Mr. Paresh Khatri
Alameda County Environmental Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: 6310 Houston Place, Dublin, California 94568
ACEHS Case No. RO0002862, GeoTracker ID T0600113164

Dear Mr. Khatri:

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

Sincerely,

Mr. Cary Grayson

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
(530) 676-6004 ~ Fax: (530) 676-6005

June 20, 2012
Project No. 2094-6310-01

Ms. Dilan Roe, P.E.
Alameda County Environmental Health Department
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: **Groundwater Sampling and Laboratory Methodology/Analytical Results Summary**
6310 Houston Place, Dublin, California 94568
ACEHD Case No. RO0002862, GeoTracker ID T0600113164

Dear Ms. Roe:

Stratus Environmental, Inc. (Stratus) is pleased to provide this summary of groundwater sampling activities, laboratory methodology, and analytical results for samples collected during the second quarter 2012 at the subject site. This letter is meant to be a basis for discussion during the planned near future meeting at the offices of the Alameda County Environmental Health Department (ACEHD). The following events have occurred during the second quarter 2012:

- May 2, 2012 - Upon review of Stratus' *Quarterly Groundwater Monitoring and Sampling Report – First Quarter 2012*, dated February 17, 2012, ACEHD recommended additional post-remediation groundwater sampling to adequately evaluate groundwater concentration trends, prior to consideration for low-risk closure.
- May 2, 2012 - Stratus conducted the second quarter 2012 groundwater sampling event and collected groundwater samples from all seven monitoring wells (DW-1 through DW-7) associated with the site for laboratory analysis of petroleum hydrocarbons (DRO [with silica gel cleanup] by EPA Method 8015; and BTEX, MTBE, and naphthalene by EPA Method 8260B), as historically analyzed during quarterly groundwater sampling events. During the sampling event, the field technician (Shane Edwards) noted bubbles in the purge water collected from wells DW-1 through DW-5. Given the unexpected and unusual condition of the water samples, we recommended that the field technician purge three additional well casing volumes before collecting the samples from each well. A site map depicting the well locations is included as Attachment A.

- May 7, 2012 - ACEHD requested that the groundwater samples collected on May 2, 2012 be additionally analyzed for the dissolved metals that were monitored during the oxidant injection pilot test. The samples collected on May 2, 2012 were submitted to Alpha Analytical, Inc. (Alpha) for analysis of petroleum hydrocarbons and were not collected in sample containers appropriate for the analysis of dissolved metals.

- May 9, 2012 – Stratus returned to the site to collect groundwater samples for dissolved metals analysis. During the sampling event, the field technician (Kasey Jones) noted bubbles and soapy odor in the purge water collected from wells DW-1 through DW-5. The samples were submitted to Alpha for analysis of dissolved metals.

- May 10, 2012 - Alpha reported the petroleum hydrocarbon analytical results for the samples that Stratus collected on May 2, 2012. Upon review of the laboratory data, Stratus noticed that the analytical results for the samples collected from wells DW-1 through DW-5 indicated DRO concentrations that were uncharacteristically elevated (in some cases by two orders of magnitude) compared to the first quarter 2012 results, and that the laboratory noted increased reporting limits for the other analytes due to sample foaming.

- May 14, 2012 – To evaluate the consistency of the analytical data, and to understand if a laboratory error was occurring, Stratus collected split samples (two samples from each well) from wells DW-1 through DW-5, and duplicate samples from well DW-4, and sent the samples to Alpha and Kiff Analytical, LLC (Kiff) for analysis of petroleum hydrocarbons in order to compare results between the two labs. The field technician (Chris Hill) noted bubbles/foam in the bailer and a water odor that was not indicative of fuel. The analyses and methods requested of each lab were identical. In an attempt to prevent bias, Stratus labeled the samples collected from well DW-1 as DW-1A; the samples collected from well DW-5 were labeled DW-1B, and the duplicate samples collected from well DW-4 were labeled DW-1C.

- May 18, 2012 - Upon review of the preliminary laboratory data received from both of the labs, Stratus noticed that the DRO concentrations reported by Alpha were greatly elevated (though not nearly as high as the concentrations reported for the samples collected on May 2, 2012), compared to Kiff's DRO results. Stratus requested that both of the labs review their methodologies and explain the disparate results. Upon further discussion with both labs, Stratus determined that the silica gel cleanup methods applied by the labs were inconsistent. Both labs extracted the sample with hexane. However, prior to analysis, Alpha employed the shake-out silica gel cleanup method (shake method) while Kiff employed the

column silica gel cleanup method (column method). Once this was brought to the attention of the both laboratories, Kiff reviewed their data and issued their final report (dated May 22, 2012) without any changes; Alpha re-ran the samples using the column method. Alpha's description of the process involved, and their decision to re-run the samples using the column method, is included as Attachment B.

- June 13, 2012 - The duplicate sample (DW-1C [Kiff sample ID-06]) for well DW-4 (Kiff sample ID-01) analyzed by Kiff contained DRO at a concentration an order of magnitude greater than the sample labeled DW-4. Kiff issued the following explanation in an e-mail:

  "The samples do produce a head of foam when agitated. The bottles from sample -06 seemed to produce a slightly larger and more persistent head. From the volatiles run, 2-butoxyethanol (a surfactant) and eucalyptol (fragrance) were significant presences. The quantity of these compounds was also noted to be higher in sample -06 than in sample -04. The presence of the surfactant may have affected the relative quantities of hydrocarbons."

- The laboratory detection limits for the volatile organic compounds (VOCs) analyzed by Alpha were elevated due to sample foaming; however, the detection limits reported by Kiff were not.

Both of the laboratories concurred that the samples collected from wells DW-1 through DW-5 contained concentrations of an ethoxaleted surfactant. Both labs also agree that the concentrations of DRO reported after cleanup by the column method are valid. The laboratory analytical results are summarized on Table 1 and included as Attachment C. Laboratory analytical reports are included as Attachment D.

Stratus researched the possibility of the ethoxaleted surfactant originating from the RegenOx© injection pilot test (September through November 2011). The manufacturer of RegenOx© disclosed to Stratus that their product does not contain ethoxaleted surfactants and would not likely combine with anything naturally to become an ethoxaleted surfactant. Additionally, Stratus has returned to the subject site and checked all of the well head expansion caps for tightness and replaced all of the old locks with new locks under a different key.

June 20, 2012

Stratus wishes to schedule a meeting at your office to further discuss these events as well as the additional information that you have requested in relation to the subject site. If you have any questions, please contact Kasey L. Jones by telephone at (415) 516-0373 or by e-mail at kaseyjones@stratusinc.net.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Kasey L. Jones
Senior Project Manager

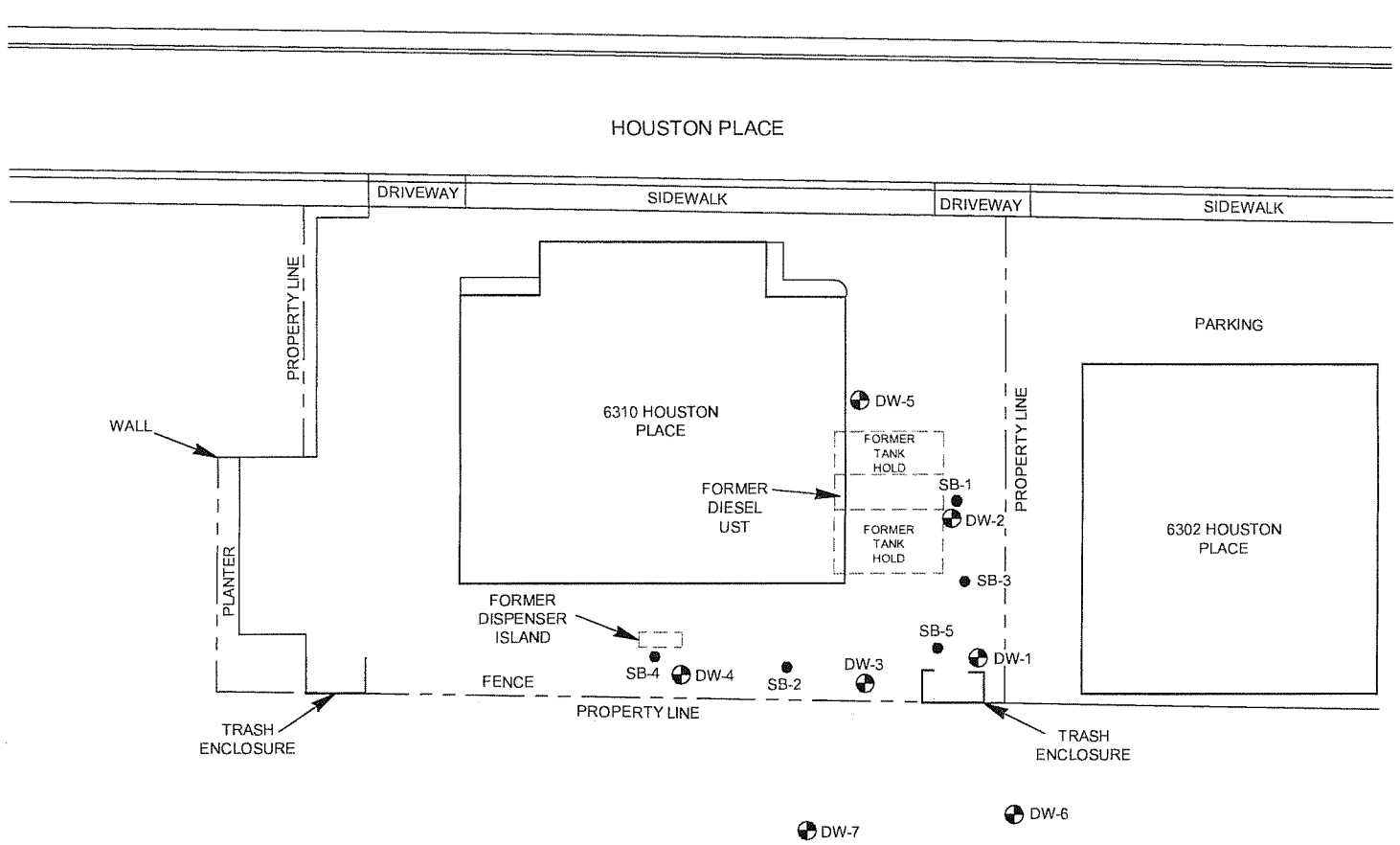
Gowri S. Kowtha, P.E.
Principal Engineer

Attachments: Attachment A – Site Plan
Attachment B – Methodology Summary Letter from Alpha
Attachment C – Table 1 - Groundwater Elevation & Analytical Summary
Attachment D – Laboratory Analytical Reports

cc: Mr. Cary Grayson, *via e-mail: carybgrayson@gmail.com*

ATTACHMENT A

SITE PLAN



LEGEND

- DW-1 MONITORING WELL LOCATION
- SB-1 SOIL BORING LOCATION

JMP REV August 25, 2010 Bay Co Siteplan

Bay Counties

STRATUS ENVIRONMENTAL, INC.

0 50 FT

SCALE

BAY COUNTIES PETROLEUM
6310 HOUSTON PLACE
DUBLIN, CALIFORNIA

SITE PLAN

FIGURE
2

PROJECT NO.
2094-6301-01

ATTACHMENT B

METHODOLOGY SUMMARY LETTER FROM ALPHA

Alpha Analytical, Inc.
255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

June 12, 2012

Kasey Jones
Stratus Enviornmental, In.c
Senior Project Manager

RE: Bay Counties Petroleum Samples for TPH-DRO

Groundwater samples from Bay Counties Petroleum were analyzed by EPA Method 8015B for TPH-Diesel and Oil Range (DRO and ORO) hydrocarbons. The samples contained material which eluted in the diesel and oil ranges, and exhibited a series of homologous peaks. The majority of this material was later identified by GC/MS as material composed primarily of ethoxaleted surfactants that elute in the DRO range, thus initially resulting in falsely-elevated DRO concentrations.

Chronology of Analytical Steps

1) The groundwater samples were extracted with hexane.
2) Before analysis, the hexane extract was mixed with approximately 0.5 gram of silica gel. This shake-out silica gel cleanup procedure is commonly used to remove low levels of biogenic material often found in groundwater samples.
3) After the original analysis was completed, data from a split laboratory revealed that their silica-gel results, which utilized a column-type procedure, were much more effective at removing the surfactants.
4) Alpha then performed the same silica gel column-type procedure where a small column was filled with silica gel and the hexane extract from the sample was rinsed through the column. This column-type procedure is appropriate for high-levels of surfactant material because more silica-gel is available for cleanup. This procedure appeared to clean up approximately 98% of the surfactant.

If you have any further questions, please call.

Sincerely,

Randy Gardner
Laboratory Manager
Alpha Analytical, Inc.
800-283-1183
randyg@alpha-analytical.com

ATTACHMENT C

TABLE 1 – GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-1	04/10/07	7.44	334.23	326.79	8,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	7.72	334.23	326.51	30,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	7.88	334.23	326.35	18,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	6.16	334.23	328.07	13,000	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	6.96	334.23	327.27	15,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.55	334.23	326.68	5,200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.02	334.23	326.21	11,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	7.58	334.23	326.65	5,600	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	7.43	334.23	326.80	540	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	6.81	334.23	327.42	1,700	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.47	334.23	327.76	380	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	8.05	334.23	326.18	390	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	6.40	334.23	327.83	89,000	<500[3]	<500[3]	<500[3]	<500[3]	<500[3]	<4,000[3]
	05/14/02*	6.69	334.23	327.54	71	<25[3]	<25[3]	<25[3]	<25[3]	<25[3]	<200[3]
	05/14/12**	--	--	--	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-2	04/10/07	7.09	334.00	326.91	8,200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	7.40	334.00	326.60	34,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	7.55	334.00	326.45	14,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	5.89	334.00	328.11	17,000	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	6.63	334.00	327.37	27,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.25	334.00	326.75	16,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	7.74	334.00	326.26	11,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	7.23	334.00	326.77	6,900	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	7.40	334.00	326.60	550	<0.50	<0.50	<0.50	<0.50	<0.50	--
	01/13/11	6.27	334.00	327.73	7,500	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.12	334.00	327.88	210	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	7.77	334.00	326.23	1,600	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	6.06	334.00	327.94	23,000	<250[3]	<250[3]	<250[3]	<250[3]	<250[3]	<2,000[3]
	05/14/02*	6.39	334.00	327.61	450	<10[3]	<10[3]	<10[3]	<10[3]	<10[3]	<80[3]
	05/14/12**	6.39	334.00	327.61	260	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-3	04/10/07	7.90	334.56	326.66	27,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	8.19	334.56	326.37	210,000	<0.5	<1.7	<1.7	<1.7	<1.7	--
	10/11/07	8.29	334.56	326.27	71,000	<25	<25	<25	<25	<0.5	--
	01/25/08	6.63	334.56	327.93	66,000	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.38	334.56	327.18	58,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.94	334.56	326.62	38,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.41	334.56	326.15	29,000	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	8.12	334.56	326.44	29,000	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	8.02	334.56	326.54	6,300	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	7.06	334.56	327.50	1,800	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.88	334.56	327.68	780	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	8.43	334.56	326.13	9,000	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	6.92	334.56	327.64	53,000	<250[3]	<250[3]	<250[3]	<250[3]	<250[3]	<2,000[3]
	05/14/02*	7.13	334.56	327.43	1,300	<25[3]	<25[3]	<25[3]	<25[3]	<25[3]	<200[3]
	05/14/12**	7.13	334.56	327.43	740	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-4	04/10/07	7.99	334.49	326.50	65	<0.5	<0.5	<0.5	<0.5	0.67	--
	07/12/07	8.22	334.49	326.27	300	<0.5	<0.5	<0.5	<0.5	0.87	--
	10/11/07	8.33	334.49	326.16	640	<0.5	<0.5	<0.5	<0.5	0.80	--
	01/25/08	6.62	334.49	327.87	240	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.39	334.49	327.10	340	<0.5	<0.5	<0.5	<0.5	0.94	--
	07/23/08	7.94	334.49	326.55	<50	<0.5	<0.5	<0.5	<0.5	0.94	--
	10/30/08	8.39	334.49	326.10	<50	<0.5	<0.5	<0.5	<0.5	0.92	--
	01/11/10	8.13	334.49	326.36	65	<1.0	<1.0	<1.0	<1.0	<5.0	--
	08/03/10	8.00	334.49	326.49	370	<0.50	<0.50	<0.50	<0.50	0.76	--
	01/13/11	7.08	334.49	327.41	370	<0.50	<0.50	<0.50	<0.50	0.74	<4.0[3]
	07/05/11	6.91	334.49	327.58	300	<0.50	<0.50	<0.50	<0.50	0.96	<2.0
	01/04/12	8.38	334.49	326.11	88	<0.50	<0.50	<0.50	<0.50	0.80	<2.0
	05/02/12	6.85	334.49	327.64	33,000	<100[3]	<100[3]	<100[3]	<100[3]	<100[3]	<800[3]
	05/14/12*	7.20	334.49	327.29	140	<10[3]	<10[3]	<10[3]	<10[3]	<10[3]	<80[3]
Duplicate	05/14/12*	7.20	334.49	327.29	<50	<25[3]	<25[3]	<25[3]	<25[3]	<25[3]	<200[3]
	05/14/12**	7.20	334.49	327.29	110[4]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	05/14/12**	7.20	334.49	327.29	4,000[5]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-5	04/10/07	7.00	333.91	326.91	800	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	7.36	333.91	326.55	990	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	7.52	333.91	326.39	880	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	5.93	333.91	327.98	730	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	6.52	333.91	327.39	780	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	7.24	333.91	326.67	340	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	7.68	333.91	326.23	1,200	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	7.47	333.91	326.44	130	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	7.32	333.91	326.59	490[1,2]	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	6.23	333.91	327.68	470	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	6.12	333.91	327.79	220	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	7.72	333.91	326.19	380	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0[3]
	05/02/12	6.04	333.91	327.87	38,000	<250[3]	<250[3]	<250[3]	<250[3]	<250[3]	<2,000[3]
	05/14/02*	6.36	333.91	327.55	190	<50[3]	<50[3]	<50[3]	<50[3]	<50[3]	<400[3]
	05/14/12**	6.36	333.91	327.55	250[6]	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-6	04/10/07	8.62	334.99	326.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	8.81	334.99	326.18	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	8.53	334.99	326.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	7.16	334.99	327.83	<50	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.53	334.99	327.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	8.24	334.99	326.75	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.62	334.99	326.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	8.18	334.99	326.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	8.25	334.99	326.74	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	01/13/11	7.69	334.99	327.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	7.06	334.99	327.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	8.52	334.99	326.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	05/02/12	7.65	334.99	327.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0

TABLE 1
GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
6310 Houston Place, Dublin, CA

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	**DRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)
DW-7	04/10/07	8.11	335.18	327.07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/12/07	8.34	335.18	326.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/11/07	8.96	335.18	326.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/25/08	6.75	335.18	328.43	<50	<0.5	<0.5	<0.5	<0.5	--	--
	04/23/08	7.95	335.18	327.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	07/23/08	8.55	335.18	326.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	10/30/08	8.96	335.18	326.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	01/11/10	8.62	335.18	326.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	08/03/10	8.58	335.18	326.60	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/13/11	7.85	335.18	327.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	07/05/11	7.49	335.18	327.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0
	01/04/12	9.17	335.18	326.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<4.0[3]
	05/02/12	7.46	335.18	327.72	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0

Notes:

Data through January 11, 2010, reported by AEI Contultants.

Prior to 8/3/10, reported as TPH-D

* = Sample was collected as a split grab sample. Sample was forwarded to Alpha Analytical.

** = Sample was collected as a split grab sample. Sample was forwarded to Kiff Analytical.

-- = Not analyzed

NM = Not measured

DRO = total petroleum hydrocarbons as diesel (C13-C-22)

MTBE = methyl-tertiary butyl ether

µg/L = micrograms per liter

[1] = reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

[2] = DRO concentration may include contributions from heavier-end hydrocarbons that elute in the DRO range.

[3] = Reporting limits were increased due to sample foaming.

[4] = Discrete peaks in diesel range, atypical for diesel fuel.

[5] = Hydrocarbons are higher-boiling than typical diesel fuel.

[6] = Lower boiling hydrocarbons present, atypical for diesel fuel.

ATTACHMENT D

LABORATORY ANALYTICAL REPORTS

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Laboratory Results

Kasey Jones
Stratus Environmental, Inc.
3330 Cameron Park Drive, Suite 550
Cameron Park, CA 95682

Subject : 6 Water Samples
Project Name : Bay Counties Petroleum Dublin
Project Number :

Dear Mr. Jones,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Subject : 6 Water Samples
Project Name : Bay Counties Petroleum Dublin
Project Number :

Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with sample DW-1A for the analyte Methyl-t-butyl ether were outside of control limits. This may indicate a bias for the sample that was spiked. Since the LCS recoveries were within control limits, no data are flagged.

Surrogate Recovery for sample DW-1B for test method Mod. EPA 8015 was outside of control limits. This may indicate a bias in the analysis due to the sample's matrix or an interference from compounds present in the sample.

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-1A** Matrix : Water Lab Number : 81252-01
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/18/12 16:47
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	05/18/12 16:47
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	05/18/12 16:47
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/18/12 16:47
TPH as Diesel (Silica Gel)	**100**	50	ug/L	M EPA 8015	05/18/12 16:16
Octacosane (Silica Gel Surr)	94.7		% Recovery	M EPA 8015	05/18/12 16:16

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-2** Matrix : Water Lab Number : 81252-02
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 00:52
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	05/17/12 00:52
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	05/17/12 00:52
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/17/12 00:52
TPH as Diesel (Silica Gel)	**260**	50	ug/L	M EPA 8015	05/18/12 16:45
Octacosane (Silica Gel Surr)	91.8		% Recovery	M EPA 8015	05/18/12 16:45

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-3** Matrix : Water Lab Number : 81252-03
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 01:28
1,2-Dichloroethane-d4 (Surr)	108		% Recovery	EPA 8260B	05/17/12 01:28
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/17/12 01:28
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	05/17/12 01:28
TPH as Diesel (Silica Gel)	**740**	50	ug/L	M EPA 8015	05/18/12 17:15
Octacosane (Silica Gel Surr)	73.8		% Recovery	M EPA 8015	05/18/12 17:15

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-1C** Matrix : Water Lab Number : 81252-04
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:08
1,2-Dichloroethane-d4 (Surr)	110		% Recovery	EPA 8260B	05/17/12 02:08
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	05/17/12 02:08
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	05/17/12 02:08
TPH as Diesel (Silica Gel)	**4000**	50	ug/L	M EPA 8015	05/18/12 17:44
(Note: Hydrocarbons are higher-boiling than typical Diesel Fuel.)					
Octacosane (Silica Gel Surr)	96.0		% Recovery	M EPA 8015	05/18/12 17:44

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-1B** Matrix : Water Lab Number : 81252-05
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 02:46
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	EPA 8260B	05/17/12 02:46
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	05/17/12 02:46
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	05/17/12 02:46
TPH as Diesel (Silica Gel)	**250**	50	ug/L	M EPA 8015	05/18/12 18:14
(Note: Lower boiling hydrocarbons present, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	42.6		% Recovery	M EPA 8015	05/18/12 18:14

KIFF Analytical LLC

Report Number : 81252
Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**
Project Number :

Sample : **DW-4** Matrix : Water Lab Number : 81252-06
Sample Date :05/14/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/12 03:24
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	05/17/12 03:24
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	05/17/12 03:24
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	05/17/12 03:24
TPH as Diesel (Silica Gel)	**110**	50	ug/L	M EPA 8015	05/18/12 18:43
(Note: Discrete peaks in Diesel range, atypical for Diesel Fuel.)					
Octacosane (Silica Gel Surr)	87.9		% Recovery	M EPA 8015	05/18/12 18:43

Report Number : 81252

Date : 05/22/2012

QC Report : Method Blank Data

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	05/15/2012
Octacosane (Silica Gel Surr)	108		%	M EPA 8015	05/15/2012
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/16/2012
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	05/16/2012
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	05/16/2012
Toluene - d8 (Surr)	96.6		%	EPA 8260B	05/16/2012
Benzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Toluene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	05/17/2012
1,2-Dichloroethane-d4 (Surr)	97.9		%	EPA 8260B	05/17/2012
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	05/17/2012
Toluene - d8 (Surr)	102		%	EPA 8260B	05/17/2012

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

KIFF ANALYTICAL, LLC

2795 2nd Street. Suite 300 Davis. CA 95618 530-297-4800

Report Number : 81252

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 05/22/2012

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH-D (Si Gel)														
	BLANK	<50	1000	1000	848	860	ug/L	M EPA 8015	5/15/12	84.8	86.0	1.39	70-130	25
Benzene														
	81277-02	<0.50	39.7	39.9	39.7	39.4	ug/L	EPA 8260B	5/16/12	100	98.6	1.41	80-120	25
Ethylbenzene														
	81277-02	<0.50	39.7	39.9	40.8	40.2	ug/L	EPA 8260B	5/16/12	103	101	2.07	80-120	25
Methyl-t-butyl ether														
	81277-02	<0.50	39.7	39.9	40.3	40.2	ug/L	EPA 8260B	5/16/12	102	100	1.07	69.7-121	25
Naphthalene														
	81277-02	0.52	39.7	39.9	40.3	39.6	ug/L	EPA 8260B	5/16/12	100	97.9	2.34	70.0-130	25
P + M Xylene														
	81277-02	<0.50	39.7	39.9	40.1	39.6	ug/L	EPA 8260B	5/16/12	101	99.2	1.73	76.8-120	25
Toluene														
	81277-02	<0.50	39.7	39.9	40.5	40.1	ug/L	EPA 8260B	5/16/12	102	100	1.73	80-120	25
Benzene														
	81292-01	<0.50	39.8	39.8	40.0	40.2	ug/L	EPA 8260B	5/18/12	101	101	0.170	80-120	25
Ethylbenzene														
	81292-01	<0.50	39.8	39.8	40.6	41.4	ug/L	EPA 8260B	5/18/12	102	104	1.75	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 81252

Date : 05/22/2012

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether														
	81292-01	<0.50	39.8	39.8	48.4	39.6	ug/L	EPA 8260B	5/18/12	**122**	99.3	20.2	69.7-121	25
Naphthalene														
	81292-01	<0.50	39.8	39.8	36.3	37.0	ug/L	EPA 8260B	5/18/12	91.2	93.0	1.94	70.0-130	25
P + M Xylene														
	81292-01	<0.50	39.8	39.8	39.9	41.0	ug/L	EPA 8260B	5/18/12	100	103	2.60	76.8-120	25
Toluene														
	81292-01	<0.50	39.8	39.8	40.6	41.2	ug/L	EPA 8260B	5/18/12	102	104	1.26	80-120	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **Bay Counties Petroleum Dublin**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/16/12	99.1	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	5/16/12	102	80-120
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	5/16/12	99.0	69.7-121
Naphthalene	40.0	ug/L	EPA 8260B	5/16/12	91.1	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	5/16/12	100	76.8-120
Toluene	40.0	ug/L	EPA 8260B	5/16/12	102	80-120
Benzene	40.0	ug/L	EPA 8260B	5/17/12	101	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	5/17/12	103	80-120
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	5/17/12	100	69.7-121
Naphthalene	40.0	ug/L	EPA 8260B	5/17/12	98.9	70.0-130
P + M Xylene	40.0	ug/L	EPA 8260B	5/17/12	101	76.8-120
Toluene	40.0	ug/L	EPA 8260B	5/17/12	104	80-120

KIFF ANALYTICAL, LLC
2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 81252

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Kasey Jones

California EDF Report? ☐ Yes ☐ No

Company / Address: Stratus 3330 Cameron Park Dr #

Sampling Company Log Code:

Phone Number: 415 516 0373

Global ID:

Fax Number: 1 530 676 6005

EDF Deliverable To (Email Address):

Project #:

P.O. #:

Bill to: Stratus

Project Name: BAY Counties Petroleum Dublin

Sampler Print Name: CHILL

Sampler Signature:

Project Address:

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Container:	Preservative: HCl	Preservative: HNO3	Preservative: None	Preservative:	Matrix: Water	Matrix: Soil	Matrix: Air	Matrix:
DW-1A	5/1/12	0505	X						X	X			X			
DW-2		0523	X						X	X			X			
DW-3		0557	X						X	X			X			
DW-1C		0627	X						X	X			X			
DW-1B		0540	X						X	X			X			
DW-4	5/1/12	0618	X						X	X			X			

Analysis Request

MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M) w/ silica Gel Cleanup	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	Naphthalene 8260B				TAT: 12 hr ☐	24 hr ☐	48hr ☐	72hr ☐	1 wk ☒	For Lab Use Only
X	X								X							X									01
X	X								X							X									02
X	X								X							X									03
X	X								X							X									04
X	X								X							X									05
X	X								X							X									06

CIRCLE METHOD

Relinquished by:	Date	Time	Received by:
	5/1/12	0905	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	051412	0905	

Remarks:

Page 13 of 14

Distribution: White - Lab; Pink - Originator
Rev: 060409

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

RECEIVER Initials

SRG#: 81252 Date: 051412

Project ID: Bay Countries Petroleum Dublin

Method of Receipt: ☐ Courier ☒ Over-the-counter ☐ Shipper

COC Inspection

Is COC present?	☒ Yes	☐ No		
Custody seals on shipping container?	☐ Intact	☐ Broken	☐ Not present	☒ N/A
Is COC Signed by Relinquisher? ☒ Yes ☐ No Dated?	☒ Yes	☐ No		
Is sampler name legibly indicated on COC?	☐ Yes	☒ No		
Is analysis or hold requested for all samples?	☒ Yes	☐ No		
Is the turnaround time indicated on COC?	☒ Yes	☐ No		
Is COC free of whiteout and uninitialed cross-outs? (write over)	☒ Yes	☐ No, Whiteout	☐ No, Cross-outs	

Sample Inspection

Coolant Present: ☒ Yes ☐ No (includes water)

Temperature °C 10.6 Therm. ID# TR-4 Initial [initials] Date/Time 051412 0905 ☐ N/A

Are there custody seals on sample containers?	☐ Intact	☐ Broken	☒ Not present	
Do containers match COC? ☒ Yes ☐ No ☐ No, COC lists absent sample(s)	☐ No, Extra sample(s) present			
Are there samples matrices other than soil, water, air or carbon?	☐ Yes	☒ No		
Are any sample containers broken, leaking or damaged?	☐ Yes	☒ No		
Are preservatives indicated? ☐ Yes, on sample containers	☒ Yes, on COC	☐ Not indicated	☐ N/A	
Are preservatives correct for analyses requested?	☒ Yes	☐ No	☐ N/A	
Are samples within holding time for analyses requested?	☒ Yes	☐ No		
Are the correct sample containers used for the analyses requested?	☒ Yes	☐ No		
Is there sufficient sample to perform testing?	☒ Yes	☐ No		
Does any sample contain product, have strong odor or are otherwise suspected to be hot?	☐ Yes	☒ No		

Receipt Details

Matrix WA	Container type Voa	# of containers received 3e
Matrix	Container type	# of containers received
Matrix	Container type	# of containers received

Date and Time Sample Put into Temp Storage Date: 051412 Time: 0905

Quicklog

Are the Sample ID's indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If Sample ID's are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Is the Project ID indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If project ID is listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection dates indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection dates are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	
Are the sample collection times indicated:	☐ On COC	☐ On sample container(s)	☒ On Both	☐ Not indicated
If collection times are listed on both COC and containers, do they all match?	☒ Yes	☐ No	☐ N/A	

COMMENTS:

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Stratus Environmental
3330 Cameron Park Drive
Cameron Park, CA 956828861

Attn: Kasey Jones
Phone: (530) 676-6000
Fax: (530) 676-6005
Date Received : 05/15/12

Job: Bay Counties Petroleum

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration		Reporting Limit	Date Extracted	Date Analyzed
Client ID : **DW-1 A**						
Lab ID : STR12051543-01A	TPH-E (DRO), Silica Gel	71		50 µg/L	05/15/12	05/24/12
Date Sampled 05/14/12 05:05	Methyl tert-butyl ether (MTBE)	ND	O	25 µg/L	05/18/12	05/18/12
	Benzene	ND	O	25 µg/L	05/18/12	05/18/12
	Toluene	ND	O	25 µg/L	05/18/12	05/18/12
	Ethylbenzene	ND	O	25 µg/L	05/18/12	05/18/12
	m,p-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
	o-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
	Naphthalene	ND	O	200 µg/L	05/18/12	05/18/12
Client ID : **DW-2**						
Lab ID : STR12051543-02A	TPH-E (DRO), Silica Gel	450		50 µg/L	05/15/12	05/24/12
Date Sampled 05/14/12 05:23	Methyl tert-butyl ether (MTBE)	ND	O	10 µg/L	05/18/12	05/18/12
	Benzene	ND	O	10 µg/L	05/18/12	05/18/12
	Toluene	ND	O	10 µg/L	05/18/12	05/18/12
	Ethylbenzene	ND	O	10 µg/L	05/18/12	05/18/12
	m,p-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
	o-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
	Naphthalene	ND	O	80 µg/L	05/18/12	05/18/12
Client ID : **DW-3**						
Lab ID : STR12051543-03A	TPH-E (DRO), Silica Gel	1,300		50 µg/L	05/15/12	05/24/12
Date Sampled 05/14/12 05:57	Methyl tert-butyl ether (MTBE)	ND	O	25 µg/L	05/18/12	05/18/12
	Benzene	ND	O	25 µg/L	05/18/12	05/18/12
	Toluene	ND	O	25 µg/L	05/18/12	05/18/12
	Ethylbenzene	ND	O	25 µg/L	05/18/12	05/18/12
	m,p-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
	o-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
	Naphthalene	ND	O	200 µg/L	05/18/12	05/18/12
Client ID : **DW-1 C**						
Lab ID : STR12051543-04A	TPH-E (DRO), Silica Gel	ND		50 µg/L	05/15/12	05/25/12
Date Sampled 05/14/12 06:27	Methyl tert-butyl ether (MTBE)	ND	O	25 µg/L	05/18/12	05/18/12
	Benzene	ND	O	25 µg/L	05/18/12	05/18/12
	Toluene	ND	O	25 µg/L	05/18/12	05/18/12
	Ethylbenzene	ND	O	25 µg/L	05/18/12	05/18/12
	m,p-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
	o-Xylene	ND	O	25 µg/L	05/18/12	05/18/12
	Naphthalene	ND	O	200 µg/L	05/18/12	05/18/12

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Client ID :	**DW-1 B**						
Lab ID :	STR12051543-05A	TPH-E (DRO), Silica Gel	190		50 µg/L	05/15/12	05/25/12
Date Sampled	05/14/12 05:40	Methyl tert-butyl ether (MTBE)	ND	O	50 µg/L	05/18/12	05/18/12
		Benzene	ND	O	50 µg/L	05/18/12	05/18/12
		Toluene	ND	O	50 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	50 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	50 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	50 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	400 µg/L	05/18/12	05/18/12
Client ID :	**DW-4**						
Lab ID :	STR12051543-06A	TPH-E (DRO), Silica Gel	140		50 µg/L	05/15/12	05/25/12
Date Sampled	05/14/12 06:18	Methyl tert-butyl ether (MTBE)	ND	O	10 µg/L	05/18/12	05/18/12
		Benzene	ND	O	10 µg/L	05/18/12	05/18/12
		Toluene	ND	O	10 µg/L	05/18/12	05/18/12
		Ethylbenzene	ND	O	10 µg/L	05/18/12	05/18/12
		m,p-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
		o-Xylene	ND	O	10 µg/L	05/18/12	05/18/12
		Naphthalene	ND	O	80 µg/L	05/18/12	05/18/12

Diesel Range Organics (DRO) C13-C22

Due to saturation levels of non-hydrocarbon material in the samples, the original extracts were washed through a second silica-gel column to remove the high levels of polar interferences.

O = Reporting Limits were increased due to sample foaming.

This replaces the report signed 5/22/12. TPH-E samples were re-analyzed, per client request.

ND = Not Detected

Reported in micrograms per Liter, per client request.

Roger Scholl Randy Gardner Walter Hinchman

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 281-4848 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha Analytical, Inc. certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Statement of Data Authenticity : Alpha Analytical, Inc. attests that the data reported has not been altered an any way.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

5/30/12
Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

VOC Sample Preservation Report

Work Order: STR12051543 **Job:** Bay Counties Petroleum

Alpha's Sample ID	Client's Sample ID	Matrix	pH
12051543-01A	DW-1 A	Aqueous	2
12051543-02A	DW-2	Aqueous	2
12051543-03A	DW-3	Aqueous	2
12051543-04A	DW-1 C	Aqueous	2
12051543-05A	DW-1 B	Aqueous	2
12051543-06A	DW-4	Aqueous	2

5/22/12

Report Date

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 21-May-12

QC Summary Report

Work Order: 12051543

Method Blank

File ID: 7A05101273.D | Type: MBLK | Test Code: EPA Method SW8015B / E / SG

Sample ID: MBLK-28738 | Units : µg/L | Batch ID: 28738SG | Run ID: FID_7_120515B | Analysis Date: 05/16/2012 10:26 | Prep Date: 05/15/2012 14:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	ND	50								
Surr: Nonane, Silica Gel	159		150		106	49	145			

Laboratory Control Spike

File ID: 7A05101274.D | Type: LCS | Test Code: EPA Method SW8015B / E / SG

Sample ID: LCS-28738 | Units : µg/L | Batch ID: 28738SG | Run ID: FID_7_120515B | Analysis Date: 05/16/2012 10:53 | Prep Date: 05/15/2012 14:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2420	50	2500		97	70	130			
Surr: Nonane, Silica Gel	164		150		109	49	145			

Sample Matrix Spike

File ID: 7A05101282.D | Type: MS | Test Code: EPA Method SW8015B / E / SG

Sample ID: 12051541-07AMS | Units : µg/L | Batch ID: 28738SG | Run ID: FID_7_120515B | Analysis Date: 05/16/2012 14:26 | Prep Date: 05/15/2012 14:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	3050	50	2500	0	122	53	150			
Surr: Nonane, Silica Gel	169		150		113	49	145			

Sample Matrix Spike Duplicate

File ID: 7A05101284.D | Type: MSD | Test Code: EPA Method SW8015B / E / SG

Sample ID: 12051541-07AMSD | Units : µg/L | Batch ID: 28738SG | Run ID: FID_7_120515B | Analysis Date: 05/16/2012 15:21 | Prep Date: 05/15/2012 14:35

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO), Silica Gel	2630	50	2500	0	105	53	150	3054	15.1(47)	
Surr: Nonane, Silica Gel	141		150		94	49	145			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Reported in micrograms per Liter, per client request.

Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 21-May-12

QC Summary Report

Work Order: 12051543

Method Blank

Type: MBLK Test Code: EPA Method SW8260B

File ID: 12051805.D Batch ID: MS09W0518A Analysis Date: 05/18/2012 12:12

Sample ID: MBLK MS09W0518A Units : µg/L Run ID: MSD_09_120518A Prep Date: 05/18/2012 12:12

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	0.5								
Benzene	ND	0.5								
Toluene	ND	0.5								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
o-Xylene	ND	0.5								
Naphthalene	ND	2								
Surr: 1,2-Dichloroethane-d4	11.6		10		116	70	130			
Surr: Toluene-d8	10.2		10		102	70	130			
Surr: 4-Bromofluorobenzene	9.39		10		94	70	130			

Laboratory Control Spike

Type: LCS Test Code: EPA Method SW8260B

File ID: 12051803.D Batch ID: MS09W0518A Analysis Date: 05/18/2012 11:26

Sample ID: LCS MS09W0518A Units : µg/L Run ID: MSD_09_120518A Prep Date: 05/18/2012 11:26

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	10.7	0.5	10		107	65	140			
Benzene	9.27	0.5	10		93	70	130			
Toluene	9.6	0.5	10		96	80	120			
Ethylbenzene	10.2	0.5	10		102	80	120			
m,p-Xylene	10.7	0.5	10		107	70	130			
o-Xylene	9.81	0.5	10		98	70	130			
Surr: 1,2-Dichloroethane-d4	11.4		10		114	70	130			
Surr: Toluene-d8	9.9		10		99	70	130			
Surr: 4-Bromofluorobenzene	8.75		10		88	70	130			

Sample Matrix Spike

Type: MS Test Code: EPA Method SW8260B

File ID: 12051819.D Batch ID: MS09W0518A Analysis Date: 05/18/2012 18:00

Sample ID: 12051642-02AMS Units : µg/L Run ID: MSD_09_120518A Prep Date: 05/18/2012 18:00

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	50.4	1.3	50	0	101	47	150			
Benzene	48	1.3	50	0	96	59	138			
Toluene	47.9	1.3	50	0	96	68	130			
Ethylbenzene	53.2	1.3	50	0	106	68	130			
m,p-Xylene	54.5	1.3	50	0	109	68	131			
o-Xylene	50.2	1.3	50	0	100	70	130			
Surr: 1,2-Dichloroethane-d4	61.6		50		123	70	130			
Surr: Toluene-d8	47.8		50		96	70	130			
Surr: 4-Bromofluorobenzene	42.2		50		84	70	130			

Sample Matrix Spike Duplicate

Type: MSD Test Code: EPA Method SW8260B

File ID: 12051820.D Batch ID: MS09W0518A Analysis Date: 05/18/2012 18:23

Sample ID: 12051642-02AMSD Units : µg/L Run ID: MSD_09_120518A Prep Date: 05/18/2012 18:23

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	53.6	1.3	50	0	107	47	150	50.39	6.1(40)	
Benzene	48.3	1.3	50	0	97	59	138	48.03	0.5(21)	
Toluene	48.8	1.3	50	0	98	68	130	47.89	1.9(20)	
Ethylbenzene	53.6	1.3	50	0	107	68	130	53.16	0.8(20)	
m,p-Xylene	55.2	1.3	50	0	110	68	131	54.5	1.3(20)	
o-Xylene	51	1.3	50	0	102	70	130	50.18	1.6(20)	
Surr: 1,2-Dichloroethane-d4	59.6		50		119	70	130			
Surr: Toluene-d8	48.5		50		97	70	130			
Surr: 4-Bromofluorobenzene	42.7		50		85	70	130			

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

CHAIN-OF-CUSTODY RECORD

AMENDED

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12051543

Report Due By : 5:00 PM On : 22-May-12

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kaseyjones@stratusinc.net

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 57693 Job : Bay Counties Petroleum

Cooler Temp	Samples Received	Date Printed
2 °C	15-May-12	**16-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/E_SG_W	VOC_W						Sample Remarks
STR12051543-01A	DW-1 A	AQ	05/14/12 05:05	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-02A	DW-2	AQ	05/14/12 05:23	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-03A	DW-3	AQ	05/14/12 05:57	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-04A	DW-1 C	AQ	05/14/12 06:27	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-05A	DW-1 B	AQ	05/14/12 05:40	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						
STR12051543-06A	DW-4	AQ	05/14/12 06:18	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C						

Comments: Security seals intact. Frozen ice. Sample -01A labeled DW-1A, logged in per COC. Amended 5/16/12 to change sample -01A ID per Renee. SN :

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Neri	Alpha Analytical, Inc.	5/16/12 1153

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : STR12051543

Report Due By : 5:00 PM On : 22-May-12

Client:
Stratus Environmental
3330 Cameron Park Drive
Suite 550
Cameron Park, CA 95682-8861

Report Attention	Phone Number	EMail Address
Kasey Jones	(530) 676-6000 x	kaseyjones@stratusinc.net

EDD Required : **Yes**

Sampled by : C. Hill

PO :

Client's COC # : 57693 Job : Bay Counties Petroleum

Cooler Temp	Samples Received	Date Printed
2 °C	15-May-12	**15-May-12**

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles Alpha	Sub	TAT	Requested Tests TPH/E_SG_W	VOC_W	Sample Remarks
STR12051543-01A	DW-1	AQ	05/14/12 05:05	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-02A	DW-2	AQ	05/14/12 05:23	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-03A	DW-3	AQ	05/14/12 05:57	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-04A	DW-1 C	AQ	05/14/12 06:27	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-05A	DW-1 B	AQ	05/14/12 05:40	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	
STR12051543-06A	DW-4	AQ	05/14/12 06:18	6	0	5	Silica Gel (C)	BTXE MTBE Napthalene_C	

Comments: Security seals intact. Frozen ice. Sample -01A labeled DW-1A, logged in per COC. :

	Signature	Print Name	Company	Date/Time
Logged in by:		Sarah Neu	Alpha Analytical, Inc.	5/15/12 1110

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

57693

Billing Information:
Company Name: Stratus
Attn: Kasey Jones
Address: 3330 Cameron Pk DR
City, State, Zip: Cameron Pk
Phone Number: 530 676 6004 Fax: 530 676 6005

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
Phone (775) 355-1044
Fax (775) 355-0406

Samples Collected From Which State?
AZ ____ CA X NV ____ WA ____ DOD Site ____
ID ____ OR ____ OTHER ____

Page # 1 of 1

Consultant / Client Name: BAY Counties Petroleum
Job #
Job Name
Address
City, State, Zip: Dublin
Report Attention / Project Manager
Name: Kasey
Email:
Phone: ____ Mobile: ____

Time Sampled	Date Sampled	Matrix* See Key Below	P.O. # / Lab ID Number (Office Use Only)	Sample Description	TAT	Field Filtered	# Containers**	DRO 8015M	Silica Gel Cleanup	BTEX + MTBE 8260B	Naphthalene 8260B				
0505	5/4	AQ	STR120515 43 -01A	DW-1	STD		6-V	X	X	X					
0523			02A	DW-2	STD		6-V	X	X	X					
0557			03A	DW-3	STD		6-V	X	X	X					
0627			04A	DW-1C	STD		6-V	X	X	X					
0540			05A	DW-1B	STD		6-V	X	X	X					
0618			06A	DW-4	STD		6-V	X	X	X					

Data Validation Level: III or IV
EDD / EDF? YES ____ NO ____
Global ID # ____
REMARKS

ADDITIONAL INSTRUCTIONS:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled By: C Hill

Relinquished by: (Signature/Affiliation) Stratus	Received by: (Signature/Affiliation)	Date: 5-14-12	Time: 935
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation) Alpha	Date: 5/15/12	Time: 11:00
Relinquished by: (Signature/Affiliation)	Received by: (Signature/Affiliation)	Date:	Time:

*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air **: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.