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Alameda County

MAY 21 2004



Environmental Health

720 Southpoint Blvd. Suite 207
Petaluma, CA 94954
Phone (707) 765-0466, Fax (707) 765-0366

TRANSMITTAL

TO: Mr. Don Hwang
Alameda County Health Care
Services
1131 Harbor Bay Parkway,
Alameda, CA 94502

DATE: May 18, 2004
PROJECT NO. 06-459-6129-01
SUBJECT: ConocoPhillips (76) Station
6129
Oakland, California

From: Jeremy Smith

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	11/25/03	Limited Phase II Environmental Site Assessment Report


THESE ARE TRANSMITTED as checked below:

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| <input type="checkbox"/> For Approval | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> As noted below |

COMMENTS:

Don

The following due diligence work was performed on the above referenced closed case and is being reported for your review. Please call with questions.

Signed: 

COPIES TO: 1



Attest:
MAY 5 2004
P. O. BOX 2197
HOUSTON, TEXAS 77252-2197

November 25, 2003

Mr. Andrew Stow
ConocoPhillips
P.O. Box 2197
Houston, Texas 77252-2197

SITE: 76 STATION 6129
3420 35th AVENUE
OAKLAND, CALIFORNIA

RE: LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Dear Mr. Stow:

Miller Brooks Environmental, Inc. (Miller Brooks), is pleased to submit this Limited Phase II Environmental Site Assessment Report summarizing subsurface assessment activities conducted at 76 Station 6129, located at 3420 35th Avenue, Oakland, California (Figure 1). Assessment activities were inherently limited in scope and breadth based upon directives given by ConocoPhillips, and were intended to provide a limited "baseline" evaluation of subsurface conditions at the site in association with a transaction of real property. The scope of work described in this report was conducted in general accordance with Miller Brooks' October 27, 2003, *Revised Proposal and Cost Estimate for Limited Phase II Environmental Site Assessment*.

SITE DESCRIPTION

The site is currently an operating 76 Service Station that dispenses gasoline stored in two 12,000-gallon underground storage tanks (USTs) from two dispenser islands. A site visit conducted by Miller Brooks on October 15, 2003 revealed that there is one current waste oil UST, one former waste oil UST, three hydraulic lifts, and three groundwater monitoring wells present at the site. No clarifiers were observed in the three automotive service bays, although a subsequent site visit revealed a scar in the concrete in front of the central hydraulic lift where a former clarifier was present. The station manager also informed Miller Brooks that two floor drains had previously been removed. Pertinent current and former site features are displayed on Figure 2.

BACKGROUND

According to Kaprealian Engineering, Inc. (KEI), in 1989, two 10,000-gallon gasoline USTs and one 550-gallon waste oil UST were removed from the site. Analytical results of soil samples collected beneath the former gasoline USTs, waste oil UST and product piping indicated that low concentrations of petroleum hydrocarbons were detected in each of the sampling areas. Three groundwater monitoring wells (MW-1 through MW-3) were installed in 1989 to a depth of approximately 44 feet below ground surface (bgs). In 1990, four soil borings (EB1 through EB4) were drilled at the site in the vicinity of MW-3 in an attempt to define the hydrocarbon impact to soil. Based on the results of the soil sampling from the four borings, approximately 230 cubic yards of soil were excavated from an area between the dispenser islands and around well MW-3 in 1991. Excavation was performed so as to not destroy well MW-3. Analytical results from confirmation soil samples indicated that predominantly all the impacted soil had been removed from the subsurface.

ENVIRONMENTAL SETTING

GEOLOGIC AND HYDROGEOLOGIC CONDITIONS

The site is located at an elevation of approximately 190 feet above mean sea level. Groundwater was encountered during well installation in 1989 at a depth of approximately 30 feet bgs, and was measured by Miller Brooks at approximately 30 feet bgs in monitoring well MW-2 on October 15, 2003. Historically, the groundwater flow direction has generally been towards the southwest. Soil encountered during previous drilling activities generally consisted of clayey gravel with varying amounts of sand and clay to the maximum depth explored (44 feet bgs).

SUMMARY OF FIELD ACTIVITIES

PRE-DRILLING ACTIVITIES

Before field activities were initiated, Underground Service Alert was notified (No. 412549), and Cruz Brothers, a private utility locating company, verified the location of onsite utilities. Prior to drilling, a soil boring installation permit was obtained from the Alameda County Public Works Agency (ACPWA) (No. W03-0980). On the day field activities were initiated, a site safety plan was provided to all workers onsite during the tailgate safety meeting, which was held to inform workers of potential onsite hazards

DRILLING AND SAMPLING ACTIVITIES

On November 12 and 13, 2003, four soil borings (SB-1 and SB-3 through SB-5) were drilled to assess subsurface conditions at the site. The soil borings were hand augured to a depth of approximately 5 feet bgs to prevent damage to possible unidentified subsurface utilities. Five separate attempts were made to advance soil boring SB-2, however during hand auguring activities, pea gravel was encountered on three occasions, a subsurface utility was encountered in one location and gravel fill was encountered in one location. Therefore, attempts to install soil boring SB-2 were terminated and the boring was not completed. Soil boring locations are depicted in Figure 2. Each soil boring was advanced using a hollow-stem auger drill rig. During drilling activities, the soil borings were drilled to a total depth of approximately 31.5 (SB-3 through SB-5) and 36.5 (SB-1) feet bgs. Based upon field observations, groundwater was encountered at a depth of approximately 35 feet bgs.

During drilling, soil samples were collected at approximate 5-foot depth intervals for hydrocarbon vapor screening, and soil descriptions were logged in accordance with the Unified Soil Classification System. In accordance with directives from ConocoPhillips, one soil sample from each soil boring, collected from depths representing the capillary fringe or the maximum hydrocarbon vapor concentration recorded during vapor screening, was submitted for laboratory analysis.

GROUNDWATER SAMPLING ACTIVITIES

In order to assess groundwater conditions beneath the site, groundwater samples were collected from the three existing monitoring wells at the site (MW-1 through MW-3). Prior to groundwater sampling activities, the monitoring wells were developed using a combination of surging and bailing techniques. Approximately 15 to 20 gallons of water were removed from each monitoring well. A minimum of five hours after the wells were

developed, groundwater samples were collected from each well using a disposable bailer and decanted into appropriate containers supplied by the laboratory.

A description of general field procedures, and copies of boring logs and the soil boring permit are included in Appendix A.

Soil, purged groundwater, and decontamination rinse water generated during drilling and sampling activities were temporarily stored onsite in labeled, Department of Transportation-approved, 55-gallon drums prior to transport to the Filter Recycling Services facility in Rialto, California, for disposal/recycling. A copy of the non-hazardous waste manifest will be forwarded under separate cover upon receipt.

LABORATORY ANALYSIS

Soil and groundwater samples collected during this investigation were submitted to a California-certified laboratory for analysis. All samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (collectively, BTEX), methyl tertiary butyl ether (MtBE), tertiary butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and ethanol using EPA Method 8260. In addition, the soil sample collected from SB-1 and SB-5 (adjacent to the existing and former waste oil USTs) were analyzed for oil and grease (O&G) using EPA Method 1664 and total lead by EPA Method 6010. Laboratory analytical results of soil and groundwater samples collected during site assessment activities are presented in Table 1 and Table 2, respectively. Copies of the official laboratory reports and chain of custody records are included in Appendix B.

FINDINGS

Sediments observed in the subsurface generally consisted of silt and lean clay with varying amounts of sand and gravel to approximately 36.5 feet bgs. The lean clay was observed to the maximum depth explored (approximately 36.5 feet bgs). During drilling activities, groundwater was observed at an approximate depth of 35 feet bgs.

Petroleum hydrocarbon concentrations were reported in the soil samples analyzed from soil borings SB-1, SB-3, and SB-5. The soil sample analyzed from boring SB-4 did not contain concentrations of petroleum hydrocarbons above laboratory reporting limits.

- MtBE and total lead were reported at a concentration of 0.410 and 3.9 milligrams per kilogram (mg/kg), respectively, in the soil sample analyzed from soil boring SB-1. All other constituents were reported below the laboratory reporting limit.
- MtBE was reported at a concentration of 0.370 mg/kg in the soil sample analyzed from soil boring SB-3. All other constituents were reported below the laboratory reporting limit.
- MtBE and total lead were reported at a concentration of 0.055 and 5.8 mg/kg, respectively, in the soil sample analyzed from soil boring SB-5. All other constituents were reported below the laboratory reporting limit.

Groundwater was measured at a depth of 30.27 to 31.36 feet below the top of well casing in monitoring wells MW-1 through MW-3. Petroleum hydrocarbon concentrations were reported in the groundwater samples collected from wells MW-1 through MW-3 as follows:

- Concentrations of 180 and 240 micrograms per liter ($\mu\text{g/L}$) of TPHg and MtBE, respectively, were reported in the groundwater sample collected from well MW-1. However, the reported TPHg concentration (reported in the gasoline range) did not match the laboratory's gasoline standard. None of the remaining analytes were detected at or above the laboratory reporting limit.
- A concentrations of 2,100 $\mu\text{g/L}$ of MtBE was reported in the groundwater sample collected from well MW-2. None of the remaining analytes were detected at or above the laboratory reporting limit, however the laboratory reporting limit for TPHg was 2,000 $\mu\text{g/L}$.
- Concentrations of 2,600 and 3,700 $\mu\text{g/L}$ of TPHg and MtBE, respectively, were reported in the groundwater sample collected from well MW-3. However, the reported TPHg concentration (reported in the gasoline range) did not match the laboratory's gasoline standard. None of the remaining analytes were detected at or above the laboratory reporting limit.

CONCLUSIONS

Based upon laboratory analytical results of soil samples collected during this investigation, residual concentrations of MtBE and lead (<0.410 and <5.8 mg/kg, respectively) are present in the vicinity of soil borings SB-1, SB-3, and SB-5. The concentrations of detected lead are consistent with background concentrations in the soil. Analytical results of groundwater samples collected during this investigation indicate that MtBE is present in the groundwater beneath the site at concentrations up to 3,700 $\mu\text{g/L}$. According to the laboratory results, the TPHg detected in the groundwater samples did not match the laboratory's gasoline standard. Based on the absence of BTEX constituents and the elevated MtBE concentrations in the groundwater samples, the TPHg concentrations are most likely a laboratory false positive result due to MtBE interference. The detected dissolved phase hydrocarbon concentrations of MtBE during this investigation (between 240 and 3,700 $\mu\text{g/L}$) were above the California Regional Water Quality Control Board's maximum contaminant levels for MtBE (13 $\mu\text{g/L}$).

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

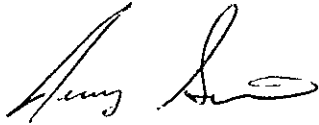
The conclusions presented herein are based solely upon the agreed upon scope of work outlined in this report. Miller Brooks makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this investigation. Additional information, which was not found or available to Miller Brooks at the time of writing this report, may result in modification of the conclusions presented. This report is not a legal opinion. The services performed by Miller Brooks have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

This investigation was performed under the direct responsible charge of the professional whose signature and license number appear below.

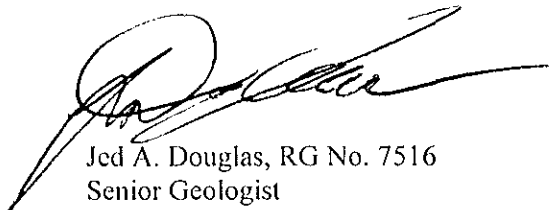
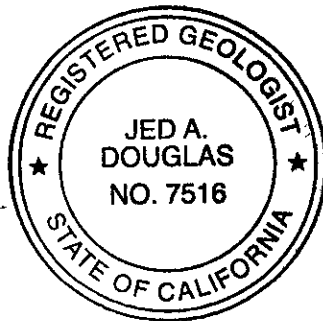
If you have any questions regarding this report, please call us at (707) 765-0466.

Sincerely,

MILLER BROOKS ENVIRONMENTAL, INC.



Jeremy A. Smith
Senior Staff Scientist



Jed A. Douglas, RG No. 7516
Senior Geologist

- Attachments:
- Table 1 – Laboratory Analytical Results of Soil Samples
 - Table 2 – Laboratory Analytical Results of Groundwater Samples
 - Figure 1 – Vicinity Map
 - Figure 2 – Site Plan
 - Appendix A - General Field Procedures, Boring Logs, and Drilling Permit
 - Appendix B - Laboratory Reports and Chain of Custody Documentation

- cc:
- David DeWitt, ConocoPhillips – 1 hard copy
 - Tina Luckman, ConocoPhillips – 1 electronic copy
 - Bob Turreitta, ConocoPhillips 3611 Harbor Boulevard, Santa Ana, CA 92704 – 3 hard copies

REFERENCES

United States Geologic Survey 7.5 minute Topographic Map, 1959, Oakland East Quadrangle, photorevised 1980.

Kaprealian Engineering Inc., Preliminary Ground Water Investigation at Unocal Service Station #6129, 3420 – 35th Avenue, Oakland, California, dated February 5, 1990.

Kaprealian Engineering Inc., Soil Sampling Report at Unocal Service Station #6129, 3420 – 35th Avenue, Oakland, California, dated April 25, 1991.

Miller Brooks Environmental, Inc., 2003, Revised Proposal and Cost Estimate for Limited Phase II Environmental Site Assessment, 76 Service Station No. 6129, 3420 – 35th Avenue, Oakland, California, October 27, 2003.

TABLES

Table 1

LABORATORY ANALYTICAL RESULTS OF SOIL SAMPLES
76 Station 6129
3420 - 35th Avenue
Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	TPHg (mg/kg)	O&G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Total Lead (mg/kg)
SB-1-31	31	11/12/03	ND<3.4	ND<50	ND<0.017	ND<0.017	ND<0.017	ND<0.017	0.410	ND<0.034	ND<0.034	ND<0.017	ND<0.017	NA	NA	ND<0.340	3.9
SB-2	--	Not Collected															
SB-3-26	26	11/12/03	ND<3.5	NA	ND<0.017	ND<0.017	ND<0.017	ND<0.017	0.370	ND<0.035	ND<0.035	ND<0.017	ND<0.017	NA	NA	ND<0.350	NA
SB-4-26	26	11/13/03	ND<1	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.010	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.1	NA
SB-5-31	31	11/13/03	ND<1	ND<50	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.055	ND<0.005	ND<0.010	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.1	5.8

Notes

feet = feet below ground surface

TPHg = total petroleum hydrocarbons as gasoline using EPA Method 8260

O&G = oil and grease using EPA Method 1664

BTEX = benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8260

MTBE = methyl tertiary butyl ether using EPA Method 8260

TBA = tertiary butyl alcohol using EPA Method 8260

DIPE = diisopropyl ether using EPA Method 8260

ETBE = ethyl tertiary butyl ether using EPA Method 8260

TAME = tertiary amyl methyl ether using EPA Method 8260

1,2-DCA = 1,2-Dichloroethane using EPA Method 8260

EDB = 1,2-Dibromoethane using EPA Method 8260

Ethanol - using EPA Method 8260

Total Lead - using EPA Method 6010

mg/kg = milligrams per kilogram

ND = not detected at or above reporting limit indicated

NA = Not Analyzed

Analytical results reported by laboratory as micrograms per kilogram and converted to milligrams per kilogram by Miller Brooks

0.410 = Analytical result reported above laboratory reporting limit.

Table 2

LABORATORY ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

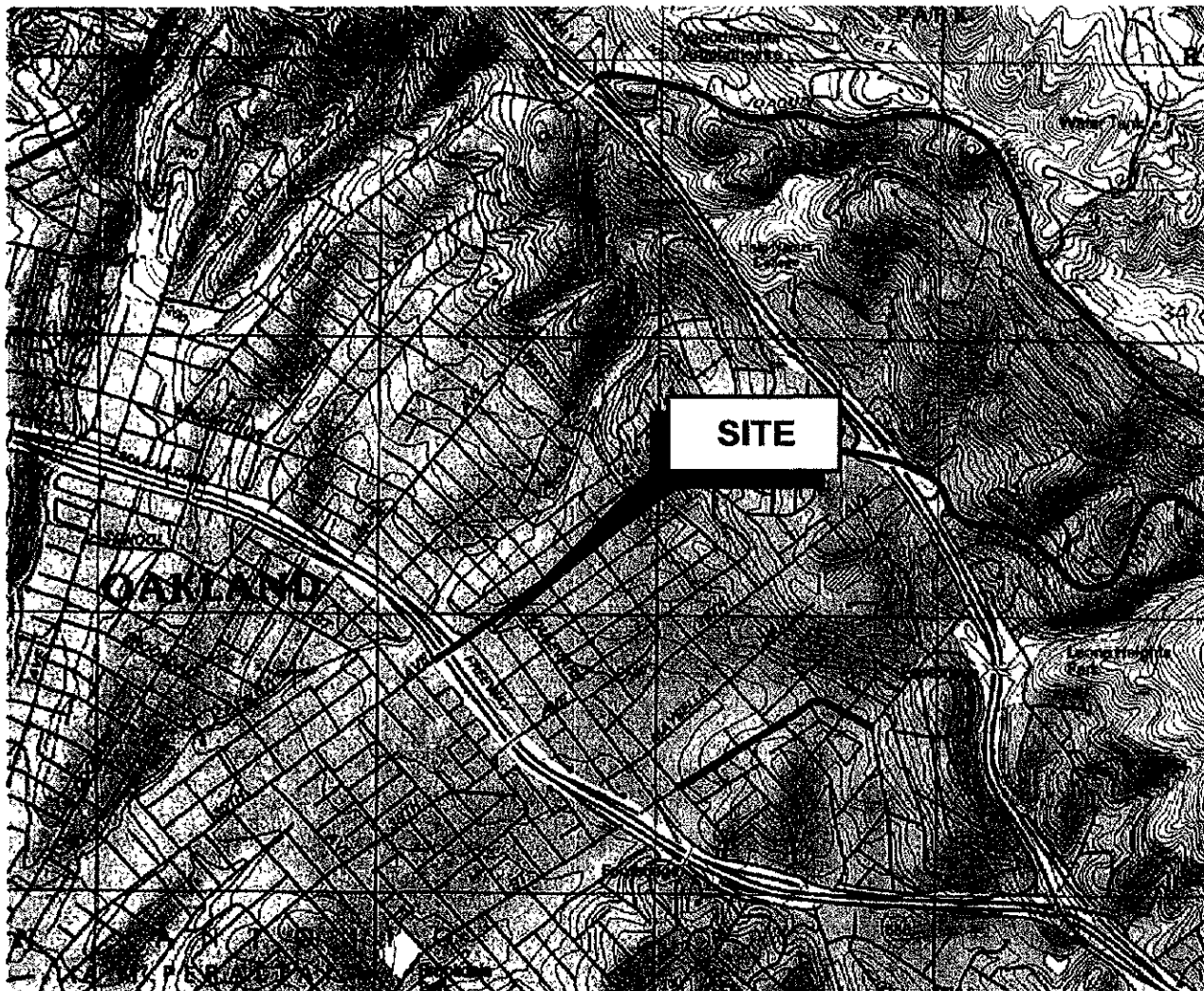
76 Station 6129
3420 - 35th Street
Oakland, California

Sample ID	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
MW-1	11/13/03	180 ¹	ND<1.0	ND<1.0	ND<1.0	ND<2.0	240	ND<200	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<1,000
MW-2	11/13/03	ND<2,000	ND<20	ND<20	ND<20	ND<40	2,100	ND<4,000	ND<80	ND<80	ND<80	ND<80	ND<80	ND<20,000
MW-3	11/13/03	2,600 ¹	ND<20	ND<20	ND<20	ND<40	3,700	ND<4,000	ND<80	ND<80	ND<80	ND<80	ND<80	ND<20,000

Notes:

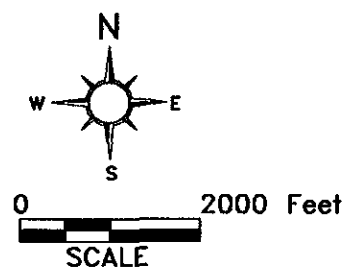
TPHg = total petroleum hydrocarbons as gasoline using EPA Method 8260
 BTEX = benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8260
 MTBE = methyl tertiary butyl ether using EPA Method 8260
 TBA = tertiary butyl alcohol using EPA Method 8260
 DIPE = diisopropyl ether using EPA Method 8260
 ETBE = ethyl tertiary butyl ether using EPA Method 8260
 TAME = tertiary amyl methyl ether using EPA Method 8260
 1,2-DCA = 1,2-Dichloroethane using EPA Method 8260
 EDB = 1,2-Dibromoethane using EPA Method 8260
 Ethanol - using EPA Method 8260
 µg/L = micrograms per liter
 ND = not detected at or above reporting limit indicated
 1.2 = Analytical result reported above laboratory reporting limit
¹ = Hydrocarbon reported in the gasoline range does not match laboratory's gasoline standard.

FIGURES



FROM: U.S. GEOLOGICAL SURVEY, 1981
 QUADRANGLE: OAKLAND EAST
 COUNTY: ALAMEDA
 SERIES: 7.5-MINUTE QUAD

NOTE: ALL BOUNDARIES AND LOCATIONS ARE APPROXIMATE



720 SOUTHPOINT BOULEVARD, SUITE 207
 PETALUMA, CA. 94954
 (707) 765-0466

PROJECT NO. 06-459-6129-01

DRAWN BY:
AIL
 DATE:
11/19/03
 REVISED BY:
PEL
 REVISED:
11/19/03
 APPROVED BY:
JAD
 DATE:
11/20/03

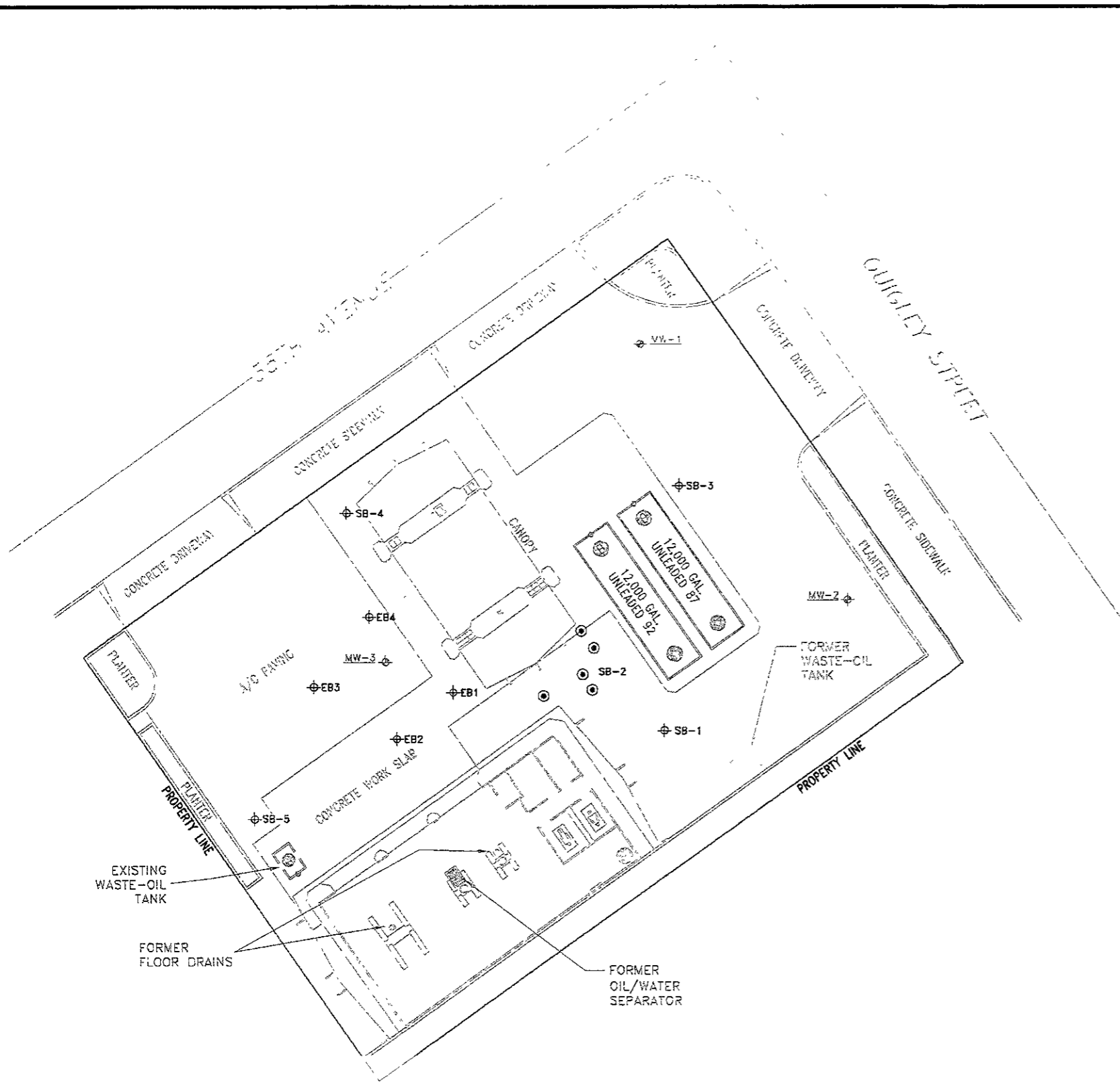
SITE LOCATION MAP

76 STATION 6129
 3420 35TH STREET
 OAKLAND, CA.

FIGURE

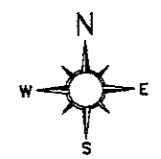
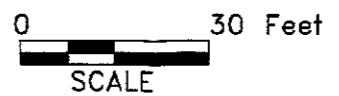
1

FILE: K:\DWG\C-P\NO. 6129 (3420 35TH STREET)\VICINITY MAP
 DATE PLOTTED: 11/20/03



LEGEND

- MW-3 ⊕ GROUNDWATER MONITORING WELL
- SB-5 ⊕ SOIL BORING LOCATIONS
- SB-2 ⊙ ATTEMPTED SOIL BORING
- [Dashed Box] GASOLINE UNDERGROUND STORAGE TANK
- [Cylinder Symbol] DISPENSER ISLAND
- [H Symbol] HOIST



EXISTING WASTE-OIL TANK

FORMER FLOOR DRAINS

FORMER OIL/WATER SEPARATOR

	DRAWN BY AIL	SITE PLAN	FIGURE 2
	DATE 11/19/03		
720 SOUTHPOINT BLVD., SUITE 207 PETALUMA, CA. 94954 (707) 765-0466	REVISED BY PEL	76 STATION NO. 6129 3420 35TH STREET OAKLAND, CA.	
	REVISOR: 11/20/03		
PROJECT NO. 01-459-6129-03	APPROVED BY JAD	F.I.E. K\DWGS\C-P\NO 6129 (3420 35TH ST, OAKLAND)\SITE PLAN DATE PLOTTED: 11/20/03	
	DATE 11/20/03		

APPENDIX A

GENERAL FIELD PROCEDURES, BORING LOGS, AND DRILLING PERMIT

APPENDIX A

GENERAL FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using continuous-flight, hollow-stem augers. Soil excavated from the hollow-stem auger borings is contained in labeled, Department of Transportation (DOT) approved, 55-gallon drums or sealed, roll-off bins and stored onsite pending appropriate disposal. Borings that are not completed as vadose or groundwater monitoring wells are grouted to within 1 foot of the ground surface with neat cement, and finished to the surface with asphalt or concrete to match the existing grade.

Soil samples are obtained from each boring for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples are retrieved from the borings continuously using a continuous core barrel sampler, or at 5-foot depth intervals using a modified penetration split-spoon sampler lined with three 2-inch diameter brass or stainless steel sample inserts. The continuous core barrel sampler is advanced with the augers, and the split-spoon sampler is driven approximately 18 inches beyond the lead auger with a 140-pound hammer dropped from a height of 30 inches.

Upon retrieval, soil samples are immediately removed from the sampler and sealed with Teflon sheeting and polyurethane caps. Each sample is labeled with the project number, boring number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are either delivered to an onsite mobile laboratory for immediate analysis or placed in a cooler with ice at approximately 4 degrees Celsius for transport to an offsite state-certified laboratory. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4 degrees Celsius for possible future testing.

During sampling activities, soil adjacent to the laboratory sample is screened for organic vapors using a photoionization detector (PID). For each vapor screening event, a sandwich size Ziploc bag is filled approximately 1/3 full with the soil sample. The PID probe is then inserted into the bag, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample tube and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, color, density/consistency, moisture, and grading are recorded on the boring logs.

GROUNDWATER SAMPLING

Groundwater samples are collected by installing a temporary well casing with a screened casing interval extending above and below the groundwater surface. Following installation of the temporary well, a disposable Teflon bailer is lowered through the well casing and the groundwater sample is retrieved. Following collection, the samples are carefully transferred from the bailer to pre-cleaned 40-milliliter glass containers provided by the laboratory. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. After the samples have been labeled and documented in the chain of custody record, they are chilled at approximately 4°C prior to analysis by a state-certified laboratory.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil and groundwater samples selected for laboratory analysis. The chain of custody form accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.




DECONTAMINATION

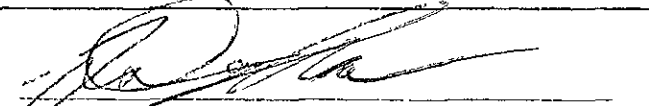
Drilling equipment is decontaminated by steam cleaning before being brought onsite. Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution, and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination. Drilling and sampling equipment are also steam cleaned between each boring in order to avoid cross-contamination between borings.

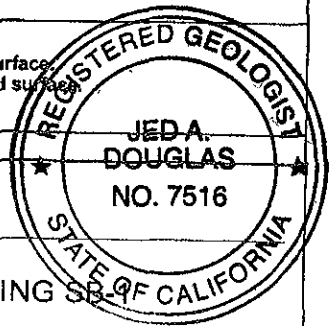
PROJECT NAME CONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA		
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN	DATE DRILLED: NOVEMBER 12, 2003	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 36.5	LOGGED BY: J. SMITH
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: S. DEFIBAUGH, R.G. 5626

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Asphalt surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5			7/8/8	0.0		CL	LEAN CLAY: dark yellowish brown (10YR 4/6); low plasticity; high dry strength; no dilatancy; high toughness; few coarse-grained sand; few fine gravel; moist; firm.
10			7/7/8	0.0		ML	LEAN CLAY with GRAVEL: little fine gravel.
15			3/8/8	0.0		SM	SILT with SAND: strong brown (7.5YR 4/6); no plasticity; high dry strength; no dilatancy; medium toughness; little fine gravel; moist; firm.
20			8/8/9	0.0		SM	SILTY SAND: strong brown (7.5YR 4/6); few fine gravel; moist; medium dense.
25			7/8/9	0.0		GM	SILTY GRAVEL with SAND: strong brown (7.5YR 4/6); fine gravel, subrounded; little silt; moist; medium dense.
30			7/8/9	0.0		CL	LEAN CLAY: strong brown (7.5YR 4/6); medium plasticity; high dry strength; no dilatancy; high toughness; few coarse-grained sand; moist; firm.
35		SB-1-31	10/11/11	0.0			Some fine-grained sand; few fine gravel; wet.
40							Boring terminated at 36.5 feet below ground surface. Groundwater observed at 35 feet below ground surface.

LOG OF BORING LBY BORELBL GPJ MBE.GDT 11/25/03

NOTES:
 = sample interval
 = laboratory sample
 = groundwater observed
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million


 JED A. DOUGLAS, R.G. 7516

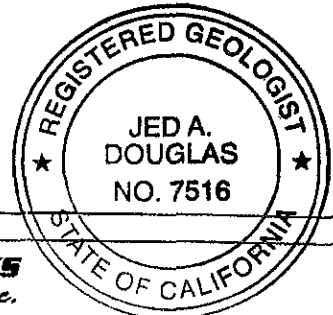


LOG OF BORING SB-1-31

PROJECT NUMBER 06-459-6129-01 PAGE 1 OF 1

PROJECT NAME: CONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA		
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN	DATE DRILLED: NOVEMBER 12, 2003	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 31.5	LOGGED BY: J. SMITH
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: S. DEFIBAUGH, R.G. 5626

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Asphalt surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5			8/8/9	0.0		CL	GRAVELLY LEAN CLAY: dark yellowish brown (10YR 4/4); medium plasticity; high dry strength; no dilatancy; medium toughness; few medium-grained sand; moist; firm.
10			7/8/8	0.0			High toughness.
15			6/7/8	0.0		SC	CLAYEY SAND with GRAVEL: yellowish brown (10YR 5/8); little fine gravel; moist; medium dense.
20			7/8/8	0.0			Brown (7.5YR 4/4); few fine gravel.
25		SB-3-26	8/8/9	0.0			Some fine gravel, subrounded.
30			7/7/7	0.0			Moist to very moist.
35							Boring terminated at 31.5 feet below ground surface. Groundwater not observed.
40							



NOTES:
 = sample interval
 = laboratory sample
 = groundwater observed
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million



[Signature]
 JED A. DOUGLAS, R.G. 7516

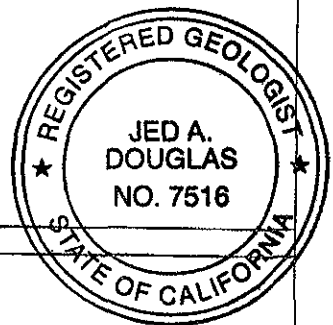
LOG OF BORING SB-3

PROJECT NUMBER 06-459-6129-01 PAGE 1 OF 1

LOG OF BORING 1BY BORELBL.GPJ MBE.GDT 11/25/03

PROJECT NAME: CONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA	
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN	DATE DRILLED: NOVEMBER 13, 2003
DRILLING METHOD: HOLLOW-STEM AUGER	BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 31.0	LOGGED BY: J. SMITH
SAMPLING METHOD: SPLIT-SPOON	HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: S. DEFIBAUGH, R.G. 5626

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Concrete surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5			8/8/8	0.0		SC	CLAYEY SAND with GRAVEL: dark yellowish brown (10YR 4/4); little fine gravel, subrounded; moist; medium dense.
10			7/7/8	0.0		CL	SANDY LEAN CLAY: dark yellowish brown (10YR 4/4); low plasticity; high dry strength; no dilatancy; high toughness; few fine gravel; moist; firm.
15			7/8/9	0.0		GC	CLAYEY GRAVEL with SAND: yellowish brown (10YR 5/6); some gravel, subrounded; moist; medium dense.
20			8/8/8	0.0		CL	Strong brown (7.5YR 4/6).
25		SB-4-26	7/9/9	0.0		CL	GRAVELLY LEAN CLAY with SAND: strong brown (7.5YR 4/6); low plasticity; high dry strength; no dilatancy; high toughness; moist; firm.
30			9/9/9	0.0		SC	CLAYEY SAND with GRAVEL: strong brown (7.5YR 4/6); few fine gravel; moist to very moist; medium dense.
31							Boring terminated at 31 feet below ground surface. Groundwater not observed.



NOTES:
 = groundwater observed
 = sample interval
 = laboratory sample
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million



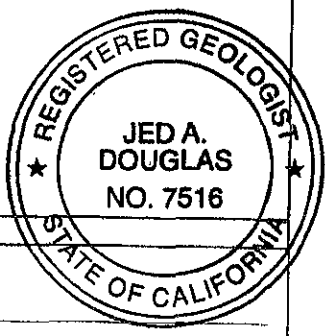
JED A. DOUGLAS, R.G. 7516

LOG OF BORING SB-4
 PROJECT NUMBER 06-459-6129-01
 PAGE 1 OF 1

LOG OF BORING_LBY_BORELEL.GPJ_MBE_GDT_11/25/03

PROJECT NAME: CONOCO PHILLIPS #6129		SITE LOCATION: 3420 35TH AVENUE, OAKLAND, CALIFORNIA		
DRILLING COMPANY: CASCADE	DRILL RIG: CME-75	DRILL CREW: KIKI, JASON, JUSTIN	DATE DRILLED: NOVEMBER 13, 2003	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8	TOTAL DEPTH OF BORING (FT): 31.5	LOGGED BY: J. SMITH
SAMPLING METHOD: SPLIT-SPOON	HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30		REVIEWED BY: S. DEFIBAUGH, R.G. 5626

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							Asphalt surface; hand-augered to 5 feet below ground surface. FILL: cobble.
5		7/7/8	0.0			CL	GRAVELLY LEAN CLAY: dark yellowish brown (10YR 4/4); high plasticity; high dry strength; no dilatancy; medium toughness; moist; firm.
10		6/6/7	0.0			CL	Medium plasticity; high toughness.
15		7/7/9	0.0			SC	CLAYEY SAND with GRAVEL: dark yellowish brown (10YR 4/6); few fine gravel; moist; medium dense.
20		9/11/11	0.0			CL	
25		10/10/10	0.0			CL	GRAVELLY LEAN CLAY: dark yellowish brown (10YR 4/4); low plasticity; high dry strength; no dilatancy; high toughness; few fine- to coarse-grained sand; moist; firm.
30		9/10/10	0.0			CL	
31.5	SB-5-31						Boring terminated at 31 feet below ground surface. Groundwater not observed.

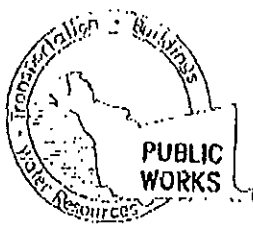


NOTES:
 □ = sample interval
 ▣ = laboratory sample
 ▼ = groundwater observed
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 ppm = parts per million



[Signature]
 JED A. DOUGLAS, R.G. 7516

LOG OF BORING LBV BORELBL GPJ MBE.GDT 11/25/03



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1919

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 76 station 6129
3420-35th Avenue
Oakland, CA

PERMIT NUMBER W03-0980
WELL NUMBER _____
APN _____

CLIENT Name CanocoPhillips
Address 76 Broadway Phone 415-558-7666
City Sacramento Zip 95818

APPLICANT Name Miller Brooks Environmental
Address 720 Scotts Point #207 Fax 707-765-0366
City Petaluma Phone 707-765-0866
Zip 94954

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

DRILLING METHOD
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Cascade Drilling
DRILLER'S LICENSE NO. C-57, 717510

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter		Depth	<u>ft.</u>
Surface Seal Depth		Owner's Well Number	

GEOTECHNICAL PROJECTS
Number of Borings 5 Maximum
Hole Diameter 8 in. Depth 20 ft

STARTING DATE 11-13-03
COMPLETION DATE 11-14-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

APPLICANT'S SIGNATURE [Signature] DATE 10-17-03
PLEASE PRINT NAME Jim Douglas Rev. 9-18-02

- PERMIT CONDITIONS
Circled Permit Requirements Apply
- A. GENERAL.
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
 - B. WATER SUPPLY WELLS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 - C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 - D. GEOTECHNICAL/Contamination

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind if ~~not compacted~~
 - E. CATHODIC

Fill hole annule zone with concrete placed by tremie.
 - F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.
 - G. OTHER CONDITIONS BA-1 Attached
- NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 10-28-03

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Miller Brooks

November 20, 2003

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954

Attn.: Jeremy Smith

Project#: 459-6129-01

Project: ConocoPhillips #6129

Site: 3420 35th Avenue, Oakland

Jeremy

Attached is our report for your samples received on 11/13/2003 17:00

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 12/28/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager



STL

Submission #: 2003-11-0502

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-5-31	11/13/2003 13:50	Soil	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/19/2003 16:53

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s):	1664	Test(s):	1664
Sample ID:	SB-5-31	Lab ID:	2003-11-0502-4
Sampled:	11/13/2003 13:50	Extracted:	11/18/2003 00:00
Matrix:	Soil	QC Batch#:	2003/11/18-01-23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	11/19/2003	

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 1664

Test(s): 1664

Method Blank

Soil

QC Batch # 2003/11/18-01-23

MB: 2003/11/18-01-23-001

Date Extracted: 11/18/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	11/18/2003	

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks
Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Soil

QC Batch # 2003/11/18-01.23

LCS 2003/11/18-01.23-002

Extracted: 11/18/2003

Analyzed: 11/19/2003

LCSD 2003/11/18-01.23-003

Extracted: 11/18/2003

Analyzed: 11/19/2003

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (Petroleum)	383	356	400	95.8	89.0	7.4	66-114	20		



STL

Submission #: 2003-11-0502

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	11/13/2003 11:40	Water	2
MW-1	11/13/2003 12:30	Water	3
MW-3	11/13/2003 14:05	Water	5

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/20/2003 11 58

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn : Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW-2 Lab ID: 2003-11-0502 - 2
 Sampled: 11/13/2003 11:40 Extracted: 11/18/2003 10:49
 Matrix: Water QC Batch#: 2003/11/18-1D 62
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	2000	ug/L	40.00	11/18/2003 10:49	
Benzene	ND	20	ug/L	40.00	11/18/2003 10:49	
Toluene	ND	20	ug/L	40.00	11/18/2003 10:49	
Ethylbenzene	ND	20	ug/L	40.00	11/18/2003 10:49	
Total xylenes	ND	40	ug/L	40.00	11/18/2003 10:49	
tert-Butyl alcohol (TBA)	ND	4000	ug/L	40.00	11/18/2003 10:49	
Methyl tert-butyl ether (MTBE)	2100	80	ug/L	40.00	11/18/2003 10:49	
Di-isopropyl Ether (DIPE)	ND	80	ug/L	40.00	11/18/2003 10:49	
Ethyl tert-butyl ether (ETBE)	ND	80	ug/L	40.00	11/18/2003 10:49	
tert-Amyl methyl ether (TAME)	ND	80	ug/L	40.00	11/18/2003 10:49	
1,2-DCA	ND	80	ug/L	40.00	11/18/2003 10:49	
EDB	ND	80	ug/L	40.00	11/18/2003 10:49	
Ethanol	ND	20000	ug/L	40.00	11/18/2003 10:49	
Surrogate(s)						
1,2-Dichloroethane-d4	93.3	76	%	40.00	11/18/2003 10:49	
Toluene-d8	104.7	88	%	40.00	11/18/2003 10:49	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s): 5030B Test(s): 8260B
Sample ID: MW-1 Lab ID: 2003-11-0502-3
Sampled: 11/13/2003 12:30 Extracted: 11/18/2003 11:11
Matrix: Water QC Batch#: 2003/11/18-1D/62
Analysis Flag: 0 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	180	100	ug/L	2.00	11/18/2003 11:11	g
Benzene	ND	1.0	ug/L	2.00	11/18/2003 11:11	
Toluene	ND	1.0	ug/L	2.00	11/18/2003 11:11	
Ethylbenzene	ND	1.0	ug/L	2.00	11/18/2003 11:11	
Total xylenes	ND	2.0	ug/L	2.00	11/18/2003 11:11	
tert-Butyl alcohol (TBA)	ND	200	ug/L	2.00	11/18/2003 11:11	
Methyl tert-butyl ether (MTBE)	240	4.0	ug/L	2.00	11/18/2003 11:11	
Di-isopropyl Ether (DIPE)	ND	4.0	ug/L	2.00	11/18/2003 11:11	
Ethyl tert-butyl ether (ETBE)	ND	4.0	ug/L	2.00	11/18/2003 11:11	
tert-Amyl methyl ether (TAME)	ND	4.0	ug/L	2.00	11/18/2003 11:11	
1,2-DCA	ND	4.0	ug/L	2.00	11/18/2003 11:11	
EDB	ND	4.0	ug/L	2.00	11/18/2003 11:11	
Ethanol	ND	1000	ug/L	2.00	11/18/2003 11:11	
Surrogate(s)						
1,2-Dichloroethane-d4	112.5	76	%	2.00	11/18/2003 11:11	
Toluene-d8	101.1	88	%	2.00	11/18/2003 11:11	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s): 5030B Test(s): 8260B
 Sample ID: MW-3 Lab ID: 2003-11-0502 -5
 Sampled: 11/13/2003 14:05 Extracted: 11/18/2003 13:02
 Matrix: Water QC Batch#: 2003/11/18-1D.62
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2600	2000	ug/L	40.00	11/18/2003 13:02	g
Benzene	ND	20	ug/L	40.00	11/18/2003 13:02	
Toluene	ND	20	ug/L	40.00	11/18/2003 13:02	
Ethylbenzene	ND	20	ug/L	40.00	11/18/2003 13:02	
Total xylenes	ND	40	ug/L	40.00	11/18/2003 13:02	
tert-Butyl alcohol (TBA)	ND	4000	ug/L	40.00	11/18/2003 13:02	
Methyl tert-butyl ether (MTBE)	3700	80	ug/L	40.00	11/18/2003 13:02	
Di-isopropyl Ether (DIPE)	ND	80	ug/L	40.00	11/18/2003 13:02	
Ethyl tert-butyl ether (ETBE)	ND	80	ug/L	40.00	11/18/2003 13:02	
tert-Amyl methyl ether (TAME)	ND	80	ug/L	40.00	11/18/2003 13:02	
1,2-DCA	ND	80	ug/L	40.00	11/18/2003 13:02	
EDB	ND	80	ug/L	40.00	11/18/2003 13:02	
Ethanol	ND	20000	ug/L	40.00	11/18/2003 13:02	
Surrogate(s)						
1,2-Dichloroethane-d4	96.4	76	%	40.00	11/18/2003 13:02	
Toluene-d8	100.2	88	%	40.00	11/18/2003 13:02	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2003/11/18-1D-62

MB: 2003/11/18-1D-62-005

Date Extracted: 11/18/2003 10:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/18/2003 10:05	
tert-Butyl alcohol (TBA)	ND	100	ug/L	11/18/2003 10:05	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	11/18/2003 10:05	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	11/18/2003 10:05	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	11/18/2003 10:05	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	11/18/2003 10:05	
1,2-DCA	ND	2.0	ug/L	11/18/2003 10:05	
EDB	ND	2.0	ug/L	11/18/2003 10:05	
Benzene	ND	0.5	ug/L	11/18/2003 10:05	
Toluene	ND	0.5	ug/L	11/18/2003 10:05	
Ethylbenzene	ND	0.5	ug/L	11/18/2003 10:05	
Total xylenes	ND	1.0	ug/L	11/18/2003 10:05	
Ethanol	ND	500	ug/L	11/18/2003 10:05	
Surrogates(s)					
1,2-Dichloroethane-d4	91.5	76-114	%	11/18/2003 10:05	
Toluene-d8	98.9	88-110	%	11/18/2003 10:05	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks
Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Water

QC Batch # 2003/11/18-1D.62

LCS 2003/11/18-1D.62-020

Extracted: 11/18/2003

Analyzed: 11/18/2003 09:20

LCSD 2003/11/18-1D.62-043

Extracted: 11/18/2003

Analyzed: 11/18/2003 09:43

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.0	21.1	25	80.0	84.4	5.4	65-165	20		
Benzene	21.6	24.3	25	86.4	97.2	11.8	69-129	20		
Toluene	23.9	25.3	25	95.6	101.2	5.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	464	469	500	92.8	93.8		76-114			
Toluene-d8	481	503	500	96.2	100.6		88-110			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/20/2003 11:58

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-5-31	11/13/2003 13:50	Soil	4

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SB-5-31	Lab ID:	2003-11-0502 - 4
Sampled:	11/13/2003 13:50	Extracted:	11/15/2003 08:07
Matrix:	Soil	QC Batch#:	2003/11/15-01/15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	5.8	1.0	mg/Kg	1.00	11/16/2003 16:26	

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 3050B

Method Blank

MB: 2003/11/15-01.15-011

Soil

Test(s): 6010B

QC Batch # 2003/11/15-01:15

Date Extracted: 11/15/2003 08:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/17/2003 08:45	

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike

Soil

QC Batch # 2003/11/15-01.15

LCS 2003/11/15-01.15-012

Extracted: 11/15/2003

Analyzed: 11/17/2003 08:49

LCSD 2003/11/15-01.15-013

Extracted: 11/15/2003

Analyzed: 11/17/2003 08:55

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Lead	99.6	102	100.0	99.6	102.0	2.4	80-120	20		

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA 94954

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-4-26	11/13/2003 10:45	Soil	1
SB-5-31	11/13/2003 13:50	Soil	4

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-4-26	Lab ID:	2003-11-0502 - 1
Sampled:	11/13/2003 10:46	Extracted:	11/15/2003 16:50
Matrix:	Soil	QC Batch#:	2003/11/15-01-89

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/15/2003 15:50	
Benzene	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
Toluene	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
Total xylenes	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
tert-Butyl alcohol (TBA)	ND	10	ug/Kg	1.00	11/15/2003 15:50	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/15/2003 15:50	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
1,2-DCA	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
EDB	ND	5.0	ug/Kg	1.00	11/15/2003 15:50	
Ethanol	ND	100	ug/Kg	1.00	11/15/2003 15:50	
Surrogate(s)						
1,2-Dichloroethane-d4	91.8	70	%	1.00	11/15/2003 15:50	
Toluene-d8	90.1	81	%	1.00	11/15/2003 15:50	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-5-31	Lab ID:	2003-11-0502-4
Sampled:	11/13/2003 13:50	Extracted:	11/15/2003 16:08
Matrix:	Soil	QC Batch#:	2003/11/15-0169

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	11/15/2003 16:08	
Benzene	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
Toluene	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
Ethyl benzene	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
Total xylenes	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
tert-Butyl alcohol (TBA)	ND	10	ug/Kg	1.00	11/15/2003 16:08	
Methyl tert-butyl ether (MTBE)	55	5.0	ug/Kg	1.00	11/15/2003 16:08	
Di-isopropyl Ether (DIPE)	ND	10	ug/Kg	1.00	11/15/2003 16:08	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
1,2-DCA	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
EDB	ND	5.0	ug/Kg	1.00	11/15/2003 16:08	
Ethanol	ND	100	ug/Kg	1.00	11/15/2003 16:08	
Surrogate(s)						
1,2-Dichloroethane-d4	88.7	70	%	1.00	11/15/2003 16:08	
Toluene-d8	90.0	81	%	1.00	11/15/2003 16:08	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/11/15:01:69:020

Soil

Test(s): 8260B

QC Batch # 2003/11/15:01:69

Date Extracted: 11/15/2003 10:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	11/15/2003 10:20	
Benzene	ND	5.0	ug/Kg	11/15/2003 10:20	
Toluene	ND	5.0	ug/Kg	11/15/2003 10:20	
Ethyl benzene	ND	5.0	ug/Kg	11/15/2003 10:20	
Total xylenes	ND	5.0	ug/Kg	11/15/2003 10:20	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	11/15/2003 10:20	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	11/15/2003 10:20	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	11/15/2003 10:20	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	11/15/2003 10:20	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	11/15/2003 10:20	
1,2-DCA	ND	5.0	ug/Kg	11/15/2003 10:20	
EDB	ND	5.0	ug/Kg	11/15/2003 10:20	
Ethanol	ND	100	ug/Kg	11/15/2003 10:20	
Surrogates(s)					
1,2-Dichloroethane-d4	87.4	70-121	%	11/15/2003 10:20	
Toluene-d8	86.7	81-117	%	11/15/2003 10:20	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks
Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
ConocoPhillips #6129

Received: 11/13/2003 17:00

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/11/15-01.69

LCS 2003/11/15-01.69-043

Extracted: 11/15/2003

Analyzed: 11/15/2003 09:43

LCSD 2003/11/15-01.69-002

Extracted: 11/15/2003

Analyzed: 11/15/2003 10:02

Compound	Conc.		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	48.5	52.8	50.0	97.0	105.6	8.5	69-129	20		
Toluene	52.3	55.5	50.0	104.6	111.0	5.9	70-130	20		
Methyl tert-butyl ether (MTBE)	59.1	56.8	50.0	118.2	113.6	4.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	542	472	500	108.4	94.4		70-121			
Toluene-d8	488	508	500	97.6	101.6		81-117			

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 11 - 0502

Checklist completed by: (initials) ASH Date: 11/14/03

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples Yes ___ No ___ Not Present

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 3.5°C Yes No ___

Ice Present Yes No ___

Water - VOA vials have zero headspace? No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Andrew Stow
P.O. Box 2197
Houston, TX 77252-2197

ConocoPhillips Work Order Number:
ConocoPhillips Cost Object:

DATE: 11-13-03
PAGE: 1 of 1

SAMPLING COMPANY:
Miller Brooks Env. Inc.
ADDRESS:
720 Southpoint Blvd. Suite 207
PROJECT CONTACT (Hardcopy or PDF Report to):
Jeremy Smith
TELEPHONE:
707-765-0466
FAX:
707-765-0366
E-MAIL:
jsmith@millerbrooksenv.com
SAMPLER NAME(S) (Print):
Jeremy Smith
CONSULTANT PROJECT NUMBER:
459-6129-01

Valid Value ID:
CONOCOPHILLIPS SITE NUMBER:
6129
GLOBAL ID NO.:
SITE ADDRESS (Street and City):
3420 35th Avenue, Oakland
CONOCOPHILLIPS SITE MANAGER:
David DeWitt
EDF DELIVERABLE TO (RP or Designee):
Jed Douglas
PHONE NO:
707-765-0466
E-MAIL:
jdouglas@millerbrooksenv.com
LAB USE ONLY

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
Due Diligence Project

REQUESTED ANALYSES

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 <input type="checkbox"/> Total (6010)	TRPH EPA Method 1664	TBA, TAME, DIPE, ETBE, Ethanol (8260)
	X						NO	X	
	X							X	
	X							X	
	X					X	X	X	
	X							X	

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes
3.5°C
TEMPERATURE ON RECEIPT C°

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	SB-4-26	11/13	10:45	Soil	1
	MW-2	11/13	11:40	Water	4
	MW-1	11/13	12:30	Water	4
	SB-5-31	11/13	13:50	Soil	1
	MW-3	11/13	19:05	Water	4

Relinquished by (Signature):
[Signature]
Relinquished by (Signature):
[Signature]
Relinquished by (Signature):
[Signature]

Received by (Signature):
[Signature]
Received by (Signature):
Nenise Harrington / STL-SF
Received by (Signature):
[Signature]

Date:
11/13/03
Time:
4:10
Date:
11/13/03
Time:
17:00
Date:
11/13/03
Time:

Miller Brooks

November 21, 2003

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954

Attn.: Jeremy Smith
Project#: 459-6129-01
Project: Conoco Phillips #6129
Site: 3420 35th Avenue, Oakland

Jeremy

Attached is our report for your samples received on 11/12/2003 16:45
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
12/27/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA 94954

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1-31	11/12/2003 12:15	Soil	1
SB-3-26	11/12/2003 16:00	Soil	2

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-1-31	Lab ID:	2003-11-0433-1
Sampled:	11/12/2003 12:15	Extracted:	11/15/2003 12:43
Matrix:	Soil	QC Batch#:	2003/11/15-01-69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	3400	ug/Kg	3.40	11/15/2003 12:43	
Benzene	ND	17	ug/Kg	3.40	11/15/2003 12:43	
Toluene	ND	17	ug/Kg	3.40	11/15/2003 12:43	
Ethyl benzene	ND	17	ug/Kg	3.40	11/15/2003 12:43	
Total xylenes	ND	17	ug/Kg	3.40	11/15/2003 12:43	
tert-Butyl alcohol (TBA)	ND	34	ug/Kg	3.40	11/15/2003 12:43	
Methyl tert-butyl ether (MTBE)	410	17	ug/Kg	3.40	11/15/2003 12:43	
Di-isopropyl Ether (DIPE)	ND	34	ug/Kg	3.40	11/15/2003 12:43	
Ethyl tert-butyl ether (ETBE)	ND	17	ug/Kg	3.40	11/15/2003 12:43	
tert-Amyl methyl ether (TAME)	ND	17	ug/Kg	3.40	11/15/2003 12:43	
Ethanol	ND	340	ug/Kg	3.40	11/15/2003 12:43	
Surrogate(s)						
1,2-Dichloroethane-d4	86.2	70	%	3.40	11/15/2003 12:43	
Toluene-d8	84.0	81	%	3.40	11/15/2003 12:43	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Prep(s): 5030B Test(s): 8260B
Sample ID: SB-3-26 Lab ID: 2003-11-0433 - 2
Sampled: 11/12/2003 16:00 Extracted: 11/15/2003 13:03
Matrix: Soil QC Batch#: 2003/11/15-0169

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	3500	ug/Kg	3.50	11/15/2003 13:03	
Benzene	ND	17	ug/Kg	3.50	11/15/2003 13:03	
Toluene	ND	17	ug/Kg	3.50	11/15/2003 13:03	
Ethyl benzene	ND	17	ug/Kg	3.50	11/15/2003 13:03	
Total xylenes	ND	17	ug/Kg	3.50	11/15/2003 13:03	
tert-Butyl alcohol (TBA)	ND	35	ug/Kg	3.50	11/15/2003 13:03	
Methyl tert-butyl ether (MTBE)	370	17	ug/Kg	3.50	11/15/2003 13:03	
Di-isopropyl Ether (DIPE)	ND	35	ug/Kg	3.50	11/15/2003 13:03	
Ethyl tert-butyl ether (ETBE)	ND	17	ug/Kg	3.50	11/15/2003 13:03	
tert-Amyl methyl ether (TAME)	ND	17	ug/Kg	3.50	11/15/2003 13:03	
Ethanol	ND	350	ug/Kg	3.50	11/15/2003 13:03	
Surrogate(s)						
1,2-Dichloroethane-d4	88.4	70	%	3.50	11/15/2003 13:03	
Toluene-d8	93.7	81	%	3.50	11/15/2003 13:03	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA 94954

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Method: Blank

MB: 2003/11/15-01:69-020

Soil

Test(s): 8260B

QC Batch #: 2003/11/15-01:69

Date Extracted: 11/15/2003 10:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	11/15/2003 10:20	
Benzene	ND	5.0	ug/Kg	11/15/2003 10:20	
Toluene	ND	5.0	ug/Kg	11/15/2003 10:20	
Ethyl benzene	ND	5.0	ug/Kg	11/15/2003 10:20	
Total xylenes	ND	5.0	ug/Kg	11/15/2003 10:20	
tert-Butyl alcohol (TBA)	ND	10.0	ug/Kg	11/15/2003 10:20	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	11/15/2003 10:20	
Di-isopropyl Ether (DIPE)	ND	10.0	ug/Kg	11/15/2003 10:20	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/Kg	11/15/2003 10:20	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/Kg	11/15/2003 10:20	
Ethanol	ND	100	ug/Kg	11/15/2003 10:20	
Surrogates(s)					
1,2-Dichloroethane-d4	87.4	70-121	%	11/15/2003 10:20	
Toluene-d8	86.7	81-117	%	11/15/2003 10:20	

Gas/BTEX Fuel Oxygenates by 8260B

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/11/15-01.69

LCS 2003/11/15-01.69-043

Extracted: 11/15/2003

Analyzed: 11/15/2003 09:43

LCSD 2003/11/15-01.69-002

Extracted: 11/15/2003

Analyzed: 11/15/2003 10:02

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %			Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD	
Benzene	48.5	52.8	50.0	97.0	105.6	8.5	69-129	20			
Toluene	52.3	55.5	50.0	104.6	111.0	5.9	70-130	20			
Methyl tert-butyl ether (MTBE)	59.1	56.8	50.0	118.2	113.6	4.0	65-165	20			
Surrogates(s)											
1,2-Dichloroethane-d4	542	472	500	108.4	94.4		70-121				
Toluene-d8	488	508	500	97.6	101.6		81-117				



STL

Submission #: 2003-11-0433

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1-31	11/12/2003 12:15	Soil	1

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
 Petaluma, CA 94954
 Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
 Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Prep(s):	1664	Test(s):	1664
Sample ID:	SB-1-31	Lab ID:	2003-11-0433-1
Sampled:	11/12/2003 12:15	Extracted:	11/21/2003 00:00
Matrix:	Soil	QC Batch#:	2003/11/21-02/23
Analysis Flag: , (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	11/21/2003	

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 1664

Method: Blank

MB: 2003/11/21-02:23-001

Soil

Test(s): 1664

QC Batch # 2003/11/21-02:23

Date Extracted: 11/21/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	11/21/2003	

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
 Petaluma, CA 94954
 Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
 Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Soil

QC Batch # 2003/11/21-02.23

LCS 2003/11/21-02.23-002

Extracted: 11/21/2003

Analyzed: 11/21/2003

LCSD 2003/11/21-02.23-003

Extracted: 11/21/2003

Analyzed: 11/21/2003

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (Petroleum)	388	394	400	97.0	98.5	1.5	66-114	20		

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 1664 Test(s): 1664

Matrix Spike (MS / MSD) Soil QC Batch # 2003/11/21-02.23

SB-1-31 >> MS Lab ID: 2003-11-0433-001

MS: 2003/11/21-02.23-004 Extracted: 11/21/2003 Analyzed: 11/21/2003

Dilution: 1.00

MSD: 2003/11/21-02.23-005 Extracted: 11/21/2003 Analyzed: 11/21/2003

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Oil & Grease (Petroleum)	407	251	ND	400	101.8	62.8	47.4	86-114	20		msd

Oil & Grease (Petroleum) by EPA 1664

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA 94954

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Legend and Notes

Result Flag

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.
Precision and Accuracy were verified by LCS/LCSD.



STL

Submission #: 2003-11-0433

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207

Petaluma, CA 94954

Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01

Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-1-31	11/12/2003 12:15	Soil	1

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/21/2003 16:59

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
 Petaluma, CA 94954
 Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
 Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SB-1-31	Lab ID:	2003-11-0433 - 1
Sampled:	11/12/2003 12:15	Extracted:	11/20/2003 18:24
Matrix:	Soil	QC Batch#:	2003/11/20-08:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	1.0	mg/Kg	1.00	11/21/2003 14:09	

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 3050B

Method Blank

MB: 2003/11/20-08:15-044

Soil

Test(s): 6010B

QC Batch # 2003/11/20-08:15

Date Extracted: 11/20/2003 18:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	11/21/2003 13:46	

Total Lead

Miller Brooks

Attn.: Jeremy Smith

720 Southpoint Blvd., Suite 207
Petaluma, CA 94954
Phone: (707) 765-0466 Fax: (707) 765-0366

Project: 459-6129-01
Conoco Phillips #6129

Received: 11/12/2003 16:45

Site: 3420 35th Avenue, Oakland

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike

Soil

QC Batch # 2003/11/20-08.15

LCS 2003/11/20-08.15-047

Extracted: 11/20/2003

Analyzed: 11/21/2003 14:00

LCSD 2003/11/20-08.15-048

Extracted: 11/20/2003

Analyzed: 11/21/2003 14:04

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	93.6	94.7	100.0	93.6	94.7	1.2	80-120	20		

STL-San Francisco

ConocoPhillips Chain Of Custody Record

80167

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS
Attn: Andrew Stow
P.O. Box 2197
Houston, TX 77252-2197

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 11-12-03

PAGE: 1 of 1

SAMPLING COMPANY: Miller Brooks Env. Inc.		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 6129		GLOBAL ID NO.:
ADDRESS: 720 Southpoint Blvd. Suite 207		SITE ADDRESS (Street and City): 3420 35th Avenue, Oakland			CONOCOPHILLIPS SITE MANAGER: David DeWitt
PROJECT CONTACT (Hardcopy or PDF Report to): Jeremy Smith		EDF DELIVERABLE TO (RP or Designee): Jed Douglas		PHONE NO.: 707-765-0466	E-MAIL: jdouglas@millerbrooksenv.com
TELEPHONE: 707-765-0466	FAX: 707-765-0366	E-MAIL: jsmith@millerbrooksenv.com	LAB USE ONLY:		
SAMPLER NAME(S) (Print): Jeremy Smith		CONSULTANT PROJECT NUMBER: 459-6129-01			

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 <input type="checkbox"/> Total (6010)	TRPH EPA Method 1664	TBA, TAME, DIPE, ETBE, Ethanol (8260)
	X						X		X
	X						X		X

REQUESTED ANALYSES

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

Due Diligence Project

FIELD NOTES:

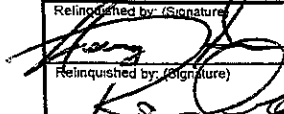
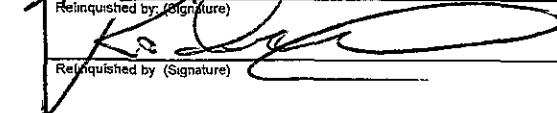
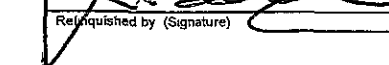
Container/Preservative
or PID Readings
or Laboratory Notes

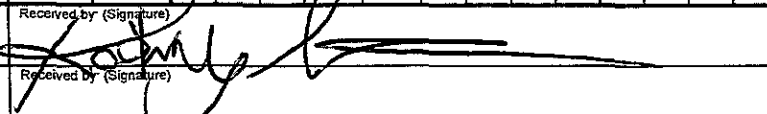
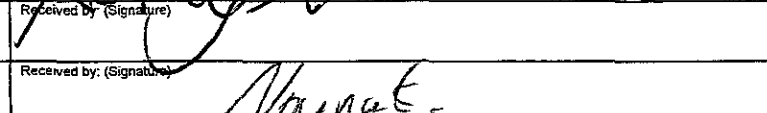
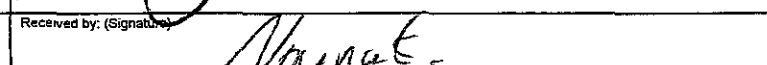
4.7°C

TEMPERATURE ON RECEIPT °C

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	SB-1-31	11/12	12:15	Soil	1
	SB-3-26	11/12	4:00	Soil	1

Relinquished by (Signature): 
 Relinquished by (Signature): 
 Relinquished by (Signature): 

Received by (Signature): 
 Received by (Signature): 
 Received by (Signature): 

Date: 11-12-03	Time: 16:00
Date: 11-12-03	Time: 16:45
Date: 11/12/03	Time: 16:45

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 11 - 0433

Checklist completed by: (initials) MV Date: 11, 13/03

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples Yes ___ No ___ Not Present

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 4.7°C Yes No ___

Ice Present Yes No ___

Water - VOA vials have zero headspace? No VOA vials submitted Yes ___ No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No SOIL

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: _____

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/03

Client contacted: Yes No

Summary of discussion: _____

Corrective Action (per PM/Client): _____

