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January 24, 2005

Ms. Colleen Stone
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard Suite A
Santa Rosa, California 95403

RE: **Quarterly Summary and Monitoring Report – Fourth Quarter 2005**
SECOR Project No.: 77CP.60009.01.0220

Dear Ms. Stone:

On behalf of ConocoPhillips, SECOR International Incorporated (SECOR) is forwarding the quarterly summary report for the following location:

Service Station	**Location**
Former Bulk Plant No. 0220	720 North Franklin Street Fort Bragg, California

Sincerely,
SECOR International Incorporated

Thomas M. Potter
Project Scientist

Attachments: SECOR's *Quarterly Summary Report – Fourth Quarter 2005*

cc: Mr. Thomas Kosel, ConocoPhillips
Mr. David Smith, Mendocino Coast Petroleum, Inc. 720 N Franklin St. Fort Bragg, CA 95437
Mendocino County Health Department, 501 Low Gap Road, Room 1326, Ukiah, CA 95482

QUARTERLY SUMMARY REPORT
Fourth Quarter 2005

Former Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

City/County ID #: Fort Bragg

County: Mendocino

SITE DESCRIPTION

The site is located near the north end of the city of Fort Bragg at the corner of Franklin Street and Spruce Street. Pudding Creek is located approximately 1,200 feet north of the site, and the Pacific Ocean is located approximately 2,400 feet west of the site. The facility was built in 1924 and currently consists of a storehouse, an office, a drum storage and filling area, five above ground storage tanks (ASTs), a pump area, and loading racks. Former components of the facility included two 550-gallon underground spill contaminant tanks (SCTs) used to collect overflow spillage and overflow spillage with waste oil respectively, and a pump area. Product was historically supplied to the bulk plant by rail and for the past 30 years by truck. There are two separate unloading racks; one was to service rail cars (currently not in use) and the other to service trucks. Both the train and truck unloading racks serviced the bulk storage ASTs and loading rack via underground pipelines. The tank farm has a capacity of 85,000 gallons of storage with four 20,000-gallon ASTs and one 5,000-gallon AST.

PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES

In September 1988, Kaprealian Engineering Incorporated (KEI) conducted a preliminary site investigation that included the installation of six borings for soil and groundwater sampling (EB-1 through EB-6). The borings were advanced to a total depth ranging from 17 to 19 feet below ground surface (bgs). Total petroleum hydrocarbons with gasoline distinction (TPHg) and total petroleum hydrocarbons with diesel distinction (TPHd) were detected in soil and groundwater at concentrations ranging from 80 milligrams per kilogram (mg/kg) to 340 mg/kg, respectively.

On January 23, 1989, KEI oversaw the installation of four monitoring wells (MW-1 through MW-4) at the site. The wells were installed at depths ranging from 20 to 25.5 feet bgs. Groundwater was encountered at depths ranging from 10.5 to 14 feet bgs. All soil samples taken from the monitoring wells recorded non detectable concentrations of TPHg, TPHd, and benzene, toluene, ethyl-benzene and total xylenes (collectively BTEX) except the ten foot sample from MW-4 which recorded a concentration of 790 mg/kg of TPHg. Groundwater samples taken from the wells contained concentrations of benzene ranging from 4.1 to 87 micrograms per liter (µg/L), concentrations of TPHg ranging from 2800 to 8800 µg/L, and concentrations of TPHd ranging from 1900 to 160,000 µg/L.

On March 29, 1989, KEI oversaw the installation of five additional monitoring wells (MW-5 through MW-9) at the site. The wells were installed at depths ranging from 18 to 20 feet bgs. Groundwater was encountered at depths ranging from 9 to 15.5 feet bgs. Soil samples from the borings were analyzed for TPHg, TPHd, and BTEX. TPHg was found in the 10-foot sample from MW-5 at a concentration of 1.1 mg/kg. TPHd was detected in soil from MW-6 at a concentration of 400 mg/kg.

On July 26, 1989, KEI oversaw the installation of two additional monitoring wells (MW-10 and MW-11) at the site. The wells were installed at depths ranging from 19 to 20 feet bgs. Soil samples from the borings were analyzed for TPHg, TPHd, and BTEX. TPHg and TPHd were found in the 13-foot sample from MW-11 at concentrations of 31 mg/kg and 120 mg/kg, respectively. Groundwater samples taken from the MW-10 and MW-11 contained TPHd at concentrations of 180 µg/L and 540 µg/L, respectively.

On September 1, 1995, KEI oversaw the installation of one additional groundwater monitoring well (MW-12) at the site. The well was installed at a depth of 19 feet bgs. Soil samples from the borings were analyzed for TPHg, TPHd, and BTEX. All soils recorded non-detectable concentrations of all analytes. Groundwater samples taken from the well contained TPHg, TPHd, benzene, toluene, and ethylbenzene at concentrations of 430 µg/L, 220 µg/L, 7.2 µg/L, 51 µg/L, and 12 µg/L, respectively.

In December 1996, KEI oversaw the removal of two 550 gallon spill containment tanks. During the excavation, KEI conducted a limited excavation around the vicinity of the tanks.
In February 1997, Pacific Environmental Group (PEG) conducted a Phase I site assessment of the site. To follow up with this assessment, on September 25, 1997, PEG oversaw the advancement of five soil borings (SB-1 through SB-4 and HB-1). The borings were advanced to depths ranging from 17.7 to 35 feet bgs. Soil samples analyzed from HB-1, SB-1, and SB-4 contained relatively low concentrations of TPHg and TPHd. The highest concentration of TPHg (37 mg/kg) and TPHd (28 mg/kg) were seen in the five-foot sample taken from SB-1.

In February 1998, the quarterly monitoring activities at the site were taken over by Gettler-Ryan (GRI).

In September 1998, SHN Consulting Engineers & Geologists Inc. (SHN) prepared an interim corrective action plan (ICAP) for the site. In the ICAP, SHN recommended the installation of a supplemental oxygen source to enhance bioremediation processes at the site.

On April 12, 1999, SHN performed an additional subsurface investigation at the site. During the investigation, ten soil borings (SB-101 through SB-110) were advanced and abandoned, aquifer slug tests were performed on existing groundwater monitoring wells, and petroleum hydrocarbon fingerprinting was performed on the groundwater from the site. Based on the results of these three tests, SHN recommended the installation of a biosparge system.

During May and June of 2000, SHN supervised the installation of one bioventing test well, two biosparge wells, and three bioventing observations wells. A bioventing pilot test and a biosparge pilot test were conducted to determine the effectiveness of each method for site

remediation. Based on the results of the pilot tests, the anticipated radius of influence for a bioventing system is 30 feet per well.

On December 5, 2002, SHN recommended the installation of 7 additional bioventing wells and 20 additional ozone sparge points at the site.

On October 8 and 9, 2003, SHN oversaw the installation of biovent wells (BV-2 through BV-8).

On October 7 through 10, 2004, SHN oversaw the installation of 20 ozone sparge wells (SP-1 through SP-20). Soil samples were analyzed from all the borings. The highest concentrations of hydrocarbons were found in soils taken from SP-7 and SP-18. Soil borings and well construction details are presented in Table 1.

FOURTH QUARTER 2005 SUMMARY

Quarterly groundwater monitoring and sampling was conducted by TRC on November 3, 2005 in accordance with RWQCB-NCR MRP No. R1-2003-0107 (Attachment 1). The current groundwater monitoring network consists of six onsite wells (MW-1 through MW-4, MW-6 and MW-7) and six offsite wells (MW-5 and MW-8 through MW-12) located in Spruce Street and Franklin Street. Wells MW-2, MW-3, MW-5, MW-10 and MW-12 are sampled semi-annually (first and third quarters). Wells MW-6, MW-7, and MW-9 are sampled annually, and wells MW-1, MW-4, MW-8, and MW-11 are sampled quarterly. All wells will be monitored for depth to groundwater quarterly. The monitoring and sampling plan is summarized in Table 2.

During the fourth quarter 2005, depth to groundwater was gauged in each monitoring well. In accordance with the Monitoring Reporting Program (MRP), groundwater samples from each monitoring well are monitored quarterly for dissolved oxygen, dissolved carbon dioxide, oxidation-reduction potential, pH, temperature and conductivity. The samples were also analyzed for TPHg total purgeable petroleum hydrocarbons (TPPH), BTEX, and methyl tertiary butyl ether (MtBE). Additionally, the headspace in each monitoring well was monitored quarterly for percent oxygen, percent carbon dioxide, and percent organic vapor.

Historical groundwater elevation and analytical data through the fourth quarter 2005, TRC's monitoring and sampling procedures, certified laboratory analytical report, chain-of-custody documentation, field data sheets, and waste water disposal procedures are presented in TRC's *Quarterly Monitoring Report October through December 2005*, dated December 2, 2005, included in Attachment 2. A summary of the fourth quarter 2005 groundwater monitoring and sampling results is presented below.

FOURTH QUARTER 2005 MONITORING AND SAMPLING RESULTS

Groundwater Monitoring and Gradient Data

Depth to groundwater in the twelve site wells ranged from approximately 11.89 feet (MW-9) to 16.07 feet bgs (MW-5). Groundwater levels reported during the fourth quarter 2005 were consistent with historical levels, which have ranged between 5.08 feet and 24.87 feet bgs. Groundwater elevations in the site wells during the fourth quarter 2005 ranged from

approximately 61.50 feet (MW-10) above mean sea level (msl) to 66.80 feet above msl (MW-6). Regional groundwater flow during the fourth quarter 2005 was northwesterly at a hydraulic gradient of 0.025 feet per foot, which is consistent with the groundwater flow direction and hydraulic gradient data reported over previous quarters (Table 3). A regional groundwater elevation contour map was prepared by TRC using monitoring data collected on November 3, 2005 and is presented in Attachment 2.

Groundwater Quality Data

Groundwater samples were collected from wells MW-1, MW-4, MW-8, and MW-11 on November 3, 2005. Groundwater analytical results and TPHd and TPPH isoconcentration maps are included in TRC's *Quarterly Monitoring Report October through December 2005*, dated December 2, 2005 (Attachment 2).

The dissolved plume within the shallow zone continues to be centered around the former ASTs located on the north edge of the property. The heart of the plume is centered at MW-8 and MW-4. Concentrations of TPHg, TPHd, BTEX, and MtBE this quarter were generally consistent with historical levels.

The highest concentrations of petroleum hydrocarbons were detected in well MW-4 during the fourth quarter 2005. During the fourth quarter 2005, the groundwater sample collected from MW-4 had site maximum concentrations of TPPH (1,100 ug/L) and TPHd (74,000 ug/L). The concentrations of TPPH and TPHd were generally consistent with historical values. MtBE and BTEX were not detected in any wells sampled during this period. These results are consistent with recent stable trends. Sample parameters are presented in Table 4.

Remediation Compliance Sampling

During the fourth quarter 2005, SHN sampled MW-1, MW-4, and MW-8 on October 3, 2005, November 1, 2005, and December 5, 2005. MW-1 had concentrations of diesel at 350 µg/L (10/3/05) and 860 µg/L (11/11/05), and gasoline range organics (GRO) at a concentration of 99 µg/L (11/11/05). MW-4 had concentrations of diesel at 140,000 µg/L (10/3/05), 8,600 µg/L (11/1/05), and 140 µg/L (12/5/05), and GRO at a concentration of 1,400 µg/L (10/3/05) and 1,100 µg/L (11/1/05). MW-8 had concentrations of diesel at 9,000 µg/L (10/3/05), 850 µg/L (11/1/05), and 720 µg/L (12/5/05), and GRO at a concentration of 340 µg/L (10/3/05), 180 µg/L (11/1/05), and 110 µg/L (12/5/05). The field notes, certified laboratory analytical report and chain-of-custody documentation are included as Attachment 3.

Plume Status

In the most recent samples collected from each well, petroleum hydrocarbons in shallow groundwater were detected at MW-1, MW-3, MW-4, MW-8, MW-10, and MW-11. The extent of dissolved petroleum hydrocarbons in shallow groundwater is defined downgradient (northwest), except for TPHd at MW-10, and cross-gradient (southwest-northeast) of the site, except for low concentrations of TPPH and TPHd at MW-6. The extent of dissolved petroleum hydrocarbons in shallow groundwater has been defined upgradient of well MW-4 by no detected concentrations of petroleum hydrocarbons in MW-5.

MtBE has been detected in both on-site and off-site wells. Generally, detection is sporadic, at low concentrations, and limited to on-site wells MW-1 and MW-2 and offsite wells MW-8 through MW-12. Most recently, the highest recorded concentration of MtBE in these wells was 43 µg/L reported in November 2004 at MW-10. Since that time, MtBE concentrations in all wells has declined.

BTEX have also been detected in both on-site and off-site wells. Generally, detection is sporadic and concentrations are low. BTEX were not detected in the most recent sample collected from each well.

STATUS OF REMEDIAL ACTION

The system experienced electrical damage on August 9, 2005, and remained non operational during the fourth quarter 2005. SECOR is evaluating options to repair or replace this remediation system. Remedial system field data sheets for the Ozone System are included in Attachment C. Operational data for the Ozone System are summarized in Table 5. Ozone injection - groundwater monitoring data is summarized in Table 6. Concentration vs. Time Graphs for the Ozone Injection Monitoring Wells can be found in Attachment 4.

WASTE DISPOSAL

The volume of purged groundwater generated and disposed during the quarterly groundwater monitoring event is documented in TRC's Quarterly *Monitoring Report, October through December 2005* dated December 2, 2005 (Attachment 2).

RECENT SUBMITTALS/CORRESPONDENCE

Submitted the *Quarterly Summary Report – Third Quarter 2005.*

WORK COMPLETED IN FOURTH QUARTER 2005

1. TRC performed quarterly groundwater monitoring and sampling at the site.
2. SECOR prepared and submitted third quarter quarterly summary and monitoring report.
3. SHN performed operations and maintenance of the ozone and biovent systems.

PROPOSED ACTIVITIES FOR FIRST QUARTER 2006

1. TRC to conduct groundwater monitoring and sampling.
2. SECOR to prepare and submit quarterly summary report.
3. SHN to perform operations and maintenance on the ozone and biovent systems.
4. SECOR to evaluate options of repair or replacement of ozone system.

LIMITATIONS

This report presents our understanding of existing conditions at the subject site. The conclusions contained herein are based on the analytical results, and professional judgment in accordance with current standards of professional practice; no other warranty is expressed or implied. SECOR assumes no responsibility for exploratory borings or data reported by other consultants or contractors.

Sincerely,
SECOR International Incorporated

Adrian Pérez, P.E.
Associate Engineer

REGISTERED PROFESSIONAL ENGINEER
ADRIAN PEREZ
C68152
EXP. 06-30-06
CIVIL
STATE OF CALIFORNIA

Attachments:

	Table 1	Soil Boring and Well Construction Details
	Table 2	Monitoring and Sampling Plan
	Table 3	Historical Groundwater Flow Direction and Gradient Data
	Table 4	Sample Parameters
	Table 5	Ozone Injection – System Operation Data
	Table 6	Ozone Injection – Groundwater Monitoring Data
	Attachment 1	RWQCB-NCR MRP No. R1-2003-0107
	Attachment 2	TRC's *Quarterly Monitoring Report October through December 2005,* dated December 2, 2005
	Attachment 3	SHN field data sheets and Certified Laboratory Analytical Report and Chain-of-Custody Documentation
	Attachment 4	Concentration vs. Time Graphs – Ozone Injection Monitoring Wells

TABLES

Table 1
Soil Boring and Well Construction Details

Former Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Well I.D.	Date Installed	TOC/ PVC Elevation (feet, MSL)	Ground Surface Elevation (feet, MSL)	Well Depth (feet, bgs)	Well Depth (feet, MSL)	Well Diameter (inches)	Well Screen Top (feet, bgs)	Well Screen Top (feet, MSL)	Well Screen Bottom (feet, bgs)	Well Screen Bottom (feet, MSL)	Filter Pack Top (feet, bgs)	Filter Pack Top (feet, MSL)	Filter Pack Bottom (feet, bgs)	Filter Pack Bottom (feet, MSL)	Ben-tonite Top (feet, bgs)	Ben-tonite Top (feet, MSL)	Ben-tonite Bottom (feet, bgs)	Ben-tonite Bottom (feet, MSL)
MW-1	01/23/89	–	–	20.5	–	2	10.5	–	20.5	–	8	–	20.5	–	6	–	8	–
MW-2	01/24/89	–	–	25.5	–	2	10.5	–	25.5	–	8	–	25.5	–	6	–	8	–
MW-3	01/24/89	–	–	22.0	–	2	10.0	–	22	–	8	–	22	–	6	–	8	–
MW-4	01/24/89	–	–	20	–	2	10.0	–	20	–	8	–	20	–	6	–	8	–
MW-5	03/29/89	–	–	20	–	2	10.0	–	20	–	8	–	20	–	6	–	8	–
MW-6	03/29/89	–	–	18.0	–	2	8.0	–	18	–	8	–	18	–	6	–	8	–
MW-7	03/29/89	–	–	18.0	–	2	8.0	–	18	–	8	–	18	–	6	–	8	–
MW-8	03/29/89	–	–	18.0	–	2	8.0	–	18.0	–	6	–	18	–	4	–	6	–
MW-9	03/29/89	–	–	19.0	–	2	9.0	–	19.0	–	7	–	19	–	5	–	7	–
MW-10	7/26/89	–	–	19	–	2	4.0	–	19.0	–	3	–	19	–	1	–	3	–
MW-11	7/26/89	–	–	20	–	2	4.0	–	20.0	–	3	–	20	–	1	–	3	–
MW-12	9/1/95	–	–	20.0	–	2	4.0	–	19.0	–	3	–	19	–	2	–	3	–

Explanations:

feet, MSL = Elevation in feet relative to mean sea level.

TOC = Top of well casing.

bgs = Below ground surface.

PVC = Polyvinyl chloride.

– = Data unavailable

Table 2
Monitoring and Sampling Plan
ConocoPhillips Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Well ID	First Quarter MRP No. R1-2003-0107		Second & Fourth Quarters MRP No. R1-2003-0107		Third Quarter MRP No. R1-2003-0107		Work Completed During Third Quarter		Work Completed During Fourth Quarter	
	Monitor DTW	Sample	Monitor DTW	Sample	Monitor DTW	Sample	Monitor DTW	Sample	Monitor DTW	Sample
MW-1	1	1	1		1	1	1	1	1	1
MW-2	1	1	1		1	1	1	1	1	
MW-3	1	1	1		1	1	1	1	1	
MW-4	1	1	1	1	1	1	1	1	1	1
MW-5	1	1	1		1	1	1	1	1	
MW-6	1	1	1		1		1		1	
MW-7	1	1	1		1		1		1	
MW-8	1	1	1	1	1	1	1	1	1	1
MW-9	1	1	1		1		1		1	
MW-10	1	1	1		1	1	1	1	1	
MW-11	1	1	1	1	1	1	1	1	1	1
MW-12	1	1	1		1	1	1	1	1	
Totals	12	12	12	3	12	9	12	9	12	4

Table 3
Historical Groundwater Flow Direction and Gradient Data

ConocoPhillips Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date	Average Groundwater Flow Direction	Average Gradient (ft/ft)
2/19/1999	NW	0.02
5/19/1999	NW	0.02
8/5/1999	WNW	0.03
11/24/1999	NW	0.04
2/15/2000	NW	0.02
3/11/2000	NW	0.02
8/9/2000	WNW	0.01 to 0.06
11/27/2000	WNW	0.01 to 0.04
2/14/2001	NW	0.02 to 0.07
5/11/2001	NW	0.01 to 0.03
8/9/2001	NW	0.01 to 0.05
11/30/2001	NW	0.02 to 0.04
2/7/2002	NW	0.01 to 0.03
5/10/2002	NW	0.01 to 0.04
8/15/2002	NW	0.02 to 0.04
11/14/2002	NW	0.02 to 0.06
2/13/2003	WNW	0.01 to 0.03
5/16/2003	NW	0.01 to 0.02
8/12/2003	NNW	0.01 to 0.07
12/22/2003	NW	0.02
2/24/2004	NW	0.02
5/6/2004	NW	0.02
8/4/2004	NW	0.02
11/10/2004	NW	0.02
2/3/2005	NW	0.02
5/5/2005	NW	0.02
8/4/2005	NW	0.02
11/3/2005	**NW**	**0.025**

Notes:

ft/ft	Feet per foot
NW	Northwest
WNW	West Northwest
NNW	North Northwest

Historical groundwater flow directions above are interpreted by SECOR based on a review of historical figures created by Gettler-Ryan Inc. and TRC.

Table 4
Sample Parameters

Former Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen	Post Purge Dissolved Oxygen	Dissolved Carbon Dioxide	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temperature (°C)	pH	Head Space Carbon Dioxide	Head Space Oxygen	Head Space Organic Vapor
MW-1										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.18	0.21	--	--	--	--	--	--	--	--
08/05/99	3.70	2.35	--	--	--	--	--	--	--	--
02/15/00	3.85	3.76	--	34	--	--	--	--	--	--
08/09/00	4.09	4.48	5.5	180	--	--	--	--	--	--
05/06/04	4.63	--	--	155	--	--	--	--	--	--
08/04/04	4.63	--	--	14	--	--	--	--	--	--
02/03/05	2.20	--	15	30	338	21.3	5.89	0.60	21.60	0.00
05/05/05	2.08	--	8	121	270	14.9	5.89	0.10	20.90	0.00
08/04/05	1.82	--	18	190	156	14.9	5.83	0.10	20.90	0.00
11/03/05	**2.65**	**--**	**5**	**-035**	**189**	**14.8**	**6.07**	**0.00**	**20.90**	**0.00**
MW-2										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.28	0.32	--	--	--	--	--	--	--	--
08/05/99	6.37	6.86	2	66.1	--	--	--	--	--	--
02/15/00	7.87	8.05	--	213	--	--	--	--	--	--
08/09/00	6.58	6.52	ND	254	--	--	--	--	--	--
02/24/04	7.49	--	35	174	--	--	--	--	--	--
05/06/04	6.32	--	--	163	--	--	--	--	--	--
08/04/04	4.26	--	--	10	--	--	--	--	--	--
02/03/05	5.77	--	3	124	173.6	23.1	6.05	1.00	20.70	0.00
05/05/05	5.54	--	3	093	--	--	--	0.60	20.20	0.00
08/04/05	5.46	--	6	208	151	15.0	6.15	0.00	20.90	0.00
11/03/05	**4.19**	**--**	**8**	**011**	**190.5**	**15.1**	**5.89**	**0.00**	**20.90**	**0.00**
MW-3										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.28	0.38	--	--	--	--	--	--	--	--
08/05/99	5.30	5.11	--	--	--	--	--	--	--	--
02/15/00	6.50	6.40	--	213	--	--	--	--	--	--
08/09/00	4.88	5.05	ND	248	--	--	--	--	--	--
02/24/04	3.19	--	50	173	--	--	--	--	--	--
05/06/04	3.75	--	--	165	--	--	--	--	--	--
08/04/04	4.21	--	--	10	--	--	--	--	--	--
11/10/04	3.20	--	--	--	--	--	--	--	--	--
02/03/05	3.87	--	6	48	191.9	22.5	6.04	0.30	21.60	0.00
05/05/05	4.02	--	4	85	--	--	--	0.20	20.90	0.00
08/04/05	3.20	--	10	212	173	15.0	7.46	0.20	20.90	0.00
11/03/05	**3.38**	**--**	**6**	**025**	**196**	**15.7**	**6.00**	**0.00**	**20.90**	**0.00**
MW-4										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.18	0.17	1.7	68.5	--	--	--	--	--	--
08/05/99	1.22	1.30	4.2	48.2	--	--	--	--	--	--
11/24/99	3.81	4.55	16	474	--	--	--	--	--	--
02/15/00	6.21	5.76	--	56	--	--	--	--	--	--
05/11/00	4.90	4.01	5.2	94	--	--	--	--	--	--
08/09/00	3.22	3.09	8.9	34	--	--	--	--	--	--
11/27/00	2.75	2.70	ND	46	--	--	--	--	--	--
02/14/01	6.8	3.2	22	63	--	--	--	--	--	--
05/11/01	5.2	3.4	7.5	44	--	--	--	--	--	--
08/09/01	6.4	3.3	12	54	--	--	--	--	--	--

Table 4
Sample Parameters

Former Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen	Post Purge Dissolved Oxygen	Dissolved Carbon Dioxide	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temperature (°C)	pH	Head Space Carbon Dioxide	Head Space Oxygen	Head Space Organic Vapor
11/30/01	5.7	3.4	21	55	--	--	--	--	--	--
02/07/02	2.5	3.3	11	63	--	--	--	--	--	--
05/10/02	1.1	--	18	61	--	--	--	--	--	--
08/15/02	2.6	--	20	-15	--	--	--	--	--	--
11/14/02	1.6	--	27	106	--	--	--	--	--	--
02/13/03	1.4	--	11	18	--	--	--	--	--	--
05/16/03	1.4	--	13	55	--	--	--	--	--	--
08/12/03	1.3	--	39	30	--	--	--	--	--	--
05/06/04	4.51	--	--	10	--	--	--	--	--	--
08/04/04	4.64	--	--	9	--	--	--	--	--	--
11/10/04	1.48	--	--	--	--	--	--	--	--	--
02/03/05	1.21	--	11	16	295	20.1	6.02	0.10	21.60	0.00
05/05/05	0.84	--	15	147	218	14.5	6.07	0.00	20.90	0.00
08/04/05	1.53	--	27	189	162	14.4	6.08	0.10	20.90	0.00
11/03/05	**1.20**	**--**	**6**	**066**	**287**	**14.6**	**5.14**	**0.00**	**20.90**	**2.50**
MW-5										
08/22/95	--	--	--	--	--	--	--			
05/19/99	0.32	0.38	--	--	--	--	--			
08/05/99	6.94	4.31	--	--	--	--	--			
02/15/00	9.11	8.96	--	129	--	--	--			
08/09/00	6.45	4.90	5.70	94	--	--	--			
05/06/04	3.29	--	--	166	--	--	--			
08/04/05	2.77	--	21	37	167.8	15.0	5.75	0.10	20.90	0.00
11/03/05	**3.48**	**--**	**6**	**-014**	**173.5**	**13.8**	**5.95**	**0.00**	**20.90**	**0.00**
MW-6										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.32	0.32	--	--	--	--	--	--	--	--
08/05/99	5.11	5.10	--	--	--	--	--	--	--	--
02/15/00	6.23	5.90	--	203	--	--	--	--	--	--
08/09/00	7.06	6.84	ND	266	--	--	--	--	--	--
02/24/04	2.19	--	60.00	170	--	--	--	--	--	--
05/06/04	1.59	--	--	210	--	--	--	--	--	--
02/03/05	1.71	--	13	21	203.5	22.7	6.09	0.40	21.70	0.00
05/05/05	1.65	--	6	98	--	--	--	0.50	20.90	0.00
08/04/05	4.44	--	7	203	165	16.0	6.02	0.10	20.90	0.00
11/03/05	**4.09**	**--**	**7**	**015**	**199.1**	**15.8**	**6.05**	**0.00**	**20.90**	**0.00**
MW-7										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.38	0.51	1.6	50.1	--	--	--	--	--	--
02/15/00	7.95	8.56	--	228	--	--	--	--	--	--
02/14/01	6.4	7.3	12	294	--	--	--	--	--	--
02/07/02	6.5	6.8	ND<10	233	--	--	--	--	--	--
02/13/03	5.6	--	ND<10	85	--	--	--	--	--	--
02/24/04	5.57	--	35	223	--	--	--	--	--	--
05/06/04	5.34	--	--	209	--	--	--	--	--	--
02/03/05	6.57	--	3.00	98	183.7	21.7	5.93	0.30	21.60	0.00
05/05/05	4.60	--	5	088	--	--	--	0.00	20.90	0.00
08/04/05	3.17	--	8	161	161	15.0	5.89	0.10	20.90	0.00
11/03/05	**3.36**	**--**	**9**	**-013**	**240**	**15.5**	**6.05**	**0.00**	**20.90**	**0.00**
MW-8										
08/22/95	--	--	--	--	--	--	--	--	--	--

Table 4
Sample Parameters

Former Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen	Post Purge Dissolved Oxygen	Dissolved Carbon Dioxide	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temperature (°C)	pH	Head Space		
								Carbon Dioxide	Oxygen	Organic Vapor
05/19/99	0.04	0.10	2.1	13.1	--	--	--	--	--	--
08/05/99	0.57	2.00	3.6	48.8	--	--	--	--	--	--
11/24/99	4.87	5.21	17	523	--	--	--	--	--	--
02/15/00	4.94	3.52	--	6	--	--	--	--	--	--
05/11/00	5.56	2.92	6.2	77	--	--	--	--	--	--
08/09/00	2.45	2.44	7.5	52	--	--	--	--	--	--
11/27/00	1.95	2.16	5.3	64	--	--	--	--	--	--
02/14/01	4.1	3.2	20	62	--	--	--	--	--	--
05/11/01	4.1	3.4	9.5	61	--	--	--	--	--	--
08/09/01	5.5	4.8	10	55	--	--	--	--	--	--
11/30/01	5.4	5.0	16	49	--	--	--	--	--	--
02/07/02	2.5	3.0	13	57	--	--	--	--	--	--
05/10/02	1.3	--	12	81	--	--	--	--	--	--
08/15/02	2.6	--	12	2	--	--	--	--	--	--
11/14/02	1.6	--	20	170	--	--	--	--	--	--
02/13/03	1.5	--	11	-15	--	--	--	--	--	--
05/16/03	1.0	--	ND<10	60	--	--	--	--	--	--
08/12/03	1.4	--	35	50	--	--	--	--	--	--
02/24/04	1.24	--	95	1	--	--	--	--	--	--
05/06/04	5.02	--	--	-55	--	--	--	--	--	--
08/04/04	4.68	--	--	-83	--	--	--	--	--	--
11/10/04	2.08	--	--	--	--	--	--	--	--	--
02/03/05	2.28	--	76	96	665	14.6	5.49	0.30	21.60	2.30
05/05/05	0.79	--	34	-101	372	15.5	6.24	0.00	20.90	0.00
08/04/05	2.54	--	23	-30	354	15.8	6.47	0.00	20.90	50.10
11/03/05	**1.67**	--	**7**	**004**	**269**	**15.0**	**5.87**	**0.00**	**20.90**	**0.00**
MW-9										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.82	0.84	--	43.9	--	--	--	--	--	--
08/05/99	10.01	2.15	--	--	--	--	--	--	--	--
02/15/00	8.01	6.36	--	209	--	--	--	--	--	--
08/09/00	6.11	4.69	6.2	221	--	--	--	--	--	--
02/24/04	4.14	--	50	164	--	--	--	--	--	--
05/06/04	3.92	--	--	146	--	--	--	--	--	--
02/03/05	5.21	--	9	32	190.6	17.9	5.86	2.00	21.10	0.00
05/05/05	4.13	--	9	-50	--	--	--	1.10	18.60	0.00
08/04/05	6.42	--	25	127	191	16.7	6.29	0.02	20.90	0.20
11/03/05	**3.96**	--	**9**	**116**	**221**	**15.2**	**6.70**	**0.00**	**20.90**	**0.00**
MW-10										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.63	0.65	2.2	19.1	--	--	--	--	--	--
08/05/99	3.06	1.45	3.6	55.2	--	--	--	--	--	--
02/15/00	6.28	8.14	--	225	--	--	--	--	--	--
08/09/00	2.82	3.53	6.4	106	--	--	--	--	--	--
02/14/01	3.7	4.7	15	168	--	--	--	--	--	--
08/09/01	3.4	4.4	12	154	--	--	--	--	--	--
02/07/02	4.5	5.6	13	170	--	--	--	--	--	--
08/15/02	2.5	--	13	-15	--	--	--	--	--	--
02/13/03	4.6	--	ND<10	81	--	--	--	--	--	--
08/12/03	2.1	--	35	151	--	--	--	--	--	--
02/24/04	5.93	--	45	181	--	--	--	--	--	--
05/06/04	5.13	--	--	179	--	--	--	--	--	--
08/04/04	0.00531	--	--	-40	--	--	--	--	--	--

Table 4
Sample Parameters

Former Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California

Date Sampled	Pre-Purge Dissolved Oxygen	Post Purge Dissolved Oxygen	Dissolved Carbon Dioxide	Oxidation-Reduction Potential	Conductivity (µS/cm)	Temperature (°C)	pH	Head Space		
								Carbon Dioxide	Oxygen	Organic Vapor
11/10/04	2.32	--	--	--	--	--	--	--	--	--
02/03/05	4.1	--	16	75	297	16.2	5.84	0.60	21.90	0.00
05/05/05	5.23	--	6	45	--	--	--	0.10	20.90	0.00
08/04/05	1.53	--	20	41	283	17.8	5.90	0.20	20.90	0.00
11/03/05	**1.91**	--	**6**	**-025**	**275**	**16.3**	**6.06**	**0.00**	**20.90**	**0.00**
MW-11										
08/22/95	--	--	--	--	--	--	--	--	--	--
05/19/99	0.22	0.20	1.9	66.7	--	--	--	--	--	--
08/05/99	1.16	2.08	3.3	46.3	--	--	--	--	--	--
11/24/99	5.71	6.33	11	533	--	--	--	--	--	--
02/15/00	6.08	6.66	--	185	--	--	--	--	--	--
05/11/00	6.93	5.77	ND	173	--	--	--	--	--	--
08/09/00	2.64	3.56	6.4	58	--	--	--	--	--	--
11/27/00	3.14	3.51	6.7	89	--	--	--	--	--	--
02/14/01	5.9	6.9	9.3	264	--	--	--	--	--	--
05/11/01	5.5	6.7	9.0	258	--	--	--	--	--	--
08/09/01	3.9	5.3	11	268	--	--	--	--	--	--
11/30/01	5.1	6.4	13	189	--	--	--	--	--	--
02/07/02	3.9	4.8	13	266	--	--	--	--	--	--
05/10/02	1.7	--	14	30	--	--	--	--	--	--
08/15/02	2.8	--	13	-31	--	--	--	--	--	--
11/14/02	1.1	--	22	126	--	--	--	--	--	--
02/13/03	2.4	--	ND<10	61	--	--	--	--	--	--
05/16/03	3.8	--	ND<10	220	--	--	--	--	--	--
08/12/03	1.9	--	36	56	--	--	--	--	--	--
02/24/04	2.81	--	50	202	--	--	--	--	--	--
05/06/04	6.67	--	--	46	--	--	--	--	--	--
08/04/04	5.76	--	--	-31	--	--	--	--	--	--
11/10/04	1.64	--	--	--	--	--	--	--	--	--
02/03/05	7.13	--	5	38	308	18.1	5.86	0.10	22.10	0.00
05/05/05	5.60	--	6	-002	244	15.9	6.40	0.00	20.90	0.00
08/04/05	1.50	--	17	10	247	16.4	6.07	0.10	20.90	0.00
11/03/05	**160**	--	**8**	**-052**	**267**	**15.6**	**6.10**	**0.00**	**20.90**	**0.00**
MW-12										
05/19/99	0.35	0.28	--	11.3	--	--	--	--	--	--
08/05/99	6.80	5.41	1.0	24.8	--	--	--	--	--	--
02/15/00	8.20	8.57	--	239	--	--	--	--	--	--
08/09/00	7.19	6.58	ND	152	--	--	--	--	--	--
02/14/01	8.8	7.4	5.4	285	--	--	--	--	--	--
08/09/01	6.8	6.1	5.0	266	--	--	--	--	--	--
02/07/02	9	8.9	ND<10	244	--	--	--	--	--	--
08/15/02	1.9	--	15	52	--	--	--	--	--	--
08/12/03	1.20	--	26	283	--	--	--	--	--	--
02/24/04	6.13	--	30	187	--	--	--	--	--	--
05/06/04	5.27	--	--	210	--	--	--	--	--	--
08/04/04	5.28	--	--	-61	--	--	--	--	--	--
02/03/05	8.37	--	6.00	69	270	16.2	6.27	0.60	0.00	21.80
5/5/2005	6.93	--	5	018	--	--	--	0.20	20.90	0.00
08/04/05	5.64	--	12	102	226	17.0	6.21	0.40	20.90	28.50
11/03/05	**5.49**	--	**7**	**-063**	**200**	**16.1**	**6.42**	**0.00**	**20.90**	**0.00**

Table 5
Ozone Injection - System Operation Data
ConocoPhillips Site # 0220
720 North Franklin St, Ft Bragg, California

System 1																
Date	OZONE SPARGE SYSTEM						SP-1	SP-2	SP-3	SP-4	SP-5	SP-6	SP-7	SP-8	SP-9	SP-10
	Notes	System Status (On/Off)		Hourmeter	Period	Cumulative	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
		Arrival	Departure	Reading	Online	Online	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
1/20/2005	a	**Off**	Off	--			--	--	--	--	--	--	--	--	--	--
2/17/2005		**Off**	Off	1208			--	--	--	--	--	--	--	--	--	--
3/18/2005		**Off**	Off	1381	24.9%	173	--	--	--	--	--	--	--	--	--	--
4/12/2005	b	**Off**	**ON**	3778	399.5%	2570										
5/17/2005		**Off**	**Off**	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
6/6/2005		**Off**	**Off**	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
7/11/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
8/9/2005	c	Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
9/6/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
10/3/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
11/1/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
12/5/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
						Sparge time per cycle (min)	8	8	8	8	8	0	8	8	8	8

System 1																
Date	OZONE SPARGE SYSTEM						SP-11	SP-12	SP-13	SP-14	SP-15	SP-16	SP-17	SP-18	SP-19	SP-20
	Notes	System Status (On/Off)		Hourmeter	Period	Cumulative	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure	Pressure
		Arrival	Departure	Reading	Online	Online	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)	(psi)
1/20/2005	a	**Off**	Off	--			--	--	--	--	--	--	--	--	--	--
2/17/2005		**Off**	Off	1208			--	--	--	--	--	--	--	--	--	--
3/18/2005		**Off**	Off	1381	24.9%	173	--	--	--	--	--	--	--	--	--	--
4/12/2005	b	**Off**	ON	3778	399.5%	2570										
5/17/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
6/6/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
7/11/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
8/9/2005	c	Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
9/6/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
10/3/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
11/1/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
12/5/2005		Off	Off	3778	0.0%	2570	--	--	--	--	--	--	--	--	--	--
						Sparge time per cycle (min)	8	8	8	8	8	0	8	8	8	8

Table 5
Ozone Injection - System Operation Data
ConocoPhillips Site # 0220
720 North Franklin St, Ft Bragg, California

System 1	
Total Hours Operational:	**2570**
Total Pounds Ozone Injected:	**23**
Period Hours Operational:	**0**
Period Percent Operational:	**0**
Period Pounds Ozone Injected:	**0**

Definitions:

psi	Pounds per square inch
scfm	Standard cubic feet per minute
--	Data not available
NA	Not applicable

Notes:

a	SECOR began reporting, SHN continues O&M
b	Unknown hourmeter anomoly
c	Ozone generator failed upon startup. System shutdown

Table 6
Ozone Injection - Groundwater Monitoring Data
ConocoPhillips Site # 0220
720 North Franklin St, Ft Bragg, California

Date	Note	Monitoring Well: MW-1									Monitoring Well: MW-4									Monitoring Well: MW-8								
		ORP (mV)	DO (mg/l)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	DO (mg/l)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)	ORP (mV)	DO (mg/l)	TPHg (µg/L)	TPHd (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total) (µg/L)	MtBE (µg/L)
2/17/2005	a, b	--	0.67	120	1,300	<0.50	<0.50	<0.50	<1.0	<0.50	--	0.96	4,000	17,000	<2.0	<2.0	<2.0	<4.0	<2.0	--	0.64	2,100	31,000	<0.50	<0.50	<0.50	<1.0	<0.50
3/18/2005	b	112	1.8	220	1,600	<0.50	<0.50	<0.50	<1.0	<0.50	43	1.6	8,000	28,000	<2.0	<2.0	<2.0	<4.0	<2.0	26	0.60	9,100	11,000	<0.50	<0.50	<0.50	<1.0	<0.50
4/12/2005		95	4	77	460	<0.50	<0.50	<0.50	<1.0	<0.50	-13	9	980	5,100	<0.50	<0.50	<0.50	<1.0	<0.50	46	4	340	2,100	<0.50	<0.50	<0.50	<1.0	<0.50
5/17/2005	b	120	6	120	<50	<0.50	<0.50	<0.50	<1.0	<0.50	12	4	8,400	190,000	<50	<50	<50	<100	<50	-14	2	1,000	210	<0.50	<0.50	<0.50	<1.0	<0.50
6/6/2005	b, c	92	5	<50	110	<0.50	<0.50	<0.50	<1.0	<0.50	-44	3	2,600	9,400	<5.0	<5.0	<5.0	<10	<5.0	-12	2	410	1,300	<0.50	<0.50	<0.50	<1.0	<0.50
7/11/2005	b,c	35	--	68	360	<0.50	<0.50	<0.50	<1.0	<0.50	-26	--	200	450	<0.50	<0.50	<0.50	<1.0	<0.50	-45	--	160	630	<0.50	<0.50	<0.50	<1.0	<0.50
8/9/2005		56	7	52	1,200	<0.50	<0.50	<0.50	<1.0	<0.50	-55	5	15,000	94,000	<0.50	<0.50	<0.50	<1.0	<0.50	-36	2	130	810	<0.50	<0.50	<0.50	<1.0	<0.50
9/6/2005		64	3	<50	94	<0.50	<0.50	<0.50	<1.0	<0.50	-85	2	1,300	140,000	<2.0	<2.0	<2.0	<4.0	<2.0	46	2	160	650	<0.50	<0.50	<0.50	<1.0	<0.50
10/3/2005		141	2	<50	350	<0.50	<0.50	<0.50	<1.0	<0.50	-62	1.00	1,400	140,000	<2.0	<2.0	<2.0	<4.0	<2.0	95	2.00	340	9,000	<0.50	<0.50	<0.50	<1.0	<0.50
11/1/2005		16	2	99	860	<0.50	<0.50	<0.50	<1.0	<0.50	50	1.00	1,100	8,600	<0.50	<0.50	<0.50	<1.0	<0.50	2	2.00	180	860	<0.50	<0.50	<0.50	<1.0	<0.50
12/5/2005		--	--	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	110	140	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	110	720	<0.50	<0.50	<0.50	<1.0	<0.50

Definitions:

ORP	Oxidation Reduction Potential
DO	Dissolved Oxygen
TPHg	Total petroleum hydrocarbons as gasoline
MtBE	Methyl tert-butyl ether
µg/L	Micrograms per liter
mV	Millivolts
mg/L	Milligrams per liter
--	Not measured
ppm	Parts Per Million

Notes:

a = SECOR began reporting, SHN continues O&M
b = Reporting limits were raised due to high level of analyte present in sample
c = ph < 2

ATTACHMENT 1
RWQCB-NCR MRP NO. R1-2003-0107

Fourth Quarter 2005 Quarterly Summary and Monitoring Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California
SECOR Project No.: 77CP.60009.01.0220

MRP Requirements
MRP No. R1-2003-0107
Sample requirments
ConocoPhillips Bulk Plant No. 0220
Fort Bragg, California

Well ID	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-2	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-3	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-4	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd, BTEX, MtBE	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd, BTEX, MtBE
MW-5	TPHg, TPHd, BTEX, MtBE		TPHg, TPHd, BTEX, MtBE	
MW-6	TPHg, TPHd, BTEX, MtBE			
MW-7	TPHg, TPHd, BTEX, MtBE			
MW-8	TPHg, TPHd, BTEX, MtBE	TPHg, TPHd	TPHg, TPHd, BTEX, MtBE	TPHg, TPHd
MW-9	TPHg, TPHd, BTEX, MtBE			
MW-10	TPHg, TPHd, BTEX, MtBE, Additional		TPHg, TPHd, BTEX, MtBE, Additional	
MW-11	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd	TPHg, TPHd, BTEX, MtBE, Additional	TPHg, TPHd
MW-12	TPHg, TPHd, BTEX, MtBE, Additional		TPHg, TPHd, BTEX, MtBE, Additional	

Notes:
Additional = dissolved methane, dissolved iron, dissolved manganese, nitrate, sulfate

ATTACHMENT 2
TRC'S *QUARTERLY MONITORING REPORT OCTOBER THROUGH DECEMBER 2005*

Fourth Quarter 2005 Quarterly Summary and Monitoring Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California
SECOR Project No.: 77CP.60009.01.0220

SEE

TRC

QMR

ATTACHMENT 3
SHN FIELD DATA SHEETS AND CERTIFIED LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Fourth Quarter 2005 Quarterly Summary and Monitoring Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California
SECOR Project No.: 77CP.60009.01.0220

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive * Redding, CA 96002* Tel: 530.221.5424 * FAX: 530.221.0135 *E-mail: shnrnfo@shn-redding.com
812 W. Wabash * Eureka, CA 95501 * Tel: 707.441.8855 * FAX: 707.441.8877 *E-mail: shnrnfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 098185.205

Page 1 of 1

PROJECT NAME CONOCO PHILLIPS	CLIENT/OWNER TOSCO	DAILY FIELD REPORT SEQUENCE NO 10
GENERAL LOCATION OF WORK FT. BRAGG, CA	OWNER/CLIENT REPRESENTATIVE THOMAS M. POTTER	DATE 3 OCT 05 / DAY OF WEEK MONDAY
TYPE OF WORK O & M SAMPLING	WEATHER	PROJECT ENGINEER/ SUPERVISOR C. FISHER / R. RUEBER
SOURCE & DESCRIPTION OF FILL MATERIAL —	KEY PERSONS CONTACTED CHECK IN	TECHNICIAN T. BURLESON

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0710	ON SITE
0915	REMOVED LIDS AND UNLOCKED CAPS ON ALL 3 WELLS, (1, 4 & 8).
0930	BEGAN TAKING OTW READINGS ON ALL 3 WELLS, DECON SOUNDER AFTER EACH WELL, DECON SOUNDER, CAPTURING WATER IN WASH TUB AND TRANSFERRING TO 5 GAL. BUCKET STORED ON-SITE.
0947	BEGAN TAKING READINGS ON MW-4, NO PURGE, 1 BAILER.
1012	BEGAN TAKING READINGS ON MW-8, NO PURGE, 1 BAILER.
1035	BEGAN TAKING READINGS ON MW-1, NO PURGE, 1 BAILER.
1105	BEGAN TAKING READINGS ON BIOVENT SYSTEM.
1120	BEGAN SAMPLING MW-4 WITH ITS DISPOSABLE BAILER.
1145	SECURED MW-4 REPLACED / LOCKED CAP & LID.
1150	BEGAN SAMPLING MW-8 WITH ITS DISPOSABLE BAILER.
1210	SECURED MW-8, REPLACED / LOCKED CAP & LID.
1215	BEGAN SAMPLING MW-1 WITH ITS DISPOSABLE BAILER.
1235	SECURED MW-1, REPLACED / LOCKED CAP & LID.
1245	CLEANED / CHECKED SITE.
1250	2-55 GAL. DRUMS + 5 GALLON BUCKET OF PURGE WATER
1300	OFF SITE

COPY GIVEN TO R. RUEBER

REPORTED BY: T. BURLESON

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493 S. Main St. • Willits CA 95490-2138 • 707/459-4518 • FAX: 707/459-1884 • TMHASSOC@saber.net

Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	3 OCT / 1215
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	TPHd, TPHg, BTEX MtBE
Well #:	MW-1	Weather	PARTLY CLOUDY, COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
21.10	-	14.75	=	6.35	x	NO PURGE	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1035							Ø	
1042	2	42	141				.25	
	✓			224	56.6	6.29		
	NO							
	FLOW							
	THRU							
	CELL							
1215			SAMPLE	TIME			.25	

Purge Method: HAND BAILER

Total Volume Removed: .50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses

Well Condition: GOOD

Remarks: NO PURGE

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	3 OCT 1120
Project No.:	098185. 205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	TPHd, TPHg, BTEX, MtBE
Well #:	MW-4	Weather	PARTLY CLOUDY, COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
18.90	-	15.40	=	3.50	x	—	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0945							Ø	
0948	1 mg/L	56	-062				.25	
	✓			428	57.8	6.32		
	NO FLOW							
	THRU							
	CELL							
1120			SAMPLE	TIME			.25	

Purge Method: HAND BAILER

Total Volume Removed: .50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative/ Type	Laboratory	Analyses

Well Condition: GOOD

Remarks: NO PURGE

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	3 OCT /1150
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	TPHd, TPHg, BTEX, MtBE
Well #:	MW-8	Weather	PARTLY CLOUDY, COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.60	-	12.90	=	2.70	x	—	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1012							Ø	
1015	2	50	095				.25	
				283	57.2	6.16		
	NO							
	FLOW							
	THRU							
	CELL							
1150			SAMPLE	TIME			.25	

Purge Method: HAND BAILER

Total Volume Removed: .50 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses

Well Condition: GOOD

Remarks: NO PURGE

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812 W. Wabash • Eureka, CA 95501-2138 • 707/441-8855 • FAX: 707/441-8877 • shninfo@shn-engr.com

Equipment Calibration Sheet

Name: TOD E. BURLESON

Project Name: CONOCO PHILLIPS, FT. BRAGG, CA

Reference No.: 098185.205

Date: 10/3/05

Equipment: ☒ pH & EC ☐ PID ☐ $GTCO_2$ ☐ GTLEL
☐ Turbidity ☐ Other

Description of Calibration Procedure and Results:

PH METER CALIBRATED USING A 2 BUFFER METHOD WITH A PH 7.01 AND 4.01, METER SET AT 7.01 AND 4.01, EC METER WAS CALIBRATED WITH A 1413 BUFFER SOLUTION. (TDS 1413 SINGLE).

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	Monthly Sampling						OS System Status on Departure (On/Off)	Ozone Badge Color (White/Tan/Brown)	Departure Time
		MW-1		MW-4		MW-8				
		ORP (mV)	DO (mg/L)	ORP (mV)	DO (mg/L)	ORP (mV)	DO (mg/L)			
B	3OCT	141	2	-062	1	095	2	OFF	—	1302

System Maintenance	Frequency	Date Performed					
Check Integrity of All Hoses, Fittings, Piping, Valves	Monthly	✓					
Measure Blower Running Amperage	Monthly	—					
Inspect electrical fittings and tighten as needed	Monthly	✓					
Gross particle filter-visually inspect	Monthly	✓					
Gross particle filter-replace as necessary	As-Needed	—					
Check controller operation	Monthly	✓					
Adjust controller program	As-Needed	—					
Check flow and pressure on assemblies (system and wells)	Monthly	✓					
Take ozone readings at compound and well boxes	Monthly	—					
Check wellhead connections	Monthly	✓					
Check/test all safety override systems	Monthly	—					
Sparge blower-repair as necessary	As-Needed	—					
Sparge blower-replace as necessary	As-Needed	—					

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	AS System Status on Arrival On/Off	Hourmeter	BV-1 Valve Open (%)	BV-1 Prog. Time (min)	BV-2 Valve Open (%)	BV-2 Prog. Time (min)	BV-3 Valve Open (%)	BV-3 Prog. Time (min)	BV-4 Valve Open (%)	BV-4 Prog. Time (min)	BV-5 Valve Open (%)	BV-5 Prog. Time (min)	BV-6 Valve Open (%)	BV-6 Prog. Time (min)	BV-7 Valve Open (%)	BV-7 Prog. Time (min)	BV-8 Valve Open (%)	BV-8 Prog. Time (min)
B	3 ~~MAR~~ OCT.	OFF	4522	100	120														

Initials	Date	Well Data BV-1 Press	BV-1 Flow	BV-2 Press	BV-2 Flow	BV-3 Press	BV-3 Flow	BV-4 Press	BV-4 Flow	BV-5 Press	BV-5 Flow	BV-6 Press	BV-6 Flow	BV-7 Press	BV-7 Flow	BV-8 Press	BV-8 Flow	Status on Departure (On/Off)
B	3, ~~MAR~~ OCT	2		1		1		1.2		2.3		1.1		1.6		2		ON.
Measurement units:		in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	

Initials	Date	NOTES AND DESCRIPTION OF ACTIVITIES ON SITE
B	3 ~~MAR~~ OCT	OZONE SYSTEM IN REPAIR.
		2 DRUMS PLUS 5 GAL. BUCKET PURGE WATER ON SITE.
		TEMP. @ BLOWER = 90° F
		PRESSURE @ BLOWER = 3.9

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	Time	DS System Status on Arrival On/Off	Electrical Meter Reading	Ozone Meter Brand	Ozone Meter Range	Hourmeter	Ozone Readings: Outside Compound (ppm)	Ozone Readings: Inside Compound (ppm)	Ozone Readings: Inside Shed/Panel (ppm)	Ozone Readings: Secondary Containment (ppm)
TB	3 OCT	1102	OFF	18934							

Initials	Date	SP-1 Press	SP-1 O_3	SP-2 Press	SP-2 O_3	SP-3 Press	SP-3 O_3	SP-4 Press	SP-4 O_3	SP-5 Press	SP-5 O_3	SP-6 Press	SP-6 O_3	SP-7 Press	SP-7 O_3	SP-8 Press	SP-8 O_3	SP-9 Press	SP-9 O_3	SP-10 Press	SP-10 O_3
TB	3 OCT																				
Measurement units:		psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm

Initials	Date	SP-11 Press	SP-11 O_3	SP-12 Press	SP-12 O_3	SP-13 Press	SP-13 O_3	SP-14 Press	SP-14 O_3	SP-15 Press	SP-15 O_3	SP-16 Press	SP-16 O_3	SP-17 Press	SP-17 O_3	SP-18 Press	SP-18 O_3	SP-19 Press	SP-19 O_3	SP-20 Press	SP-20 O_3
TB	3 OCT																				
Measurement units:		psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Dee Hutchinson
3811 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number: 0927SEC001
ConocoPhillips Cost Object: WNO 0927

DATE 3 OCT 05
PAGE: 1 of 1

SAMPLING COMPANY: SECOR International Inc
Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 0927
GLOBAL ID NO.: T0604593174
ADDRESS: 3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City): 720 North Franklin St., Fort Bragg, CA
CONOCOPHILLIPS SITE MANAGER: Ed Ralston
PROJECT CONTACT (Hardcopy or PDF Report to): THOMAS M. POTTER
TELEPHONE: (916) 288 861-0400
FAX: (916) 861-0430
E-MAIL: tpotter@secor.com
EDF DELIVERABLE TO (RP or Designee): THOMAS M. POTTER
PHONE NO.: (916) 861-0400 ext 291
E-MAIL: csanders@secor.com
LAB USE ONLY
SAMPLER NAME(S) (Print): Tod Burlason
CONSULTANT PROJECT NUMBER: 77CP.6097.00.0007

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 ☐

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead ☐Total ☐STLC ☐TCLP	TEMPERATURE ON RECEIPT C°
	MW-1	10/3	1215	Water	8	X	X							
	MW-4	10/3	1120	Water	8	X	X							
	MW-9	10/3	1150	Water	8	X	X							

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Tod E Burl			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

8-12-05 Revision

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ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

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

ConocoPhillips Work Order Number: 0927SEC001
ConocoPhillips Cost Object: WNO.0927

DATE: NOV 05
PAGE: 1 of 1

SAMPLING COMPANY:	SECOR International Inc
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER	0220
GLOBAL ID NO.:	TO604593174
ADDRESS:	3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	720 North Franklin St., Fort Bragg, CA
CONOCOPHILLIPS SITE MANAGER:	Thomas Kosel
PROJECT CONTACT (Hardcopy or PDF Report to):	Thomas M. Potter
TELEPHONE:	(916) 861-0400
FAX:	(916) 861-0430
E-MAIL:	tpotter@secor.com
EDF DELIVERABLE TO (RP or Designee):	Thomas M. Potter
PHONE NO.:	(916) 861-0400
E-MAIL:	tpotter@secor.com
LAB USE ONLY	
SAMPLER NAME(S) (Print):	Tod Burleson
CONSULTANT PROJECT NUMBER	77CP.6047.00.0007

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 ☑

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TEMPERATURE ON RECEIPT C°
	MW-1	1 NOV	1215	Water	8	X		X						
	MW-4	1 NOV	1125	Water	8	X		X						
	MW-8	1 NOV	1155	Water	8	X		X						

Relinquished by: (Signature) Tod E. Burl	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
450 Hemsted Drive * Redding, CA 96002 * Tel: 530.221.5424 * FAX: 530.221.0135 *E-mail: shnin@shn-redding.com
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DAILY FIELD REPORT

JOB NO 098185.205

Page 1 of 1

PROJECT NAME CONOCO PHILLIPS	CLIENT/OWNER TOSCO	DAILY FIELD REPORT SEQUENCE NO 11	
GENERAL LOCATION OF WORK FT. BRAGG, CA	OWNER/CLIENT REPRESENTATIVE THOMAS M. POTTER	DATE 1 NOV 05	DAY OF WEEK TUESDAY
TYPE OF WORK O&M SAMPLING	WEATHER	PROJECT ENGINEER/ SUPERVISOR R. RUEBER / C. FISHER	
SOURCE & DESCRIPTION OF FILL MATERIAL —	KEY PERSONS CONTACTED CHECK IN @ OFFICE	TECHNICIAN T. BURLESON	

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING & COMPACTING

0915	ON SITE
0930	REMOVED LIDS AND UNLOCKED CAPS ON ALL 3 WELLS. (1, 4, & 8.)
0940	BEGAN TAKING DTW READINGS ON ALL 3 WELLS, DECON SOUNDER AFTER EACH WELL CAPTURING WATER IN WASH TUB AND TRANSFERRING TO 5 GAL. BUCKET STORED ON SITE.
1000	BEGAN TAKING READINGS ON MW-4, NO PURGE, 1 BAILER.
1025	BEGAN TAKING READINGS ON MW-8, NO PURGE, 1 BAILER.
1040	BEGAN TAKING READINGS ON MW-1, NO PURGE, 1 BAILER.
1102	BEGAN TAKING READINGS ON BIOVENT SYSTEM.
1125	BEGAN SAMPLING MW-4 WITH ITS DISPOSABLE BAILER.
1150	SECURED MW-4 REPLACED /LOCKED CAP AND LID.
1155	BEGAN SAMPLING MW-8 WITH ITS DISPOSABLE BAILER
1210	SECURED MW-8 REPLACED /LOCKED CAP AND LID.
1215	BEGAN SAMPLING MW-1 WITH ITS DISPOSABLE BAILER.
1235	SECURED MW-1 REPLACED /LOCKED CAP AND LID.
1248	CHECKED SITE
1252	2 55 GALLON DRUMS + 1 5 GALLON BUCKET PURGE WATER
~~1305~~	STORED ON SITE
1305	OFF SITE

NOTE: I WAS ABLE TO PICK UP VOA'S FROM ALPHA LAB IN UKIAH. NEEDED TO FINISH O&M A DAY EARLY DUE TO SCHEDULING.

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	1 NOV 2005
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	TPHd, TPHg, BTEX, 8 OXY.
Well #:	MW-1	Weather	PARTLY CLOUDY, COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
21.10	-	14.76	=	6.34	x	NO PURGE	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1040							Ø	
1042	2	30	016				.25	
				226	64.7	6.37		
	NO							
	FLOW							
	THRU							
	CELL							
1215			SAMPLE	TIME				

Purge Method: HAND BAILER

Total Volume Removed: .25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative/ Type	Laboratory	Analyses
MW-1	4 VOA'S	NONE	STL S.F.	TPHd
MW-1	4 VOA'S	YES, HCl	STL S.F.	TPHg, BTEX, 8 OXY.

Well Condition: GOOD

Remarks: NO PURGE

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	1 NOV 2005
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	TPHd, TPHg, BTEX, 8 OXY.
Well #:	MW-4	Weather	PARTLY CLOUDY, COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
18.90	-	15.11	=	3.79	x	—	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1000							Ø	
1005	1 mg/L	60	050				.25	
				356	66.7	5.63		
	NO FLOW							
	THRU							
	CELL							
1125			SAMPLE	TIME				

Purge Method: HAND BAILER

Total Volume Removed: .25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-4	4 VOA'S	NONE	STL S.F.	TPHd
MW-4	4 VOA'S	YES, HCl	STL S.F.	TPHg, BTEX, 8 OXY.

Well Condition: GOOD

Remarks: NO PURGE

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	1 NOV 2005
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	TPHd, TPHg, BTEX, 8 OXY.
Well #:	MW-8	Weather	PARTLY CLOUDY, COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.60	-	12.76	=	2.84	x	— NO PURGE	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1020							Ø	
1023	2	40	002				.25	
				291	66.3	6.11		
	NO							
	FLOW							
	THRU							
	CELL							
1155			SAMPLE	TIME				

Purge Method: HAND BAILER

Total Volume Removed: .25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-8	4 VOA'S	NONE	STL S.F.	TPHd
MW-8	4 VOA'S	YES, HCl	STL S.F.	TPHg, BTEX, 8 OXY.

Well Condition: GOOD

Remarks: NO PURGE

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Equipment Calibration Sheet

Name: TOD E. BURLESON

Project Name: CONOCO PHILLIPS

Reference No.: 098185.205

Date: NOV 2005

Equipment: ☒ pH & EC ☐ PID ☐ $GTCO_2$ ☐ GTLEL
☐ Turbidity ☐ Other

Description of Calibration Procedure and Results:

PH METER CALIBRATED USING A 2 BUFFER METHOD WITH A PH 7.01 AND 4.01, METER SET AT EXACTLY 7.01 AND 4.01, EC METER WAS CALIBRATED WITH A 1413 BUFFER SOLUTION (TDS 1413 SINGLE).

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	Monthly Sampling						OS System Status on Departure (On/Off)	Ozone Badge Color (White/Tan/Brown)	Departure Time
		MW-1		MW-4		MW-8				
		ORP (mV)	DO (mg/L)	ORP (mV)	DO (mg/L)	ORP (mV)	DO (mg/L)			
B	1 NOV 05	016	2	050	1	002	2	OFF		

System Maintenance	Frequency	Date Performed					
Check Integrity of All Hoses, Fittings, Piping, Valves	Monthly	1 NOV 05					
Measure Blower Running Amperage	Monthly	—					
Inspect electrical fittings and tighten as needed	Monthly	✓					
Gross particle filter-visually inspect	Monthly	✓					
Gross particle filter-replace as necessary	As-Needed	—					
Check controller operation	Monthly	✓					
Adjust controller program	As-Needed	—					
Check flow and pressure on assemblies (system and wells)	Monthly	✓					
Take ozone readings at compound and well boxes	Monthly	—					
Check wellhead connections	Monthly	✓					
Check/test all safety override systems	Monthly	—					
Sparge blower-repair as necessary	As-Needed	—					
Sparge blower-replace as necessary	As-Needed	—					

NOV 01 05 04:33p -- 707 459 1884 p.9

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	AS System Status on Arrival On/Off	Hourmeter	BV-1 Valve Open (%)	BV-1 Prog. Time (min)	BV-2 Valve Open (%)	BV-2 Prog. Time (min)	BV-3 Valve Open (%)	BV-3 Prog. Time (min)	BV-4 Valve Open (%)	BV-4 Prog. Time (min)	BV-5 Valve Open (%)	BV-5 Prog. Time (min)	BV-6 Valve Open (%)	BV-6 Prog. Time (min)	BV-7 Valve Open (%)	BV-7 Prog. Time (min)	BV-8 Valve Open (%)	BV-8 Prog. Time (min)
B	1 NOV 05	OFF	49813	100	240	→													

Initials	Date	Well Data BV-1 Press	BV-1 Flow	BV-2 Press	BV-2 Flow	BV-3 Press	BV-3 Flow	BV-4 Press	BV-4 Flow	BV-5 Press	BV-5 Flow	BV-6 Press	BV-6 Flow	BV-7 Press	BV-7 Flow	BV-8 Press	BV-8 Flow	Status on Departure (On/Off)
B	11/1/05	.2		1		1.1		1.1		2.2		1.1		1.8		1.7		ON
Measurement units:		in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	

Initials	Date	NOTES AND DESCRIPTION OF ACTIVITIES ON SITE
B	11/1	OZONE SYSTEM IN REPAIR.
		2 DRUMS PLUS 5 GALLON BUCKET PURGE WATER ON SITE.
		TEMP. @ BLOWER = 80°
		PRESSURE @ BLOWER = 3.9
		AIR FILTER CLEAN.
		SOLBERG - ASSEMBLY MODEL # FS-31P-200
		- REPLACEMENT ELEMENT # 31P

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	Time	OS System Status on Arrival On/Off	Electrical Meter Reading	Ozone Meter Brand	Ozone Meter Range	Hourmeter	Ozone Readings: Outside Compound (ppm)	Ozone Readings: Inside Compound (ppm)	Ozone Readings: Inside Shed/Panel (ppm)	Ozone Readings: Secondary Containment (ppm)
[illegible]	1 Nov 05	1106	OFF	20634							

Initials	Date	Well Data																			
		SP-1		SP-2		SP-3		SP-4		SP-5		SP-6		SP-7		SP-8		SP-9		SP-10	
		Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3
[illegible]	1 Nov 05																				
Measurement units:		psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm

Initials	Date	Well Data																			
		SP-11		SP-12		SP-13		SP-14		SP-15		SP-16		SP-17		SP-18		SP-19		SP-20	
		Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3	Press	O_3
[illegible]	1 Nov 05																				
Measurement units:		psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm	psi	ppm

Nov 01 05 04:39p -- 707 459 1884 p.11

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480 Heusted Drive • Redding, CA 96002 • Tel: 530.221.5424 • FAX: 530 221.0135 • E-mail: shninfo@shn-redding.com
812 W Wabash • Eureka, CA 95501 • Tel 707 441 8855 • FAX: 707 441 8877 • E-mail shninfo@shn-cmgr.com

DAILY FIELD REPORT

JOB NO 098185.205

Page 1 of 1

PROJECT NAME: CONOCO PHILLIPS	CLIENT/OWNER: TOSCO	DAILY FIELD REPORT SEQUENCE NO: 12
GENERAL LOCATION OF WORK: FT. BRAGG, CA	OWNER/CLIENT REPRESENTATIVE: THOMAS M. POTTER	DATE: 5 DEC 05 / DAY OF WEEK: MONDAY
TYPE OF WORK: O&M SAMPLING	WEATHER: CLEAR / COOL	PROJECT ENGINEER/ SUPERVISOR: C. FISHER / R. RUEBER
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED: CHECK IN @ OFFICE	TECHNICIAN: T. BURLESON

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING & COMPACTING

0920 ON SITE
0935 REMOVED LIDS AND CAPS ON ALL 3 WELLS (1, 4, & 8).
HAD TO MOVE LARGE DIESEL TANK OVER MW-4
MANAGER/OWNER WANTS SS DRUM REMOVED
1005 I STARTED TAKING DTW READINGS, SCRUBBING WITH LIQUINOX AND CAPTURING PURGE WATER (DI) IN BUCKET AND STORING IN 5 GALLON BUCKET.
1050 I STARTED TAKING D.O. READINGS.
1045 I STARTED TAKING CO_2 AND ORP READINGS, MW-4
1052 I SAMPLED MW-4 WITH ITS DISPOSABLE 2" BAILER.
1108 I STARTED TAKING CO_2 AND ORP READINGS ON MW-8.
1115 I SAMPLED MW-8 WITH ITS DISPOSABLE 2" BAILER.
1135 I STARTED TAKING CO_2 AND ORP READINGS ON MW-1.
1140 I SAMPLED MW-8 WITH ITS DISPOSABLE 2" BAILER
1215 I SECURED MW 1, 4, 8 LOCKED CAPS AND LIDS.
1220 I BEGAN TAKING BIOVENT READINGS.
1255 OFF SITE

- NEED TO REMOVE PURGE WATER FROM SITE AS PER PLANT MANAGER'S REQUEST.

- MW-1 HAD A VERY HIGH D.O. READING AND A LOW DISS. CO_2 READING AS WELL.

PREPARED BY: R. RUEBER

PRESENTED BY: T. BURLESON

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	5 DEC 05
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	GROUND WATER
Well #:	MW-1	Weather	CLEAR / COOL
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
21.19	-	12.60	=	8.59	x	0.163	=	1.39

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1037	9.34						Ø	
1135		5	162				.25	
	NO FLOW							
	THRU CELL							
1140		SAMPLE	TIME					

Purge Method: HAND BAILER

Total Volume Removed: .25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-1	4 - VOA'S	NONE	STL S.F.	TOHD
MW-1	4 - VOA'S	YES HCL	STL S.F.	TPHg, BTEX, 8 OXY

Well Condition: GOOD

Remarks: NO PURGE

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	5 DEC 05
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	GROUND WATER
Well #:	MW-8	Weather	CLEAR, COOL
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.60	-	11.08	=	4.52	x	0.163	=	.74

Time	DO (~~ppm~~) mg/L	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1030	1.22 mg/L						Ø	
1115		45	067				.25	
	NO FLOW							
	THRU CELL							
1115			SAMPLE	TIME				

Purge Method: HAND BAIL

Total Volume Removed: .25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-8	4 - VOA'S	NONE	STL S.F.	TPHD
MW-8	4 - VOA'S	YES, HCl	STL S.F.	TPHG, BTEX, 8 OXY

Well Condition: GOOD

Remarks: NO PURGE.

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Water Sampling Data Sheet

Project Name:	CONOCO PHILLIPS	Date/Time:	5 DEC 05
Project No.:	098185.205	Sampler Name:	TOD E. BURLESON
Location:	FT. BRAGG, CA	Sample Type:	GROUND WATER
Well #:	MW-4	Weather	CLEAR / COOL
Hydrocarbon Thickness/Depth (feet):		Key Needed:	YES DOLPHIN

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
18.99	-	13.20	=	5.79	x	0.163	=	.93

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1020	1.34						Ø	
1045		35	098				.25	
	NO FLOW							
	THRU CELL							
1052		SAMPLE	TIME					

Purge Method: HAND BAIL

Total Volume Removed: .25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-4	4 VOA	NONE	STL S.F.	TPHD
MW-4	4 VOA	YES, HCl	STL S.F.	TPHG, BTEX, 8 OXY

Well Condition: GOOD

Remarks: NO PURGE

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffen
Lab: STL

Initials	Date	Monthly Sampling						OS System Status on Departure (On/Off)	Ozone Badge Color (White/Tan/Brown)	Departure Time
		MW-1		MW-4		MW-8				
		ORP (mV)	DO (mg/L)	ORP (mV)	DO (mg/L)	ORP (mV)	DO (mg/L)			
[illegible]	5 DEC05									

System Maintenance	Frequency	Date Performed					
Check integrity of All Hoses, Fittings, Piping, Valves	Monthly	5 DEC05					
Measure Blower Running Amperage	Monthly	—					
Inspect electrical fittings and tighten as needed	Monthly	✓					
Gross particle filter-visually inspect	Monthly	✓					
Gross particle filter-replace as necessary	As-Needed	—					
Check controller operation	Monthly	✓					
Adjust controller program	As-Needed	—					
Check flow and pressure on assemblies (system and wells)	Monthly	✓					
Take ozone readings at compound and well boxes	Monthly	—					
Check wellhead connections	Monthly	✓					
Check/test all safety override systems	Monthly	✓					
Sparge blower-repair as necessary	As-Needed	—					
Sparge blower-replace as necessary	As-Needed	—					

TEMP. @ BLOWER = 71°F
PRESSURE @ BLOWER = 3.98

Dec 05 05 03:22p -- 707 459 1884 p.9

Field Data Sheet
Air/Ozone Sparge System

ConocoPhillips Site # 0927
720 North Franklin St
Fort Bragg, California

Requested By: Amy Draffan
Lab: STL

Initials	Date	AS System Status on Arrival On/Off	Hourmeter	BV-1 Valve Open (%)	BV-1 Prog. Time (min)	BV-2 Valve Open (%)	BV-2 Prog. Time (min)	BV-3 Valve Open (%)	BV-3 Prog. Time (min)	BV-4 Valve Open (%)	BV-4 Prog. Time (min)	BV-5 Valve Open (%)	BV-5 Prog. Time (min)	BV-6 Valve Open (%)	BV-6 Prog. Time (min)	BV-7 Valve Open (%)	BV-7 Prog. Time (min)	BV-8 Valve Open (%)	BV-8 Prog. Time (min)
B	5 DEC 05	OFF	5527.4	10%	240	→													

Initials	Date	Well Data BV-1 Press	BV-1 Flow	BV-2 Press	BV-2 Flow	BV-3 Press	BV-3 Flow	BV-4 Press	BV-4 Flow	BV-5 Press	BV-5 Flow	BV-6 Press	BV-6 Flow	BV-7 Press	BV-7 Flow	BV-8 Press	BV-8 Flow	Status on Departure (On/Off)
B	5 DEC 05	2		1		1		1.5		2.3		1		2		2		
Measurement units:		in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	in h20	cfm	

Initials	Date	NOTES AND DESCRIPTION OF ACTIVITIES ON SITE
B	5 DEC 05	- P.G. & E = 20465
		- NEED TO REMOVE PURGE WATER AS PER PLANT MANAGER'S REQUEST.
		- OZONE SYSTEM IN REPAIR.
		- TEMP @ BLOWER = 71°F
		- PRESSURE @ BLOWER = 3.9

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Equipment Calibration Sheet

Name: TOD E. BURLESON

Project Name: CONOCO PHILLIPS

Reference No.: 098185.205

Date: 5 DEC 05

Equipment: ☒ pH & EC ☐ PID ☐ GTCO₂ ☐ GTLEL
☐ Turbidity ☒ Other D.O. METER YSI 95

Description of Calibration Procedure and Results:

PH METER CALIBRATED USING A 2 BUFFER METHOD WITH A PH 7.01 AND 4.01, METER SET AT EXACTLY 7.01 AND 4.01. EC METER WAS CALIBRATED WITH A 1413 BUFFER SOLUTION (TDS 1413 SINGLE).

D.O. METER SELF CALIBRATING WITH ALTIMETER SET AT 1.

ConocoPhillips Chain Of Custody Record

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

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

ConocoPhillips Work Order Number: 0927SEC001
ConocoPhillips Cost Object: WNO.0927

DATE: 5 DEC 05
PAGE: 1 of 1

SAMPLING COMPANY:	SECOR International Inc
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER	0220
GLOBAL ID NO.	TO604593174
ADDRESS:	3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	720 North Franklin St., Fort Bragg, CA
CONOCOPHILLIPS SITE MANAGER	Thomas Kosel
PROJECT CONTACT (Hardcopy or PDF Report to):	Thomas M. Potter
TELEPHONE:	(916) 861-0400
FAX:	(916) 861-0430
E-MAIL:	tpotter@secor.com
EDF DELIVERABLE TO (RP or designee):	Thomas M. Potter
PHONE NO.:	(916) 861-0400
E-MAIL:	tpotter@secor.com
LAB USE ONLY	
SAMPLER NAME(S) (Print):	Tod Burleson
CONSULTANT PROJECT NUMBER	77CP.6047.00.0007

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 ☑

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TEMPERATURE ON RECEIPT C°
	MW-1	12/5	1140	Water	8	X		X						
	MW-4	12/5	1052	Water	8	X		X						
	MW-8	12/5	1115	Water	8	X		X						

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Tod E. Burleson			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

SEVERN TRENT STL

Submission#: 2005-10-0087

SECOR-Sacramento

October 25, 2005

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Attn.: Tom Potter

Project#: 77CP.6097.00.0007
Project: Conoco Philips Site # 0927
Site: 720 North Franklin St. Fort Bragg, CA

Attached is our report for your samples received on 10/05/2005 09:15
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/19/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,

Afsaneh Salimpour

Afsaneh Salimpour
Project Manager

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/03/2005 12:15	Water	1
MW-4	10/03/2005 11:20	Water	2
MW-8	10/03/2005 11:50	Water	3

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Prep(s): 5030B
Sample ID: **MW-1**
Sampled: 10/03/2005 12:15
Matrix: Water
pH: <2

Test(s): 8260B
Lab ID: 2005-10-0087 - 1
Extracted: 10/7/2005 12:21
QC Batch#: 2005/10/07-1A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	10/07/2005 12:21	
Benzene	ND	0.50	ug/L	1.00	10/07/2005 12:21	
Toluene	ND	0.50	ug/L	1.00	10/07/2005 12:21	
Ethylbenzene	ND	0.50	ug/L	1.00	10/07/2005 12:21	
Total xylenes	ND	1.0	ug/L	1.00	10/07/2005 12:21	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/07/2005 12:21	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	73-130	%	1.00	10/07/2005 12:21	
Toluene-d8	89.7	81-114	%	1.00	10/07/2005 12:21	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-4**	Lab ID:	2005-10-0087 - 2
Sampled:	10/03/2005 11:20	Extracted:	10/7/2005 13:12
Matrix:	Water	QC Batch#:	2005/10/07-1A.65
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	1400	200	ug/L	4.00	10/07/2005 13:12	Q1
Benzene	ND	2.0	ug/L	4.00	10/07/2005 13:12	
Toluene	ND	2.0	ug/L	4.00	10/07/2005 13:12	
Ethylbenzene	ND	2.0	ug/L	4.00	10/07/2005 13:12	
Total xylenes	ND	4.0	ug/L	4.00	10/07/2005 13:12	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	4.00	10/07/2005 13:12	
Surrogate(s)						
1,2-Dichloroethane-d4	90.6	73-130	%	4.00	10/07/2005 13:12	
Toluene-d8	91.8	81-114	%	4.00	10/07/2005 13:12	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-8**	Lab ID:	2005-10-0087 - 3
Sampled:	10/03/2005 11:50	Extracted:	10/7/2005 12:46
Matrix:	Water	QC Batch#:	2005/10/07-1A.65
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	340	50	ug/L	1.00	10/07/2005 12:46	Q1
Benzene	ND	0.50	ug/L	1.00	10/07/2005 12:46	
Toluene	ND	0.50	ug/L	1.00	10/07/2005 12:46	
Ethylbenzene	ND	0.50	ug/L	1.00	10/07/2005 12:46	
Total xylenes	ND	1.0	ug/L	1.00	10/07/2005 12:46	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/07/2005 12:46	
Surrogate(s)						
1,2-Dichloroethane-d4	80.0	73-130	%	1.00	10/07/2005 12:46	
Toluene-d8	82.3	81-114	%	1.00	10/07/2005 12:46	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/10/07-1A.65**

MB: 2005/10/07-1A.65-047

Date Extracted: 10/07/2005 08:47

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	10/07/2005 08:47	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/07/2005 08:47	
Benzene	ND	0.5	ug/L	10/07/2005 08:47	
Toluene	ND	0.5	ug/L	10/07/2005 08:47	
Ethylbenzene	ND	0.5	ug/L	10/07/2005 08:47	
Total xylenes	ND	1.0	ug/L	10/07/2005 08:47	
Surrogates(s)					
1,2-Dichloroethane-d4	86.6	73-130	%	10/07/2005 08:47	
Toluene-d8	90.8	81-114	%	10/07/2005 08:47	

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/10/07-1A.65**

LCS 2005/10/07-1A.65-021 Extracted: 10/07/2005 Analyzed: 10/07/2005 08:21
LCSD 2005/10/07-1A.65-013 Extracted: 10/07/2005 Analyzed: 10/07/2005 09:13

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	27.2	24.2	25	108.8	96.8	11.7	65-165	20		
Benzene	26.2	25.9	25	104.8	103.6	1.2	69-129	20		
Toluene	25.3	25.5	25	101.2	102.0	0.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	429	415	500	85.8	83.0		73-130			
Toluene-d8	451	451	500	90.2	90.2		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/10/07-1A.65**

MS/MSD

Lab ID: 2005-10-0095 - 003

MS: 2005/10/07-1A.65-038 Extracted: 10/07/2005 Analyzed: 10/07/2005 10:38
Dilution: 1.00

MSD: 2005/10/07-1A.65-003 Extracted: 10/07/2005 Analyzed: 10/07/2005 11:03
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	27.2	27.8	ND	25	108.8	111.2	2.2	65-165	20		
Benzene	26.0	25.1	ND	25	104.0	100.4	3.5	69-129	20		
Toluene	24.9	23.9	ND	25	99.6	95.6	4.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	446	442		500	89.2	88.4		73-130			
Toluene-d8	452	448		500	90.4	89.6		81-114			

Gas/BTEX/MTBE by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Legend and Notes

Result Flag

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

SEVERN TRENT STL

Submission: 2005-10-0087

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/03/2005 12:15	Water	1
MW-4	10/03/2005 11:20	Water	2
MW-8	10/03/2005 11:50	Water	3

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-1**	Lab ID:	2005-10-0087 - 1
Sampled:	10/03/2005 12:15	Extracted:	10/13/2005 13:37
Matrix:	Water	QC Batch#:	2005/10/13-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	350	50	ug/L	1.00	10/15/2005 01:01	Q2
Surrogate(s)						
o-Terphenyl	119.3	64-127	%	1.00	10/15/2005 01:01	

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-4**	Lab ID:	2005-10-0087 - 2
Sampled:	10/03/2005 11:20	Extracted:	10/13/2005 13:37
Matrix:	Water	QC Batch#:	2005/10/13-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	140000	2500	ug/L	50.00	10/17/2005 11:52	ndp
Surrogate(s)						
o-Terphenyl	NA	64-127	%	50.00	10/17/2005 11:52	S3

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-8**	Lab ID:	2005-10-0087 - 3
Sampled:	10/03/2005 11:50	Extracted:	10/13/2005 13:37
Matrix:	Water	QC Batch#:	2005/10/13-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	9000	500	ug/L	10.00	10/17/2005 12:19	ndp
Surrogate(s)						
o-Terphenyl	NA	64-127	%	10.00	10/17/2005 12:19	S3

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Batch QC Report

Prep(s): 3511 | Test(s): 8015M

Method Blank | **Water** | **QC Batch # 2005/10/13-05.10**

MB: 2005/10/13-05.10-001 | Date Extracted: 10/13/2005 13:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	10/14/2005 19:36	
Surrogates(s)					
o-Terphenyl	115.0	64-127	%	10/14/2005 19:36	

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/10/13-05.10**

LCS 2005/10/13-05.10-002 Extracted: 10/13/2005 Analyzed: 10/14/2005 18:41
LCSD 2005/10/13-05.10-003 Extracted: 10/13/2005 Analyzed: 10/14/2005 19:09

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	481	496	714	67.4	69.5	3.1	60-150	25		
Surrogates(s)										
o-Terphenyl	1.45	1.43	1.25	116.3	114.7		64-127	0		

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6097.00.0007
Conoco Philips Site # 0927

Received: 10/05/2005 09:15

Site: 720 North Franklin St. Fort Bragg, CA

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

S3

Surrogate recovery not reportable due to required dilution.

ConocoPhillips Chain Of Custody Record

100117

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS Attn: Dee Hutchinson 1 South Harbor, Suite 200 Ana, CA. 92704
2005-10-0087

ConocoPhillips Work Order Number: 0927SEC001
ConocoPhillips Cost Object: WNO.0927

DATE: 3 OCT 05
PAGE: 1 of 1

SAMPLING COMPANY: SECOR International Inc	Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 0927	GLOBAL ID NO.: T0604593174
ADDRESS: 3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670	SITE ADDRESS (Street and City): 720 North Franklin St., Fort Bragg, CA
CONOCOPHILLIPS SITE MANAGER: Ed Ralston	
PROJECT CONTACT (Hardcopy or PDF Report to): THOMAS M. POTTER	
TELEPHONE: (916) 861-0400 ext 291	FAX: (916) 861-0430
E-MAIL: tpotter@secor.com	EDF DELIVERABLE TO (RP or Designee): THOMAS M. POTTER
PHONE NO.: (916) 861-0400 ext 291	E-MAIL: csanders@secor.com
LAB USE ONLY	
SAMPLER NAME(S) (Print): Tod Burleson	CONSULTANT PROJECT NUMBER: 77CP.6097.00.0007

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 ☐

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

* Field Point name only required if different from Sample ID

Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead ☐Total ☐STLC ☐TCLP	TEMPERATURE ON RECEIPT C°
MW-1	10/3	1215	Water	8	X	X							
MW-4	10/3	1120	Water	8	X	X							
MW-8	10/3	1150	Water	8	X	X							

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Tod C Burl	Joan Mullen	10-5-05	0915
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

8/16/03 Revision

SEVERN TRENT STL

Submission#: 2005-11-0104

SECOR-Sacramento

November 22, 2005

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Attn.: Tom Potter

Project#: 77CP.6047.00.0007
Project: Conoco Philips Site #0220
Site: 720 North Franklin St., Fort Bragg, CA

Attached is our report for your samples received on 11/04/2005 09:30
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/19/2005 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: asalimpour@stl-inc.com

Sincerely,

Afsaneh Salimpour
Project Manager

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/01/2005 12:15	Water	1
MW-4	11/01/2005 11:25	Water	2
MW-8	11/01/2005 11:55	Water	3

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-1**	Lab ID:	2005-11-0104 - 1
Sampled:	11/01/2005 12:15	Extracted:	11/8/2005 11:10
Matrix:	Water	QC Batch#:	2005/11/08-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	860	50	ug/L	1.00	11/11/2005 20:24	Q2
Surrogate(s)						
o-Terphenyl	108.8	64-127	%	1.00	11/11/2005 20:24	

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-4**	Lab ID:	2005-11-0104 - 2
Sampled:	11/01/2005 11:25	Extracted:	11/8/2005 11:10
Matrix:	Water	QC Batch#:	2005/11/08-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	8600	250	ug/L	5.00	11/13/2005 22:11	Q2
Surrogate(s)						
o-Terphenyl	NA	64-127	%	5.00	11/13/2005 22:11	S3

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Prep(s):	3511	Test(s):	8015M
Sample ID:	**MW-8**	Lab ID:	2005-11-0104 - 3
Sampled:	11/01/2005 11:55	Extracted:	11/8/2005 11:10
Matrix:	Water	QC Batch#:	2005/11/08-03.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	860	50	ug/L	1.00	11/13/2005 22:38	Q2
Surrogate(s)						
o-Terphenyl	106.3	64-127	%	1.00	11/13/2005 22:38	

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

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Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 3511 | Test(s): 8015M

Method Blank | **Water** | **QC Batch # 2005/11/08-03.10**

MB: 2005/11/08-03.10-001 | Date Extracted: 11/08/2005 11:10

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	11/13/2005 19:54	
Surrogates(s)					
o-Terphenyl	100.8	64-127	%	11/13/2005 19:54	

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 3511

Test(s): 8015M

Laboratory Control Spike **Water** **QC Batch # 2005/11/08-03.10**

LCS 2005/11/08-03.10-002 Extracted: 11/08/2005 Analyzed: 11/13/2005 20:21
LCSD 2005/11/08-03.10-003 Extracted: 11/08/2005 Analyzed: 11/13/2005 20:49

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Diesel	552	502	714	77.3	70.3	9.5	60-150	25		
Surrogates(s)										
o-Terphenyl	1.25	1.24	1.25	99.7	99.3		64-127	0		

Diesel (C9-C24)

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Legend and Notes

Result Flag

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

S3

Surrogate recovery not reportable due to required dilution.

SEVERN TRENT STL

Submission: 2005-11-0104

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento

Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/01/2005 12:15	Water	1
MW-4	11/01/2005 11:25	Water	2
MW-8	11/01/2005 11:55	Water	3

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-1**	Lab ID:	2005-11-0104 - 1
Sampled:	11/01/2005 12:15	Extracted:	11/15/2005 20:53
Matrix:	Water	QC Batch#:	2005/11/15-2B.64
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	99	50	ug/L	1.00	11/15/2005 20:53	Q1
Benzene	ND	0.50	ug/L	1.00	11/15/2005 20:53	
Toluene	ND	0.50	ug/L	1.00	11/15/2005 20:53	
Ethylbenzene	ND	0.50	ug/L	1.00	11/15/2005 20:53	
Total xylenes	ND	1.0	ug/L	1.00	11/15/2005 20:53	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/15/2005 20:53	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/15/2005 20:53	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	11/15/2005 20:53	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/15/2005 20:53	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/15/2005 20:53	
1,2-DCA	ND	0.50	ug/L	1.00	11/15/2005 20:53	
EDB	ND	0.50	ug/L	1.00	11/15/2005 20:53	
Ethanol	ND	50	ug/L	1.00	11/15/2005 20:53	
Surrogate(s)						
1,2-Dichloroethane-d4	96.8	73-130	%	1.00	11/15/2005 20:53	
Toluene-d8	104.5	81-114	%	1.00	11/15/2005 20:53	

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-4**	Lab ID:	2005-11-0104 - 2
Sampled:	11/01/2005 11:25	Extracted:	11/9/2005 15:44
Matrix:	Water	QC Batch#:	2005/11/09-1A.71
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	1100	50	ug/L	1.00	11/09/2005 15:44	Q1
Benzene	ND	0.50	ug/L	1.00	11/09/2005 15:44	
Toluene	ND	0.50	ug/L	1.00	11/09/2005 15:44	
Ethylbenzene	ND	0.50	ug/L	1.00	11/09/2005 15:44	
Total xylenes	ND	1.0	ug/L	1.00	11/09/2005 15:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/09/2005 15:44	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/09/2005 15:44	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	11/09/2005 15:44	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/09/2005 15:44	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/09/2005 15:44	
1,2-DCA	ND	0.50	ug/L	1.00	11/09/2005 15:44	
EDB	ND	0.50	ug/L	1.00	11/09/2005 15:44	
Ethanol	ND	50	ug/L	1.00	11/09/2005 15:44	
Surrogate(s)						
1,2-Dichloroethane-d4	85.6	73-130	%	1.00	11/09/2005 15:44	
Toluene-d8	83.8	81-114	%	1.00	11/09/2005 15:44	

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-8**	Lab ID:	2005-11-0104 - 3
Sampled:	11/01/2005 11:55	Extracted:	11/9/2005 16:37
Matrix:	Water	QC Batch#:	2005/11/09-1A.71
pH: <2			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	180	50	ug/L	1.00	11/09/2005 16:37	Q1
Benzene	ND	0.50	ug/L	1.00	11/09/2005 16:37	
Toluene	ND	0.50	ug/L	1.00	11/09/2005 16:37	
Ethylbenzene	ND	0.50	ug/L	1.00	11/09/2005 16:37	
Total xylenes	ND	1.0	ug/L	1.00	11/09/2005 16:37	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	11/09/2005 16:37	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/09/2005 16:37	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	11/09/2005 16:37	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	11/09/2005 16:37	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	11/09/2005 16:37	
1,2-DCA	ND	0.50	ug/L	1.00	11/09/2005 16:37	
EDB	ND	0.50	ug/L	1.00	11/09/2005 16:37	
Ethanol	ND	50	ug/L	1.00	11/09/2005 16:37	
Surrogate(s)						
1,2-Dichloroethane-d4	102.2	73-130	%	1.00	11/09/2005 16:37	
Toluene-d8	102.7	81-114	%	1.00	11/09/2005 16:37	

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/11/09-1A.71**

MB: 2005/11/09-1A.71-053

Date Extracted: 11/09/2005 07:53

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	11/09/2005 07:53	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/09/2005 07:53	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/09/2005 07:53	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	11/09/2005 07:53	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	11/09/2005 07:53	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	11/09/2005 07:53	
1,2-DCA	ND	0.5	ug/L	11/09/2005 07:53	
EDB	ND	0.5	ug/L	11/09/2005 07:53	
Benzene	ND	0.5	ug/L	11/09/2005 07:53	
Toluene	ND	0.5	ug/L	11/09/2005 07:53	
Ethylbenzene	ND	0.5	ug/L	11/09/2005 07:53	
Total xylenes	ND	1.0	ug/L	11/09/2005 07:53	
Ethanol	ND	50	ug/L	11/09/2005 07:53	
Surrogates(s)					
1,2-Dichloroethane-d4	106.0	73-130	%	11/09/2005 07:53	
Toluene-d8	108.4	81-114	%	11/09/2005 07:53	

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 5030B
Test(s): 8260B

Method Blank **Water** **QC Batch # 2005/11/15-2B.64**

MB: 2005/11/15-2B.64-036

Date Extracted: 11/15/2005 19:36

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	11/15/2005 19:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	11/15/2005 19:36	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/15/2005 19:36	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	11/15/2005 19:36	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	11/15/2005 19:36	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	11/15/2005 19:36	
1,2-DCA	ND	0.5	ug/L	11/15/2005 19:36	
EDB	ND	0.5	ug/L	11/15/2005 19:36	
Benzene	ND	0.5	ug/L	11/15/2005 19:36	
Toluene	ND	0.5	ug/L	11/15/2005 19:36	
Ethylbenzene	ND	0.5	ug/L	11/15/2005 19:36	
Total xylenes	ND	1.0	ug/L	11/15/2005 19:36	
Ethanol	ND	50	ug/L	11/15/2005 19:36	
Surrogates(s)					
1,2-Dichloroethane-d4	93.8	73-130	%	11/15/2005 19:36	
Toluene-d8	102.0	81-114	%	11/15/2005 19:36	

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/11/09-1A.71**

LCS 2005/11/09-1A.71-059 Extracted: 11/09/2005 Analyzed: 11/09/2005 06:59
LCSD 2005/11/09-1A.71-026 Extracted: 11/09/2005 Analyzed: 11/09/2005 07:26

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.4	28.3	25	101.6	113.2	10.8	65-165	20		
Benzene	24.9	23.4	25	99.6	93.6	6.2	69-129	20		
Toluene	23.8	23.0	25	95.2	92.0	3.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	485	477	500	97.0	95.4		73-130			
Toluene-d8	545	529	500	109.0	105.8		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/11/15-2B.64**

LCS 2005/11/15-2B.64-054 Extracted: 11/15/2005 Analyzed: 11/15/2005 18:54
LCSD 2005/11/15-2B.64-015 Extracted: 11/15/2005 Analyzed: 11/15/2005 19:15

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.0	20.9	25	88.0	83.6	5.1	65-165	20		
Benzene	21.3	21.0	25	85.2	84.0	1.4	69-129	20		
Toluene	22.6	21.9	25	90.4	87.6	3.1	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	508	507	500	101.6	101.4		73-130			
Toluene-d8	535	540	500	107.0	108.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/11/09-1A.71**

MS/MSD

Lab ID: 2005-11-0054 - 003

MS: 2005/11/09-1A.71-043 Extracted: 11/09/2005 Analyzed: 11/09/2005 11:43
Dilution: 20.00

MSD: 2005/11/09-1A.71-010 Extracted: 11/09/2005 Analyzed: 11/09/2005 12:10
Dilution: 20.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	576	573	14.7	500	112.3	111.7	0.5	65-165	20		
Benzene	506	500	24.5	500	96.3	95.1	1.3	69-129	20		
Toluene	531	530	65.2	500	93.2	93.0	0.2	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	475	471		500	95.0	94.2		73-130			
Toluene-d8	537	520		500	107.4	104.0		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/11/15-2B.64**

MS/MSD

Lab ID: 2005-11-0174 - 004

MS: 2005/11/15-2B.64-038 Extracted: 11/15/2005 Analyzed: 11/15/2005 22:38
Dilution: 2.00

MSD: 2005/11/15-2B.64-059 Extracted: 11/15/2005 Analyzed: 11/15/2005 22:59
Dilution: 2.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	229	211	216	50	26.0	-10.0	450.	65-165	20	M5	M5,R1
Benzene	40.6	36.3	ND	50	81.2	72.6	11.2	69-129	20		
Toluene	43.3	37.6	0.54	50	85.5	74.1	14.3	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	484	478		500	96.8	95.6		73-130			
Toluene-d8	514	513		500	102.8	102.6		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

SECOR-Sacramento
Attn.: Tom Potter

3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
Phone: (916) 861-0400 Fax: (916) 861-0430

Project: 77CP.6047.00.0007
Conoco Philips Site #0220

Received: 11/04/2005 09:30

Site: 720 North Franklin St., Fort Bragg, CA

Legend and Notes

Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.
See blank spike (LCS).

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.

R1

Analyte RPD was out of QC limits.

ConocoPhillips Chain Of Custody Record

98865

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: 2005-11-0104

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

ConocoPhillips Work Order Number: 0927SEC001

ConocoPhillips Cost Object: WNO.0927

DATE: NOV 05

PAGE: 1 of 1

SAMPLING COMPANY: SECOR International Inc	Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 0220	GLOBAL ID NO.: TO604593174
ADDRESS: 3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670	SITE ADDRESS (Street and City): 720 North Franklin St., Fort Bragg, CA
CONOCOPHILLIPS SITE MANAGER: Thomas Kosel	
PROJECT CONTACT (Hardcopy or PDF Report to): Thomas M. Potter	EDF DELIVERABLE TO (RP or Designee): Thomas M. Potter
TELEPHONE: (916) 861-0400 / FAX: (916) 861-0430 / E-MAIL: tpotter@secor.com	PHONE NO.: (916) 861-0400 / E-MAIL: tpotter@secor.com
LAB USE ONLY	
SAMPLER NAME(S) (Print): Tod Burleson	CONSULTANT PROJECT NUMBER: 77CP.6047.00.0007

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 ☑

* 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 - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
														TEMPERATURE ON RECEIPT C° 6
	MW-1	1 NOV	1215	Water	8	X		X						4 w/HCL 4 NO
	MW-4	1 NOV	1125	Water	8	X		X						" "
	MW-8	1 NOV	1155	Water	8	X		X						3 w/HCL 4 NO

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Tod T. Burl	Joan McCan	11-4-05	0930

9/19/03 Revision

ANALYTICAL REPORT

Job Number: 720-940-1

Job Description: Conoco Phillips #0220, Fort Bragg

For:

Secor International, Inc.
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Attention: Mr. Thomas M Potter

Dimple Sharma
Project Manager I
dsharma@stl-inc.com
12/22/2005

METHOD SUMMARY

Client: Secor International, Inc. Job Number: 720-940-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Organic Compounds in Water by Microextraction	STL-SF		SW846 3511

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Secor International, Inc.

Job Number: 720-940-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-940-1	MW-1	Water	12/05/2005 1140	12/07/2005 0915
720-940-2	MW-4	Water	12/05/2005 1052	12/07/2005 0915
720-940-3	MW-8	Water	12/05/2005 1115	12/07/2005 0915

Client: Secor International, Inc.

Job Number: 720-940-1

Client Sample ID: **MW-1**

Lab Sample ID: 720-940-1
Client Matrix: Water

Date Sampled: 12/05/2005 1140
Date Received: 12/07/2005 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/14/2005 2044
Date Prepared: 12/14/2005 2044

Analysis Batch: 720-3201

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	104	77 - 121
1,2-Dichloroethane-d4	85	73 - 130

Client: Secor International, Inc.

Job Number: 720-940-1

Client Sample ID: **MW-4**

Lab Sample ID: 720-940-2
Client Matrix: Water

Date Sampled: 12/05/2005 1052
Date Received: 12/07/2005 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/14/2005 2359
Date Prepared: 12/14/2005 2359

Analysis Batch: 720-3201

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	110		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	102	77 - 121
1,2-Dichloroethane-d4	88	73 - 130

Client: Secor International, Inc.

Job Number: 720-940-1

Client Sample ID: **MW-8**

Lab Sample ID: 720-940-3
Client Matrix: Water

Date Sampled: 12/05/2005 1115
Date Received: 12/07/2005 0915

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/15/2005 0021
Date Prepared: 12/15/2005 0021

Analysis Batch: 720-3201

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	110		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	103	77 - 121
1,2-Dichloroethane-d4	86	73 - 130

Client: Secor International, Inc. Job Number: 720-940-1

Client Sample ID: MW-1

Lab Sample ID: 720-940-1 Date Sampled: 12/05/2005 1140
Client Matrix: Water Date Received: 12/07/2005 0915

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 1.0
Date Analyzed: 12/15/2005 1740
Date Prepared: 12/14/2005 1348

Analysis Batch: 720-3190
Prep Batch: 720-3043

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	90	60 - 130

Client: Secor International, Inc.

Job Number: 720-940-1

Client Sample ID: **MW-4**

Lab Sample ID: 720-940-2
Client Matrix: Water

Date Sampled: 12/05/2005 1052
Date Received: 12/07/2005 0915

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 1.0
Date Analyzed: 12/15/2005 1808
Date Prepared: 12/14/2005 1348

Analysis Batch: 720-3190
Prep Batch: 720-3043

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	140		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	92	60 - 130

Client: Secor International, Inc. Job Number: 720-940-1

Client Sample ID: **MW-8**

Lab Sample ID: 720-940-3 Date Sampled: 12/05/2005 1115
Client Matrix: Water Date Received: 12/07/2005 0915

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3511
Dilution: 1.0
Date Analyzed: 12/15/2005 1835
Date Prepared: 12/14/2005 1348

Analysis Batch: 720-3190
Prep Batch: 720-3043

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	720		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	102	60 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Secor International, Inc.

Job Number: 720-940-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-3201				
LCS 720-3201/13	Lab Control Spike	Water	8260B	
LCSD 720-3201/6	Lab Control Spike Duplicate	Water	8260B	
MB 720-3201/7	Method Blank	Water	8260B	
720-940-1	MW-1	Water	8260B	
720-940-1MS	Matrix Spike	Water	8260B	
720-940-1MSD	Matrix Spike Duplicate	Water	8260B	
720-940-2	MW-4	Water	8260B	
720-940-3	MW-8	Water	8260B	
GC Semi VOA				
Prep Batch: 720-3043				
LCS 720-3043/2-A	Lab Control Spike	Water	3511	
LCSD 720-3043/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-3043/1-A	Method Blank	Water	3511	
720-940-1	MW-1	Water	3511	
720-940-2	MW-4	Water	3511	
720-940-3	MW-8	Water	3511	
Analysis Batch:720-3190				
LCS 720-3043/2-A	Lab Control Spike	Water	8015B	720-3043
LCSD 720-3043/3-A	Lab Control Spike Duplicate	Water	8015B	720-3043
MB 720-3043/1-A	Method Blank	Water	8015B	720-3043
720-940-1	MW-1	Water	8015B	720-3043
720-940-2	MW-4	Water	8015B	720-3043
720-940-3	MW-8	Water	8015B	720-3043

Client: Secor International, Inc.

Job Number: 720-940-1

Method Blank - Batch: 720-3201

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-3201/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2005 1948
Date Prepared: 12/14/2005 1948

Analysis Batch: 720-3201
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	103	77 - 121
1,2-Dichloroethane-d4	83	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Secor International, Inc.

Job Number: 720-940-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3201

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-3201/13
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2005 1905
Date Prepared: 12/14/2005 1905

Analysis Batch: 720-3201
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\1:
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-3201/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2005 1927
Date Prepared: 12/14/2005 1927

Analysis Batch: 720-3201
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12'
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	92	69 - 129	2	25		
MTBE	97	101	65 - 165	4	25		
Toluene	95	101	70 - 130	6	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	102	107	77 - 121
1,2-Dichloroethane-d4	79	82	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Secor International, Inc.

Job Number: 720-940-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-3201

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-940-1	Analysis Batch:	720-3201	Instrument ID:	Varian 3900A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	c:\saturnws\data\200512\
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/14/2005 2106			Final Weight/Volume:	10 mL
Date Prepared:	12/14/2005 2106				

MSD Lab Sample ID:	720-940-1	Analysis Batch:	720-3201	Instrument ID:	Varian 3900A
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	c:\saturnws\data\200512\1
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/14/2005 2128			Final Weight/Volume:	10 mL
Date Prepared:	12/14/2005 2128				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	96	89	69 - 129	8	20		
MTBE	106	96	65 - 165	10	20		
Toluene	101	93	70 - 130	9	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8	103	100	77 - 121
1,2-Dichloroethane-d4	79	80	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Secor International, Inc.

Job Number: 720-940-1

Method Blank - Batch: 720-3043

Method: 8015B
Preparation: 3511

Lab Sample ID: MB 720-3043/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2005 1618
Date Prepared: 12/14/2005 1348

Analysis Batch: 720-3190
Prep Batch: 720-3043
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	87	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-3043

Method: 8015B
Preparation: 3511

LCS Lab Sample ID: LCS 720-3043/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/16/2005 1014
Date Prepared: 12/14/2005 1348

Analysis Batch: 720-3190
Prep Batch: 720-3043
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-3043/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2005 1713
Date Prepared: 12/14/2005 1348

Analysis Batch: 720-3190
Prep Batch: 720-3043
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C9-C24]	63	62	60 - 150	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	93	92	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

ConocoPhillips Chain Of Custody Record

90101

STL-San Francisco
1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: 720-940

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

ConocoPhillips Work Order Number: 0927SEC001

ConocoPhillips Cost Object: WNO.0927

DATE: 5 DEC 05

PAGE: 1 of 1

SAMPLING COMPANY:	SECOR International Inc
Valid Value ID:	
CONOCOPHILLIPS SITE NUMBER	0220
GLOBAL ID NO.:	TO604593174
ADDRESS:	3017 Kilgore Rd Suite 100, Rancho Cordova, CA 95670
SITE ADDRESS (Street and City):	720 North Franklin St., Fort Bragg, CA
CONOCOPHILLIPS SITE MANAGER:	Thomas Kosol
PROJECT CONTACT (Hardcopy or PDF Report to):	Thomas M. Potter
EDF DELIVERABLE TO (RP or Designee):	Thomas M. Potter
PHONE NO.:	(916) 861-0400
E-MAIL:	tpotter@secor.com
LAB USE ONLY	
TELEPHONE:	(916) 861-0400
FAX:	(916) 861-0430
E-MAIL:	tpotter@secor.com
SAMPLER NAME(S) (Print):	Tod Burleson
CONSULTANT PROJECT NUMBER	77CP.6047.00.0007

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 ☑

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MtBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	Field Notes
	MW-1	12/5	1140	Water	8	X		X						
	MW-4	12/5	1052	Water	8	X		X						
	MW-8	12/5	1115	Water	8	X		X						

TEMPERATURE ON RECEIPT C° 4°C

Relinquished by (Signature)	Received by (Signature)	Date	Time
Tod C. Burl	Joan Mullen	12-07-05	0915
Relinquished by (Signature)	Received by (Signature)	Date	Time
Relinquished by (Signature)	Received by (Signature)	Date	Time

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Secor International, Inc. Job Number: 720-940-1

Login Number: 940

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	MW-4 REC'D 2 VOA UNP BROKEN
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

ATTACHMENT 4
CONCENTRATION VS. TIME GRAPHS – OZONE INJECTION MONITORING WELLS

Fourth Quarter 2005 Quarterly Summary and Monitoring Report
Bulk Plant No. 0220
720 North Franklin Street
Fort Bragg, California
SECOR Project No.: 77CP.60009.01.0220

Figure 1
MW-1 TPHg, TPHd, Benzene, and MtBE Groundwater Concentrations
ConocoPhillips Site # 0220
720 North Franklin St, Ft Bragg, California

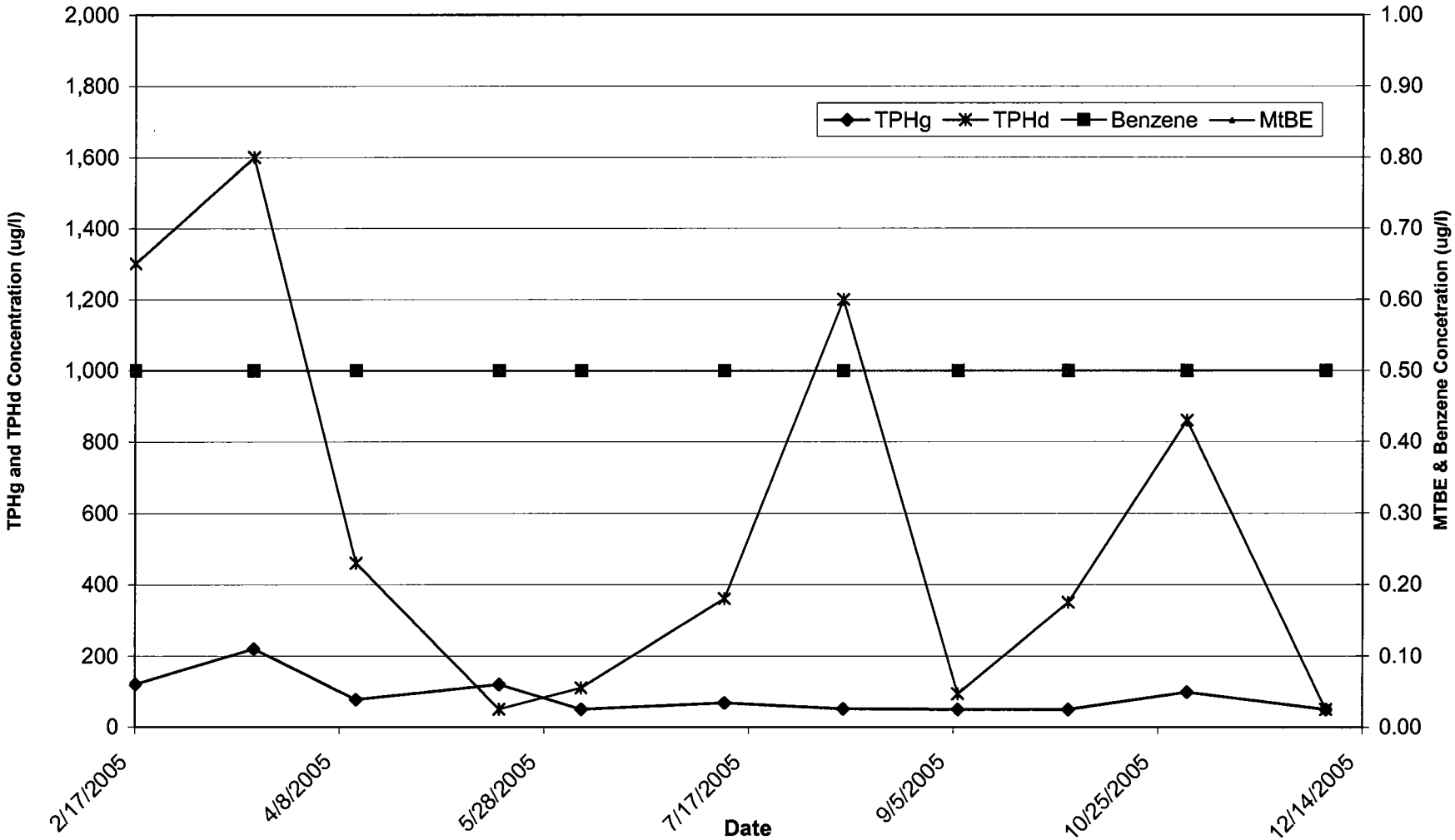

Figure 2
MW-4 TPHg, TPGd, Benzene, and MtBE Groundwater Concentrations
ConocoPhillips Site # 0220
720 North Franklin St, Ft Bragg, California

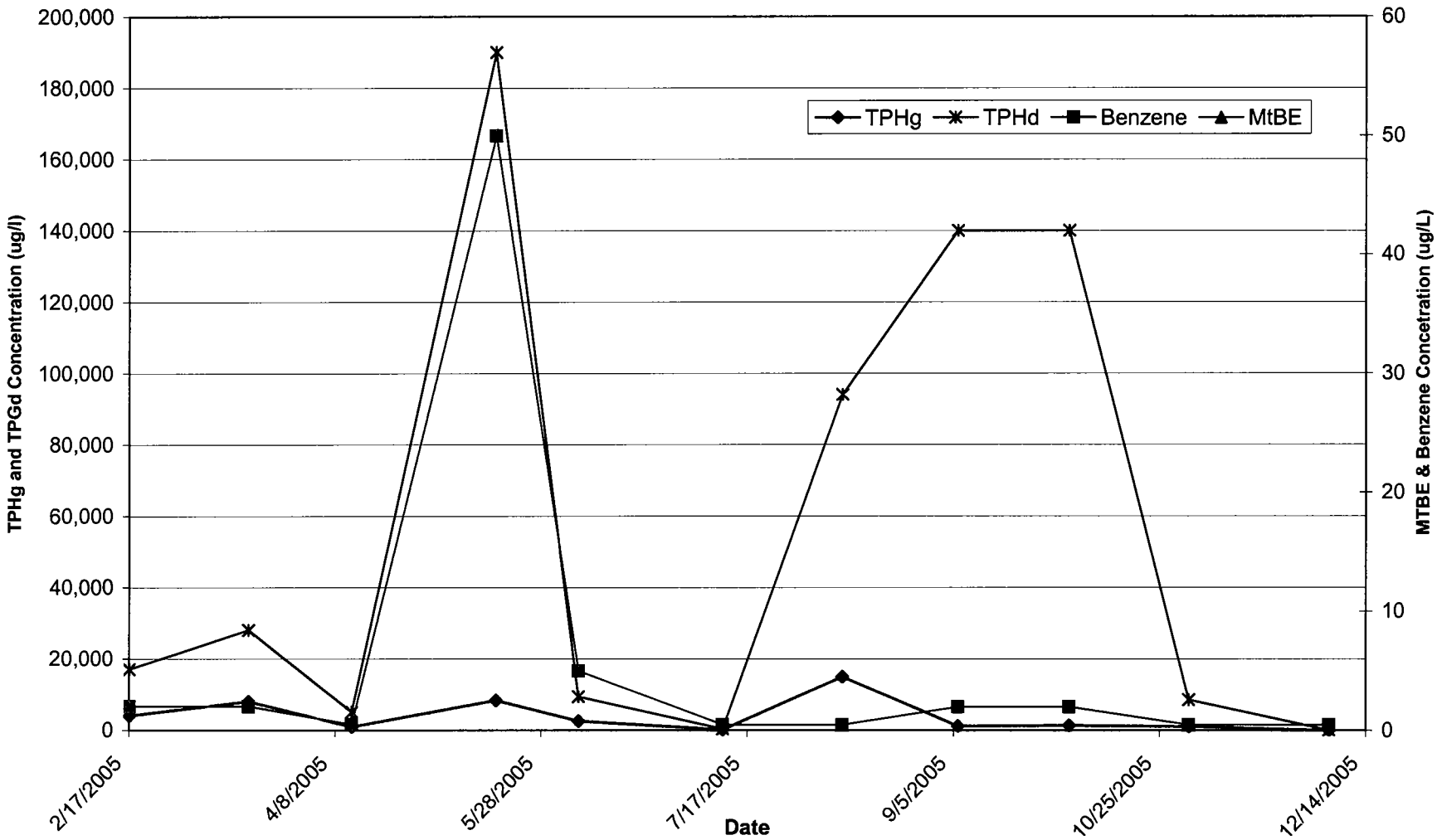
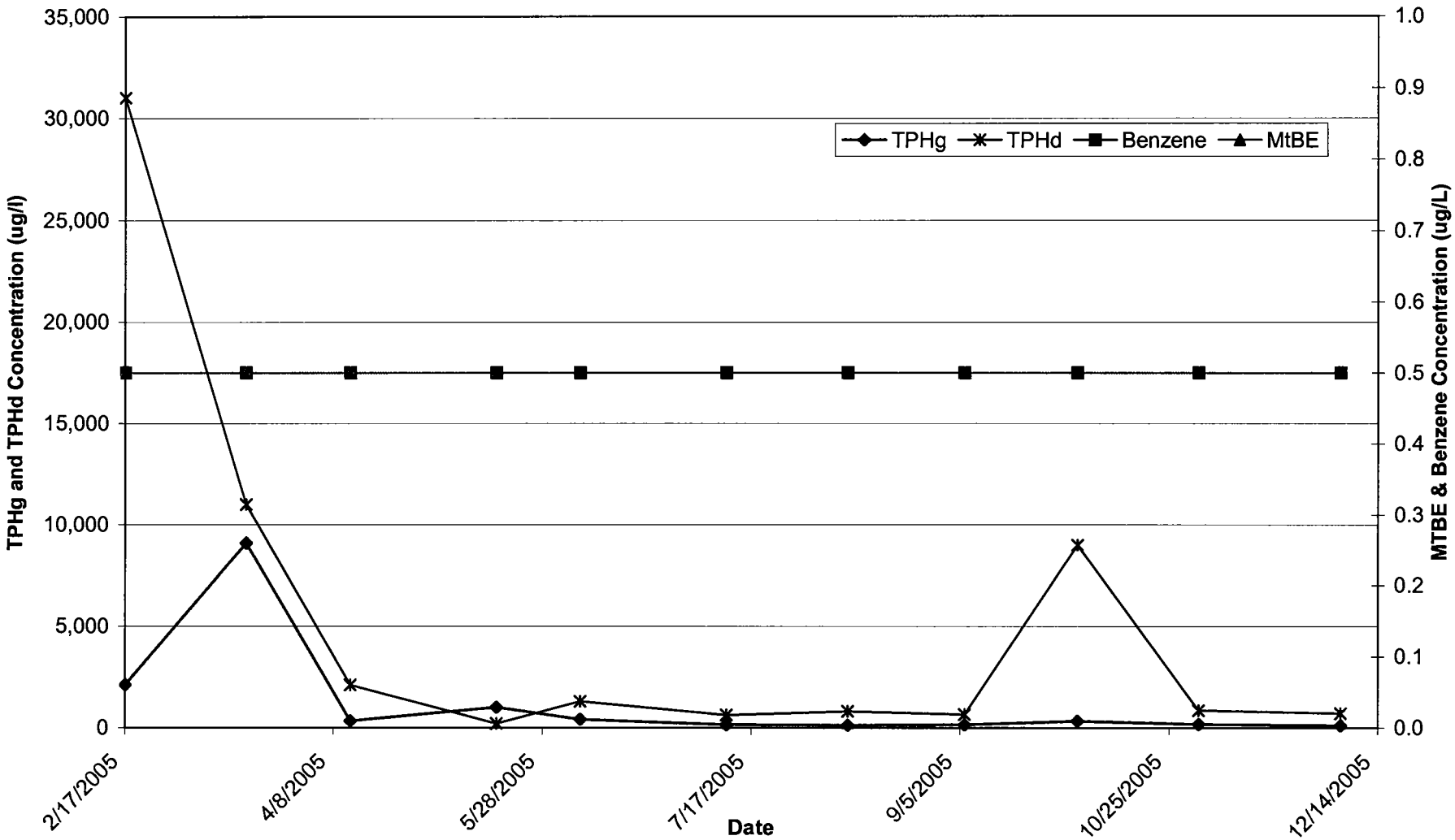
Figure 3
MW-8 TPHg, TPHd, Benzene, and MtBE Groundwater Concentrations
ConocoPhillips Site # 0220
720 North Franklin St, Ft Bragg, California