

December 2001: Two additional monitoring wells (U-6 and U-7) and eight ozone injection sparge wells (SP-1 through SP-4, SP-5/5S, SP-6S, SP-7S, and SP-8/8S) were installed at the site. The monitoring wells were installed to 45 feet bgs. The sparge points in wells SP-1 through SP-4 were installed to a depth of 45 feet bgs. The sparge points in wells SP-6S and SP-7S were installed to a shallower depth of 25 feet bgs. The remaining two sparge wells each contained dual-nested sparge points installed to 25 feet bgs (SP-5S and SP-8S) and 45 feet bgs (SP-5 and SP-8). An ozone microsparge system was then installed and began operation in December 2001. The system injected ozone into the 10 sparge points. Approximate locations are shown in **Figure 2**.

April 2006: Seven borings (B-1 through B-7) were advanced at the site. Three boreholes were advanced at each location. The initial borehole was advanced to record a Cone Penetrometer Test (CPT) log of subsurface lithology. The second borehole was advanced for the purpose of collecting soil samples for observation and laboratory analysis, and to collect discrete groundwater samples at depths of approximately 38 feet to 44 feet bgs. The third borehole was advanced to collect discrete groundwater samples at approximately 57 to 65 feet bgs. Three general stratigraphic zones were identified: an upper zone from 36 to 43 feet bgs, a middle clay zone from 43 to 55 feet bgs, and a lower zone from 55 to the maximum depth of 65.5 feet bgs explored. Soil samples from various depths were submitted for laboratory analysis. TPHg was reported in five upper zone, six clay zone, and three lower zone soil samples at concentrations of 700 milligrams per kilogram (mg/kg). MTBE was reported in three upper zone, three clay zone, and two lower zone samples at concentrations up to 0.29 mg/kg. Benzene was reported in three clay zone soil samples at concentrations up to 1.3 mg/kg. TPHg was reported in all of the 14 groundwater samples collected at concentrations up to 26,000 ug/L. Benzene was reported in five upper zone, and six lower zone groundwater samples at concentration up to 510 ug/L. MTBE was reported in four upper zone and six lower zone groundwater samples at concentrations up to 1,100 ug/L.

March 2007: Two additional on-site borings (B-8 and B-9) and one off-site boring (B-10) were advanced using a CPT rig. The borings were advanced to further evaluate the vertical extent of impacted groundwater to the base of the lowermost sand and gravel unit, to evaluate groundwater quality in the lowermost sand and gravel unit down-gradient of the site, and to evaluate the presence of a clay layer underlying the lowermost coarse-grained soils which may represent a regional aquitard. Four soil samples were collected for laboratory analysis from off-site boring B-10. MTBE was reported in two of the samples at concentrations up to 0.016 mg/kg; TPHg and benzene were below laboratory reporting limits in all of the soil samples collected for analysis. TPHg (200 ug/L), benzene (0.94 ug/L), and MTBE (7.1 ug/L) were reported in the groundwater samples collected at 79 to 83 feet bgs from boring B-8. TPHg,

BTEX, and fuel oxygenates were below laboratory reporting limits in the groundwater samples collected at 78 to 88 feet bgs from boring B-9. A low concentration of MTBE (0.73 ug/L) was reported in groundwater samples collected at 66 to 70 feet bgs from boring B-10, and a low concentration of toluene (1.4 ug/L) was reported in the groundwater sample collected between 83 to 87 feet bgs from boring B-10. Based on the results of the investigation, soil and groundwater in the area of off-site boring B-10 did not appear to be significantly impacted, groundwater within the lowermost sand and gravel unit in the area of boring B-8 was slightly impacted, and groundwater within the lowermost sand and gravel unit in the area of B-9 was not impacted.

March 2007: Oxygen injection testing was performed in the sparge wells to evaluate radius of influence and to evaluate the effectiveness of the existing system. As described in our Additional Subsurface Assessment Report, dated April 26, 2007, the testing suggested a ROI of between 10 to 15 feet around the wells on average, but perhaps greater in some area. This system has been inactive for the past year due to concerns about the injection of ozone causing oxidation of trivalent chromium [Cr (III)] into hexavalent chromium [Cr (VI)].

September and October of 2008: Delta installed eight more groundwater monitoring wells. Wells U-8 through U-11 were deemed Middle Zone Monitoring Wells, and installed to depths ranging from 45 to 50 feet bgs. The middle zone wells were constructed as 2-inch diameter wells with 10 foot screen intervals. Wells U-12 through U-15 were deemed Lower Zone Monitoring Wells, and installed to depths ranging from 71.5 to 75 feet bgs. The lower zone wells were constructed as 4 inch diameter wells with 10 foot screened intervals, and with 12 inch diameter steel conductor casing from surface to between 52 to 57 feet bgs.

Quarterly monitoring of the site wells has been performed since July 1998. Historically, the groundwater flow direction has varied from north to southwest. The depth to groundwater has varied from 21.62 to 46.31 feet bgs.

2.2 SENSITIVE RECEPTORS

2006: A survey entailing a visit to the DWR office in Sacramento was conducted to examine well log records and to identify domestic wells within the survey area. The DWR survey provided 53 potential receptors within one mile of the site; eleven municipal wells, five irrigation wells, two domestic wells, one domestic/irrigation well, and seventeen with an unknown well type. Seventeen additional potential receptors were identified although the specific addresses could not be verified.

2.3 SITE GEOLOGY AND HYDROGEOLOGY

The site is underlain by sand and gravel to a depth of approximately 20 feet bgs. This is underlain by a clay layer from approximately 20 to 35 feet bgs with a sandy layer from approximately 35 to 45 feet bgs. There is another clay layer from approximately 45 feet bgs to a maximum explored depth of 50 feet bgs.

Groundwater monitoring and sampling results from the fourth quarter 2009 indicate that the core of the petroleum hydrocarbon plume is located central to the site, in vicinity of the dispenser islands, with maximum concentrations of Benzene and MTBE located slightly south, primarily in the vicinity of the current UST pit. Fourth quarter 2009 laboratory analyses indicate that there is a favorable correlation between sulfate concentrations and contaminant concentrations (except at U-10) in the intermediate zone.

In addition, chromium VI concentrations are ND in the intermediate zone wells which are targeted for sulfate enhancement. The maximum TPHg concentration reported in groundwater is 8,800 parts per billion (ppb) reported in on site well U-9 (just south of First Street).

Historical groundwater analytical data from monitoring and sampling events is included as **Appendix B**.

3.0 MAGNESIUM SULFATE APPLICATION PILOT TEST

3.1 BIODEGRADATION PARAMETER TESTING

As part of the scheduled fourth quarter 2009 monitoring and sampling event, groundwater samples were collected and analyzed for additional biodegradation parameters, including, but not limited to, sulfate (SO_4), magnesium, manganese, nitrate (NO_3), field pH, field temperature, post-purge dissolved oxygen (DO), post purge oxygen reducing potential (ORP) and hexavalent chromium (chrome VI). These parameters are among those indicative of anaerobic biodegradation potential. In addition, hexavalent chromium was measured as part of baseline sampling to determine background concentrations of this potential byproduct of advanced oxidation injection.

Analytical results indicate nitrate concentrations in groundwater samples collected during the fourth quarter 2009 sampling event were below laboratory indicated reporting limits in impacted wells (U-7, U-8, U-9, U-10, and U-11), and above reporting limits in non-impacted wells. Nitrate concentrations in wells U-4, and U-5 are likely representative of background concentrations at the site, as these wells are middle zone monitoring wells with little or non-detect impact. The relative absence of nitrate in the remaining wells likely indicates nitrates have been depleted as an electron acceptor for biodegradation.

A review of DO and ORP levels indicate that, generally, higher DO and ORP values were measured in wells with lower petroleum hydrocarbon concentrations while lower DO and ORP values were measured in wells with higher petroleum hydrocarbon concentrations.

These reported biodegradation parameters indicate bio-remediation has occurred at the site reducing nitrate concentrations to at or near reporting limits and reducing sulfate concentrations to below background concentrations in wells containing petroleum hydrocarbons. The lower DO concentrations and ORP measurements in wells containing higher petroleum hydrocarbons indicate the site is at or approaching an anaerobic condition.

3.2 PILOT TEST

Delta conducted an enhanced biodegradation pilot test on the eastern portion of the site. This pilot test involved the introduction of a sulfate compound into groundwater monitoring well U-11 in order to replenish the electron acceptors in the northeast portion of the property.

Delta has recently been awarded a patent for the application of sulfate with respect to accelerating the cleanup of soil and groundwater. With microbes and dissolved iron (ferric iron) present, the introduction of magnesium sulfate solution ($MgSO_4$) into hydrocarbon-impacted groundwater yields the following reaction:

Petroleum Hydrocarbon + $MgSO_4$ + Dissolved Iron → Iron Sulfide + H_20 + $MgCO_3$ + CO_2

There are three groundwater zones at this site: a shallow zone with wells U-1 through U-3 screened between 13 to 34 feet bgs, a middle zone with wells U-4 through U-11 screened variably between 35 to 47 feet bgs, and a deeper zone between with wells U-12 through U-15 screened variably between 62 to 75 feet bgs. Only the middle groundwater zone is being target during this pilot test, as both the shallow and deeper zones appear to be lesser or non-impacted.

Prior to the application of the magnesium sulfate, Delta collected grab groundwater samples from monitoring wells U-8, U-10, and U-11, and from sparge points SP-2, SP-5, and SP-8. Samples collected from the monitoring wells were analyzed for sulfate and magnesium, as well as for TPHg by EPA Method 8015M, and BTEX and MTBE by EPA method 8260B. Due to issues that arose during collection of samples from the sparge points, samples from these wells were not analyzed for TPHd, sulfate, or magnesium, with the exception of SP-8 which was analyzed for sulfate.

In addition to the groundwater samples, prior to the application of the magnesium sulfate, monitoring wells U-8, U-10, and U-11 were monitored for parameters including depth to water (DTW), pH, Oxygen Reducing Potential (ORP), Dissolved Oxygen (DO), temperature (temp), and electrical conductivity (EC). These parameters were used to monitor the dispersion of the magnesium sulfate prior to application. All groundwater samples collected during the pilot test were non-purge grab groundwater samples.

Due to the small ¾ inch casing size of the sparge points, these wells (SP-2, SP-5, and SP-8) could not be monitored for parameters except for DTW.

The above mentioned parameters (DTW, pH, ORP, DO, temp, and EC) were also monitored during the application of the magnesium sulfate solution. These parameters were monitored in monitoring wells U-8 and U-10 at approximately 30-minute intervals. These parameters were used to monitor the dispersion of magnesium sulfate during application. Sparge points SP-2, SP-5, and SP-8 were not monitored during application for the same reason as stated above. Application well U-11 was not monitored during application.

On May 28, 2010, 110 gallons of 29% magnesium sulfate solution (13% sulfate) were introduced into monitoring well U-11. The target application rate was approximately 1 gallon per minute.

Only minor fluctuations in field monitored parameters were observed during application. DTW measurements from U-11 following application could not be gathered as the increased conductivity in this well caused temporary malfunction of sounding equipment. The magnesium sulfate application field parameter measurements are included as **Table 1**.

Following the completion of the application of magnesium sulfate, the above mentioned parameters (DTW, pH, ORP, DO, temp, and EC) were measured in monitoring wells U-8, U-10, and U-11. In addition, groundwater samples were collected from monitoring wells U-8, U-10, and U-11 and analyzed for sulfate and magnesium. Samples were also collected from sparge points SP-2, SP-5, and SP-8, though due to sampling issues that arose during sample collection, samples were analyzed only for sulfate.

During week 2 of the pilot test, nine days after the application of the magnesium sulfate, groundwater samples were collected from monitoring wells U-8, U-10, and U-11, and sparge points SP-2, SP-5, and SP-8, and analyzed for sulfate and magnesium.

No activities were performed during week 3 of the pilot test to allow for laboratory analysis of Week 2 groundwater samples and to allow for additional dispersion of the applied magnesium sulfate solution within the groundwater formation.

Since sulfate levels from the week 2 sampling activities were above the target range of 450 to 500 mg/L in the application well, an additional application of magnesium sulfate was not performed during week 4 activities. During week 4, groundwater samples were collected from monitoring wells U-8, U-10, and U-11, and sparge points SP-2, SP-5, and SP-8, and analyzed for sulfate and magnesium.

As sulfate levels during week 4 were above the target range of 450 to 500 mg/L in the application well, no activities were performed during weeks 5 and 6.

During week 7, as sulfate levels from week 4 were above target range, no additional application of sulfate was performed. During week 7, groundwater samples were collected from monitoring wells U-8, U-10, and U-11, and sparge points SP-2, SP-5, and SP-8 and analyzed for sulfate, as well as TPHg by EPA Method 8015M, and BTEX and MTBE by EPA method 8260B. Samples collected from the monitoring wells were additionally analyzed for TPHd by EPA method 8015 and magnesium.

No activities were performed during week 8 to allow time for laboratory analysis of week 7 samples.

During week 9, the final week of the pilot test, no additional sulfate application was performed as week 7 sulfate levels were above the target range. During week 9, groundwater samples were collected from monitoring wells U-8, U-10, and U-11, and sparge points SP-2, SP-5, and SP-8 and analyzed for sulfate, as well as TPHg by EPA Method 8015M, BTEX and MTBE by EPA method 8260B, and chrome VI by EPA method 7199. Samples collected from the monitoring wells were additionally analyzed for TPHd by EPA method 8015 and magnesium.

3.3 LABORATORY ANALYTIC RESULTS

Sulfate concentrations in U-11 increased from 62 mg/L immediately prior to application to 160,000 mg/L immediately following application.

Most of the surrounding wells reported increases in sulfate concentrations. Down gradient well U-8 and the cross gradient well U-10 reported increased sulfate concentrations after application at least double the levels those prior to application. Up gradient well SP-8 reported increase in sulfate concentrations. Due to issues that arose with sample collection, samples collected from sparge points SP-2 and SP-5 were not analyzed for sulfate prior to application, so pre and post application comparison cannot be made.

Samples collected during week 2 reported a decrease in sulfate concentrations in U-11 from 160,000 mg/L immediately following application to 6,000 mg/L during week two. This indicates both dispersion and bacterial consumption of the sulfate. Sulfate concentrations reported in sampled surrounding wells U-10, U-8, and SP-5 were slightly lower than concentrations reported immediately following application. Sulfate concentrations in wells SP-2, and SP-8 showed increases from post-application to week 2.

Samples collected during week 4 continued to report an increase in sulfate concentrations in U-11 from 6,000 mg/L during week 2 to 6,800 mg/L during week 4. The reported sulfate concentrations in all of the sampled surrounding wells reported decreases from week 2 to week 4.

Samples collected during week 7 reported decrease in sulfate concentrations in U-11 from 6,800 mg/L during week 4 to 1,800 mg/L during week 7. Surrounding wells showed decreases in sulfate concentrations as well.

TPHg concentrations in U-11 increased from 6,400 µg/L prior to application to 6,800 µg/L during week 7. TPHg concentrations in the surrounding wells with pre-application TPHg concentrations above 1000 µg/L (U-8, U-10, and SP-8) increased from pre-application to week 7. Surrounding wells with pre-application TPHg concentrations lower than 1000 µg/L (SP-5 and SP-8) decreased from pre-application to week 7.

Samples collected during week 9 reported an increase in sulfate concentrations in U-11 to 2,700 mg/L from 1,800 mg/L during week 7. The reported sulfate concentrations in the sampled surrounding wells decreased from concentrations reported during week 4.

TPHg concentrations in U-11 decreased from 6,800 µg/L during week 7 to 5,500 µg/L during week 9. In surrounding well U-10, SP-5, and SP-8, TPHg concentrations increased from week 7 to week 9. The remaining wells showed decreases in TPHg concentrations during this time.

Wells SP-2 and U-10 showed increases in TPHg concentrations from pre-application to week 9. The remaining wells, U-11, U-8, SP-5, and SP-5, showed overall decreases in TPHg concentrations over the course of the pilot test. BTEX concentrations stayed roughly static or decreased over the course of the pilot test. MTBE concentrations stayed roughly static or increased slightly over the course of the pilot test.

Hexavalent Chromium was below laboratory indicated reporting limits in all wells sampled during week 9.

Pilot test analytical results are presented in **Table 2**. Field parameter measurements are included in **Table 1**. Certified laboratory analytical reports are included as **Appendix C**.

3.5 DISCUSSION

The application of magnesium sulfate caused an initial increase in TPHg and BTEX concentrations in application well U-11, as well as several of the other surrounding wells. It is not unusual to see an increase shortly after a magnesium sulfate solution application. Explanations include that the sulfate stimulates biological activity and that activity opens up some of the pore

spaces resulting in more contaminant mass exposed to groundwater and/or generates a surfactant effect that allows greater mass transfer and consequently higher concentrations.

Also, it should be noted that groundwater elevation increased approximately 1.5 feet from pre-application levels during the course of the pilot test. The sparge wells showed significantly less of an increase in groundwater level, as the gas diffusers do not allow water to flow as freely in and out as does the screen on a monitoring well.

Petroleum hydrocarbon concentration data reported an overall reduction in both TPHg, and to a lesser extent BTEX, in application well U-11, with a corresponding reduction in sulfate concentrations. This indicates that the sulfate is being consumed and additional biodegradation of the TPHg is occurring.

All of the monitoring wells (U-8, U-10, and U-11), and one of the sparge wells (SP-2) reported increases in TPHg concentrations immediately following the application. However, all of the wells reported overall decreases in TPHg concentrations over the course of the pilot test, with the exception of SP-2, which showed increased TPHg concentrations, and U-8 which showed minor increase in TPHg concentration, over the course of the pilot test. The application of magnesium sulfate caused an initial increase in TPHg and BTEX concentrations in the application well U-11. It is not unusual to see an increase shortly after a magnesium sulfate solution application. Explanations include that the sulfate stimulates biological activity and that activity opens up some of the pore spaces resulting in more contaminant mass exposed to groundwater and/or generates a surfactant effect that allows greater mass transfer and consequently higher concentrations.

Sulfate concentrations increased initially in U-11 following application, but reported an overall decreasing trend for the remainder of the pilot test. The decreasing sulfate and gasoline concentration trends (despite initial gasoline concentration spikes) is an indication that applied sulfate is being consumed by microbial action as part of the biodegradation process and that degradation is occurring.

Currently, TPHg concentrations have shown an increase compared to concentrations prior to the application. However, sulfate levels have generally dropped compared to prior to the application, which indicates that the sulfate is being consumed in the subsurface. The application well showed increased concentrations initially, followed by declining concentrations. As this well (U-11) received the highest concentrations of sulfate during the application, this indicates that the sulfate is working in enhancing biodegradation of the contaminants. The surrounding wells, having not received sulfate concentrations as high, have not yet past the initial increase toward declining concentrations. Sparge Points SP-5 and SP-8, having the

lowest initial contamination, did not show an initial spike in concentrations. Wells with lower pre-application concentrations did not show the same initial spike as did the wells with higher pre-application concentrations.

3.6 CONCLUSIONS and RECOMMENDATIONS

Several conclusions can be drawn from this data, including that bio-activity appears to be increased and that there were no adverse side effects of the application. However, certain conclusions cannot be made yet including radius of influence of the application and a definitive prediction of how well the technology will work at this site.

Delta believes that the applied sulfate is being sufficiently utilized. In the application well, the sulfate concentration has decreased from 160,000 ppm to 2,700 ppm in only 8 weeks. Utilization as opposed to dispersion is demonstrated by the lack of significant sulfate concentration increases in most of the surrounding wells. The increases in TPH concentrations noted could be due to several factors including normal variability such as seasonal fluctuations, flushing of capillary fringe due to the mass of material applied during the application, or a surfactant effect associated with the increased bio-activity.

Delta believes that there are still adequate residual sulfates in the application well to support continued bio-degradation. **Delta recommends continued biodegradation parameter analysis during semi-annual monitoring and sampling (M&S)**, with which, as the sulfate continues to work in the subsurface, decreases in the application well and surrounding wells will become more apparent.

Historical groundwater monitoring and sampling analytical results are included as **Appendix B**.

5.0 LIMITATONS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

Consultant: **DELTA CONSULTANTS**

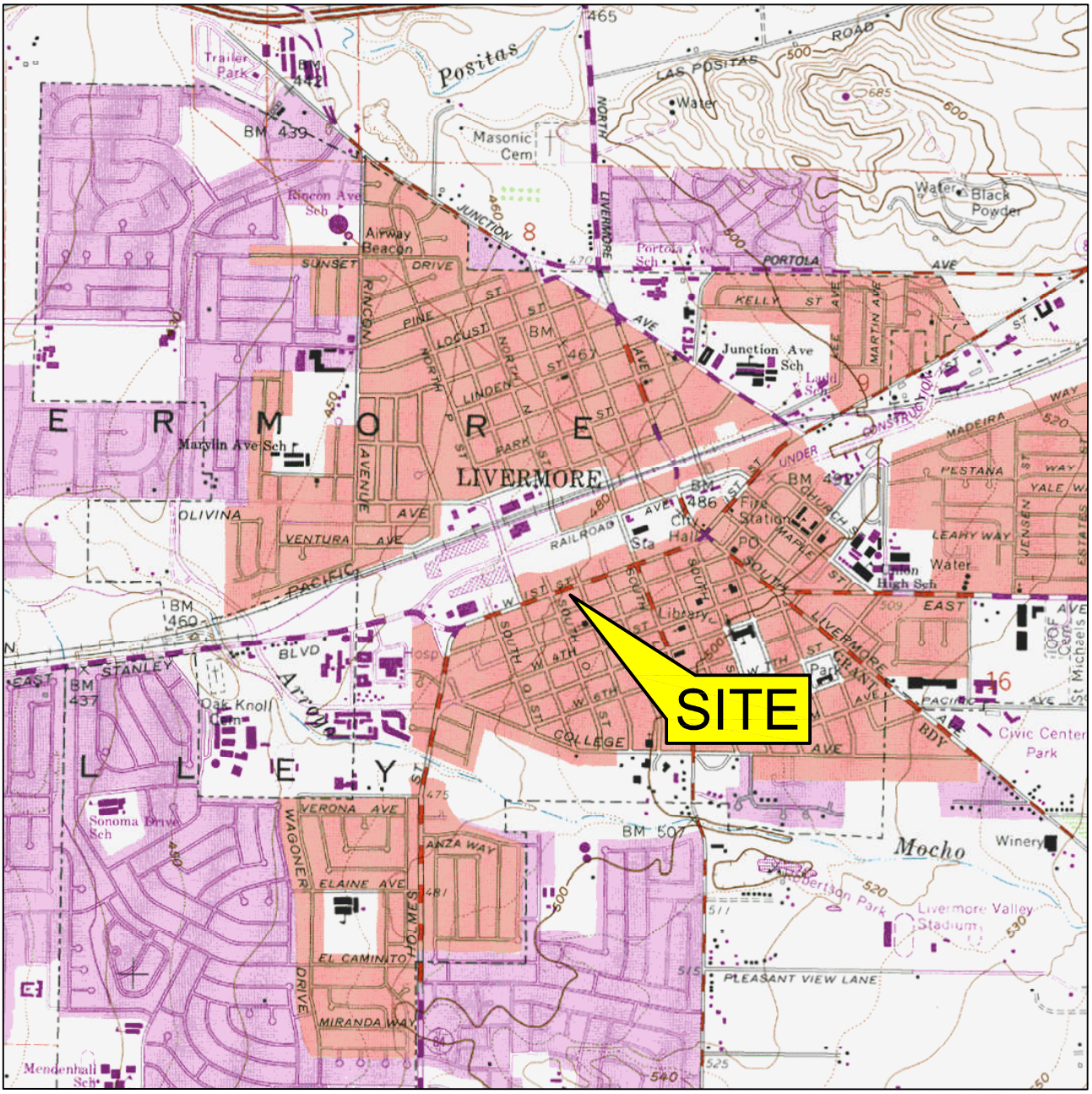
* * * * *

FIGURES

TABLES

APPENDICES

FIGURES



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SCALE: 1 : 24,000

North

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, CALABASAS QUADRANGLE, 1967

FIGURE 1

SITE LOCATION MAP

76 STATION NO. 4186
1771 FIRST STREET
LIVERMORE, CA

PROJECT NO. C104-186	DRAWN BY MC 12/28/05
FILE NO. Site Locator 4186	PREPARED BY MC
REVISION NO. 1	REVIEWED BY

Delta Environmental Consultants, Inc.

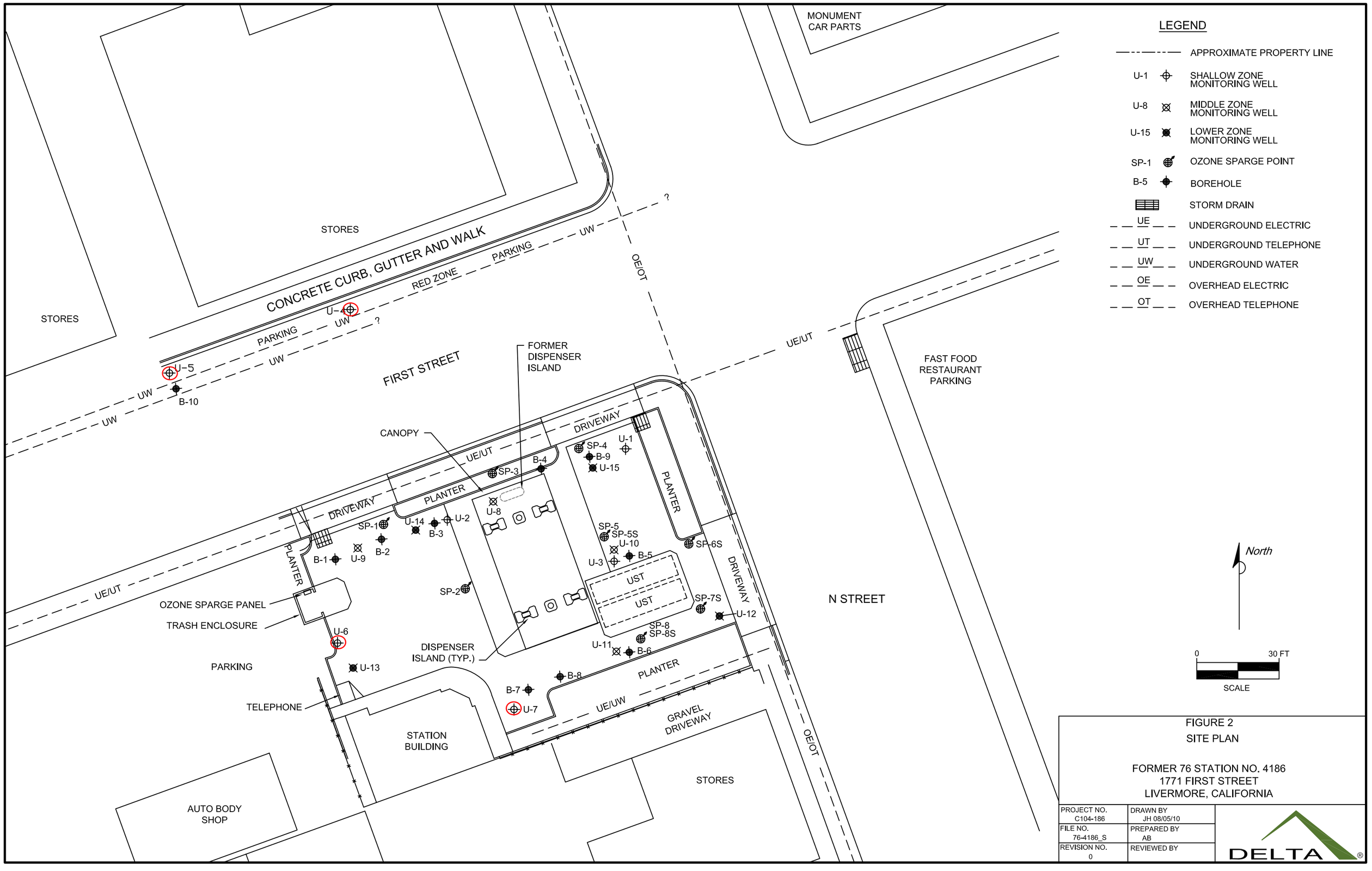

FIGURE 2
SITE PLAN

FORMER 76 STATION NO. 4186
1771 FIRST STREET
LIVERMORE, CALIFORNIA

PROJECT NO. C104-186	DRAWN BY JH 08/05/10
FILE NO. 76-4186_S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY

DELTA®

TABLES

TABLE 1
MAGNESIUM SULFATE PILOT TEST
FIELD MONITORING PARAMETERS
76 Service Station No. 4186
1771 First Street
Livermore, California

Date of Application: May 28, 2010

Pre Application Parameters							
Well	Time	DTW (ft)	Specific Conductivity (mS/cm^3	DO (mg/L)	ORP (mV)	pH (pH units)	Temp (°C)
U-11	8:30a	32.45	2.419	1.20	-177.7	6.84	19.57
U-8	9:44a	34.02	1.614	54.00	5.3	7.43	20.12
U-10	9:23a	34.15	1.793	1.40	-162.1	7.32	19.82
SP-2*	12:17p	32.18	--	--	--	--	--
SP-5*	12:00p	33.00	--	--	--	--	--
SP-8*	11:30a	33.10	--	--	--	--	--

30 Min Parameters							
Well	Time	DTW	Specific Conductivity	DO	ORP	pH	Temp
U-8	2:08p	33.20	1.587	3.81	-170.3	7.13	19.96
U-10	2:10p	33.13	1.801	1.34	13.2	6.98	20.51
SP-2*	--	--	--	--	--	--	--
SP-5*	--	--	--	--	--	--	--
SP-8*	--	--	--	--	--	--	--

60 Min Parameters							
Well	Time	DTW	Specific Conductivity	DO	ORP	pH	Temp
U-8	2:42p	32.35	1.624	2.09	-171.9	7.06	20.56
U-10	2:37p	33.15	1.782	5.16	-58.0	7.28	20.78
SP-2*	--	--	--	--	--	--	--
SP-5*	--	--	--	--	--	--	--
SP-8*	--	--	--	--	--	--	--

90 Min Parameters							
Well	Time	DTW	Specific Conductivity	DO	ORP	pH	Temp
U-8	3:30p	32.30	1.607	1.96	-164.0	7.23	19.90
U-10	3:11p	33.12	1.787	2.03	-21.5	7.27	20.69
SP-2*	3:21p	32.65	--	--	--	--	--
SP-5*	3:18p	29.96	--	--	--	--	--
SP-8*	3:26p	33.00	--	--	--	--	--

TABLE 1
MAGNESIUM SULFATE PILOT TEST
FIELD MONITORING PARAMETERS
76 Service Station No. 4186
1771 First Street
Livermore, California
TABLE 1
FIELD MONITORING PARAMETERS

120 Min Parameters							
Well	Time	DTW	Specific Conductivity	DO	ORP	pH	Temp
U-8	4:08p	32.29	1.622	1.29	-92.5	6.77	20.44
U-10	4:00p	33.07	1.808	3.56	-64.5	7.17	20.61
SP-2*	4:05p	32.10	--	--	--	--	--
SP-5*	3:58p	32.95	--	--	--	--	--
SP-8*	3:54p	32.64	--	--	--	--	--

150 Min Parameters							
Well	Time	DTW	Specific Conductivity	DO	ORP	pH	Temp
U-8	4:43p	32.28	1.609	1.70	-127.0	6.91	20.38
U-10	4:38p	33.07	1.784	1.45	-81.8	7.32	20.49
SP-2*	4:48p	32.10	--	--	--	--	--
SP-5*	4:36p	32.95	--	--	--	--	--
SP-8*	4:30p	32.64	--	--	--	--	--

Post Application Parameters							
Well	Time	DTW	Specific Conductivity	DO	ORP	pH	Temp
U-11	5:00p	~25**	71.310	7.60	67.3	7.49	19.38
U-8	5:56p	32.27	1.634	2.90	-82.2	6.92	20.36
U-10	5:33p	33.01	1.813	1.78	66.3	7.36	20.74
SP-2*	6:14p	32.00	--	--	--	--	--
SP-5*	5:42p	32.98	--	--	--	--	--
SP-8*	5:18p	32.97	--	--	--	--	--

ft = feet mS/cm^3 = milliSiemens per cubic centmeter mg/L = milligrams per liter mV = millivolts
°C = degrees celsius DTW = Depth to Water
* narrow diameter of wells prohibited measuring of biodegradation parameters
** malfunction of water level meter prohibited accurate DTW reading

TABLE 2
MAGNESIUM SULFATE PILOT TEST
ANALYTICAL RESULTS
76 Service Station No. 4186
1771 First Street
Livermore, California

Sample ID	Date	Description	Sulfate (mg/L)	Magnesium (mg/L)	TPHg (ug/L)	TPHd (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Chrome VI (ug/L)
U-11-pre	5/28/2010	Prior to application	**62**	**86**	**6400**	**300**	<5.0	<5.0	<5.0	<10	**3700**	--
U-11-post	5/28/2010	Immediately following application	**160000**	**7800**	--	--	--	--	--	--	--	--
U-11-wk2	6/7/2010	1 week following application	**6000**	**1200**	--	--	--	--	--	--	--	--
U-11-wk4	6/24/2010	3 week following application	**6800**	**1200**	--	--	--	--	--	--	--	--
U-11-wk7	7/13/2010	6 weeks following application	**1800**	**680**	**6800**	**340**	**3.1**	**1**	**6.4**	**2.6**	**4800**	--
U-11-wk9	7/26/2010	8 weeks following application	**2700**	**820**	**5500**	**340**	**2.9**	<0.50	**3.6**	**1.6**	**4200**	<0.20
SP-2-pre	5/28/2010	Prior to application	--	--	**4300**	--	**40**	**4**	**9.1**	**6.3**	**370**	--
SP-2-post	5/28/2010	Immediately following application	**38**	--	--	--	--	--	--	--	--	--
SP-2-wk2	6/7/2010	1 week following application	**330**	**170**	--	--	--	--	--	--	--	--
SP-2-wk4	6/24/2010	3 week following application	**120**	**130**	--	--	--	--	--	--	--	--
SP-2-wk7	7/13/2010	6 weeks following application	**58**	**--**	**5600**	**--**	**38**	**1.8**	**6**	**4.4**	**500**	--
SP-2-wk9	7/26/2010	8 weeks following application	**50**	**--**	**5200**	**--**	**28**	**1.5**	**5.2**	**4.3**	**620**	<0.20
U-10-pre	5/28/2010	Prior to application	**100**	**40**	**1300**	**87**	**1.6**	<0.50	**0.87**	<1.0	**130**	--
U-10-post	5/28/2010	Immediately following application	**76**	**110**	--	--	--	--	--	--	--	--
U-10-wk2	6/7/2010	1 week following application	**60**	**88**	--	--	--	--	--	--	--	--
U-10-wk4	6/24/2010	3 week following application	**48**	**110**	--	--	--	--	--	--	--	--
U-10-wk7	7/13/2010	6 weeks following application	**42**	**100**	**3500**	**170**	**51**	**2.9**	**37**	**4.6**	**190**	--
U-10-wk9	7/26/2010	8 weeks following application	**25**	**95**	**4800**	**150**	**26**	**1.5**	**12**	**12**	**130**	<0.20
U-8-pre	5/28/2010	Prior to application	**2.7**	**80**	**1100**	**860**	**2.1**	<0.50	**3.3**	**8.3**	<0.50	--
U-8-post	5/28/2010	Immediately following application	**8.7**	**81**	--	--	--	--	--	--	--	--
U-8-wk2	6/7/2010	1 week following application	**6.7**	**87**	--	--	--	--	--	--	--	--
U-8-wk4	6/24/2010	3 week following application	**120**	**120**	--	--	--	--	--	--	--	--
U-8-wk7	7/13/2010	6 weeks following application	**7.6**	**90**	**1400**	**370**	**6.5**	<0.50	**2.6**	**3.9**	<0.50	--
U-8-wk9	7/26/2010	8 weeks following application	**9.2**	**100**	**1200**	**430**	**3**	**0.5**	**1.9**	**1.3**	<0.50	<0.20
SP-5-pre	5/28/2010	Prior to application	--	--	**880**	--	**1.1**	<0.50	<0.50	<1.0	**2.4**	--
SP-5-post	5/28/2010	Immediately following application	**66**	--	--	--	--	--	--	--	--	--
SP-5-wk2	6/7/2010	1 week following application	**29**	**82**	--	--	--	--	--	--	--	--
SP-5-wk4	6/24/2010	3 week following application	**12**	**84**	--	--	--	--	--	--	--	--
SP-5-wk7	7/13/2010	6 weeks following application	**16**	**--**	**110**	**--**	<0.50	<0.50	<0.50	<1.0	**3.6**	--
SP-5-wk9	7/26/2010	8 weeks following application	**16**	**--**	**510**	**--**	<0.50	<0.50	<0.50	<1.0	**3.8**	<0.20
SP-8-pre	5/28/2010	Prior to application	**4**	--	**800**	--	**2.4**	**0.94**	<0.50	**4.2**	**44**	--
SP-8-post	5/28/2010	Immediately following application	**120**	--	--	--	--	--	--	--	--	--
SP-8-wk2	6/7/2010	1 week following application	**310**	**140**	--	--	--	--	--	--	--	--
SP-8-wk4	6/24/2010	3 week following application	**96**	**10**	--	--	--	--	--	--	--	--
SP-8-wk7	7/13/2010	6 weeks following application	**33**	**--**	**190**	**--**	**29**	<0.50	**3.9**	**1.3**	**47**	--
SP-8-wk9	7/26/2010	8 weeks following application	**27**	**--**	**420**	**--**	**9.4**	<0.50	**3.1**	**1.5**	**30**	<0.20

TPHg = Total Petroleum Hydrocarbons as Gasoline TPHd = Total Petroleum Hydrocarbons as Diesel
MTBE = Methy Tert Butyl Ether Chrome VI = Hexavalent Chromium
mg/L = milligram per liter ug/L = microgram per liter

APPENDIX A

ACEH Letter Dated May 4, 2010

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

May 4, 2010

Terry Grayson (*Sent via E-mail to: Terry.L.Grayson@contractor.conocophillips.com*)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Thomas and Celine Vadakkekunnel
4481 Peacock Court
Dublin, CA 94568

Subject: Fuel Leak Case No. RO0000436 and Geotracker Global ID T0600101777, Unocal #4186, 1771 First Street, Livermore, CA 94550 – Conditional Work Plan Approval

Dear Mr. Grayson and Mr. and Ms. Vadakkekunnel:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the recently submitted document entitled, "*Magnesium Sulfate Pilot Application Work Plan*," dated March 15, 2010 (Work Plan). The Work Plan, which was prepared on your behalf by Delta Consultants, presents plans to conduct a pilot test of magnesium sulfate injection using existing monitoring well U-11.

The scope of work is conditionally approved and may be implemented provided that the technical comment below is incorporated during the proposed activities. Submittal of a revised Work Plan or Work Plan Addendum is not required unless an alternate scope of work outside that described in the Work Plan and technical comment below is proposed. We request that you address the following technical comment, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Laboratory Analyses.** In addition to the proposed laboratory analyses of groundwater samples collected prior to and following the introduction of magnesium sulfate in well U-11, we request that you include analysis for TBA using EPA Method 8260B. A review of historical groundwater monitoring data indicates that although some decreases in concentrations have been observed for TPHg, BTEX, and MTBE, TBA concentrations have remained elevated. The recalcitrance of TBA is a concern for this site.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- **August 10, 2010** – Semi-Annual Monitoring Report – Second Quarter 2010 (To include summary report, remedial performance summary, and quarterly monitoring report in one document
- **September 24, 2010** – Pilot Test Report

If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566 (*Sent via E-mail to: dstefani@lpfire.org*)

Cheryl Dizon (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551 (*Sent via E-mail to: cdizon@zone7water.com*)

James Barnard, Delta Environmental, 11050 White Rock Road, Suite 110, Rancho Cordova, CA 95670 (*Sent via E-mail to: JBarnard@deltaenv.com*)

Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Jerry Wickham, ACEH

Geotracker, File

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

Historical Groundwater Monitoring and Sampling Analytical Results

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

July 1998 Through June 2010

76 Station 4186

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-1			**(Screen Interval in feet: 14.0-34.0)**											
7/13/1998	478.27	23.28	0.00	454.99	--	ND	--	ND	ND	ND	ND	ND	--	
10/7/1998	478.27	26.43	0.00	451.84	-3.15	ND	--	ND	ND	ND	ND	ND	--	
1/15/1999	478.27	30.42	0.00	447.85	-3.99	ND	--	ND	ND	ND	1.1	7.3	--	
4/14/1999	478.27	24.21	0.00	454.06	6.21	ND	--	ND	ND	ND	ND	160	--	
7/19/1999	478.27	27.10	0.00	451.17	-2.89	ND	--	ND	ND	ND	ND	92	--	
10/12/1999	478.27	29.40	0.00	448.87	-2.30	ND	--	ND	ND	ND	ND	37	--	
1/24/2000	478.27	27.90	0.00	450.37	1.50	ND	--	ND	ND	ND	ND	28	--	
4/10/2000	478.27	26.16	0.00	452.11	1.74	ND	--	ND	0.930	ND	ND	ND	--	
7/17/2000	478.27	28.04	0.00	450.23	-1.88	ND	--	ND	ND	ND	ND	160	--	
10/2/2000	478.27	28.41	0.00	449.86	-0.37	ND	--	ND	ND	ND	ND	120	--	
1/8/2001	478.27	28.68	0.00	449.59	-0.27	ND	--	ND	ND	ND	ND	103	--	
4/3/2001	478.27	25.74	0.00	452.53	2.94	ND	--	ND	ND	ND	ND	55.1	--	
7/2/2001	478.27	30.67	0.00	447.60	-4.93	ND	--	ND	ND	ND	ND	ND	--	
10/8/2001	478.27	33.13	0.00	445.14	-2.46	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
1/3/2002	478.27	27.67	0.00	450.60	5.46	160	--	ND<0.50	0.51	ND<0.50	0.69	31	--	
4/5/2002	478.27	29.40	0.00	448.87	-1.73	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	60	--	
7/2/2002	478.27	31.17	0.00	447.10	-1.77	--	1100	ND<0.50	1.7	0.73	130	--	35	
10/1/2002	478.27	33.00	0.00	445.27	-1.83	--	120	ND<0.50	ND<0.50	ND<0.50	8.8	--	28	
12/30/2002	478.27	22.03	0.00	456.24	10.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.2	--	90	
5/2/2003	478.27	24.13	0.00	454.14	-2.10	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	50	
7/1/2003	478.27	25.35	0.00	452.92	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/3/2003	478.27	27.24	0.00	451.03	-1.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
76 Station 4186

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-1 continued														
1/8/2004	478.27	22.67	0.00	455.60	4.57	--	54	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.5	
4/15/2004	478.27	25.33	0.00	452.94	-2.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/15/2004	478.27	26.47	0.00	451.80	-1.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/8/2004	478.27	31.17	0.00	447.10	-4.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/23/2005	478.27	22.47	0.00	455.80	8.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/28/2005	478.27	25.37	0.00	452.90	-2.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2005	478.27	29.15	0.00	449.12	-3.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/2005	478.27	23.69	0.00	454.58	5.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2006	478.27	22.54	0.00	455.73	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
6/26/2006	478.27	24.99	0.00	453.28	-2.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/26/2006	478.27	30.19	0.00	448.08	-5.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/2006	478.27	28.27	0.00	450.00	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/26/2007	478.27	26.92	0.00	451.35	1.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/27/2007	478.27	30.78	0.00	447.49	-3.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/23/2007	478.27	33.17	0.00	445.10	-2.39	--	--	--	--	--	--	--	--	Not enough water to sample
12/20/2007	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	478.27	31.20	0.00	447.07	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/12/2008	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/3/2008	478.27	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	480.29	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.29	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	480.29	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	480.29	--	--	--	--	--	--	--	--	--	--	--	--	Dry

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-1 continued														
6/15/2010	480.29	31.35	0.00	448.94	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-2			**(Screen Interval in feet: 13.0-34.0)**											
7/13/1998	477.44	23.52	0.00	453.92	--	1200	--	130	12	62	180	1100	--	
10/7/1998	477.44	25.31	0.00	452.13	-1.79	ND	--	ND	ND	ND	ND	160	--	
1/15/1999	477.44	30.22	0.00	447.22	-4.91	ND	--	ND	ND	ND	ND	280	--	
4/14/1999	477.44	24.50	0.00	452.94	5.72	ND	--	ND	ND	ND	ND	460	--	
7/19/1999	477.44	28.54	0.00	448.90	-4.04	ND	--	ND	ND	ND	ND	220	--	
10/12/1999	477.44	30.48	0.00	446.96	-1.94	ND	--	ND	ND	ND	ND	160	--	
1/24/2000	477.44	24.52	0.00	452.92	5.96	ND	--	ND	ND	ND	ND	150	--	
4/10/2000	477.44	23.68	0.00	453.76	0.84	ND	--	ND	ND	ND	ND	177	--	
7/17/2000	477.44	28.35	0.00	449.09	-4.67	ND	--	ND	ND	ND	ND	62.7	--	
10/2/2000	477.44	28.72	0.00	448.72	-0.37	ND	--	ND	ND	ND	ND	52	--	
1/8/2001	477.44	29.11	0.00	448.33	-0.39	ND	--	ND	ND	ND	ND	57.3	--	
4/3/2001	477.44	25.95	0.00	451.49	3.16	ND	--	ND	ND	ND	ND	30.2	--	
7/2/2001	477.44	29.01	0.00	448.43	-3.06	ND	--	ND	ND	ND	ND	16	--	
10/8/2001	477.44	30.94	0.00	446.50	-1.93	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	82	--	
1/3/2002	477.44	27.33	0.00	450.11	3.61	260	--	7.7	11	1.7	15	42	--	
4/5/2002	477.44	30.02	0.00	447.42	-2.69	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	25	--	
7/2/2002	477.44	31.23	0.00	446.21	-1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/1/2002	477.44	32.00	0.00	445.44	-0.77	--	ND<50	ND<0.50	0.62	ND<0.50	ND<1.0	--	ND<2.0	
12/30/2002	477.44	22.32	0.00	455.12	9.68	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/2/2003	477.44	25.92	0.00	451.52	-3.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
7/1/2003	477.44	24.99	0.00	452.45	0.93	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-2 continued														
10/3/2003	477.44	25.31	0.00	452.13	-0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/8/2004	477.44	21.94	0.00	455.50	3.37	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	ND<2.0	
4/15/2004	477.44	25.20	0.00	452.24	-3.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/15/2004	477.44	24.45	0.00	452.99	0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/8/2004	477.44	29.89	0.00	447.55	-5.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/23/2005	477.44	22.00	0.00	455.44	7.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
6/28/2005	477.44	25.30	0.00	452.14	-3.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/2005	477.44	28.25	0.00	449.19	-2.95	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/2005	477.44	24.33	0.00	453.11	3.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/2006	477.44	22.34	0.00	455.10	1.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/26/2006	477.44	23.15	0.00	454.29	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/26/2006	477.44	28.52	0.00	448.92	-5.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
11/21/2006	477.44	25.85	0.00	451.59	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/26/2007	477.44	25.62	0.00	451.82	0.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/27/2007	477.44	28.37	0.00	449.07	-2.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/23/2007	477.44	31.40	0.00	446.04	-3.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/20/2007	477.44	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	477.44	30.45	0.00	446.99	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/12/2008	477.44	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/3/2008	477.44	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	479.45	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	479.45	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	479.45	--	--	--	--	--	--	--	--	--	--	--	--	Dry

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-2 continued														
12/9/2009	479.45	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/15/2010	479.45	30.78	0.00	448.67	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-3			**(Screen Interval in feet: 14.0-34.0)**											
7/13/1998	478.46	23.82	0.00	454.64	--	70000	--	3100	5500	2700	16000	7500	--	
10/7/1998	478.46	25.64	0.00	452.82	-1.82	54000	--	5000	1100	3100	14000	6100	--	
1/15/1999	478.46	30.92	0.00	447.54	-5.28	41000	--	3100	ND	1800	3800	15000	--	
4/14/1999	478.46	24.48	0.00	453.98	6.44	33000	--	86	290	2200	7800	39000	--	
7/19/1999	478.46	28.46	0.00	450.00	-3.98	48000	--	3900	2500	3600	14000	12000	16000	
10/12/1999	478.46	30.39	0.00	448.07	-1.93	35000	--	4200	ND	2300	1800	22000	8300	
1/24/2000	478.46	23.43	0.00	455.03	6.96	13000	--	260	ND	770	3200	53000	42000	
4/10/2000	478.46	23.31	0.00	455.15	0.12	35200	--	1070	241	2820	8850	35600	40900	
7/17/2000	478.46	27.53	0.00	450.93	-4.22	29000	--	3570	525	3180	5660	22500	21000	
10/2/2000	478.46	28.19	0.00	450.27	-0.66	11000	--	2100	31	2000	780	25000	28000	
1/8/2001	478.46	29.85	0.00	448.61	-1.66	33600	--	3060	427	3040	4190	24700	30900	
4/3/2001	478.46	24.98	0.00	453.48	4.87	5390	--	660	10.8	304	356	15200	19300	
7/2/2001	478.46	31.35	0.00	447.11	-6.37	13000	--	1200	58	1300	930	25000	26000	
10/8/2001	478.46	32.69	0.00	445.77	-1.34	6100	--	500	ND<10	570	130	23000	22000	
1/3/2002	478.46	23.73	0.00	454.73	8.96	9900	--	700	130	24	1000	14000	12000	
4/5/2002	477.44	28.27	0.00	449.17	-5.56	9800	--	1100	180	220	1400	16000	30000	
7/2/2002	478.46	29.71	0.00	448.75	-0.42	--	ND<25000	ND<250	ND<250	ND<250	ND<500	12000	12000	
10/1/2002	478.46	31.18	0.00	447.28	-1.47	--	ND<25000	ND<250	ND<250	ND<250	ND<500	12000	12000	
12/30/2002	478.46	21.62	0.00	456.84	9.56	--	23000	330	170	870	4900	18000	18000	
5/2/2003	478.46	23.11	0.00	455.35	-1.49	--	19000	280	ND<50	880	1500	15000	15000	

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HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-3 continued														
7/1/2003	478.46	24.89	0.00	453.57	-1.78	--	19000	120	ND<100	180	880	22000	22000	
10/3/2003	478.46	26.59	0.00	451.87	-1.70	--	20000	170	ND<50	250	730	--	16000	
1/8/2004	478.46	21.92	0.00	456.54	4.67	--	17000	250	ND<100	770	1500	--	9700	
4/15/2004	478.46	23.59	0.00	454.87	-1.67	--	4600	ND<25	ND<25	36	100	--	3700	
7/15/2004	478.46	24.80	0.00	453.66	-1.21	--	2700	ND<25	ND<25	ND<25	ND<50	--	3400	
12/8/2004	478.46	29.13	0.00	449.33	-4.33	--	12000	ND<50	ND<50	250	140	--	13000	
3/23/2005	478.46	21.64	0.00	456.82	7.49	--	21000	94	ND<50	630	1200	--	6200	
6/28/2005	478.46	24.57	0.00	453.89	-2.93	--	6600	24	0.64	150	70	--	4700	
9/23/2005	478.46	27.64	0.00	450.82	-3.07	--	6000	31	ND<25	150	ND<50	--	8900	
12/30/2005	478.46	23.96	0.00	454.50	3.68	--	390	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	840	
3/24/2006	478.46	22.52	0.00	455.94	1.44	--	2700	28	ND<5.0	57	120	--	690	
6/26/2006	478.46	23.89	0.00	454.57	-1.37	--	2000	51	0.77	84	45	--	560	
9/26/2006	478.46	28.08	0.00	450.38	-4.19	--	1200	20	ND<2.5	5.2	2.8	--	170	
11/21/2006	478.46	27.23	0.00	451.23	0.85	--	1500	22	ND<5.0	5.8	ND<5.0	--	180	
3/26/2007	478.46	25.27	0.00	453.19	1.96	--	3900	65	0.61	50	160	--	95	
6/27/2007	478.46	27.51	0.00	450.95	-2.24	--	1400	29	ND<0.50	5.6	2.3	--	170	
9/23/2007	478.46	31.70	0.00	446.76	-4.19	--	1600	16	0.61	2.7	3.7	--	88	
12/20/2007	478.46	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	478.46	28.84	0.00	449.62	--	--	1400	17	ND<1.0	2.3	ND<2.0	--	150	
6/12/2008	478.46	31.23	0.00	447.23	-2.39	--	770	4.1	ND<1.0	ND<1.0	ND<2.0	--	27	
9/3/2008	478.46	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	480.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
76 Station 4186

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-3 continued														
6/11/2009	480.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	480.48	31.73	0.00	448.75	--	--	1100	4.2	ND<0.50	2.1	2.9	--	62	
6/15/2010	480.48	29.91	0.00	450.57	1.82	--	810	5.5	ND<1.0	ND<1.0	ND<2.0	--	48	
U-4			**(Screen Interval in feet: 35.0-45.0)**											
4/3/2001	476.93	31.63	0.00	445.30	--	ND	--	ND	ND	ND	ND	37.8	38.2	
7/2/2001	476.93	37.96	0.00	438.97	-6.33	ND	--	ND	ND	ND	ND	ND	5.3	
10/8/2001	476.93	44.24	0.00	432.69	-6.28	--	--	--	--	--	--	--	--	Not enough water to sample
1/3/2002	476.93	36.15	0.00	440.78	8.09	100	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	8.5	
4/5/2002	476.93	37.64	0.00	439.29	-1.49	ND<50	--	0.50	ND<0.50	ND<0.50	ND<0.50	4.1	--	
7/2/2002	476.93	36.85	0.00	440.08	0.79	--	67	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
10/1/2002	476.93	38.54	0.00	438.39	-1.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.8	
12/30/2002	476.93	32.64	0.00	444.29	5.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
5/2/2003	476.93	31.40	0.00	445.53	1.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.1	
7/1/2003	476.93	33.60	0.00	443.33	-2.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.1	
10/3/2003	476.93	37.63	0.00	439.30	-4.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.1	
1/8/2004	476.93	29.23	0.00	447.70	8.40	--	ND<50	0.55	ND<0.50	1.6	3.7	--	2.5	
4/15/2004	476.93	29.80	0.00	447.13	-0.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
7/15/2004	476.93	35.05	0.00	441.88	-5.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.1	
12/8/2004	476.93	35.10	0.00	441.83	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.0	
3/23/2005	476.93	25.38	0.00	451.55	9.72	--	ND<50	ND<0.50	ND<0.50	1.3	1.2	--	0.65	
6/28/2005	476.93	28.67	0.00	448.26	-3.29	--	34J	ND<0.50	0.15J	ND<0.50	ND<1.0	--	0.23J	
9/23/2005	476.93	32.25	0.00	444.68	-3.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
12/30/2005	476.93	31.02	0.00	445.91	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	

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U-4 continued														
3/24/2006	476.93	26.51	0.00	450.42	4.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	4.4	--	21	
6/26/2006	476.93	27.98	0.00	448.95	-1.47	--	63	ND<0.50	ND<0.50	0.56	ND<1.0	--	11	
9/26/2006	476.93	33.72	0.00	443.21	-5.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	13	
11/21/2006	476.93	33.43	0.00	443.50	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/26/2007	476.93	30.52	0.00	446.41	2.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/27/2007	476.93	38.20	0.00	438.73	-7.68	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.78	
9/23/2007	476.93	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
12/20/2007	476.93	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	476.93	34.18	0.00	442.75	--	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.9	
6/12/2008	476.93	39.50	0.00	437.43	-5.32	--	71	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.5	
9/3/2008	476.93	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	478.95	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	478.95	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	478.95	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	478.95	40.98	0.00	437.97	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.3	
6/15/2010	478.95	33.90	0.00	445.05	7.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-5			**(Screen Interval in feet: 37.0-47.0)**											
4/3/2001	476.51	31.75	0.00	444.76	--	ND	--	ND	0.728	ND	0.993	54.8	55.4	
7/2/2001	476.51	38.68	0.00	437.83	-6.93	ND	--	ND	ND	ND	ND	88	94	
10/8/2001	476.51	46.31	0.00	430.20	-7.63	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	54	
1/3/2002	476.51	36.55	0.00	439.96	9.76	ND<50	--	ND<0.50	0.59	ND<0.50	0.91	51	53	
4/5/2002	476.51	37.83	0.00	438.68	-1.28	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	37	--	
7/2/2002	476.51	36.92	0.00	439.59	0.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	43	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-5 continued														
10/1/2002	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Truck parked over well
12/30/2002	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
5/2/2003	476.51	31.55	0.00	444.96	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
7/1/2003	476.51	33.83	0.00	442.68	-2.28	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	46	
10/3/2003	476.51	37.72	0.00	438.79	-3.89	--	58	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
1/8/2004	476.51	29.21	0.00	447.30	8.51	--	ND<50	ND<0.50	ND<0.50	1.1	2.7	--	17	
4/15/2004	476.51	30.05	0.00	446.46	-0.84	--	57	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	37	
7/15/2004	476.51	35.15	0.00	441.36	-5.10	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
12/8/2004	476.51	35.33	0.00	441.18	-0.18	--	62	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	39	
3/23/2005	476.51	25.45	0.00	451.06	9.88	--	ND<50	ND<0.50	ND<0.50	0.51	ND<1.0	--	4.5	
6/28/2005	476.51	28.90	0.00	447.61	-3.45	--	73	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
9/23/2005	476.51	33.01	0.00	443.50	-4.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	53	
12/30/2005	476.51	30.96	0.00	445.55	2.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	72	
3/24/2006	476.51	22.42	0.00	454.09	8.54	--	2400	13	ND<5.0	48	58	--	54	
6/26/2006	476.51	29.31	0.00	447.20	-6.89	--	72	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	82	
9/26/2006	476.51	34.35	0.00	442.16	-5.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	51	
11/21/2006	476.51	32.43	0.00	444.08	1.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	25	
3/26/2007	476.51	31.20	0.00	445.31	1.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	29	
6/27/2007	476.51	38.62	0.00	437.89	-7.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	30	
9/23/2007	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
12/20/2007	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	476.51	34.28	0.00	442.23	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
6/12/2008	476.51	39.90	0.00	436.61	-5.62	--	55	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	28	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-5 continued														
9/3/2008	476.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	478.52	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	478.52	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	478.52	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	478.52	41.35	0.00	437.17	--	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	41	
6/15/2010	478.52	33.83	0.00	444.69	7.52	--	50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	76	
U-6			**(Screen Interval in feet: 35-45)**											
1/3/2002	478.38	33.99	0.00	444.39	--	5000	--	36	ND<25	260	450	ND<250	ND<10	
4/5/2002	478.38	36.18	0.00	442.20	-2.19	1300	--	16	ND<5.0	54	ND<5.0	ND<25	--	
7/2/2002	478.38	36.33	0.00	442.05	-0.15	--	1100	1.4	ND<0.50	16	ND<1.0	--	0.94	
10/1/2002	478.38	37.70	0.00	440.68	-1.37	--	2000	5.4	ND<0.50	62	ND<1.0	--	2.6	
12/30/2002	478.38	31.63	0.00	446.75	6.07	--	130	ND<0.50	ND<0.50	2.3	ND<1.0	--	ND<2.0	
5/2/2003	478.38	31.49	0.00	446.89	0.14	--	150	ND<0.50	ND<0.50	1.8	1.7	--	82	
7/1/2003	478.38	32.88	0.00	445.50	-1.39	--	190	1.8	ND<0.50	9.4	8.7	--	36	
10/3/2003	478.38	36.54	0.00	441.84	-3.66	--	ND<10000	140	ND<100	940	560	--	ND<400	
1/8/2004	478.38	30.45	0.00	447.93	6.09	--	3500	29	32	90	89	--	27	
4/15/2004	478.38	29.48	0.00	448.90	0.97	--	2400	19	ND<2.5	91	53	--	16	
7/15/2004	478.38	34.30	0.00	444.08	-4.82	--	8500	150	5.7	970	560	--	24	
12/8/2004	478.38	34.80	0.00	443.58	-0.50	--	2700	16	ND<2.5	28	ND<5.0	--	10	
3/23/2005	478.38	25.08	0.00	453.30	9.72	--	960	2.7	ND<0.50	9.6	4.8	--	2.5	
6/28/2005	478.38	28.75	0.00	449.63	-3.67	--	12000	120	4.9	930	780	--	21	
9/23/2005	478.38	32.38	0.00	446.00	-3.63	--	5200	78	ND<25	540	230	--	34	
12/30/2005	478.38	30.43	0.00	447.95	1.95	--	2400	15	0.67	99	12	--	3.5	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-6 continued														
3/24/2006	478.38	25.94	0.00	452.44	4.49	--	4300	52	ND<5.0	440	160	--	11	
6/26/2006	478.38	28.07	0.00	450.31	-2.13	--	5300	59	ND<5.0	520	300	--	ND<5.0	
9/26/2006	478.38	33.31	0.00	445.07	-5.24	--	7400	78	ND<5.0	490	160	--	6.4	
11/21/2006	478.38	31.65	0.00	446.73	1.66	--	1500	5.5	ND<0.50	37	2.4	--	1.4	
3/26/2007	478.38	29.25	0.00	449.13	2.40	--	480	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.50	
6/27/2007	478.38	35.09	0.00	443.29	-5.84	--	110	1.2	ND<0.50	1.3	ND<0.50	--	0.86	
9/23/2007	478.38	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/20/2007	478.38	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	478.38	33.82	0.00	444.56	--	--	580	1.5	ND<0.50	3.2	ND<1.0	--	ND<0.50	
6/12/2008	478.38	38.16	0.00	440.22	-4.34	--	2100	11	0.79	27	2.3	--	1.1	
9/3/2008	478.38	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	480.40	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.40	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	480.40	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	480.40	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/15/2010	480.40	33.37	0.00	447.03	--	--	1900	35	2.7	50	7.1	--	14	
U-7			**(Screen Interval in feet: 35-45)**											
1/3/2002	478.74	32.43	0.00	446.31	--	3100	--	93	ND<10	35	73	140	130	
4/5/2002	478.74	34.06	0.00	444.68	-1.63	630	--	22	0.53	2.6	ND<0.50	45	--	
7/2/2002	478.74	35.28	0.00	443.46	-1.22	--	1100	21	ND<0.50	6.9	ND<1.0	--	60	
10/1/2002	478.74	37.70	0.00	441.04	-2.42	--	1700	11	ND<0.50	3.1	ND<1.0	--	25	
12/30/2002	478.74	31.93	0.00	446.81	5.77	--	4600	41	5.3	32	13	--	34	
5/2/2003	478.74	31.81	0.00	446.93	0.12	--	3000	17	2.7	14	5.1	--	42	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-7 continued														
7/1/2003	478.74	33.47	0.00	445.27	-1.66	--	2300	11	0.53	8.0	1.5	--	35	
10/3/2003	478.74	35.84	0.00	442.90	-2.37	--	6500	30	ND<5.0	41	ND<10	--	53	
1/8/2004	478.74	30.35	0.00	448.39	5.49	--	1600	4.0	ND<1.0	4.2	8.7	--	56	
4/15/2004	478.74	29.03	0.00	449.71	1.32	--	3600	22	1.3	64	40	--	57	
7/15/2004	478.74	33.52	0.00	445.22	-4.49	--	4700	15	1.2	59	57	--	50	
12/8/2004	478.74	34.68	0.00	444.06	-1.16	--	5800	26	1.9	63	27	--	52	
3/23/2005	478.74	24.49	0.00	454.25	10.19	--	5600	18	1.3	42	14	--	39	
6/28/2005	478.74	28.83	0.00	449.91	-4.34	--	5400	16	1.1	35	10	--	45	
9/23/2005	478.74	32.35	0.00	446.39	-3.52	--	2400	13	1.3	31	6.9	--	46	
12/30/2005	478.74	30.18	0.00	448.56	2.17	--	2500	11	1.1	28	4.3	--	35	
3/24/2006	478.74	25.06	0.00	453.68	5.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
6/26/2006	478.74	28.30	0.00	450.44	-3.24	--	2500	11	1.1	45	15	--	55	
9/26/2006	478.74	33.47	0.00	445.27	-5.17	--	2300	7.8	0.84	17	2.1	--	61	
11/21/2006	478.74	31.66	0.00	447.08	1.81	--	3000	15	1.1	26	2.2	--	69	
3/26/2007	478.74	29.82	0.00	448.92	1.84	--	2200	1.2	ND<0.50	ND<0.50	ND<0.50	--	70	
6/27/2007	478.74	36.59	0.00	442.15	-6.77	--	590	5.8	ND<0.50	3.3	0.94	--	100	
9/23/2007	478.74	44.05	0.00	434.69	-7.46	--	--	--	--	--	--	--	--	Not enough water to sample
12/20/2007	478.74	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2008	478.74	33.83	0.00	444.91	--	--	1200	1.9	ND<0.50	0.82	ND<1.0	--	27	
6/12/2008	478.74	38.56	0.00	440.18	-4.73	--	1200	1.9	ND<0.50	1.1	ND<1.0	--	40	
9/3/2008	478.74	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/3/2008	480.78	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.78	--	--	--	--	--	--	--	--	--	--	--	--	Dry

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-7 continued														
6/11/2009	480.78	38.80	0.00	441.98	--	--	1100	2.4	0.80	3.2	ND<1.0	--	8.2	
12/9/2009	480.78	37.08	0.00	443.70	1.72	--	1200	2.8	0.72	5.3	1.5	--	8.1	
6/15/2010	480.78	33.84	0.00	446.94	3.24	--	1700	4.3	1.7	24	1.2	--	26	
U-8			**(Screen Interval in feet: 35-45)**											
12/3/2008	480.43	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.43	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	480.43	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	480.43	38.22	0.00	442.21	--	--	7200	42	ND<2.5	50	250	--	ND<2.5	
6/15/2010	480.43	32.91	0.00	447.52	5.31	--	2000	22	1.3	12	4.2	--	ND<1.0	
U-9			**(Screen Interval in feet: 35-45)**											
12/3/2008	479.39	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	479.39	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	479.39	--	--	--	--	--	--	--	--	--	--	--	--	Dry
12/9/2009	479.39	40.70	0.00	438.69	--	--	8800	51	ND<0.50	300	74	--	23	
6/15/2010	479.39	33.64	0.00	445.75	7.06	--	2000	10	2.1	61	18	--	4.9	
U-10			**(Screen Interval in feet: 37-47)**											
12/3/2008	480.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.51	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	480.51	44.30	0.00	436.21	--	--	1400	15	1.1	12	12	--	88	
12/9/2009	480.51	41.45	0.00	439.06	2.85	--	4300	280	71	180	900	--	320	
6/15/2010	480.51	34.42	0.00	446.09	7.03	--	12000	550	70	780	1400	--	530	
U-11			**(Screen Interval in feet: 35-45)**											

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-11 continued														
12/3/2008	480.34	--	--	--	--	--	--	--	--	--	--	--	--	Dry
2/18/2009	480.34	--	--	--	--	--	--	--	--	--	--	--	--	Dry
6/11/2009	480.34	43.18	0.00	437.16	--	--	1200	0.93	ND<0.50	ND<0.50	ND<1.0	--	2500	
12/9/2009	480.34	39.62	0.00	440.72	3.56	--	1300	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	2100	
6/15/2010	480.34	32.41	0.00	447.93	7.21	--	2800	ND<12	ND<12	21	ND<25	--	3600	
U-12			**(Screen Interval in feet: 63-73)**											
12/3/2008	480.75	50.08	0.00	430.67	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/18/2009	480.75	46.10	0.00	434.65	3.98	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/11/2009	480.75	45.85	0.00	434.90	0.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/9/2009	480.75	40.74	0.00	440.01	5.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/15/2010	480.75	33.53	0.00	447.22	7.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-13			**(Screen Interval in feet: 62-72)**											
12/3/2008	480.31	50.74	0.00	429.57	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.85	
2/18/2009	480.31	45.87	0.00	434.44	4.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.87	
6/11/2009	480.31	46.60	0.00	433.71	-0.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.81	
12/9/2009	480.31	41.28	0.00	439.03	5.32	--	ND<50	ND<0.50	1.1	ND<0.50	ND<1.0	--	ND<0.50	
6/15/2010	480.31	34.14	0.00	446.17	7.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-14			**(Screen Interval in feet: 65-75)**											
12/3/2008	479.38	49.90	0.00	429.48	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.4	
2/18/2009	479.38	46.65	0.00	432.73	3.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/11/2009	479.38	45.75	0.00	433.63	0.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/9/2009	479.38	40.60	0.00	438.78	5.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
July 1998 Through June 2010
76 Station 4186

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
U-14 continued														
6/15/2010	479.38	33.40	0.00	445.98	7.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-15			**(Screen Interval in feet: 61-71)**											
12/3/2008	479.99	49.58	0.00	430.41	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/18/2009	479.99	45.58	0.00	434.41	4.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.2	
6/11/2009	479.99	45.45	0.00	434.54	0.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
12/9/2009	479.99	40.38	0.00	439.61	5.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/15/2010	479.99	33.22	0.00	446.77	7.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.75	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-1												
10/2/2000	ND	--	--	--	--	--	--	--	--	--	--	--
7/1/2003	--	ND<500000	--	--	--	--	--	--	--	--	--	--
10/3/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
1/8/2004	--	ND<500	--	--	--	--	--	--	--	--	--	--
4/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
7/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
12/8/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
3/23/2005	--	ND<50	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/24/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
6/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
9/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
11/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/26/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<100	--	ND<50	--
U-2												
10/2/2000	ND	--	--	--	--	--	--	--	--	--	--	--
7/1/2003	--	ND<500000	--	--	--	--	--	--	--	--	--	--
10/3/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
1/8/2004	--	ND<500	--	--	--	--	--	--	--	--	--	--
4/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-2 continued												
7/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
12/8/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
3/23/2005	--	730	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/24/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
6/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
9/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
11/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/26/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/23/2007	69	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	--	58	--	2000
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<100	--	ND<50	--
U-3												
10/2/2000	63000	--	--	--	--	--	--	--	--	--	--	--
1/8/2001	49300	ND	ND	ND	ND	ND	ND	--	--	--	--	--
4/3/2001	22200	ND	ND	ND	ND	ND	ND	--	--	--	--	--
7/2/2001	27000	ND	ND	ND	ND	ND	ND	--	--	--	--	--
10/8/2001	33000	ND<140000000	ND<290	ND<290	ND<290	ND<290	ND<290	--	--	--	--	--
1/3/2002	17000	ND<50000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--
4/5/2002	66000	ND<25000000	ND<100	ND<100	ND<100	ND<100	ND<100	--	--	--	--	--
7/2/2002	47000	ND<13000000	ND<250	ND<250	ND<500	ND<250	ND<250	--	--	--	--	--
10/1/2002	ND<50000	ND<250000000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-3 continued												
12/30/2002	23000	ND<100000000	ND<400	ND<400	ND<400	ND<400	ND<400	--	--	--	--	--
5/2/2003	25000	ND<50000000	ND<200	ND<200	ND<200	ND<200	ND<200	--	--	--	--	--
7/1/2003	32000	ND<100000000	ND<400	ND<400	ND<400	ND<400	ND<400	--	--	--	--	--
10/3/2003	39000	ND<50000	ND<200	ND<200	ND<2.0	ND<200	ND<200	--	--	--	--	--
1/8/2004	ND<20000	ND<100000	ND<400	ND<400	ND<400	ND<400	ND<400	--	--	--	--	--
4/15/2004	18000	ND<2500	ND<0.5	ND<0.5	ND<1.0	ND<0.5	ND<0.5	--	--	--	--	--
7/15/2004	15000	ND<2500	ND<25	ND<25	ND<50	ND<25	ND<25	--	--	--	--	--
12/8/2004	34000	ND<5000	ND<50	ND<50	ND<100	ND<50	ND<50	--	--	--	--	--
3/23/2005	--	ND<5000	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<50000	--	--	--	--	--	--	--	--	--	--
12/30/2005	2000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58	--	--	--	--	--
3/24/2006	--	ND<2500	--	--	--	--	--	--	--	--	--	--
6/26/2006	18000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/26/2006	--	ND<1200	--	--	--	--	--	--	--	--	--	--
11/21/2006	33000	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
3/26/2007	13000	ND<250	ND<0.50	0.95	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	20000	ND<250	ND<0.50	0.79	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
9/23/2007	19000	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	15000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	ND<100	95	ND<50	1700
6/12/2008	21000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	--	210	--	2800
12/9/2009	8800	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/15/2010	11000	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	ND<100	92	ND<50	1600
U-4												
4/3/2001	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-4 continued												
7/2/2001	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
1/3/2002	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
7/1/2003	--	ND<500000	--	--	--	--	--	--	--	--	--	--
10/3/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
1/8/2004	--	ND<500	--	--	--	--	--	--	--	--	--	--
4/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
7/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
12/8/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
3/23/2005	--	ND<50	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/24/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
6/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
9/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
11/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/26/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	2000
6/12/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	2500
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	2200
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	1200
U-5												
4/3/2001	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
7/2/2001	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-5 continued												
10/8/2001	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
1/3/2002	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
7/1/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/3/2003	--	ND<500	--	--	--	--	--	--	--	--	--	--
1/8/2004	--	ND<500	--	--	--	--	--	--	--	--	--	--
4/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
7/15/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
12/8/2004	--	ND<50	--	--	--	--	--	--	--	--	--	--
3/23/2005	--	ND<50	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/24/2006	--	ND<2500	--	--	--	--	--	--	--	--	--	--
6/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
9/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
11/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/26/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	1300
6/12/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	830
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	1300
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	460
U-6												
1/3/2002	ND<200	ND<5000000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
7/1/2003	--	ND<500000	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-6 continued												
10/3/2003	--	ND<100000	--	--	--	--	--	--	--	--	--	--
1/8/2004	--	ND<5000	--	--	--	--	--	--	--	--	--	--
4/15/2004	--	ND<250	--	--	--	--	--	--	--	--	--	--
7/15/2004	--	ND<250	--	--	--	--	--	--	--	--	--	--
12/8/2004	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/23/2005	--	ND<50	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<50000	--	--	--	--	--	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/24/2006	--	ND<2500	--	--	--	--	--	--	--	--	--	--
6/26/2006	--	ND<2500	--	--	--	--	--	--	--	--	--	--
9/26/2006	--	ND<2500	--	--	--	--	--	--	--	--	--	--
11/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/26/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	520
6/12/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	910
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	690
U-7												
1/3/2002	30	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
7/1/2003	--	ND<500000	--	--	--	--	--	--	--	--	--	--
10/3/2003	--	ND<5000	--	--	--	--	--	--	--	--	--	--
1/8/2004	--	ND<1000	--	--	--	--	--	--	--	--	--	--
4/15/2004	--	ND<100	--	--	--	--	--	--	--	--	--	--
7/15/2004	--	ND<100	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-7 continued												
12/8/2004	--	ND<100	--	--	--	--	--	--	--	--	--	--
3/23/2005	--	ND<100	--	--	--	--	--	--	--	--	--	--
6/28/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
9/23/2005	--	ND<1000	--	--	--	--	--	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--	--	--	--	--	--
3/24/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
6/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
9/26/2006	--	ND<250	--	--	--	--	--	--	--	--	--	--
11/21/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/26/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
6/27/2007	14	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
3/17/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	670
6/12/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	520
6/11/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	380
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	390
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	340
U-8												
12/9/2009	ND<50	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<100	ND<100	ND<50	ND<50	650
6/15/2010	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	ND<100	ND<50	ND<50	390
U-9												
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	96
6/15/2010	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<100	ND<100	ND<50	ND<50	510
U-10												
6/11/2009	98	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<100	--	ND<50	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-10 continued												
12/9/2009	1100	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	150
6/15/2010	2400	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<100	ND<100	ND<50	ND<50	290
U-11												
6/11/2009	6800	ND<250	ND<0.50	1.8	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/9/2009	10000	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<100	ND<100	ND<50	ND<50	170
6/15/2010	6600	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12	ND<100	ND<100	51	ND<50	560
U-12												
12/3/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	330
2/18/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	370
6/11/2009	15	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	400
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	360
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	350
U-13												
12/3/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	140
2/18/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	120
6/11/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	120
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	15
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	13
U-14												
12/3/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	340
2/18/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	350
6/11/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	340
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	310
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	260

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Antimony (total) (µg/l)	Antimony (dissolved) (µg/l)	Arsenic (total) (µg/l)	Arsenic (dissolved) (µg/l)	Barium (total) (µg/l)
U-15												
12/3/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	320
2/18/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	140
6/11/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	52
12/9/2009	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	96
6/15/2010	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<100	ND<100	ND<50	ND<50	28

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Barium (dissolved) (µg/l)	Beryllium (total) (µg/l)	Beryllium (dissolved) (µg/l)	Cadmium (total) (µg/l)	Cadmium (dissolved) (µg/l)	Calcium (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Cobalt (total) (µg/l)	Cobalt (dissolved) (µg/l)	Copper (dissolved) (µg/l)
U-1												
3/17/2008	--	--	--	--	--	--	ND<2.0	--	--	--	--	--
6/15/2010	430	--	ND<10	--	ND<10	73	ND<2.0	--	ND<10	--	ND<50	ND<10
U-2												
3/17/2008	--	ND<10	--	ND<10	--	--	ND<2.0	540	--	150	--	--
6/15/2010	300	--	ND<10	--	ND<10	57	ND<2.0	--	ND<10	--	ND<50	ND<10
U-3												
3/17/2008	410	ND<10	ND<10	ND<10	ND<10	59	ND<2.0	450	ND<10	140	ND<50	ND<10
6/12/2008	--	ND<10	--	ND<10	--	--	--	980	--	350	--	--
6/15/2010	410	ND<10	ND<10	ND<10	ND<10	56	ND<2.0	420	ND<10	130	ND<50	ND<10
U-4												
3/17/2008	470	ND<10	ND<10	ND<10	ND<10	68	ND<2.0	410	ND<10	140	ND<50	ND<10
6/12/2008	52	ND<10	ND<10	ND<10	ND<10	2.4	ND<2.0	610	ND<10	180	ND<50	ND<10
12/9/2009	500	ND<10	ND<10	ND<10	ND<10	62	ND<2.0	610	ND<10	200	ND<50	ND<10
6/15/2010	420	ND<10	ND<10	ND<10	ND<10	69	30	270	29	80	ND<50	ND<10
U-5												
3/17/2008	390	ND<10	ND<10	ND<10	ND<10	67	ND<2.0	110	--	ND<50	ND<50	ND<10
6/12/2008	370	ND<10	ND<10	ND<10	ND<10	66	ND<2.0	86	ND<10	ND<50	ND<50	ND<10
12/9/2009	410	ND<10	ND<10	ND<10	ND<10	62	ND<2.0	180	ND<10	50	ND<50	ND<10
6/15/2010	390	ND<10	ND<10	ND<10	ND<10	59	ND<2.0	ND<10	ND<10	ND<50	ND<50	ND<10
U-6												
3/17/2008	330	ND<10	ND<10	ND<10	ND<10	73	ND<2.0	34	ND<10	ND<50	ND<50	ND<10
6/12/2008	600	ND<10	ND<10	ND<10	ND<10	69	ND<2.0	ND<10	ND<10	ND<50	ND<50	ND<10
6/15/2010	500	ND<10	ND<10	ND<10	ND<10	79	ND<2.0	37	ND<10	ND<50	ND<50	ND<10

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Barium (dissolved) (µg/l)	Beryllium (total) (µg/l)	Beryllium (dissolved) (µg/l)	Cadmium (total) (µg/l)	Cadmium (dissolved) (µg/l)	Calcium (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Cobalt (total) (µg/l)	Cobalt (dissolved) (µg/l)	Copper (dissolved) (µg/l)
U-7												
3/17/2008	510	ND<10	ND<10	ND<10	ND<10	68	ND<2.0	28	ND<10	ND<50	ND<50	ND<10
6/12/2008	490	ND<10	ND<10	ND<10	ND<10	60	ND<2.0	10	ND<10	ND<50	ND<50	ND<10
6/11/2009	340	ND<10	ND<10	ND<10	ND<10	31	ND<2.0	ND<10	ND<10	ND<50	ND<50	ND<10
12/9/2009	280	ND<10	ND<10	ND<10	ND<10	37	ND<2.0	27	ND<10	ND<50	ND<50	ND<10
6/15/2010	300	ND<10	ND<10	ND<10	ND<10	40	ND<2.0	ND<10	ND<10	ND<50	ND<50	ND<10
U-8												
12/9/2009	200	ND<10	ND<10	ND<10	ND<10	53	ND<2.0	ND<10	ND<10	78	ND<50	ND<10
6/15/2010	320	ND<10	ND<10	ND<10	ND<10	47	ND<2.0	27	ND<10	ND<50	ND<50	ND<10
U-9												
12/9/2009	64	ND<10	ND<10	ND<10	ND<10	69	ND<2.0	18	ND<10	ND<50	ND<50	ND<10
6/15/2010	270	ND<10	ND<10	ND<10	ND<10	50	ND<2.0	79	ND<10	ND<50	ND<50	ND<10
U-10												
6/11/2009	50	--	ND<10	--	ND<10	40	ND<2.0	--	ND<10	--	ND<50	ND<10
12/9/2009	59	ND<10	ND<10	ND<10	ND<10	47	ND<2.0	34	ND<10	ND<50	ND<50	ND<10
6/15/2010	250	ND<10	ND<10	ND<10	ND<10	50	ND<2.0	23	ND<10	ND<50	ND<50	ND<10
U-11												
12/9/2009	89	ND<10	ND<10	ND<10	ND<10	61	ND<2.0	31	ND<10	ND<50	ND<50	ND<10
6/15/2010	30	ND<10	ND<10	ND<10	ND<10	230	ND<2.0	54	ND<10	50	ND<50	ND<10
U-12												
12/3/2008	330	ND<10	ND<10	ND<10	ND<10	51	2.7	11	ND<10	ND<50	ND<50	ND<10
2/18/2009	330	ND<10	ND<10	ND<10	ND<10	50	2.7	ND<10	ND<10	ND<50	ND<50	ND<10
6/11/2009	320	ND<10	ND<10	ND<10	ND<10	47	ND<2.0	21	ND<10	ND<50	ND<50	ND<10
12/9/2009	330	ND<10	ND<10	ND<10	ND<10	47	2.3	ND<10	ND<10	ND<50	ND<50	ND<10
6/15/2010	320	ND<10	ND<10	ND<10	ND<10	48	2.2	ND<10	ND<10	ND<50	ND<50	ND<10

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Barium (dissolved) (µg/l)	Beryllium (total) (µg/l)	Beryllium (dissolved) (µg/l)	Cadmium (total) (µg/l)	Cadmium (dissolved) (µg/l)	Calcium (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Cobalt (total) (µg/l)	Cobalt (dissolved) (µg/l)	Copper (dissolved) (µg/l)
U-13												
12/3/2008	110	ND<10	ND<10	ND<10	ND<10	24	85	93	86	ND<50	ND<50	ND<10
2/18/2009	98	ND<10	ND<10	ND<10	ND<10	22	88	88	88	ND<50	ND<50	ND<10
6/11/2009	110	ND<10	ND<10	ND<10	ND<10	24	82	84	78	ND<50	ND<50	ND<10
12/9/2009	10	ND<10	ND<10	ND<10	ND<10	3.9	67	74	70	ND<50	ND<50	ND<10
6/15/2010	13	ND<10	ND<10	ND<10	ND<10	1.8	48	50	48	ND<50	ND<50	ND<10
U-14												
12/3/2008	320	ND<10	ND<10	ND<10	ND<10	47	3.0	ND<10	ND<10	ND<50	ND<50	ND<10
2/18/2009	320	ND<10	ND<10	ND<10	ND<10	46	3.4	ND<10	ND<10	ND<50	ND<50	ND<10
6/11/2009	310	ND<10	ND<10	ND<10	ND<10	45	2.9	16	ND<10	ND<50	ND<50	ND<10
12/9/2009	270	ND<10	ND<10	ND<10	ND<10	42	2.9	ND<10	ND<10	ND<50	ND<50	ND<10
6/15/2010	220	ND<10	ND<10	ND<10	ND<10	36	3.9	ND<10	ND<10	ND<50	ND<50	ND<10
U-15												
12/3/2008	300	ND<10	ND<10	ND<10	ND<10	47	3.7	ND<10	ND<10	ND<50	ND<50	ND<10
2/18/2009	91	ND<10	ND<10	ND<10	ND<10	14	10	11	ND<10	ND<50	ND<50	ND<10
6/11/2009	30	ND<10	ND<10	ND<10	ND<10	4.6	9.0	12	ND<10	ND<50	ND<50	ND<10
12/9/2009	64	ND<10	ND<10	ND<10	ND<10	13	17	20	17	ND<50	ND<50	ND<10
6/15/2010	19	ND<10	ND<10	ND<10	ND<10	3.8	22	25	21	ND<50	ND<50	ND<10

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Copper (total) (µg/l)	Lead (dissolved) (mg/l)	Lead (total) (µg/l)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) (µg/l)	Mercury (total) (µg/l)	Mercury (dissolved) (µg/l)	Molyb-denum (total) (µg/l)	Molyb-denum (dissolved) (µg/l)	Nickel (total) (µg/l)	Nickel (dissolved) (µg/l)	Potassium (mg/l)
U-1												
6/15/2010	--	ND<50	--	100	11	--	ND<0.20	--	ND<50	--	ND<10	2.9
U-2												
3/17/2008	330	--	71	--	--	1.7	--	ND<50	--	1500	--	--
6/15/2010	--	ND<50	--	85	ND<10	--	ND<0.20	--	ND<50	--	ND<10	2.2
U-3												
3/17/2008	240	ND<50	65	94	2600	0.84	ND<0.20	ND<50	ND<50	1200	ND<10	1.6
6/12/2008	590	--	160	--	--	2.4	--	81	--	2800	--	--
6/15/2010	230	ND<50	67	91	2300	ND<0.20	ND<0.20	ND<50	ND<50	1200	ND<10	1.6
U-4												
3/17/2008	250	ND<50	ND<50	88	2000	ND<0.20	ND<0.20	ND<50	ND<50	1300	ND<10	2.3
6/12/2008	360	ND<50	53	7.7	720	2.5	ND<0.20	ND<50	ND<50	2100	ND<10	ND<1.0
12/9/2009	300	ND<50	59	91	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	2000	ND<10	2.7
6/15/2010	110	ND<50	ND<50	87	ND<10	0.63	ND<0.20	ND<50	ND<50	770	ND<10	2.8
U-5												
3/17/2008	72	ND<50	ND<50	89	76	0.55	ND<0.20	ND<50	ND<50	360	ND<10	2.4
6/12/2008	53	ND<50	ND<50	73	36	0.26	ND<0.20	ND<50	ND<50	290	ND<10	1.9
12/9/2009	110	ND<50	ND<50	79	1000	ND<0.20	ND<0.20	ND<50	ND<50	540	ND<10	2.4
6/15/2010	ND<10	ND<50	ND<50	78	660	ND<0.20	ND<0.20	ND<50	ND<50	30	ND<10	2.2
U-6												
3/17/2008	17	ND<50	ND<50	120	4300	ND<0.20	ND<0.20	ND<50	ND<50	91	ND<10	1.0
6/12/2008	ND<10	ND<50	ND<50	110	3800	0.60	ND<0.20	ND<50	ND<50	47	ND<10	1.3
6/15/2010	25	ND<50	ND<50	140	3900	ND<0.20	ND<0.20	ND<50	ND<50	100	ND<10	1.4
U-7												

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Copper (total) (µg/l)	Lead (dissolved) (mg/l)	Lead (total) (µg/l)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) (µg/l)	Mercury (total) (µg/l)	Mercury (dissolved) (µg/l)	Molyb-denum (total) (µg/l)	Molyb-denum (dissolved) (µg/l)	Nickel (total) (µg/l)	Nickel (dissolved) (µg/l)	Potassium (mg/l)
U-7 continued												
3/17/2008	16	ND<50	ND<50	110	2300	ND<0.20	ND<0.20	ND<50	ND<50	79	ND<10	2.4
6/12/2008	ND<10	ND<50	ND<50	92	2400	ND<0.20	ND<0.20	ND<50	ND<50	38	ND<10	2.4
6/11/2009	ND<10	ND<0.05	ND<50	50	1100	ND<0.20	ND<0.20	ND<50	ND<50	25	ND<10	2.6
12/9/2009	14	ND<50	ND<50	64	1800	ND<0.20	ND<0.20	ND<50	ND<50	74	ND<10	2.1
6/15/2010	ND<10	ND<50	ND<50	68	1900	ND<0.20	ND<0.20	ND<50	ND<50	12	ND<10	1.8
U-8												
12/9/2009	130	ND<50	ND<50	91	4000	ND<0.20	ND<0.20	ND<50	ND<50	690	ND<10	2.8
6/15/2010	11	ND<50	ND<50	83	2600	ND<0.20	ND<0.20	ND<50	ND<50	57	ND<10	1.8
U-9												
12/9/2009	15	ND<50	ND<50	120	3800	ND<0.20	ND<0.20	ND<50	ND<50	35	ND<10	8.5
6/15/2010	40	ND<50	ND<50	96	2500	ND<0.20	ND<0.20	ND<50	ND<50	230	ND<10	3.2
U-10												
6/11/2009	--	ND<0.05	--	87	780	--	ND<0.20	--	ND<50	--	ND<10	30
12/9/2009	17	ND<50	ND<50	110	1400	ND<0.20	ND<0.20	ND<50	ND<50	110	ND<10	29
6/15/2010	19	ND<50	ND<50	110	2200	ND<0.20	ND<0.20	ND<50	ND<50	68	ND<10	7.5
U-11												
12/9/2009	22	ND<50	ND<50	110	2500	ND<0.20	ND<0.20	ND<50	ND<50	83	ND<10	4.3
6/15/2010	33	ND<50	ND<50	1800	20000	ND<0.20	ND<0.20	ND<50	ND<50	230	93	4.1
U-12												
12/3/2008	12	ND<50	ND<50	73	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	24	ND<10	2.6
2/18/2009	ND<10	ND<50	ND<50	71	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	12	ND<10	2.3
6/11/2009	ND<10	ND<0.05	ND<50	70	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	62	ND<10	2.2
12/9/2009	ND<10	ND<50	ND<50	70	26	ND<0.20	ND<0.20	ND<50	ND<50	10	ND<10	2.7
6/15/2010	ND<10	ND<50	ND<50	69	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	10	ND<10	2.4

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Copper (total) (µg/l)	Lead (dissolved) (mg/l)	Lead (total) (µg/l)	Magnesium (dissolved) (mg/l)	Manganese (dissolved) (µg/l)	Mercury (total) (µg/l)	Mercury (dissolved) (µg/l)	Molyb-denum (total) (µg/l)	Molyb-denum (dissolved) (µg/l)	Nickel (total) (µg/l)	Nickel (dissolved) (µg/l)	Potassium (mg/l)
U-13												
12/3/2008	21	ND<50	ND<50	53	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	8.3
2/18/2009	ND<10	ND<50	ND<50	52	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	14
6/11/2009	ND<10	ND<0.05	ND<50	53	12	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	13
12/9/2009	ND<10	ND<50	ND<50	45	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	88
6/15/2010	ND<10	ND<50	ND<50	47	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	71
U-14												
12/3/2008	26	ND<50	ND<50	67	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	15	ND<10	2.6
2/18/2009	ND<10	ND<50	ND<50	66	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	2.5
6/11/2009	ND<10	ND<0.05	ND<50	64	17	ND<0.20	ND<0.20	ND<50	ND<50	40	ND<10	2.5
12/9/2009	ND<10	ND<50	ND<50	53	27	ND<0.20	ND<0.20	ND<50	ND<50	10	ND<10	3.1
6/15/2010	ND<10	ND<50	ND<50	44	21	ND<0.20	ND<0.20	ND<50	ND<50	13	ND<10	3.9
U-15												
12/3/2008	12	ND<50	ND<50	69	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	3.7
2/18/2009	ND<10	ND<50	ND<50	62	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	39
6/11/2009	ND<10	ND<0.05	ND<50	62	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	ND<10	ND<10	36
12/9/2009	ND<10	ND<50	ND<50	70	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	11	ND<10	41
6/15/2010	ND<10	ND<50	ND<50	65	ND<10	ND<0.20	ND<0.20	ND<50	ND<50	17	10	52

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Selenium (total) (µg/l)	Selenium (dissolved) (µg/l)	Silver (total) (µg/l)	Silver (dissolved) (µg/l)	Sodium (mg/l)	Thallium (total) (µg/l)	Thallium (dissolved) (µg/l)	Vanadium (total) (µg/l)	Vanadium (dissolved) (µg/l)	Zinc (dissolved) (µg/l)	Zinc (total) (µg/l)	Chloride (mg/l)
U-1												
6/15/2010	--	ND<100	--	ND<10	61	--	ND<100	--	ND<10	ND<10	--	58
U-2												
3/17/2008	ND<100	--	ND<10	--	--	ND<100	--	240	--	--	590	--
6/15/2010	--	ND<100	--	ND<10	66	--	ND<100	--	ND<10	ND<10	--	28
U-3												
3/17/2008	ND<100	ND<100	ND<10	ND<10	41	ND<100	ND<100	190	ND<10	ND<10	360	14
6/12/2008	ND<100	--	ND<10	--	--	ND<100	--	410	--	--	970	--
6/15/2010	ND<100	ND<100	ND<10	ND<10	36	ND<100	ND<100	170	ND<10	ND<10	360	9.9
U-4												
3/17/2008	ND<100	ND<100	ND<10	ND<10	35	ND<100	ND<100	190	ND<10	ND<10	340	37
6/12/2008	ND<100	ND<100	ND<10	ND<10	9.0	ND<100	ND<100	260	ND<10	ND<10	420	38
12/9/2009	ND<100	ND<100	ND<10	ND<10	35	ND<100	ND<100	230	ND<10	ND<10	400	35
6/15/2010	ND<100	ND<100	ND<10	ND<10	65	ND<100	ND<100	96	ND<10	ND<10	190	44
U-5												
3/17/2008	ND<100	ND<100	ND<10	ND<10	49	ND<100	ND<100	60	ND<100	ND<10	120	32
6/12/2008	ND<100	ND<100	ND<10	ND<10	26	ND<100	ND<100	44	ND<10	ND<10	87	31
12/9/2009	ND<100	ND<100	ND<10	ND<10	32	ND<100	ND<100	93	ND<10	ND<10	180	43
6/15/2010	ND<100	ND<100	ND<10	ND<10	42	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	61
U-6												
3/17/2008	ND<100	ND<100	ND<10	ND<10	90	ND<100	ND<100	15	ND<10	ND<10	79	160
6/12/2008	ND<100	ND<100	ND<10	ND<10	76	ND<100	ND<100	ND<10	ND<10	11	ND<50	190
6/15/2010	ND<100	ND<100	ND<10	ND<10	96	ND<100	ND<100	14	ND<10	ND<10	72	170
U-7												

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Selenium (total) (µg/l)	Selenium (dissolved) (µg/l)	Silver (total) (µg/l)	Silver (dissolved) (µg/l)	Sodium (mg/l)	Thallium (total) (µg/l)	Thallium (dissolved) (µg/l)	Vanadium (total) (µg/l)	Vanadium (dissolved) (µg/l)	Zinc (dissolved) (µg/l)	Zinc (total) (µg/l)	Chloride (mg/l)
U-7 continued												
3/17/2008	ND<100	ND<100	ND<10	ND<10	68	ND<100	ND<100	12	ND<10	ND<10	51	91
6/12/2008	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10	11	ND<50	120
6/11/2009	ND<100	ND<100	ND<10	ND<10	62	ND<100	ND<100	ND<10	ND<10	26	ND<50	110
12/9/2009	ND<100	ND<100	ND<10	ND<10	64	ND<100	ND<100	13	ND<10	ND<10	ND<50	110
6/15/2010	ND<100	ND<100	ND<10	ND<10	66	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	110
U-8												
12/9/2009	ND<100	ND<100	ND<10	ND<10	58	ND<100	ND<100	96	ND<10	ND<10	180	59
6/15/2010	ND<100	ND<100	ND<10	ND<10	50	ND<100	ND<100	10	ND<10	ND<10	ND<50	59
U-9												
12/9/2009	ND<100	ND<100	ND<10	ND<10	84	ND<100	ND<100	ND<10	ND<10	ND<10	55	100
6/15/2010	ND<100	ND<100	ND<10	ND<10	61	ND<100	ND<100	31	ND<10	ND<10	94	70
U-10												
6/11/2009	--	ND<100	--	ND<10	170	--	ND<100	--	ND<10	24	--	110
12/9/2009	ND<100	ND<100	ND<10	ND<10	130	ND<100	ND<100	16	ND<10	ND<10	ND<50	47
6/15/2010	ND<100	ND<100	ND<10	ND<10	67	ND<100	ND<100	ND<10	ND<10	30	ND<50	46
U-11												
12/9/2009	ND<100	ND<100	ND<10	ND<10	67	ND<100	ND<100	19	ND<10	ND<10	ND<50	70
6/15/2010	ND<100	ND<100	ND<10	ND<10	120	ND<100	ND<100	29	ND<10	10	62	60
U-12												
12/3/2008	ND<100	ND<100	ND<10	ND<10	49	ND<100	ND<100	ND<10	ND<10	26	ND<50	85
2/18/2009	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	13	ND<50	86
6/11/2009	ND<100	ND<100	ND<10	ND<10	50	ND<100	ND<100	ND<10	ND<10	30	ND<50	91
12/9/2009	ND<100	ND<100	ND<10	ND<10	51	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	83
6/15/2010	ND<100	ND<100	ND<10	ND<10	50	ND<100	ND<100	ND<10	ND<10	18	ND<50	85

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Selenium (total) (µg/l)	Selenium (dissolved) (µg/l)	Silver (total) (µg/l)	Silver (dissolved) (µg/l)	Sodium (mg/l)	Thallium (total) (µg/l)	Thallium (dissolved) (µg/l)	Vanadium (total) (µg/l)	Vanadium (dissolved) (µg/l)	Zinc (dissolved) (µg/l)	Zinc (total) (µg/l)	Chloride (mg/l)
U-13												
12/3/2008	ND<100	ND<100	ND<10	ND<10	59	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	95
2/18/2009	ND<100	ND<100	ND<10	ND<10	65	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	96
6/11/2009	ND<100	ND<100	ND<10	ND<10	66	ND<100	ND<100	ND<10	ND<10	29	ND<50	100
12/9/2009	ND<100	ND<100	ND<10	ND<10	110	ND<100	ND<10	ND<10	ND<10	ND<10	ND<50	82
6/15/2010	ND<100	ND<100	ND<10	ND<10	110	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	80
U-14												
12/3/2008	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	43	69	85
2/18/2009	ND<100	ND<100	ND<10	ND<10	47	ND<100	ND<100	ND<10	ND<10	24	53	84
6/11/2009	ND<100	ND<100	ND<10	ND<10	47	ND<100	ND<100	ND<10	ND<10	34	ND<50	86
12/9/2009	ND<100	ND<100	ND<10	ND<10	41	ND<100	ND<100	ND<10	ND<10	21	64	66
6/15/2010	ND<100	ND<100	ND<10	ND<10	35	ND<100	ND<100	ND<10	ND<10	19	57	55
U-15												
12/3/2008	ND<100	ND<100	ND<10	ND<10	48	ND<100	ND<100	ND<10	ND<10	36	54	87
2/18/2009	ND<100	ND<100	ND<10	ND<10	78	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	86
6/11/2009	ND<100	ND<100	ND<10	ND<10	76	ND<100	ND<100	ND<10	ND<10	24	ND<50	92
12/9/2009	ND<100	ND<100	ND<10	ND<10	80	ND<100	ND<100	ND<10	ND<10	ND<10	52	85
6/15/2010	ND<100	ND<100	ND<10	ND<10	95	ND<100	ND<100	ND<10	ND<10	ND<10	ND<50	84

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-1											
12/30/2002	--	--	--	--	--	--	--	0.60	--	--	91
5/2/2003	--	--	--	--	--	--	--	0.50	--	--	90
7/1/2003	--	--	--	--	--	--	--	0.60	--	--	110
10/3/2003	--	--	--	--	--	--	--	3.79	--	--	329
1/8/2004	--	--	--	--	--	--	--	12.36	--	--	184
4/15/2004	--	--	--	--	--	--	--	10.56	--	--	213
7/15/2004	--	--	--	--	--	--	--	6.62	--	--	251
12/8/2004	--	--	--	--	--	--	--	2.66	--	--	68
3/23/2005	--	--	--	--	--	--	--	3.12	--	--	091
6/28/2005	--	--	--	--	--	--	--	8.84	--	--	153
9/23/2005	--	--	--	--	--	--	--	2.26	--	--	187
12/30/2005	--	--	--	--	--	--	--	7.74	--	--	159
3/24/2006	--	--	--	--	--	--	--	4.02	3.88	036	016
6/26/2006	--	--	--	--	--	--	--	7.05	5.50	008	007
9/26/2006	--	--	--	--	--	--	--	4.24	4.66	203	200
11/21/2006	--	--	--	--	--	--	--	4.24	4.56	1.97	2.00
3/26/2007	--	--	--	--	--	--	--	6.58	6.98	107	102
6/27/2007	--	--	--	--	--	--	--	4.98	4.85	20	34
3/17/2008	--	--	--	--	--	--	--	3.12	2.43	151	153
6/15/2010	0.15	17	40	740	1295	6.62	19.5	1.36	--	--	221
U-2											
10/1/2002	--	--	--	--	--	--	--	1.40	--	--	--
12/30/2002	--	--	--	--	--	--	--	2.80	--	--	120
5/2/2003	--	--	--	--	--	--	--	150.00	--	--	120
7/1/2003	--	--	--	--	--	--	--	1.20	--	--	110

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-2 continued											
10/3/2003	--	--	--	--	--	--	--	5.61	--	--	321
1/8/2004	--	--	--	--	--	--	--	12.11	--	--	- 6
4/15/2004	--	--	--	--	--	--	--	11.39	--	--	259
7/15/2004	--	--	--	--	--	--	--	7.46	--	--	238
12/8/2004	--	--	--	--	--	--	--	3.57	--	--	132
3/23/2005	--	--	--	--	--	--	--	4.57	--	--	024
6/28/2005	--	--	--	--	--	--	--	8.08	--	--	230
9/23/2005	--	--	--	--	--	--	--	5.47	--	--	188
12/30/2005	--	--	--	--	--	--	--	8.33	--	--	177
3/24/2006	--	--	--	--	--	--	--	4.80	6.20	-004	002
6/26/2006	--	--	--	--	--	--	--	6.20	4.51	040	046
9/26/2006	--	--	--	--	--	--	--	3.70	3.49	-31	-17
11/21/2006	--	--	--	--	--	--	--	3.70	3.45	-29	-20
3/26/2007	--	--	--	--	--	--	--	10.05	10.31	90	95
6/27/2007	--	--	--	--	--	--	--	3.87	4.21	-63	-41
9/23/2007	--	--	--	--	--	--	--	--	--	-133	-48
3/17/2008	--	--	--	600	--	--	--	3.31	3.13	154	153
6/12/2008	--	--	--	--	--	--	--	--	8.32	177	--
6/15/2010	0.16	16	74	680	1108	6.54	19.5	3.00	--	--	202
U-3											
10/1/2002	--	--	--	--	--	--	--	0.50	--	--	- 47
12/30/2002	--	--	--	--	--	--	--	0.20	--	--	106
5/2/2003	--	--	--	--	--	--	--	0.50	--	--	85
7/1/2003	--	--	--	--	--	--	--	0.50	--	--	90
10/3/2003	--	--	--	--	--	--	--	3.80	--	--	- 27

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-3 continued											
1/8/2004	--	--	--	--	--	--	--	12.82	--	--	133
4/15/2004	--	--	--	--	--	--	--	3.11	--	--	24
7/15/2004	--	--	--	--	--	--	--	1.90	--	--	53
12/8/2004	--	--	--	--	--	--	--	1.30	--	--	-81
3/23/2005	--	--	--	--	--	--	--	0.52	--	--	-087
6/28/2005	--	--	--	--	--	--	--	1.47	--	--	-151
9/23/2005	--	--	--	--	--	--	--	1.40	--	--	-80
12/30/2005	--	--	--	--	--	--	--	1.45	--	--	-068
3/24/2006	--	--	--	--	--	--	--	1.53	0.79	003	009
6/26/2006	--	--	--	--	--	--	--	2.19	3.56	015	017
9/26/2006	--	--	--	--	--	--	--	1.06	1.10	-72	-95
11/21/2006	--	--	--	--	--	--	--	1.04	1.10	-83	-96
3/26/2007	--	--	--	--	--	--	--	7.08	6.99	78	68
6/27/2007	--	--	--	--	--	--	--	4.89	4.79	-79	-82
9/23/2007	--	--	--	--	--	--	--	--	--	-114	-88
3/17/2008	0.073	ND<0.44	ND<1.0	530	--	--	--	2.88	1.96	-5	-33
6/12/2008	--	--	--	--	--	--	--	0.11	1.30	-17	-40
12/9/2009	--	--	--	--	781	6.95	16.7	--	--	--	--
6/15/2010	0.15	ND<0.44	ND<1.0	630	1019	6.52	19.6	0.94	--	--	7
U-4											
10/1/2002	--	--	--	--	--	--	--	1.00	--	--	83
12/30/2002	--	--	--	--	--	--	--	0.40	--	--	126
5/2/2003	--	--	--	--	--	--	--	0.70	--	--	120
7/1/2003	--	--	--	--	--	--	--	0.60	--	--	130
10/3/2003	--	--	--	--	--	--	--	2.06	--	--	3.05

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-4 continued											
1/8/2004	--	--	--	--	--	--	--	11.90	--	--	76
4/15/2004	--	--	--	--	--	--	--	3.30	--	--	116
7/15/2004	--	--	--	--	--	--	--	2.50	--	--	32
12/8/2004	--	--	--	--	--	--	--	2.09	--	--	47
3/23/2005	--	--	--	--	--	--	--	0.04	--	--	021
6/28/2005	--	--	--	--	--	--	--	2.24	--	--	120
9/23/2005	--	--	--	--	--	--	--	3.01	--	--	176
12/30/2005	--	--	--	--	--	--	--	1.96	--	--	175
3/24/2006	--	--	--	--	--	--	--	1.17	1.48	015	014
6/26/2006	--	--	--	--	--	--	--	2.55	1.31	031	034
9/26/2006	--	--	--	--	--	--	--	1.38	1.23	-54	-7
11/21/2006	--	--	--	--	--	--	--	1.38	1.13	-60	-10
3/26/2007	--	--	--	--	--	--	--	7.09	7.28	14	25
6/27/2007	--	--	--	--	--	--	--	2.82	2.62	82	73
3/17/2008	0.12	0.61	29	540	--	--	--	2.47	2.71	153	150
6/12/2008	0.14	ND<0.44	30	610	--	--	--	1.26	4.00	185	188
12/9/2009	0.096	0.59	37	590	927	7.55	15.5	1.82	--	--	-84
6/15/2010	0.18	24	37	630	1057	7.71	20.2	1.02	--	--	54
U-5											
5/2/2003	--	--	--	--	--	--	--	0.60	--	--	120
7/1/2003	--	--	--	--	--	--	--	0.90	--	--	145
10/3/2003	--	--	--	--	--	--	--	2.21	--	--	3.13
1/8/2004	--	--	--	--	--	--	--	11.27	--	--	104
4/15/2004	--	--	--	--	--	--	--	3.35	--	--	65
7/15/2004	--	--	--	--	--	--	--	2.87	--	--	66

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-5 continued											
12/8/2004	--	--	--	--	--	--	--	1.67	--	--	102
3/23/2005	--	--	--	--	--	--	--	0.75	--	--	131
6/28/2005	--	--	--	--	--	--	--	2.29	--	--	103
9/23/2005	--	--	--	--	--	--	--	2.05	--	--	172
12/30/2005	--	--	--	--	--	--	--	1.39	--	--	171
3/24/2006	--	--	--	--	--	--	--	0.97	0.97	011	013
6/26/2006	--	--	--	--	--	--	--	7.18	7.23	091	084
9/26/2006	--	--	--	--	--	--	--	1.19	0.80	44	44
11/21/2006	--	--	--	--	--	--	--	1.12	0.79	41	47
3/26/2007	--	--	--	--	--	--	--	3.20	3.60	31	52
6/27/2007	--	--	--	--	--	--	--	2.01	1.67	66	58
3/17/2008	0.086	3.8	31	530	--	--	--	2.91	1.98	151	156
6/12/2008	0.070	1.8	26	550	--	--	--	1.89	1.22	172	171
12/9/2009	0.17	ND<0.44	30	530	792	7.40	18.2	1.12	--	--	-101
6/15/2010	0.13	3.3	36	550	1087	7.59	21.4	0.25	--	--	67
U-6											
10/1/2002	--	--	--	--	--	--	--	0.90	--	--	--
12/30/2002	--	--	--	--	--	--	--	0.20	--	--	88
5/2/2003	--	--	--	--	--	--	--	0.90	--	--	145
7/1/2003	--	--	--	--	--	--	--	0.70	--	--	120
10/3/2003	--	--	--	--	--	--	--	2.26	--	--	12
1/8/2004	--	--	--	--	--	--	--	11.95	--	--	- 37
4/15/2004	--	--	--	--	--	--	--	3.47	--	--	- 20
7/15/2004	--	--	--	--	--	--	--	3.25	--	--	- 43
12/8/2004	--	--	--	--	--	--	--	0.94	--	--	-91

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-6 continued											
3/23/2005	--	--	--	--	--	--	--	0.55	--	--	-077
6/28/2005	--	--	--	--	--	--	--	0.86	--	--	-129
9/23/2005	--	--	--	--	--	--	--	1.97	--	--	-82
12/30/2005	--	--	--	--	--	--	--	1.01	--	--	-66
3/24/2006	--	--	--	--	--	--	--	0.79	1.25	011	009
6/26/2006	--	--	--	--	--	--	--	1.23	5.48	015	027
9/26/2006	--	--	--	--	--	--	--	6.97	7.05	-67	-69
11/21/2006	--	--	--	--	--	--	--	0.83	1.05	-65	-69
3/26/2007	--	--	--	--	--	--	--	6.40	6.26	15	9
6/27/2007	--	--	--	--	--	--	--	3.51	3.20	-64	-54
3/17/2008	0.066	ND<0.44	51	860	--	--	--	1.19	1.87	101	26
6/12/2008	0.11	0.45	27	860	--	--	--	1.10	2.08	-20	-26
6/15/2010	0.17	ND<0.44	13	960	1830	6.57	19.3	1.04	--	--	-55
U-7											
10/1/2002	--	--	--	--	--	--	--	1.80	--	--	- 60
12/30/2002	--	--	--	--	--	--	--	0.10	--	--	121
5/2/2003	--	--	--	--	--	--	--	0.40	--	--	105
7/1/2003	--	--	--	--	--	--	--	0.50	--	--	95
10/3/2003	--	--	--	--	--	--	--	2.91	--	--	- 21
1/8/2004	--	--	--	--	--	--	--	11.85	--	--	- 51
4/15/2004	--	--	--	--	--	--	--	4.68	--	--	- 16
7/15/2004	--	--	--	--	--	--	--	2.55	--	--	- 52
12/8/2004	--	--	--	--	--	--	--	1.20	--	--	-88
3/23/2005	--	--	--	--	--	--	--	0.21	--	--	-088
6/28/2005	--	--	--	--	--	--	--	1.32	--	--	-160

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-7 continued											
9/23/2005	--	--	--	--	--	--	--	2.25	--	--	108
12/30/2005	--	--	--	--	--	--	--	1.12	--	--	105
3/24/2006	--	--	--	--	--	--	--	1.09	0.99	008	009
6/26/2006	--	--	--	--	--	--	--	1.46	1.27	025	032
9/26/2006	--	--	--	--	--	--	--	0.78	1.02	-47	-63
11/21/2006	--	--	--	--	--	--	--	0.88	0.98	-43	-59
3/26/2007	--	--	--	--	--	--	--	5.85	6.00	14	8
6/27/2007	--	--	--	--	--	--	--	2.98	2.60	-90	-102
3/17/2008	0.077	ND<0.44	7.0	640	--	--	--	3.06	2.86	137	120
6/12/2008	0.15	19	13	700	--	--	--	0.98	2.27	9	-11
6/11/2009	ND<0.050	ND<0.44	30	490	--	--	--	--	--	--	--
12/9/2009	0.12	ND<0.44	13	510	772	7.27	17.0	0.94	--	--	23
6/15/2010	0.15	ND<0.44	12	540	1080	7.76	22.4	0.15	--	--	17
U-8											
12/9/2009	0.19	ND<0.44	4.1	630	972	7.87	16.6	2.06	--	--	-78
6/15/2010	0.19	0.59	16	600	2757	7.09	21.2	0.51	--	--	-32
U-9											
12/9/2009	0.30	ND<0.44	ND<1.0	860	1203	6.94	13.5	1.29	--	--	-10
6/15/2010	0.20	ND<0.44	12	630	1196	6.82	19.4	2.45	--	--	-89
U-10											
6/11/2009	0.49	ND<0.44	190	970	--	--	--	--	--	--	--
12/9/2009	0.33	ND<0.44	76	880	1009	7.04	17.9	0.94	--	--	-77
6/15/2010	0.16	ND<0.44	8.2	700	1188	7.18	21.4	0.48	--	--	-66
U-11											

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-11 continued											
12/9/2009	0.26	ND<0.44	4.9	700	896	7.47	17.3	1.39	--	--	91
6/15/2010	0.67	ND<4.4	7600	11000	5791	6.81	20.9	0.65	--	--	63
U-12											
12/3/2008	0.14	28	59	630	--	--	--	2.85	2.71	66	26
2/18/2009	0.086	29	61	610	1007	7.82	18.2	2.74	2.65	145	121
6/11/2009	0.13	29	61	610	--	--	--	--	--	--	--
12/9/2009	0.20	26	57	550	813	7.75	17.1	2.51	--	--	62
6/15/2010	0.19	26	56	580	979.4	7.41	21.4	2.53	--	--	65
U-13											
12/3/2008	0.16	26	65	610	--	--	--	1.70	2.21	62	58
2/18/2009	0.20	26	69	510	1022	7.75	18.0	1.49	1.52	171	110
6/11/2009	0.14	25	71	550	--	--	--	--	--	--	--
12/9/2009	0.15	22	59	600	820	7.61	16.6	1.65	--	--	-52
6/15/2010	0.091	25	54	620	996.2	7.46	20.2	1.75	--	--	37
U-14											
12/3/2008	0.14	25	55	660	--	--	--	2.63	2.96	91	59
2/18/2009	0.13	25	57	560	950.4	7.70	18.4	2.25	2.55	106	113
6/11/2009	0.11	25	56	600	--	--	--	--	--	--	--
12/9/2009	0.084	26	44	460	776	7.90	17.9	1.66	--	--	-22
6/15/2010	0.10	25	38	400	971.6	7.53	18.9	1.67	--	--	-26
U-15											
12/3/2008	0.13	21	52	670	--	--	--	2.21	2.55	108	118
2/18/2009	0.12	23	54	570	962.4	7.66	17.4	1.98	1.95	109	104
6/11/2009	0.12	22	55	560	--	--	--	--	--	--	--

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 4186

Date Sampled	Fluoride (mg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	TDS (mg/l)	Field Con-ductivity (µS/cm)	Field pH (pH unit)	Field Temp. (deg. C)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)	Post-purge ORP (mV)
U-15 continued											
12/9/2009	0.17	18	52	560	831	7.85	15.1	1.98	--	--	-84
6/15/2010	0.15	21	56	590	985.7	7.68	20.8	2.09	--	--	40

APPENDIX C

Certified Laboratory Analytical Reports

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/16/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 4186
BC Work Order: 1007537
Invoice ID: B081942

Enclosed are the results of analyses for samples received by the laboratory on 6/1/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

Table of Contents

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Chain Of Custody Record

ConocoPhillips Site Manager: Shelby Lathrop

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS, Attn: Dee Hutchinson, 3611 South Harbor, Suite 200, Santa Ana, CA. 92704

ConocoPhillips SAP Project Number:

ConocoPhillips Requisition / Line Number:

DATE: ______ PAGE: ____ of ____

SAMPLING COMPANY:	Delta Consultants
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER	SS# 4186
GLOBAL ID NO.:	T0609700288
ADDRESS:	11050 White Rock Road #110, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	1771 1st St, Livermore, CA
CONOCOPHILLIPS SITE MANAGER:	Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to):	James Barnard
TELEPHONE:	(916) 503-1279
FAX:	(916) 638-8385
E-MAIL:	jbarnard@deltaenv.com
EDF DELIVERABLE TO (RP or Designee):	Jan Wagoner (Delta)
PHONE NO.:	916-503-1275
E-MAIL:	Terry.L.Grayson@conocophillips.com
LAB USE ONLY	10-07537
SAMPLER NAME(S) (Print):	Alan Buehler
CONSULTANT PROJECT NUMBER	C104186205

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

**8 day turnaround time.

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPHg	8015M - TPHd	8260B - BTEX, MTBE	300.0 - Sulfate	6010B - Total magnesium	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	U-11-pre	5/28/10	9:15a	H2O	9	X	X	X	X	X	Various Preservatives Not Field Filtered
2	U-8-pre	5/28/10	10:05a	H2O	9	X	X	X	X	X	Various Preservatives Not Field Filtered
3	U-10-pre	5/28/10	9:38a	H2O	9	X	X	X	X	X	Various Preservatives Not Field Filtered
4	SP-2-pre	5/28/10	12:15p	H2O	4	X		X			Various Preservatives Not Field Filtered
5	SP-5-pre	5/28/10	1:15p	H2O	6	X		X			Various Preservatives Not Field Filtered
6	SP-8-pre	5/28/10	12:44p	H2O	7	X		X	X		

TEMPERATURE ON RECEIPT C°

CHK BY ... SUB-OUT ☐

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
A. Bell	Ross Dickey	6/1/10	1200
Ross Dickey 6-1-10	R Kruyne	6-1-10	1820
R Kruyne 6-1-10 2120	[signature]	6/1/10	2120

8/18/03 Revision

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: Terry Grayson

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS, Attn: Dee Hutchinson, 3611 South Harbor, Suite 200, Santa Ana, CA. 92704

ConocoPhillips SAP Project Number:

ConocoPhillips Requisition / Line Number:

DATE:

PAGE: ____ of ____

SAMPLING COMPANY: Delta Consultants	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: SS# 4186	GLOBAL ID NO.: T0609700288
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 1771 1st St, Livermore, CA	CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard		EDF DELIVERABLE TO (RP or Designee): Jan Wagoner (Delta)	PHONE NO.: 916-503-1275
TELEPHONE: (916) 503-1279	FAX: (916) 638-8385	E-MAIL: jbarnard@deltaenv.com	E-MAIL: Terry.L.Grayson@conocophillips.com
SAMPLER NAME(S) (Print): Alan Buehler	CONSULTANT PROJECT NUMBER: C104186205		LAB USE ONLY: 10-07537

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: **8 day turnaround time.

CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSES

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPHg, TPHd	8260B - BTEX, MTBE	300.0 - Sulfate	6010B - Total magnesium	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C°
7	U-11-post	5/28/10	5:10p	H2O	2			X	X	Various Preservatives Not Field Filtered	
8	U-8-post	5/28/10	6:03p	H2O	2			X	X	Various Preservatives Not Field Filtered	
9	U-10-post	5/28/10	5:41p	H2O	2			X	X	Various Preservatives Not Field Filtered	
10	SP-2-post	5/28/10	6:28p	H2O	1			X		Various Preservatives Not Field Filtered	
11	SP-5-post	5/28/10	5:53p	H2O	1			X		Various Preservatives Not Field Filtered	
12	SP-8-post	5/28/10	5:30p	H2O	1			X			

Relinquished by: (Signature)	Received by: (Signature)	Date: 6/1/10	Time: 1200
Relinquished by: (Signature) Ross Dickey 6-1-10	Received by: (Signature)	Date: 6-1-10	Time: 1820
Relinquished by: (Signature) 6-1-10 2120	Received by: (Signature)	Date: 6/1/10	Time: 2120

6/16/03 Revision

Chain of Custody and Cooler Receipt Form for 1007537 Page 3 of 4

LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 0-07537

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: VOA Thermometer ID: 177

Temperature: A 4.7 °C / C 4.8 °C

Date/Time 6-1-10 2147

Analyst Init JDW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL	D	D	D			B	B	B	B	A
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS	C	C	C				A	A	A	
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
P4A PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-6	A-6	A-6	A-6	A-6	A-6				
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M	B	B	B							
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: _____ Date/Time: 6/2/10 1818

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1007537 Page 4 of 4

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 Of 2

Submission #: 0-07537

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: VOA Thermometer ID: 177

Temperature: A 4.7 °C / C 4.8 °C

Date/Time 10-1-10 2147

Analyst Init JRW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	A	A								
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: _____ Date/Time: 10/2/10 1818
A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1007537-01	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 09:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-11-pre	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): U-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-02	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 10:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-8-pre	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): U-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-03	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 09:38
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-10-pre	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): U-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-04	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 12:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-2-pre	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): SP-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1007537-05	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 13:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-5-pre	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): SP-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-06	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 12:44
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-8-pre	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): SP-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-07	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 05:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-11-post	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): U-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-08	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 06:03
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-8-post	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): U-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1007537-09	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 05:41
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-10-post	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): U-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-10	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 06:28
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-2-post	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): SP-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-11	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 05:53
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-5-post	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): SP-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1007537-12	**COC Number:**	---	**Receive Date:** 06/01/2010 21:20
	Project Number:	4186	**Sampling Date:** 05/28/2010 05:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-8-post	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0609700288
			Location ID (FieldPoint): SP-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1007537-01 | **Client Sample Name:** 4186, U-11-pre, 5/28/2010 9:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Methyl t-butyl ether	**3700**	**ug/L**	**25**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	10	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.0	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	95.4	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.7	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/06/10	06/08/10 15:10	MGC	MS-V5	10	BTF0407
2	EPA-8260	06/06/10	06/07/10 15:52	MGC	MS-V5	50	BTF0407

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-01 | **Client Sample Name:** 4186, U-11-pre, 5/28/2010 9:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**5400**	**ug/L**	**500**	**Luft**	**ND**	**A01,A91**	1
a,a,a-Trifluorotoluene (FID Surrogate)	89.9	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/07/10	06/08/10 21:02	jjh	GC-V4	10	BTF0416

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-01 | **Client Sample Name:** 4186, U-11-pre, 5/28/2010 9:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**300**	**ug/L**	**50**	**Luft/TPHd**	**ND**		1
Tetracosane (Surrogate)	77.9	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	06/03/10	06/10/10 11:40	MWB	GC-5	1.020	BTF0715

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-01 | **Client Sample Name:** 4186, U-11-pre, 5/28/2010 9:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**95**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**52**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/09/10	06/10/10 12:04	JRG	PE-OP1	1	BTF0606
2	EPA-300.0	06/10/10	06/10/10 11:54	LD1	IC1	1	BTF0837

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1007537-02 | **Client Sample Name:** 4186, U-8-pre, 5/28/2010 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**2.1**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**3.3**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**8.3**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	97.6	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	110	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/06/10	06/07/10 15:23	MGC	MS-V5	1	BTF0407

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-02 | **Client Sample Name:** 4186, U-8-pre, 5/28/2010 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**1100**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/07/10	06/08/10 17:54	jjh	GC-V4	1	BTF0416

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-02 | **Client Sample Name:** 4186, U-8-pre, 5/28/2010 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**650**	**ug/L**	**50**	**Luft/TPHd**	**ND**		1
Tetracosane (Surrogate)	84.9	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	06/03/10	06/10/10 11:54	MWB	GC-5	0.980	BTF0715

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-02 | **Client Sample Name:** 4186, U-8-pre, 5/28/2010 10:05:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**80**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**2.7**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/09/10	06/10/10 12:06	JRG	PE-OP1	1	BTF0606
2	EPA-300.0	06/10/10	06/10/10 12:48	LD1	IC1	1	BTF0837

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1007537-03 | **Client Sample Name:** 4186, U-10-pre, 5/28/2010 9:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**0.87**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**130**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.7	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	95.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.7	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.9	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	93.7	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/06/10	06/07/10 14:55	MGC	MS-V5	1	BTF0407
2	EPA-8260	06/06/10	06/08/10 14:41	MGC	MS-V5	10	BTF0407

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-03 | **Client Sample Name:** 4186, U-10-pre, 5/28/2010 9:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**1300**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/07/10	06/08/10 18:15	jjh	GC-V4	1	BTF0416

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-03 | **Client Sample Name:** 4186, U-10-pre, 5/28/2010 9:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**97**	**ug/L**	**50**	**Luft/TPHd**	**ND**		1
Tetracosane (Surrogate)	81.9	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	06/03/10	06/10/10 12:08	MWB	GC-5	1.021	BTF0715

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-03 | **Client Sample Name:** 4186, U-10-pre, 5/28/2010 9:38:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**100**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**40**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/08/10	06/09/10 18:15	JRG	PE-OP1	1	BTF0499
2	EPA-300.0	06/10/10	06/10/10 13:01	LD1	IC1	1	BTF0837

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1007537-04 | **Client Sample Name:** 4186, SP-2-pre, 5/28/2010 12:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**40**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**9.1**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**370**	**ug/L**	**25**	**EPA-8260**	**ND**	**A01**	2
Toluene	**4.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**6.3**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.3	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.8	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/06/10	06/08/10 11:45	MGC	MS-V5	1	BTF0407
2	EPA-8260	06/06/10	06/07/10 16:21	MGC	MS-V5	50	BTF0407

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-04 | **Client Sample Name:** 4186, SP-2-pre, 5/28/2010 12:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**4300**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	98.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/07/10	06/09/10 14:53	jjh	GC-V4	10	BTF0416

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1007537-05 | **Client Sample Name:** 4186, SP-5-pre, 5/28/2010 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1.1**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**2.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.6	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/06/10	06/08/10 10:42	MGC	MS-V5	1	BTF0407

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-05 | **Client Sample Name:** 4186, SP-5-pre, 5/28/2010 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**880**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/07/10	06/08/10 18:57	jjh	GC-V4	1	BTF0416

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1007537-06 | **Client Sample Name:** 4186, SP-8-pre, 5/28/2010 12:44:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**2.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**44**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	**0.94**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**4.2**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.5	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/06/10	06/08/10 11:17	MGC	MS-V5	1	BTF0407

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11050 White Rock Rd, Suite 110
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1007537-06 | **Client Sample Name:** 4186, SP-8-pre, 5/28/2010 12:44:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**900**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	96.3	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/07/10	06/08/10 19:18	jjh	GC-V4	1	BTF0416

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-06 | **Client Sample Name:** 4186, SP-8-pre, 5/28/2010 12:44:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**4.0**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	06/10/10	06/10/10 13:15	LD1	IC1	1	BTF0837

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-07 | **Client Sample Name:** 4186, U-11-post, 5/28/2010 5:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**7800**	**mg/L**	**0.50**	**EPA-6010B**	**ND**	**A01**	1
Sulfate	**150000**	**mg/L**	**500**	**EPA-300.0**	**ND**	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/09/10	06/10/10 14:01	JRG	PE-OP1	10	BTF0606
2	EPA-300.0	06/10/10	06/11/10 11:44	LD1	IC1	500	BTF0837

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-08 | **Client Sample Name:** 4186, U-8-post, 5/28/2010 6:03:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**91**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**8.7**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/08/10	06/09/10 18:21	JRG	PE-OP1	1	BTF0499
2	EPA-300.0	06/10/10	06/14/10 15:12	LD1	IC1	1	BTF0837

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-09 | **Client Sample Name:** 4186, U-10-post, 5/28/2010 5:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**110**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**75**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/09/10	06/10/10 14:19	JRG	PE-OP1	1	BTF0606
2	EPA-300.0	06/10/10	06/10/10 14:22	LD1	IC1	1	BTF0837

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-10 | **Client Sample Name:** 4186, SP-2-post, 5/28/2010 6:28:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**38**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	06/10/10	06/10/10 14:36	LD1	IC1	1	BTF0837

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-11 | **Client Sample Name:** 4186, SP-5-post, 5/28/2010 5:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**55**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	06/10/10	06/10/10 14:49	LD1	IC1	1	BTF0837

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1007537-12 | **Client Sample Name:** 4186, SP-8-post, 5/28/2010 5:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**120**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	06/10/10	06/10/10 15:03	LD1	IC1	1	BTF0837

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF0407						
Benzene	BTF0407-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTF0407-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTF0407-BLK1	ND	ug/L	0.50		
Toluene	BTF0407-BLK1	ND	ug/L	0.50		
Total Xylenes	BTF0407-BLK1	ND	ug/L	1.0		
1,2-Dichloroethane-d4 (Surrogate)	BTF0407-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF0407-BLK1	99.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF0407-BLK1	102	%	86 - 115 (LCL - UCL)		

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTF0407										
Benzene	BTF0407-BS1	LCS	23.670	25.000	ug/L	94.7		70 - 130		
Toluene	BTF0407-BS1	LCS	22.750	25.000	ug/L	91.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF0407-BS1	LCS	10.070	10.000	ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BTF0407-BS1	LCS	9.7300	10.000	ug/L	97.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTF0407-BS1	LCS	9.7600	10.000	ug/L	97.6		86 - 115		

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTF0407	Used client sample: N										
Benzene	MS	1007379-02	ND	25.100	25.000	ug/L		100		70 - 130	
	MSD	1007379-02	ND	25.960	25.000	ug/L	3.4	104	20	70 - 130	
Toluene	MS	1007379-02	ND	23.680	25.000	ug/L		94.7		70 - 130	
	MSD	1007379-02	ND	25.270	25.000	ug/L	6.5	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1007379-02	ND	10.390	10.000	ug/L		104		76 - 114	
	MSD	1007379-02	ND	10.610	10.000	ug/L		106		76 - 114	
Toluene-d8 (Surrogate)	MS	1007379-02	ND	9.6700	10.000	ug/L		96.7		88 - 110	
	MSD	1007379-02	ND	9.9600	10.000	ug/L		99.6		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1007379-02	ND	10.260	10.000	ug/L		103		86 - 115	
	MSD	1007379-02	ND	9.5600	10.000	ug/L		95.6		86 - 115	

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF0416						
Gasoline Range Organics (C4 - C12)	BTF0416-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF0416-BLK1	82.3	%	70 - 130 (LCL - UCL)		

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTF0416										
Gasoline Range Organics (C4 - C12)	BTF0416-BS1	LCS	1034.0	1000.0	ug/L	103		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF0416-BS1	LCS	36.599	40.000	ug/L	91.5		70 - 130		

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTF0416	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1005654-91	ND	1046.9	1000.0	ug/L		105		70 - 130	
	MSD	1005654-91	ND	1001.6	1000.0	ug/L	4.4	100	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1005654-91	ND	36.089	40.000	ug/L		90.2		70 - 130	
	MSD	1005654-91	ND	36.616	40.000	ug/L		91.5		70 - 130	

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF0715						
Diesel Range Organics (C12 - C24)	BTF0715-BLK1	ND	ug/L	50		M02
Tetracosane (Surrogate)	BTF0715-BLK1	86.1	%	28 - 139 (LCL - UCL)		

Delta Environmental Consultants, Inc.
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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTF0715										
Diesel Range Organics (C12 - C24)	BTF0715-BS1	LCS	374.42	500.00	ug/L	74.9		48 - 125		
Tetracosane (Surrogate)	BTF0715-BS1	LCS	18.280	20.000	ug/L	91.4		28 - 139		

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Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTF0715	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1005654-96	28.443	365.91	500.00	ug/L		67.5		36 - 130	
	MSD	1005654-96	28.443	328.97	500.00	ug/L	11.6	60.1	30	36 - 130	
Tetracosane (Surrogate)	MS	1005654-96	ND	18.109	20.000	ug/L		90.5		28 - 139	
	MSD	1005654-96	ND	15.562	20.000	ug/L		77.8		28 - 139	

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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF0499						
Total Magnesium	BTF0499-BLK1	ND	mg/L	0.050		
QC Batch ID: BTF0606						
Total Magnesium	BTF0606-BLK1	ND	mg/L	0.050		
QC Batch ID: BTF0837						
Sulfate	BTF0837-BLK1	ND	mg/L	1.0		

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Reported: 06/16/2010 16:12
Project: 4186
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Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTF0499										
Total Magnesium	BTF0499-BS1	LCS	10.888	10.000	mg/L	109		85 - 115		
QC Batch ID: BTF0606										
Total Magnesium	BTF0606-BS1	LCS	11.430	10.000	mg/L	114		85 - 115		
QC Batch ID: BTF0837										
Sulfate	BTF0837-BS1	LCS	103.08	100.00	mg/L	103		90 - 110		

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTF0499	Used client sample: N										
Total Magnesium	DUP	1007643-01	71.695	70.294		mg/L	2.0		20		
	MS	1007643-01	71.695	85.193	10.000	mg/L		135		75 - 125	A03
	MSD	1007643-01	71.695	87.874	10.000	mg/L	18.1	162	20	75 - 125	A03
QC Batch ID: BTF0606	Used client sample: N										
Total Magnesium	DUP	1007763-01	49.379	50.141		mg/L	1.5		20		
	MS	1007763-01	49.379	63.520	10.000	mg/L		141		75 - 125	A03
	MSD	1007763-01	49.379	61.308	10.000	mg/L	17.0	119	20	75 - 125	
QC Batch ID: BTF0837	Used client sample: Y - Description: U-11-pre, 05/28/2010 09:15										
Sulfate	DUP	1007537-01	51.964	52.482		mg/L	1.0		10		
	MS	1007537-01	51.964	160.99	101.01	mg/L		108		80 - 120	
	MSD	1007537-01	51.964	161.93	101.01	mg/L	0.9	109	10	80 - 120	

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/16/2010 16:12
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A03	The sample concentration is more than 4 times the spike level.
A91	TPH does not exhibit a "gasoline" pattern. TPH is entirely due to MTBE.
M02	Analyte detected in the Method Blank at a level between the PQL and 1/2 the PQL.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/22/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 4186
BC Work Order: 1008054
Invoice ID: B082255

Enclosed are the results of analyses for samples received by the laboratory on 6/10/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: Terry Grayson
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number:
ConocoPhillips Requisition / Line Number:
DATE: 060910
PAGE: 1 of 1

SAMPLING COMPANY:	Delta Consultants
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER	SS# 4186
GLOBAL ID NO.:	T0600101777
ADDRESS:	11050 White Rock Road #110, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	1771 1st St, Livermore, CA
PROJECT CONTACT (Hardcopy or PDF Report to):	James Barnard
CONOCOPHILLIPS SITE MANAGER:	Terry Grayson
TELEPHONE:	(916) 503-1279
FAX:	(916) 638-8385
E-MAIL:	jbarnard@deltaenv.com
EDF DELIVERABLE TO (RP or Designee):	Jim Barnard / Jan Wagoner (Delta)
PHONE NO.:	916-503-1279/75
E-MAIL:	Terry.L.Grayson@conocophillips.com
LAB USE ONLY	1008054
SAMPLER NAME(S) (Print):	Jody Demello-Rice
CONSULTANT PROJECT NUMBER	C104186205

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

**8 day turnaround time.

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPHg, TPHd	8260B - BTEX, MTBE	300.0 - Sulfate	6010B - Total magnesium	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	U-11-WK2	6/7/10	2:30	H2O	2			X	X	Various Preservatives Not Field Filtered
2	U-8-WK2	6/7/10	1:30	H2O	2			X	X	Various Preservatives Not Field Filtered
3	U-10-WK2	6/7/10	3:15	H2O	2			X	X	Various Preservatives Not Field Filtered
4	SP-2-Wk2	6/7/10	10:30	H2O	2			X	X	Various Preservatives Not Field Filtered
5	SP-5-WK2	6/7/10	11:00	H2O	2			X	X	Various Preservatives Not Field Filtered
6	SP-8-WK2	6/7/10	3:45	H2O	2			X	X	Various Preservatives Not Field Filtered
7	U-4-WK2	6/7/10	12:45	H2O	2			X	X	Various Preservatives Not Field Filtered

TEMPERATURE ON RECEIPT C°

DISTRIBUTION SUB-OUT

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	B Hammel	6/10/10	1050
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

FED EX TRACKING # 8632 0780 9738

Chain of Custody and Cooler Receipt Form for 1008054 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 1008054

SHIPPING INFORMATION
Federal Express ☒ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: R+Re Thermometer ID: #177

Temperature: A 2.7 °C / C 2.6 °C

Date/Time JUN 1 0 2010 1050

Analyst Init BLT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	A	A	A	A	A	A	A			
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	B	B	B	B	B	B	B			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 515 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: JDW Date/Time: 6-10-10 1750 [H:\DOCSWP80\LAB_DOCS\FORMS\SAMREC2.WPD]

A = Actual / C = Corrected

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008054-01	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 02:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-11-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008054-02	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 01:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-8-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008054-03	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 03:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-10-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008054-04	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 10:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-2-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): SP-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008054-05	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 11:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-5-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): SP-5
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008054-06	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 03:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-8-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): SP-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008054-07	**COC Number:**	---	**Receive Date:** 06/10/2010 10:50
	Project Number:	4186	**Sampling Date:** 06/07/2010 12:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-4-WK2	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-01 | **Client Sample Name:** 4186, U-11-WK2, 6/7/2010 2:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**1200**	**mg/L**	**0.10**	**EPA-6010B**	**ND**	**A01**	1
Sulfate	**5000**	**mg/L**	**20**	**EPA-300.0**	**ND**	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:17	ARD	PE-OP1	2	BTF1014
2	EPA-300.0	06/18/10	06/19/10 00:06	SDU	IC5	20	BTF1381

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-02 | **Client Sample Name:** 4186, U-8-WK2, 6/7/2010 1:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**67**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**6.7**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:05	ARD	PE-OP1	1	BTF1014
2	EPA-300.0	06/18/10	06/18/10 15:02	LD1	IC1	1	BTF1383

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-03 | **Client Sample Name:** 4186, U-10-WK2, 6/7/2010 3:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**98**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**50**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:07	ARD	PE-OP1	1	BTF1014
2	EPA-300.0	06/18/10	06/18/10 15:15	LD1	IC1	1	BTF1383

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-04 | **Client Sample Name:** 4186, SP-2-WK2, 6/7/2010 10:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**170**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**330**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:09	ARD	PE-OP1	1	BTF1014
2	EPA-300.0	06/18/10	06/19/10 04:25	SDU	IC5	1	BTF1381

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-05 | **Client Sample Name:** 4186, SP-5-WK2, 6/7/2010 11:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**62**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**29**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:11	ARD	PE-OP1	1	BTF1014
2	EPA-300.0	06/18/10	06/19/10 04:40	SDU	IC5	1	BTF1381

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-06 | **Client Sample Name:** 4186, SP-8-WK2, 6/7/2010 3:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**140**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**310**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:13	ARD	PE-OP1	1	BTF1014
2	EPA-300.0	06/18/10	06/19/10 04:54	SDU	IC5	1	BTF1381

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008054-07 | **Client Sample Name:** 4186, U-4-WK2, 6/7/2010 12:45:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**96**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**41**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/15/10	06/16/10 13:15	ARD	PE-OP1	1	BTF1014
2	EPA-300.0	06/18/10	06/19/10 05:08	SDU	IC5	1	BTF1381

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF1014						
Total Magnesium	BTF1014-BLK2	ND	mg/L	0.050		
QC Batch ID: BTF1381						
Sulfate	BTF1381-BLK1	ND	mg/L	1.0		
QC Batch ID: BTF1383						
Sulfate	BTF1383-BLK1	ND	mg/L	1.0		

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTF1014										
Total Magnesium	BTF1014-BS2	LCS	10.271	10.000	mg/L	103		85 - 115		
QC Batch ID: BTF1381										
Sulfate	BTF1381-BS1	LCS	98.297	100.00	mg/L	98.3		90 - 110		
QC Batch ID: BTF1383										
Sulfate	BTF1383-BS1	LCS	103.79	100.00	mg/L	104		90 - 110		

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTF1014	Used client sample: N										
Total Magnesium	DUP	1008073-02	332.78	333.40		mg/L	0.2		20		
	MS	1008073-02	332.78	343.42	10.000	mg/L		106		75 - 125	
	MSD	1008073-02	332.78	342.74	10.000	mg/L	6.6	99.7	20	75 - 125	
QC Batch ID: BTF1381	Used client sample: N										
Sulfate	DUP	1008058-01	2065.4	2050.2		mg/L	0.7		10		
	MS	1008058-01	2065.4	3151.0	1010.1	mg/L		107		80 - 120	
	MSD	1008058-01	2065.4	3109.5	1010.1	mg/L	3.9	103	10	80 - 120	
QC Batch ID: BTF1383	Used client sample: N										
Sulfate	DUP	1008453-01	69.418	68.787		mg/L	0.9		10		
	MS	1008453-01	69.418	181.17	101.01	mg/L		111		80 - 120	
	MSD	1008453-01	69.418	180.73	101.01	mg/L	0.4	110	10	80 - 120	

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 06/22/2010 15:01
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 07/09/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 4186
BC Work Order: 1008804
Invoice ID: B083127

Enclosed are the results of analyses for samples received by the laboratory on 6/25/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: Terry Grayson
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number:
ConocoPhillips Requisition / Line Number:
6/24/2010
PAGE: 1 of 1

Field	Value
SAMPLING COMPANY	Delta Consultants
Valid Value ID	
CONOCOPHILLIPS SITE NUMBER	SS# 4186
GLOBAL ID NO.	T0600101777
ADDRESS	11050 White Rock Road #110, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City)	1771 1st St, Livermore, CA
CONOCOPHILLIPS SITE MANAGER	Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to)	James Barnard
TELEPHONE	(916) 503-1279
FAX	(916) 638-8385
E-MAIL	jbarnard@deltaenv.com
EDF DELIVERABLE TO (RP or Designee)	Jim Barnard / Jan Wagoner (Delta)
PHONE NO.	916-503-1279/1275
E-MAIL	Terry.L.Grayson@conocophillips.com
LAB USE ONLY	1008804
SAMPLER NAME(S) (Print)	Jody Demello-Rice
CONSULTANT PROJECT NUMBER	C104186510

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

**8 day turnaround time.

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	DATE	TIME	MATRIX	NO. OF CONT.	8015M - TPHg, TPHd	8260B - BTEX, MTBE	300.0 - Sulfate	6010B - Total magnesium	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	U-11-WK4	6/24/10	5:00	H2O	2			X	X	Various Preservatives Not Field Filtered
2	U-8-WK4	6/24/10	3:35	H2O	2			X	X	Various Preservatives Not Field Filtered
3	U-10-WK4	6/24/10	4:15	H2O	2			X	X	Various Preservatives Not Field Filtered
4	SP-2-WK4	6/24/10	1:30	H2O	2			X	X	Various Preservatives Not Field Filtered
5	SP-5-WK4	6/24/10	2:10	H2O	2			X	X	Various Preservatives Not Field Filtered
6	SP-8-WK4	6/24/10	2:55	H2O	2			X	X	Various Preservatives Not Field Filtered
										Various Preservatives Not Field Filtered

TEMPERATURE ON RECEIPT C°

CHK BY / DISTRIBUTION / SUB-OUT ☐

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	Ross Dickey	6/25/10	1220
Ross Dickey 6/25/10	R Ruiz	6-25-10	1735
R Ruiz 6-25-10 2050	[signature]	6/25/10	2050

9/19/03 Revision

Chain of Custody and Cooler Receipt Form for 1008804 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 1008804

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☐ No ☑

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: ptpe Thermometer ID: 177

Temperature: A 3.7 °C / C 3.8 °C

Date/Time 10-25-10 2052

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
pt GENERAL MINERAL/ GENERAL PHYSICAL	A	A	A	A	A	A				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	B	B	B	B	B	B				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: No description, time or date on samples for -6.

Sample Numbering Completed By: JNW Date/Time: 10-25-10 2135 [H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

A = Actual / C = Corrected

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008804-01	**COC Number:**	---	**Receive Date:** 06/25/2010 20:50
	Project Number:	4186	**Sampling Date:** 06/24/2010 05:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-11-WK4	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008804-02	**COC Number:**	---	**Receive Date:** 06/25/2010 20:50
	Project Number:	4186	**Sampling Date:** 06/24/2010 03:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-8-WK4	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008804-03	**COC Number:**	---	**Receive Date:** 06/25/2010 20:50
	Project Number:	4186	**Sampling Date:** 06/24/2010 04:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-10-WK4	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008804-04	**COC Number:**	---	**Receive Date:** 06/25/2010 20:50
	Project Number:	4186	**Sampling Date:** 06/24/2010 01:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-2-WK4	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): SP-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1008804-05	**COC Number:**	---	**Receive Date:**	06/25/2010 20:50
	Project Number:	4186	**Sampling Date:**	06/24/2010 02:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SP-5-WK4	**Sample Matrix:**	Water
	Sampled By:	DECR	Delivery Work Order:	
			Global ID: T0600101777	
			Location ID (FieldPoint): SP-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1008804-06	**COC Number:**	---	**Receive Date:**	06/25/2010 20:50
	Project Number:	4186	**Sampling Date:**	06/24/2010 02:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SP-8-WK4	**Sample Matrix:**	Water
	Sampled By:	DECR	Delivery Work Order:	
			Global ID: T0600101777	
			Location ID (FieldPoint): SP-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008804-01 | **Client Sample Name:** 4186, U-11-WK4, 6/24/2010 5:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**1200**	**mg/L**	**0.10**	**EPA-6010B**	**ND**	**A01**	1
Sulfate	**5900**	**mg/L**	**20**	**EPA-300.0**	**ND**	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/30/10	07/01/10 13:14	ARD	PE-OP1	2	BTF2038
2	EPA-300.0	07/01/10	07/01/10 18:20	LD1	IC2	20	BTG0087

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11050 White Rock Rd, Suite 110
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Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008804-02 | **Client Sample Name:** 4186, U-8-WK4, 6/24/2010 3:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**120**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**120**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/30/10	07/01/10 12:40	ARD	PE-OP1	1	BTF2038
2	EPA-300.0	07/01/10	07/02/10 10:11	LD1	IC2	1	BTG0087

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008804-03 | **Client Sample Name:** 4186, U-10-WK4, 6/24/2010 4:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**110**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**49**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/30/10	07/01/10 12:54	ARD	PE-OP1	1	BTF2038
2	EPA-300.0	07/01/10	07/02/10 10:25	LD1	IC2	1	BTG0087

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008804-04 | **Client Sample Name:** 4186, SP-2-WK4, 6/24/2010 1:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**130**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**120**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/30/10	07/01/10 13:08	ARD	PE-OP1	1	BTF2038
2	EPA-300.0	07/01/10	07/01/10 17:25	LD1	IC2	1	BTG0087

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008804-05 | **Client Sample Name:** 4186, SP-5-WK4, 6/24/2010 2:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**64**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**14**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/30/10	07/01/10 13:10	ARD	PE-OP1	1	BTF2038
2	EPA-300.0	07/01/10	07/01/10 17:39	LD1	IC2	1	BTG0087

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1008804-06 | **Client Sample Name:** 4186, SP-8-WK4, 6/24/2010 2:55:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**96**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**10**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	06/30/10	07/01/10 13:12	ARD	PE-OP1	1	BTF2038
2	EPA-300.0	07/01/10	07/01/10 17:52	LD1	IC2	1	BTG0087

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF2038						
Total Magnesium	BTF2038-BLK1	ND	mg/L	0.050		
QC Batch ID: BTG0087						
Sulfate	BTG0087-BLK1	ND	mg/L	1.0		

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTF2038										
Total Magnesium	BTF2038-BS1	LCS	9.8422	10.000	mg/L	98.4		85 - 115		
QC Batch ID: BTG0087										
Sulfate	BTG0087-BS1	LCS	106.36	100.00	mg/L	106		90 - 110		

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTF2038	Used client sample: Y - Description: U-8-WK4, 06/24/2010 03:35										
Total Magnesium	DUP	1008804-02	117.01	115.14		mg/L	1.6		20		
	MS	1008804-02	117.01	127.01	10.000	mg/L		100		75 - 125	
	MSD	1008804-02	117.01	130.68	10.000	mg/L	30.9	137	20	75 - 125	A03,Q02
QC Batch ID: BTG0087	Used client sample: Y - Description: U-11-WK4, 06/24/2010 05:00										
Sulfate	DUP	1008804-01	5857.8	5859.8		mg/L	0.0		10		
	MS	1008804-01	5857.8	7805.1	2020.2	mg/L		96.4		80 - 120	
	MSD	1008804-01	5857.8	7820.6	2020.2	mg/L	0.8	97.2	10	80 - 120	

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 07/09/2010 9:27
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A03	The sample concentration is more than 4 times the spike level.
Q02	Matrix spike precision is not within the control limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 07/28/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 4186
BC Work Order: 1009736
Invoice ID: B084128

Enclosed are the results of analyses for samples received by the laboratory on 7/14/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: Terry Grayson

INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number:
ConocoPhillips Requisition / Line Number:

DATE: ________
PAGE: ______ of ______

SAMPLING COMPANY:	Delta Consultants
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER:	SS# 4186
GLOBAL ID NO.:	T0600101777
ADDRESS:	11050 White Rock Road #110, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	1771 1st St, Livermore, CA
CONOCOPHILLIPS SITE MANAGER:	Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to):	James Barnard
TELEPHONE:	(916) 503-1279
FAX:	(916) 638-8385
E-MAIL:	jbarnard@deltaenv.com
EDF DELIVERABLE TO (RP or Designee):	Jim Barnard (Delta)
PHONE NO.:	916-503-1275
E-MAIL:	Terry.L.Grayson@contractor.conocophillips.com
LAB USE ONLY	10-09736
SAMPLER NAME(S) (Print):	Alan Buehler
CONSULTANT PROJECT NUMBER:	C104186610

TURNAROUND TIME (CALENDAR DAYS):
☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

**8 day turnaround time.

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

Please CC Alan Buehler at abuehler@deltaenv.com on all reports.

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPHg	8015M - TPHd	8260B - BTEX, MTBE	300.0 - Sulfate	6010B - Total Magnesium	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	U-11-wk7	7/13/10	12:101p	H2O	9	X	X	X	X	X	Various Preservatives Not Field Filtered
2	U-8-wk7	7/13/10	1:20p	H2O	9	X	X	X	X	X	Various Preservatives Not Field Filtered
3	U-10-wk7	7/13/10	1:00p	H2O	9	X	X	X	X	X	Various Preservatives Not Field Filtered
4	SP-2-wk7	7/13/10	1:45p	H2O	7	X		X	X		Various Preservatives Not Field Filtered
5	SP-5-wk7	7/13/10	2:00p	H2O	7	X		X	X		Various Preservatives Not Field Filtered
6	SP-8-wk7	7/13/10	12:30p	H2O	7	X		X	X		Various Preservatives Not Field Filtered

TEMPERATURE ON RECEIPT C°

CHK BY [illegible] DISTRIBUTION [illegible] SUB-OUT ☐

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature]	7/14/10	1135
[signature] 7/14/10	R [signature]	7.14.10	1900
R [signature] 7.14.10 2155	[signature]	7-14-10	2155

9/19/03 Revision

Chain of Custody and Cooler Receipt Form for 1009736 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 1009736

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments: not enough cooling time/ice

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PP Thermometer ID: #177

Temperature: A 9.4 °C / C 9.5 °C

Date/Time 7/14/10 2210

Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	B	B	B	B	B	B				
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
1oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A,C	A,C	A,C	A,C	A,C	A,C	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	D	D	D							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:_____
Sample Numbering Completed By: _____ Date/Time: 7/15/10 0830
A = Actual / C = Corrected
(H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD)

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1009736-01	**COC Number:**	---	**Receive Date:** 07/14/2010 21:55
	Project Number:	4186	**Sampling Date:** 07/13/2010 12:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-11-wk7	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1009736-02	**COC Number:**	---	**Receive Date:** 07/14/2010 21:55
	Project Number:	4186	**Sampling Date:** 07/13/2010 13:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-8-wk7	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1009736-03	**COC Number:**	---	**Receive Date:** 07/14/2010 21:55
	Project Number:	4186	**Sampling Date:** 07/13/2010 13:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-10-wk7	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1009736-04	**COC Number:**	---	**Receive Date:** 07/14/2010 21:55
	Project Number:	4186	**Sampling Date:** 07/13/2010 13:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-2-wk7	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): SP-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1009736-05	**COC Number:**	---	**Receive Date:**	07/14/2010 21:55
	Project Number:	4186	**Sampling Date:**	07/13/2010 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SP-5-wk7	**Sample Matrix:**	Water
	Sampled By:	DECR	Delivery Work Order:	
			Global ID: T0600101777	
			Location ID (FieldPoint): SP-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1009736-06	**COC Number:**	---	**Receive Date:**	07/14/2010 21:55
	Project Number:	4186	**Sampling Date:**	07/13/2010 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SP-8-wk7	**Sample Matrix:**	Water
	Sampled By:	DECR	Delivery Work Order:	
			Global ID: T0600101777	
			Location ID (FieldPoint): SP-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1009736-01 | **Client Sample Name:** 4186, U-11-wk7, 7/13/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**3.1**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**6.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**4900**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	2
Toluene	**1.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**2.6**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	96.7	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	88.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.4	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	93.2	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/22/10	07/23/10 00:54	KEA	MS-V10	1	BTG1322
2	EPA-8260	07/22/10	07/26/10 13:31	KEA	MS-V10	100	BTG1322

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-01 | **Client Sample Name:** 4186, U-11-wk7, 7/13/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**5600**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	119	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/15/10	07/15/10 17:05	jjh	GC-V4	10	BTG0777

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-01 | **Client Sample Name:** 4186, U-11-wk7, 7/13/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**340**	**ug/L**	**50**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	79.4	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	07/20/10	07/21/10 20:49	MWB	GC-5	1	BTG1302

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1009736-01 | **Client Sample Name:** 4186, U-11-wk7, 7/13/2010 12:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**590**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**1800**	**mg/L**	**10**	**EPA-300.0**	**ND**	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/24/10	07/27/10 19:12	ARD	PE-OP1	1	BTG1416
2	EPA-300.0	07/21/10	07/21/10 10:34	LD1	IC1	10	BTG1273

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1009736-02 | **Client Sample Name:** 4186, U-8-wk7, 7/13/2010 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**6.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**2.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**3.9**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.7	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/22/10	07/23/10 00:36	KEA	MS-V10	1	BTG1322

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Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-02 | **Client Sample Name:** 4186, U-8-wk7, 7/13/2010 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**1400**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	124	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/15/10	07/15/10 17:27	jjh	GC-V4	10	BTG0777

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-02 | **Client Sample Name:** 4186, U-8-wk7, 7/13/2010 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**370**	**ug/L**	**50**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	93.2	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	07/20/10	07/21/10 21:04	MWB	GC-5	0.980	BTG1302

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Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1009736-02 | **Client Sample Name:** 4186, U-8-wk7, 7/13/2010 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**90**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**7.6**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/19/10	07/21/10 12:49	ARD	PE-OP1	1	BTG0981
2	EPA-300.0	07/21/10	07/21/10 13:17	LD1	IC1	1	BTG1273

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1009736-03 | **Client Sample Name:** 4186, U-10-wk7, 7/13/2010 1:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**51**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**37**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**190**	**ug/L**	**1.0**	**EPA-8260**	**ND**	**A01**	2
Toluene	**2.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**4.6**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	95.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.6	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/22/10	07/23/10 00:18	KEA	MS-V10	1	BTG1322
2	EPA-8260	07/22/10	07/26/10 12:51	KEA	MS-V10	2	BTG1322

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-03 | **Client Sample Name:** 4186, U-10-wk7, 7/13/2010 1:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**3500**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	126	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/15/10	07/15/10 17:48	jjh	GC-V4	10	BTG0777

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-03 | **Client Sample Name:** 4186, U-10-wk7, 7/13/2010 1:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**170**	**ug/L**	**50**	**Luft/TPHd**	**ND**	**A52**	1
Tetracosane (Surrogate)	82.2	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	07/20/10	07/21/10 21:18	MWB	GC-5	1	BTG1302

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1009736-03 | **Client Sample Name:** 4186, U-10-wk7, 7/13/2010 1:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**100**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**42**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/19/10	07/21/10 12:51	ARD	PE-OP1	1	BTG0981
2	EPA-300.0	07/21/10	07/21/10 13:30	LD1	IC1	1	BTG1273

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1009736-04 | **Client Sample Name:** 4186, SP-2-wk7, 7/13/2010 1:45:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**38**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**6.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**500**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	2
Toluene	**1.8**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**4.4**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	94.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.5	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.9	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.6	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/22/10	07/23/10 00:00	KEA	MS-V10	1	BTG1322
2	EPA-8260	07/22/10	07/26/10 12:34	KEA	MS-V10	10	BTG1322

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-04 | **Client Sample Name:** 4186, SP-2-wk7, 7/13/2010 1:45:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**5600**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	120	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/15/10	07/15/10 18:10	jjh	GC-V4	10	BTG0777

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1009736-04 | **Client Sample Name:** 4186, SP-2-wk7, 7/13/2010 1:45:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**58**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/21/10	07/21/10 13:44	LD1	IC1	1	BTG1273

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1009736-05 | **Client Sample Name:** 4186, SP-5-wk7, 7/13/2010 2:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**3.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/22/10	07/22/10 23:42	KEA	MS-V10	1	BTG1322

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-05 | **Client Sample Name:** 4186, SP-5-wk7, 7/13/2010 2:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**110**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	114	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/15/10	07/19/10 12:29	jjh	GC-V4	1	BTG0777

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1009736-05 | **Client Sample Name:** 4186, SP-5-wk7, 7/13/2010 2:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**16**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/21/10	07/21/10 13:57	LD1	IC1	1	BTG1273

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1009736-06 | **Client Sample Name:** 4186, SP-8-wk7, 7/13/2010 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**29**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**3.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**47**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.3**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	91.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/22/10	07/22/10 20:09	KEA	MS-V10	1	BTG1322

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1009736-06 | **Client Sample Name:** 4186, SP-8-wk7, 7/13/2010 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**190**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	113	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/15/10	07/19/10 12:50	jjh	GC-V4	1	BTG0777

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1009736-06 | **Client Sample Name:** 4186, SP-8-wk7, 7/13/2010 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**33**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/21/10	07/21/10 14:11	LD1	IC1	1	BTG1273

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1322						
Benzene	BTG1322-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTG1322-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTG1322-BLK1	ND	ug/L	0.50		
Toluene	BTG1322-BLK1	ND	ug/L	0.50		
Total Xylenes	BTG1322-BLK1	ND	ug/L	1.0		
1,2-Dichloroethane-d4 (Surrogate)	BTG1322-BLK1	103	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTG1322-BLK1	97.7	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTG1322-BLK1	93.9	%	86 - 115 (LCL - UCL)		

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1322										
Benzene	BTG1322-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
Toluene	BTG1322-BS1	LCS	27.330	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTG1322-BS1	LCS	9.7200	10.000	ug/L	97.2		76 - 114		
Toluene-d8 (Surrogate)	BTG1322-BS1	LCS	9.9300	10.000	ug/L	99.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTG1322-BS1	LCS	10.650	10.000	ug/L	106		86 - 115		

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1322	Used client sample: N										
Benzene	MS	1009676-22	ND	26.960	25.000	ug/L		108		70 - 130	
	MSD	1009676-22	ND	26.940	25.000	ug/L	0.1	108	20	70 - 130	
Toluene	MS	1009676-22	ND	26.820	25.000	ug/L		107		70 - 130	
	MSD	1009676-22	ND	27.990	25.000	ug/L	4.3	112	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1009676-22	ND	10.650	10.000	ug/L		106		76 - 114	
	MSD	1009676-22	ND	10.340	10.000	ug/L		103		76 - 114	
Toluene-d8 (Surrogate)	MS	1009676-22	ND	9.6100	10.000	ug/L		96.1		88 - 110	
	MSD	1009676-22	ND	10.050	10.000	ug/L		100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1009676-22	ND	10.040	10.000	ug/L		100		86 - 115	
	MSD	1009676-22	ND	10.320	10.000	ug/L		103		86 - 115	

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Project: 4186
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Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0777						
Gasoline Range Organics (C4 - C12)	BTG0777-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BTG0777-BLK1	112	%	70 - 130 (LCL - UCL)		

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG0777										
Gasoline Range Organics (C4 - C12)	BTG0777-BS1	LCS	1073.6	1000.0	ug/L	107		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTG0777-BS1	LCS	44.491	40.000	ug/L	111		70 - 130		

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG0777	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1007897-93	ND	1061.1	1000.0	ug/L		106		70 - 130	
	MSD	1007897-93	ND	1044.6	1000.0	ug/L	1.6	104	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-93	ND	45.386	40.000	ug/L		113		70 - 130	
	MSD	1007897-93	ND	45.813	40.000	ug/L		115		70 - 130	

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Reported: 07/28/2010 12:42
Project: 4186
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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1302						
Diesel Range Organics (C12 - C24)	BTG1302-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BTG1302-BLK1	83.4	%	28 - 139 (LCL - UCL)		

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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1302										
Diesel Range Organics (C12 - C24)	BTG1302-BS1	LCS	446.37	500.00	ug/L	89.3		48 - 125		
Tetracosane (Surrogate)	BTG1302-BS1	LCS	16.809	20.000	ug/L	84.0		28 - 139		

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1302	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1007897-94	ND	464.74	500.00	ug/L		92.9		36 - 130	
	MSD	1007897-94	ND	454.50	500.00	ug/L	2.2	90.9	30	36 - 130	
Tetracosane (Surrogate)	MS	1007897-94	ND	18.378	20.000	ug/L		91.9		28 - 139	
	MSD	1007897-94	ND	17.426	20.000	ug/L		87.1		28 - 139	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0981						
Total Magnesium	BTG0981-BLK1	ND	mg/L	0.050		
QC Batch ID: BTG1273						
Sulfate	BTG1273-BLK1	ND	mg/L	1.0		
QC Batch ID: BTG1416						
Total Magnesium	BTG1416-BLK1	ND	mg/L	0.050		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG0981										
Total Magnesium	BTG0981-BS1	LCS	9.8309	10.000	mg/L	98.3		85 - 115		
QC Batch ID: BTG1273										
Sulfate	BTG1273-BS1	LCS	99.351	100.00	mg/L	99.4		90 - 110		
QC Batch ID: BTG1416										
Total Magnesium	BTG1416-BS1	LCS	10.023	10.000	mg/L	100		85 - 115		

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Reported: 07/28/2010 12:42
Project: 4186
Project Number: 4513481270
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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG0981	Used client sample: N										
Total Magnesium	DUP	1009689-01	69.683	68.564		mg/L	1.6		20		
	MS	1009689-01	69.683	80.981	10.000	mg/L		113		75 - 125	
	MSD	1009689-01	69.683	81.369	10.000	mg/L	3.4	117	20	75 - 125	
QC Batch ID: BTG1273	Used client sample: Y - Description: U-11-wk7, 07/13/2010 12:10										
Sulfate	DUP	1009736-01	1834.6	1841.0		mg/L	0.3		10		
	MS	1009736-01	1834.6	2896.2	1010.1	mg/L		105		80 - 120	
	MSD	1009736-01	1834.6	2889.7	1010.1	mg/L	0.6	104	10	80 - 120	
QC Batch ID: BTG1416	Used client sample: N										
Total Magnesium	DUP	1009861-01	24.178	24.363		mg/L	0.8		20		
	MS	1009861-01	24.178	34.220	10.000	mg/L		100		75 - 125	
	MSD	1009861-01	24.178	33.054	10.000	mg/L	12.3	88.8	20	75 - 125	

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Reported: 07/28/2010 12:42
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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A52	Chromatogram not typical of diesel.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 08/02/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 4186
BC Work Order: 1010328
Invoice ID: B084392

Enclosed are the results of analyses for samples received by the laboratory on 7/27/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

Table of Contents

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: Terry Grayson

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS, Attn: Dee Hutchinson, 3611 South Harbor, Suite 200, Santa Ana, CA. 92704

ConocoPhillips SAP Project Number:

ConocoPhillips Requisition / Line Number:

DATE: ____ PAGE: ____ of ____

SAMPLING COMPANY:	Delta Consultants
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER:	SS# 4186
GLOBAL ID NO.:	T0600101777
ADDRESS:	11050 White Rock Road #110, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	1771 1st St, Livermore, CA
CONOCOPHILLIPS SITE MANAGER:	Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to):	James Barnard
TELEPHONE:	(916) 503-1279
FAX:	(916) 638-8385
E-MAIL:	jbarnard@deltaenv.com
EDF DELIVERABLE TO (RP or Designee):	Jim Barnard (Delta)
PHONE NO.:	916-503-1275
EMAIL:	Terry.L.Grayson@conocophillips.com
LAB USE ONLY	10-10328
SAMPLER NAME(S) (Print):	Alan Buehler
CONSULTANT PROJECT NUMBER	C104186510

TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DAYS ☐ 7 DAYS ☑ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

**3 day turnaround time.

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

Please CC Alan Buehler at abuehler@deltaenv.com on all reports.

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015M - TPHg	8015M - TPHd	8260B - BTEX, MTBE	300.0 - Sulfate	6010B - Total Magnesium	Chrome VI (7199)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
												TEMPERATURE ON RECEIPT C°
1	U-11-wk9	7/26/10	11:25a	H2O	9	X	X	X	X	X	X	Various Preservatives Not Field Filtered
2	U-8-wk9	7/26/10	11:40a	H2O	9	X	X	X	X	X	X	
3	U-10-wk9	7/26/10	1:05a	H2O	9	X	X	X	X	X	X	
4	SP-2-wk9	7/26/10	12:00a	H2O	7	X		X	X		X	
5	SP-5-wk9	7/26/10	1:25a	H2O	7	X		X	X		X	**Unpres. Poly only 0.5 full. If not enough to run Sulfate and Chrome, please run Sulfate.
6	SP-8-wk9	7/26/10	12:40a	H2O	7	X		X	X		X**	

CHK BY ___ DISTRIBUTION ___ SUB-OUT ☐

SHORT HOLDING TIME: NO_2 NO_3 OP SS DO O_2 BOD MBAS COT

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Ross Dickey	7/27/10	1210
Ross Dickey 7/27/10	R Raymond	7.27.10	1815
R Raymond 7.27.10 2105	[signature]	7/27/10	2105

9/19/03 Revision

Chain of Custody and Cooler Receipt Form for 1010328 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 10-10328

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐
BC Lab Field Service ☑ Other ☐ (Specify)________	Box ☐ Other ☐ (Specify)________

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received		
☑ YES ☐ NO	Emissivity: 0.98 Container: PTPE Thermometer ID: 163	Date/Time 7/27/10 2117
	Temperature: A 2.4 °C / C 2.0 °C	Analyst Init JNW

SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED	B	B	B	B	B	B				
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 6	A 6	A 6	A 6	A 6	A 6	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	D	D	D							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: -6B received 1/2 full. Samples were received past the Ortho H.T. 1 voa from -1 was broken in lab.

Sample Numbering Completed By: JNW Date/Time: 7/27/10 2305

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1010328-01	**COC Number:**	---	**Receive Date:** 07/27/2010 21:05
	Project Number:	4186	**Sampling Date:** 07/26/2010 11:25
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-11-wk9	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1010328-02	**COC Number:**	---	**Receive Date:** 07/27/2010 21:05
	Project Number:	4186	**Sampling Date:** 07/26/2010 11:40
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-8-wk9	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-8
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1010328-03	**COC Number:**	---	**Receive Date:** 07/27/2010 21:05
	Project Number:	4186	**Sampling Date:** 07/26/2010 13:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	U-10-wk9	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): U-10
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1010328-04	**COC Number:**	---	**Receive Date:** 07/27/2010 21:05
	Project Number:	4186	**Sampling Date:** 07/26/2010 12:05
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	SP-2-wk9	**Sample Matrix:** Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID: T0600101777
			Location ID (FieldPoint): SP-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1010328-05	**COC Number:**	---	**Receive Date:**	07/27/2010 21:05
	Project Number:	4186	**Sampling Date:**	07/26/2010 13:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SP-5-wk9	**Sample Matrix:**	Water
	Sampled By:	DECR	Delivery Work Order:	
			Global ID: T0600101777	
			Location ID (FieldPoint): SP-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1010328-06	**COC Number:**	---	**Receive Date:**	07/27/2010 21:05
	Project Number:	4186	**Sampling Date:**	07/26/2010 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SP-8-wk9	**Sample Matrix:**	Water
	Sampled By:	DECR	Delivery Work Order:	
			Global ID: T0600101777	
			Location ID (FieldPoint): SP-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Delta Environmental Consultants, Inc.
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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1010328-01 | **Client Sample Name:** 4186, U-11-wk9, 7/26/2010 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**2.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**3.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**4200**	**ug/L**	**50**	**EPA-8260**	**ND**	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.6**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.9	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	111	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/28/10	07/28/10 17:51	MGC	MS-V5	1	BTG1634
2	EPA-8260	07/28/10	07/29/10 10:37	MGC	MS-V5	100	BTG1634

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-01 | **Client Sample Name:** 4186, U-11-wk9, 7/26/2010 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**5500**	**ug/L**	**500**	**Luft**	**ND**	**A01,A91**	1
a,a,a-Trifluorotoluene (FID Surrogate)	104	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/27/10	07/28/10 16:00	jjh	GC-V4	10	BTG1564

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-01 | **Client Sample Name:** 4186, U-11-wk9, 7/26/2010 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**340**	**ug/L**	**50**	**Luft/TPHd**	**ND**		1
Tetracosane (Surrogate)	93.2	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	07/28/10	07/29/10 12:17	EJB	GC-5	1	BTG1731

Delta Environmental Consultants, Inc.
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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1010328-01 | **Client Sample Name:** 4186, U-11-wk9, 7/26/2010 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**820**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**2700**	**mg/L**	**10**	**EPA-300.0**	**ND**	**A01**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/29/10	07/30/10 09:19	ARD	PE-OP1	1	BTG1753
2	EPA-300.0	07/29/10	07/29/10 16:24	LD1	IC2	10	BTG1807

Delta Environmental Consultants, Inc.
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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1010328-01 | **Client Sample Name:** 4186, U-11-wk9, 7/26/2010 11:25:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	EPA-7199	ND	A26,S05	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	07/28/10	07/28/10 09:43	LD1	IC-4	1	BTG1740

Delta Environmental Consultants, Inc.
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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1010328-02 | **Client Sample Name:** 4186, U-8-wk9, 7/26/2010 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**3.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**1.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	**0.50**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**1.3**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	94.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	114	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/28/10	07/28/10 18:20	MGC	MS-V5	1	BTG1634

Delta Environmental Consultants, Inc.
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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-02 | **Client Sample Name:** 4186, U-8-wk9, 7/26/2010 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**1200**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/27/10	07/28/10 16:21	jjh	GC-V4	10	BTG1564

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-02 | **Client Sample Name:** 4186, U-8-wk9, 7/26/2010 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**430**	**ug/L**	**50**	**Luft/TPHd**	**ND**		1
Tetracosane (Surrogate)	81.8	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	07/28/10	07/29/10 12:32	EJB	GC-5	0.980	BTG1731

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Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1010328-02 | **Client Sample Name:** 4186, U-8-wk9, 7/26/2010 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**100**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**9.2**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/30/10	08/02/10 07:17	ARD	PE-OP1	1	BTG1848
2	EPA-300.0	07/29/10	07/29/10 17:46	LD1	IC2	1	BTG1807

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1010328-02 | **Client Sample Name:** 4186, U-8-wk9, 7/26/2010 11:40:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	EPA-7199	ND	A26,S05	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	07/28/10	07/28/10 10:33	LD1	IC-4	1	BTG1740

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1010328-03 | **Client Sample Name:** 4186, U-10-wk9, 7/26/2010 1:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**26**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**12**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**130**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	2
Toluene	**1.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**12**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	89.2	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	96.6	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.9	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	108	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/28/10	07/28/10 18:48	MGC	MS-V5	1	BTG1634
2	EPA-8260	07/28/10	07/29/10 11:06	MGC	MS-V5	10	BTG1634

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-03 | **Client Sample Name:** 4186, U-10-wk9, 7/26/2010 1:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**4800**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	114	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/27/10	07/28/10 16:44	jjh	GC-V4	10	BTG1564

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-03 | **Client Sample Name:** 4186, U-10-wk9, 7/26/2010 1:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**150**	**ug/L**	**50**	**Luft/TPHd**	**ND**		1
Tetracosane (Surrogate)	80.0	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	07/28/10	07/29/10 12:45	EJB	GC-5	1	BTG1731

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1010328-03 | **Client Sample Name:** 4186, U-10-wk9, 7/26/2010 1:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Magnesium	**95**	**mg/L**	**0.050**	**EPA-6010B**	**ND**		1
Sulfate	**25**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	07/29/10	07/30/10 09:21	ARD	PE-OP1	1	BTG1753
2	EPA-300.0	07/29/10	07/29/10 18:00	LD1	IC2	1	BTG1807

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1010328-03 | **Client Sample Name:** 4186, U-10-wk9, 7/26/2010 1:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	EPA-7199	ND	A26,S05	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	07/28/10	07/28/10 10:45	LD1	IC-4	1	BTG1740

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1010328-04 | **Client Sample Name:** 4186, SP-2-wk9, 7/26/2010 12:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**28**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**5.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**620**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	2
Toluene	**1.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Total Xylenes	**4.3**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	114	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	111	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/28/10	07/28/10 19:17	MGC	MS-V5	1	BTG1634
2	EPA-8260	07/28/10	07/29/10 11:34	MGC	MS-V5	10	BTG1634

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-04 | **Client Sample Name:** 4186, SP-2-wk9, 7/26/2010 12:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**5200**	**ug/L**	**500**	**Luft**	**ND**	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	118	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/27/10	07/28/10 17:05	jjh	GC-V4	10	BTG1564

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1010328-04 | **Client Sample Name:** 4186, SP-2-wk9, 7/26/2010 12:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**50**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/29/10	07/29/10 18:13	LD1	IC2	1	BTG1807

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1010328-04 | **Client Sample Name:** 4186, SP-2-wk9, 7/26/2010 12:05:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	EPA-7199	ND	A26,S05	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	07/28/10	07/28/10 10:58	LD1	IC-4	1	BTG1740

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1010328-05 | **Client Sample Name:** 4186, SP-5-wk9, 7/26/2010 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**3.8**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/28/10	07/28/10 19:46	MGC	MS-V5	1	BTG1634

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-05 | **Client Sample Name:** 4186, SP-5-wk9, 7/26/2010 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**510**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	116	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/27/10	07/29/10 08:38	jjh	GC-V4	1	BTG1564

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1010328-05 | **Client Sample Name:** 4186, SP-5-wk9, 7/26/2010 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**16**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/29/10	07/29/10 18:27	LD1	IC2	1	BTG1807

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1010328-05 | **Client Sample Name:** 4186, SP-5-wk9, 7/26/2010 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	EPA-7199	ND	A26,S05	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	07/28/10	07/28/10 11:10	LD1	IC-4	1	BTG1740

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1010328-06 | **Client Sample Name:** 4186, SP-8-wk9, 7/26/2010 12:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**9.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Ethylbenzene	**3.1**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methyl t-butyl ether	**30**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.5**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	07/28/10	07/28/10 20:14	MGC	MS-V5	1	BTG1634

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1010328-06 | **Client Sample Name:** 4186, SP-8-wk9, 7/26/2010 12:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	**420**	**ug/L**	**50**	**Luft**	**ND**		1
a,a,a-Trifluorotoluene (FID Surrogate)	108	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	07/27/10	07/29/10 09:00	jjh	GC-V4	1	BTG1564

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (General Chemistry)

BCL Sample ID: 1010328-06 | **Client Sample Name:** 4186, SP-8-wk9, 7/26/2010 12:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Sulfate	**27**	**mg/L**	**1.0**	**EPA-300.0**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	07/29/10	07/29/10 18:40	LD1	IC2	1	BTG1807

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1010328-06 | **Client Sample Name:** 4186, SP-8-wk9, 7/26/2010 12:40:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	ug/L	0.20	EPA-7199	ND	A26,S05	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7199	07/28/10	07/28/10 11:48	LD1	IC-4	1	BTG1740

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1634						
Benzene	BTG1634-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTG1634-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTG1634-BLK1	ND	ug/L	0.50		
Toluene	BTG1634-BLK1	ND	ug/L	0.50		
Total Xylenes	BTG1634-BLK1	ND	ug/L	1.0		
1,2-Dichloroethane-d4 (Surrogate)	BTG1634-BLK1	94.5	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTG1634-BLK1	98.5	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTG1634-BLK1	97.6	%	86 - 115 (LCL - UCL)		

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1634										
Benzene	BTG1634-BS1	LCS	23.860	25.000	ug/L	95.4		70 - 130		
Toluene	BTG1634-BS1	LCS	26.650	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTG1634-BS1	LCS	8.8000	10.000	ug/L	88.0		76 - 114		
Toluene-d8 (Surrogate)	BTG1634-BS1	LCS	9.9200	10.000	ug/L	99.2		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTG1634-BS1	LCS	9.6400	10.000	ug/L	96.4		86 - 115		

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Reported: 08/02/2010 15:35
Project: 4186
Project Number: 4513481270
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1634	Used client sample: N										
Benzene	MS	1010261-01	ND	22.600	25.000	ug/L		90.4		70 - 130	
	MSD	1010261-01	ND	22.950	25.000	ug/L	1.5	91.8	20	70 - 130	
Toluene	MS	1010261-01	ND	24.650	25.000	ug/L		98.6		70 - 130	
	MSD	1010261-01	ND	24.270	25.000	ug/L	1.6	97.1	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1010261-01	ND	9.5400	10.000	ug/L		95.4		76 - 114	
	MSD	1010261-01	ND	9.4500	10.000	ug/L		94.5		76 - 114	
Toluene-d8 (Surrogate)	MS	1010261-01	ND	9.9600	10.000	ug/L		99.6		88 - 110	
	MSD	1010261-01	ND	9.8600	10.000	ug/L		98.6		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1010261-01	ND	9.7900	10.000	ug/L		97.9		86 - 115	
	MSD	1010261-01	ND	10.080	10.000	ug/L		101		86 - 115	

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Project: 4186
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Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1564						
Gasoline Range Organics (C4 - C12)	BTG1564-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BTG1564-BLK1	99.0	%	70 - 130 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1564										
Gasoline Range Organics (C4 - C12)	BTG1564-BS1	LCS	1069.2	1000.0	ug/L	107		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTG1564-BS1	LCS	42.571	40.000	ug/L	106		70 - 130		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1564	Used client sample: N										
Gasoline Range Organics (C4 - C12)	MS	1009676-14	ND	1007.3	1000.0	ug/L		101		70 - 130	
	MSD	1009676-14	ND	1036.2	1000.0	ug/L	2.8	104	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1009676-14	ND	43.096	40.000	ug/L		108		70 - 130	
	MSD	1009676-14	ND	43.104	40.000	ug/L		108		70 - 130	

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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1731						
Diesel Range Organics (C12 - C24)	BTG1731-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BTG1731-BLK1	49.7	%	28 - 139 (LCL - UCL)		

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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1731										
Diesel Range Organics (C12 - C24)	BTG1731-BS1	LCS	379.47	500.00	ug/L	75.9		48 - 125		
Tetracosane (Surrogate)	BTG1731-BS1	LCS	14.105	20.000	ug/L	70.5		28 - 139		

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1731	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1009676-45	ND	361.01	500.00	ug/L		72.2		36 - 130	
	MSD	1009676-45	ND	342.12	500.00	ug/L	5.4	68.4	30	36 - 130	
Tetracosane (Surrogate)	MS	1009676-45	ND	12.897	20.000	ug/L		64.5		28 - 139	
	MSD	1009676-45	ND	11.755	20.000	ug/L		58.8		28 - 139	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1753						
Total Magnesium	BTG1753-BLK1	ND	mg/L	0.050		
QC Batch ID: BTG1807						
Sulfate	BTG1807-BLK1	ND	mg/L	1.0		
QC Batch ID: BTG1848						
Total Magnesium	BTG1848-BLK1	ND	mg/L	0.050		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1753										
Total Magnesium	BTG1753-BS1	LCS	10.052	10.000	mg/L	101		85 - 115		
QC Batch ID: BTG1807										
Sulfate	BTG1807-BS1	LCS	100.89	100.00	mg/L	101		90 - 110		
QC Batch ID: BTG1848										
Total Magnesium	BTG1848-BS1	LCS	10.315	10.000	mg/L	103		85 - 115		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1753	Used client sample: N										
Total Magnesium	DUP	1010268-01	47.690	47.490		mg/L	0.4		20		
	MS	1010268-01	47.690	56.766	10.000	mg/L		90.8		75 - 125	
	MSD	1010268-01	47.690	58.899	10.000	mg/L	21.0	112	20	75 - 125	Q02
QC Batch ID: BTG1807	Used client sample: Y - Description: U-11-wk9, 07/26/2010 11:25										
Sulfate	DUP	1010328-01	2654.2	2653.5		mg/L	0.0		10		
	MS	1010328-01	2654.2	3662.3	1010.1	mg/L		99.8		80 - 120	
	MSD	1010328-01	2654.2	3664.1	1010.1	mg/L	0.2	100	10	80 - 120	
QC Batch ID: BTG1848	Used client sample: N										
Total Magnesium	DUP	1010316-01	95.349	95.203		mg/L	0.2		20		
	MS	1010316-01	95.349	101.58	10.000	mg/L		62.3		75 - 125	A03
	MSD	1010316-01	95.349	107.60	10.000	mg/L	65.2	123	20	75 - 125	A03,Q02

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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG1740						
Hexavalent Chromium	BTG1740-BLK1	ND	ug/L	0.20		

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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BTG1740										
Hexavalent Chromium	BTG1740-BS1	LCS	19.060	20.000	ug/L	95.3		90 - 110		

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Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BTG1740	Used client sample: Y - Description: U-11-wk9, 07/26/2010 11:25										
Hexavalent Chromium	DUP	1010328-01	ND	ND		ug/L			10		
	MS	1010328-01	ND	19.280	20.202	ug/L		95.4		90 - 110	
	MSD	1010328-01	ND	19.324	20.202	ug/L	0.2	95.7	10	90 - 110	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A03	The sample concentration is more than 4 times the spike level.
A26	Sample received past holding time.
A91	TPH does not exhibit a "gasoline" pattern. TPH is entirely due to MTBE.
Q02	Matrix spike precision is not within the control limits.
S05	The sample holding time was exceeded.