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9:25 am, May 01, 2009

Alameda County Environmental Health



Atlantic Richfield Company (a BP affiliated company)

P.O. Box 1257 San Ramon, California 94583 Phone: (925) 275-3801 Fax: (925) 275-3815

30 April 2009

Re: On-Site Soil Investigation with Preferential Pathway Evaluation Report Former BP Service Station # 11270 3255 Mecartney Road Alameda, California ACEH Case #RO0000511

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Sarl Suppl

Paul Supple Environmental Business Manager

Prepared for

Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583

Prepared by

BROADBENT & ASSOCIATES, INC. ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

30 April 2009

Project No. 06-88-661

On-Site Soil Investigation with Preferential Pathway Evaluation Report Former BP Service Station #11270 3255 Mecartney Road Alameda, California



30 April 2009

Project No. 06-88-661

Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583 Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: On-site Soil Investigation with Preferential Pathway Evaluation Report Former BP Service Station #11270, 3255 Mecartney Road, Oakland, California; ACEH Case #RO0000511

Dear Mr. Supple:

Broadbent and Associates, Inc. is pleased to submit this On-site Soil Investigation with Preferential Pathway Evaluation Report for former BP Service Station #11270 (herein referred to as Station #11270) located at 3255 Mecartney Road, Oakland, California (Site). This report presents a description of activities conducted during investigations at the Site through the First Quarter of 2009.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E. Senior Engineer

Autor 21 Mill

Robert H. Miller, P.G., C.HG Principal Hydrogeologist

Enclosure



cc: Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site) Electronic copy uploaded to GeoTracker

ON-SITE SOIL INVESTIGATION WITH PREFERENTIAL PATHWAY EVALUATION REPORT

Former BP Service Station #11270 3255 Mecartney Road Oakland, California

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Drawing 2	Site Map with Utility Locations

APPENDICES

- Appendix A Recent Regulatory Correspondence
- Stratus Site Investigation Data Package (Includes Field Notes, Well Permit, and Appendix B Site Plan)

Page

ON-SITE SOIL INVESTIGATION WITH PREFERENTIAL PATHWAY EVALUATION REPORT

Former BP Service Station #11270 3255 Mecartney Road Oakland, California

1.0 INTRODUCTION

Broadbent & Associates, Inc. (BAI) is pleased to present this *On-Site Soil Investigation with Preferential Pathway Evaluation Report* for the Former BP Service Station No.11270, located at 3255 Mecartney Road, Oakland, California (Site). BAI prepared this report in response to direction from Mr. Paresh Khatri of Alameda County Environmental Health (ACEH). Specifically, the on-site soil investigation was originally requested in the ACEH letter dated 21 August 2008. In the ACEH letter dated16 January 2009, Mr. Khatri approved with comments the previously submitted Work Plan for On-Site Soil Investigation with Private Well Survey (BAI, 10/20/2008). Difficulties acquiring historic building plans and utility drawings delayed the preferential pathway evaluation originally requested within the ACEH letter dated 21 August 2008. Copies of recent regulatory correspondence for this Site are contained in Appendix A. By virtue of its timing, this submittal will also represent the First Quarter 2009 Status Report.

2.0 SITE BACKGROUND

The Site is an active 76-brand gasoline retail outlet located at 3255 Mecartney Road, in Oakland, California (Drawing 1 and Drawing 2). The land use in the immediate vicinity of the Site is mixed commercial and residential. The Site consists of a station building, three gasoline USTs, two pump islands, and a service bay with two hoists. The Site is predominantly covered with concrete and asphalt. Numerous subsurface investigations and remedial activities have been conducted on-site since 1990. A comprehensive Site history can be found within the *Work Plan for On-Site Soil Investigation with Private Well Survey* (BAI, 10/20/2008) as submitted to GeoTracker and Alameda County Environmental Health Services (ACEH).

3.0 FIELD ACTIVITIES PERFORMED

The on-site soil investigation was attempted to assess the presence of residual petroleum hydrocarbon-impacted soil on-site in the vicinity of the UST complex and the pump islands. Prior to initiating field activities, Stratus Environmental Inc. (Stratus), under direct contract to BP, obtained the necessary well drilling permits from the Alameda County Public Works Agency (See Appendix B), prepared a site health and safety plan specific to the work scope; and cleared the Site for subsurface utilities. The utility clearance included notifying Underground Service Alert of the work a minimum of 48 hours prior to initiating the field investigation, and additionally securing the services of Cruz Brothers, a private utility locating company to confirm the absence of underground utilities at each boring location.

On 13 February 2009, Stratus oversaw RSI Drilling, Inc. utilize air knifing technology to clear proposed boring B-4. During air knifing activities, sandy soil was observed immediately beneath the concrete driving surface and pea gravel was encountered at approximately one foot bgs. Following this discovery, drilling activities ceased in accordance with safety requirements of BP. While considering alternative boring locations that might meet the investigation objectives, Stratus met with the manager of the service station, who has operated this facility for 24 years. The station manager informed Stratus that during original construction, a large area of the

subsurface soil was excavated from the Site and backfilled with pea gravel (a rough sketch of this area is provided within the field data package in Appendix B). Since the boring locations were proposed to be within this extensive area of pea gravel, and the presence of pea gravel was confirmed by Stratus and RSI Drilling Inc. personnel, the proposed scope of work could not be completed due to BP's safety policy prohibiting ground disturbance within pea gravel.

4.0 PREFERENTIAL PATHWAY EVALUATION STUDY

A preferential pathway evaluation was requested by ACEH in their letter dated 21 August 2008. Contact was made with various agencies to acquire plans, where possible, of subsurface utilities in the area of the Site. A significant delay was encountered in acquiring copies of the original building plans for the station from the City of Alameda Building Department. Other agencies contacted included the City of Alameda Engineering Department (for sanitary sewer and storm drain utilities), East Bay Municipal Utility District (EBMUD – for potable water distribution pipelines), Pacific Gas & Electric Company (natural gas pipelines), AT&T (telephone), and Alameda Power and Telecom in order to evaluate underground utilities located on or near the Site that could potentially act as preferential migration pathways for contamination.

Owing to the low elevation of Alameda in general and Harbor Bay Isle specifically, most utilities are buried at shallow depths. In the area of the Site, storm drain drop inlets are at street grade within the driveways for the station and shopping center with a shallow (invert 4.1 feet bgs) 12-inch diameter reinforced concrete storm drain pipeline leading north to the Harbor Bay Isle lagoon behind the shopping center. The 8-inch vitrified clay pipe sanitary sewer in the area of the Site runs under the shopping center driveway out into Mecartney Road at approximately 6.8 ft bgs (invert at manhole just west of station driveway). Although the station building plans show the sanitary pipeline underneath the station building, they do not show the location of the lateral pipeline run to the sanitary collection sewer, or the depth of the lateral pipeline. Similarly, the location of the water pipeline through the Site to the station building is not shown in the station building plans. A map provided by EBMUD did show the water service meter for the station just south of the hydrant along the shopping center driveway. However, the EBMUD map and City of Alameda Engineering Division maps did not provide the depths of the utilities or the backfill material used to fill the trenches. Although not specified, typical construction would use uniform sand or gravel backfill within the sewer, storm drain, and water pipeline trenches. AT&T would not provide a definite depth of their utilities or backfill material used to fill trenches due to company policy. However, AT&T stated that a standard trench should have been installed approximately 24 inches bgs. PG&E stated that their utilities are usually located at a depth of approximately 36 inches bgs, but did not provide information regarding the backfill material used to fill the trenches. To the extent known, underground utilities in the vicinity of the Site are shown in Drawing 2.

The potential depth of utility conduits found in the area surrounding the Site range from two to seven feet bgs. Depth to ground water from monitor wells on the Site has historically ranged from 5.24 feet to 9.15 feet below surveyed monitoring well measuring points. Based on incomplete information and the fact that underground utilities do exist in the area, it is inconclusive whether utility conduits could have provided preferential paths for the flow of impacted ground water from the Site.

5.0 QUARTERLY STATUS UPDATE

Due to a change in consultant, future environmental work at the Site will be managed by Delta Environmental Consultants, Inc.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Investigation activities were attempted in accordance with the *Work Plan for On-Site Soil Investigation with Private Well Survey* dated 20 October 2008, as approved with comments by the ACEH in their letter dated 21 August 2008. Based on the findings of this investigation, BAI concludes the following:

- Due to the extensive presence of pea gravel beneath the ground surface across the Site, the on-site subsurface soil investigation could not be conducted and hence residual hydrocarbon contamination levels could not be ascertained.
- Underground utilities are present on-site and in the immediate vicinity off-site. Based on the provided depths of the EBMUD, AT&T and PG&E utilities, which are higher than historic minimum ground-water levels, it is unlikely that these utilities could act as a preferential pathway for contaminant migration from the Site. It is inconclusive whether the sanitary sewer or storm drain utilities present on-site and off-site could potentially provide a preferential path for the flow of impacted ground water from the Site.

6.2 Recommendations

Based on the findings and conclusions presented above, BAI makes the following recommendations:

• Case closure review by ACEH should proceed but without data concerning residual hydrocarbon contamination to soil in the western portion of the Site.

7.0 CLOSURE

The findings presented in this document are based upon: observation of field personnel from previous consultants, the points investigated, and results of laboratory tests performed by various laboratories. Our services were performed in accordance with the generally accepted standard of practice at the time this document was written. No other warranty, expressed on implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

8.0 **REFERENCES**

- Alameda County Environmental Health, 21 August 2008. Fuel Leak Case No. RO0000511 and Geotracker Global ID T0600101198, BP #11270, 3255 Mecartney Road, Alameda, CA 94501. Directive letter to Atlantic Richfield Company.
- Alameda County Environmental Health, 16 January 2009. Fuel Leak Case No. RO0000511 and Geotracker Global ID T0600101198, BP #11270, 3255 Mecartney Road, Alameda, CA 94501. Directive letter to Atlantic Richfield Company.
- Broadbent & Associates, Inc., 20 October 2008. Work Plan for On-Site Soil Investigation with Private Well Survey, Former BP Service Station No. 11270, 3255 Mecartney Road, Alameda, California.
- City of Alameda, Engineering Division, undated. Sanitary Sewer Map Book, Pages 89 and 90.
- City of Alameda, Engineering Division, undated. Storm Drain Map Book, Pages 89 and 90.
- East Bay Municipal Utility District, Engineering Services Division, 16 January 2009. Portion of Map 1494B454 showing water utility facilities for 3255 Mecartney Road, Alameda and vicinity. Prepared by P.Quiachon (EBMUD) for S.Barkeley (BAI).
- Mobil Oil Corporation, Western Region, Marketing Operations Department, 17 July 1980. Building Plans for (3255) Mecartney & Island, Alameda, Calif. Job No.B80-1233.
- Pacific Gas & Electric Company, 3 February 2009. Personal telephone conversation between Lenny Lee (PG&E) and Sam Barkley (BAI).





APPENDIX A

RECENT REGULATORY CORRESPONDENCE

ALAMEDA COUNTY HEALTH CARE SERVICES



RECEIVED

AUG 2 5 2008

DAVID J. KEARS, Agency Director

AGENCY

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

BY:

August 21, 2008

Paul Supple Atlantic Richfield Company (A BP Affiliated Company) P.O. Box 1257 San Ramon, CA 94583 Terry Grayson ConocoPhillips 76 Broadway Sacramento, CA 95818

Ping Liu Chien Harbor Bay Landing, LLC. P.O. Box 117610 Burlingame, CA 93950

Subject: Fuel Leak Case No. RO0000511 and Geotracker Global ID T0600101198, BP #11270, 3255 Mecartney Road, Alameda, CA 94501

Dear Mr. Supple:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the abovereferenced site including the document entitled, "Case Closure Summary," dated October 27, 2004, which was prepared by URS Corporation for the subject site. URS submitted the case closure summary to assist in ACEH's case closure evaluation for the site. In the closure summary, URS stated that the elevated residual total petroleum hydrocarbons (TPH) as gasoline (g) and benzene concentrations of 860 mg/kg and 5 mg/kg, respectively, in soil at eight feet below the ground surface (bgs) should not pose a risk to on-site workers based on a risk assessment conducted by Foster Wheeler Environmental Corporation (Foster Wheeler) for the subject site. However, Foster Wheeler also stated that risks to potential hypothetical future residents are exceeded. Based on the analytical data, the site appears to pose a significant risk to human health and the environment and hence, the case closure does not appear adequately justified for the site. In addition, ACEH's review has identified a few data gaps, which are summarized below, that need to be addressed prior to case closure evaluation.

Therefore, ACEH cannot consider case closure for the subject site at this time. This decision to deny closure is subject to appeal to the State Water Resources Control Board (SWRCB), pursuant to Section 25299.39.2(b) of the Health and Safety Code (Thompson-Richter Underground Storage Tank Reform Act - Senate Bill 562). Please contact the SWRCB Underground Storage Tank Program at (916) 341-5851 for information regarding the appeal process.

ACEH requests that you address the following technical comments and send us the technical reports requested below.

Mr. Supple RO0000511 August 21, Page 2

TECHNICAL COMMENTS

- 1. <u>Residual Hydrocarbons in Soil</u> As stated above, elevated residual TPH-g and benzene concentrations of 860 mg/kg and 5 mg/kg, respectively, were detected in the soil at eight feet bgs. However, in another sidewall sample SW1 collected at 4.5 feet bgs, TPH-g and benzene were detected at 2,000 mg/kg and 18 mg/kg, respectively. It is not clear whether this sidewall was over-excavated or that the concentration of TPH-g and benzene remains in place. The limits of the excavation depicted on Figure 1 of the above-mentioned report appears to indicated that SW1 is the sidewall soil sample collected from the 1 to 4.5 feet excavation conducted between the two dispenser islands, while SW3 is the sidewall sample collected from the 8.5 feet excavation. In Table 1 of the above-mentioned report, all the soil samples are listed and are not differentiated as excavation and/or over-excavation soil samples. Therefore, it is reasonable to assume that concentrations up to 2,000 mg/kg TPH-g and 18 mg/kg benzene remain in place. Also, based on the soil analytical data, the vertical extent of contamination appears undefined since 860 mg/kg TPH-g and 5 mg/kg benzene was detected at 8 feet bgs. Please propose a scope of work to address the above-mentioned concerns and submit a work plan by the date specified below.
- 2. Preferential Pathway Study- Depth to groundwater at the site has ranged between 5 to 9 feet below the ground surface (bgs). Since groundwater is relatively shallow at the site, a preferential pathway evaluation appears prudent. The purpose of the preferential pathway study is to locate potential migration pathways and conduits and determine the probability of the NAPL and/or plume encountering preferential pathways and conduits that could spread contamination. Since significantly elevated concentrations of MtBE were detected in 1998 in groundwater monitoring well MW-6, we request that you perform a preferential pathway study that details the potential migration pathways and potential conduits (wells, utilities, pipelines, etc.) for vertical and lateral migration that may be present in the vicinity of the site.

Discuss your analysis and interpretation of the results of the preferential pathway study (including the well survey and utility survey requested below) and report your results in the Soil and Groundwater Investigation Work Plan requested below. The results of your study shall contain all information required by California Code of Regulations, Title 23, Division 3, Chapter 16, §2654(b).

a. Utility Survey

An evaluation of all utility lines and trenches (including sewers, storm drains, pipelines, trench backfill, etc.) within and near the site and plume area(s) is required as part of your study. Please include maps and cross-sections illustrating the location and depth of all utility lines and trenches within and near the site and plume areas(s) as part of your study.

b. Well Survey

A well survey was conducted in November 1992. Since several years have lapsed since the survey was conducted, it appears prudent to obtain current data regarding potential sensitive receptors. Please note that the preferential pathway evaluation shall include a detailed well survey of all wells (monitoring and production wells: active, inactive, standby, decommissioned (sealed with concrete), abandoned (improperly decommissioned or lost); and dewatering, drainage, and cathodic protection wells) within a ¼ mile radius of the subject

site. As part of your detailed well survey, please perform a background study of the historical land uses of the site and properties in the vicinity of the site. Use the results of your background study to determine the existence of unrecorded/unknown (abandoned) wells, which can act as contaminant migration pathways at or from your site. Please review and submit copies of historical maps, such as Sanborn maps, aerial photographs, etc., when conducting the background study. Please incorporate the results of the evaluation and present it in the work plan due by the date specified below.

3. <u>Groundwater Contaminant Plume Monitoring</u> - According to our records, the most recent groundwater monitoring event was conducted on September 18, 2001. Please initiate groundwater monitoring at the site. Prior to collecting groundwater samples, it is recommended that the monitoring wells be re-developed so that groundwater samples representative of actual site conditions are collected. Please collect the groundwater samples and submit a report by the due date specified below.

TECHNICAL REPORT REQUEST

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

- October 20, 2008 Soil and Water Investigation Work Plan with Preferential Pathway Evaluation
- **October 30, 2008** Quarterly Monitoring Report (3rd Quarter 2008)

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

ELECTRONIC SUBMITTAL OF REPORTS

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

Mr. Supple RO0000511 August 21, Page 4

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,

Påresh C. Khatri Hazardous Materials Specialist

Donna L. Drogos, PE

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

Mr. Supple RO0000511 August 21, Page 5

CC: Tom Venus, Broadbent & Associates, Inc., 1324 Mangrove Ave., Ste 212, Chico, CA 95926
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032
Donna Drogos, ACEH
Paresh Khatri, ACEH

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ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

AGENCY

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

January 16, 2009

Paul Supple Atlantic Richfield Company (A BP Affiliated Company) P.O. Box 1257 San Ramon, CA 94583

Ping Liu Chien Harbor Bay Landing, LLC. P.O. Box 117610 Burlingame, CA 94011 RECEIVED

JAN 2 4 2009

BY:_

Terry Grayson ConoccoPhillips 76 Broadway Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000511 and GeoTracker Global ID T0600101198, BP #11270, 3255 Mecartney Road, Alameda, CA 94501

Dear Messrs. Supple, Grayson, and Chien:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the abovereferenced site including the recently submitted document entitled, "Work Plan for On-Site Soil Investigation with Private Well Survey," dated October 20, 2008, which was prepared by Broadbent & Associates, Inc. (BAI) for the subject site. According to BAI, a preferential pathway evaluation does not appear necessary at this time due to low concentrations of contaminants detected in site groundwater monitoring wells. In addition, a well survey conducted in a ¼ mile radius of site vicinity did not detect any wells that could "potentially act as a preferential pathway or conduit for contaminant migration." Based on elevated concentrations of petroleum hydrocarbons detected in historical soil samples, BAI proposed to install two borings (B-3 and B-4) to evaluate current site conditions.

ACEH generally concurs with the proposed scope of work and requests that you address the following technical comments, perform the proposed work, and send us the technical reports described below.

TECHNICAL COMMENTS

1. Boring Locations in Relation to Historical Soil Samples – BAI states that "[d]ue to the proximity of each boring to the dispensers and UST complex, it is possible that actual boring locations may vary due to the presence of underground utility conflicts. If pea gravel is encountered during drilling activities, the boring must be abandoned immediately." Although, ACEH respects British Petroleum's safety policies, it should not preclude BP from conducting an adequate site investigation assessing current subsurface conditions and leaving the site uncharacterized with a potential risk to future site occupants. Please note that the intent of the investigation is to evaluate elevated contaminant concentrations historically detected in soil samples collected at the site and that proposed sampling locations must address concerns identified in ACEH's August 21, 2008 Directive Letter.

Messrs. Supple, Grayson, and Chien RO0000511 January 16, Page 2

NOTIFICATION OF FIELDWORK ACTIVITIES

Please schedule and complete the fieldwork activities by the date specified below and provide ACEH with at least three (3) business days notification prior to conducting the fieldwork, including routine groundwater sampling.

TECHNICAL REPORT REQUEST

Please submit technical reports to ACEH (Attention: Paresh Khatri), according to the following schedule:

- April 16, 2009 Soil and Water Investigation Report
- October 30, 2009 Annual Monitoring Report (3rd Quarter 2009)

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

Messrs. Supple, Grayson, and Chien RO0000511 January 16, Page 3

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

If you have any questions, please call me at (510) 777-2478 or send me an electronic mail message at paresh.khatri@acgov.org.

Sincerely,

Paresh C. Khatri Hazardous Materials Specialist

Donna L. Drogos, PE (/ Supervising Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Tom Venus, Broadbent & Associates, Inc., 1324 Mangrove Ave., Ste 212, Chico, CA 95926 Donna Drogos, ACEH Paresh Khatri, ACEH File

APPENDIX B

STRATUS SITE INVESTIGATION DATA PACKAGE (INCLUDES FIELD NOTES, WELL PERMIT, AND SITE PLAN)



February 24, 2000

Mr. Tom Venus Broadbent & Associates, Inc. 1324 Mangrove Ave., Suite 212 Chico, CA 95926

Re: Site Investigation Data Package, Former BP Service Station No. 11270, located at 3255 McCartney Boulevard, Alameda, California

General Information

Data Submittal Prepared / Reviewed by: Scott Bittinger / Jay Johnson Phone Number: (530) 676-6000

On-Site Supplier Representative: Scott Bittinger

Date: February 3, 2009 Arrival: 12:20 Departure: 13:10 Weather Conditions: Sunny, clear Scope of Work Performed: Health and safety meeting with utility locating contractor. Checked for the presence of underground utilities in the vicinity of the proposed work areas. Marked drilling locations for Underground Service Alert clearance. Unusual Field Conditions: None noted. Variations from Work Scope: None noted.

On-Site Supplier Representative: Collin Fischer

Date: February 9, 2009 *Arrival:* 10:30 *Departure:* 11:00 *Weather Conditions:* Not Noted

Scope of Work Performed: Health and Safety meeting. Checked for the presence of Underground Service Alert markings in the vicinity of work areas to verify that changes to the drilling locations were not necessary due to the presence of underground utilities. *Unusual Field Conditions:* None noted.

Variations from Work Scope: None noted.

Mr. Tom Venus, Broadbent & Associates, Inc. Site Investigation Data Package Former BP Station No. 11270, Alameda, CA Page 2

On-Site Supplier Representative: Scott Bittinger and Collin Fischer

Date: February 13, 2008

Arrival: 6:45 Departure: 10:20

Weather Conditions: Partly cloudy, trace rain (clearing after storm)

Scope of Work Performed: Health and safety meeting with RSI Drilling, Inc. Begin air knifing one location proposed for drilling (B-4) after observing sandy soil immediately below the concrete driving surface.

Unusual Field Conditions: Air knifing of B-4 was terminated due to the presence of pea gravel approximately 1 foot below surface grade.

Variations from Work Scope: Drilling project was cancelled after discussions with the station manager and the scoping contractor (Broadbent and Associates). According to the manager of the service station, who has operated this facility for 24 years, a large area of subsurface soil was excavated from the site and backfilled with pea gravel (see attached map). Since all boring locations were proposed to be within this area of pea gravel placement, and the presence of pea gravel was observed by Stratus and RSI Drilling, Inc. at the B-4 location, the proposed scope of work will not be completed.

This submittal presents data collected in association with the attempted completion, and subsequent cancellation, of a subsurface investigation at the subject site. The attachments include the field data sheets, a drilling permit, and a site plan. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretations or conclusions or recommendations.

Sincerely,

STRATUS ENVIRONMENTAL, INC.

Scott G. Bittinger, P.G. Project Manager

Attachments:

- Field Data Sheets
- Drilling Permit
- Site Plan

cc: Mr. Paul Supple, BP/ARCO

Schior Project Supervisor

Former BP 11270 2-3-69 Onsile 12:20. Talk to Station Mar. Meet w/ Cruz Bros locators there Ht S neeting Both dilling locations are on concicle. Will check areas to underground Utilities. Martled for USA. B- 3 is under a camopy w/ a 14 6" cleance limit. Will ned Safety varinny from Arco EBM for disting new bank / dispenses. Callel in USA fidlet: 12:45, reference # 032811 Expires 3.3-05 OFFSik 13:10 Satt Billing Status Environmental Inc.

ALCO 11270- Collon Fischie

Sinon 2 (9 /09

1030 -> ONSITE, FILL OUT SAFETS PATERWORK, CHEER USH MARKS & SKETCH ON MAP PER GROUND DISTURBANCE PROCEDURES.

1100 -> OFFSITE

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STATUS ENU., INC.

FULLY SP. Station 11270

services and the service services and the services a

Scott from Stratus onsite 6.45. Mostly clarky, claring ofter rain Complete 1145 - period to work form. REF onsite 7:10, 145 meeting. Hull to station manager. He fells as of tillely wides preud per grand war work areas to my way specifically discuss this issue in the 14's metry. Begin at B-4. Hole mored from pro-plot day to usit's bring preserved of the location shown in work plan (may more man in and plan (may more inaccordi). Perminede B-4 due to per grant. talktosteton muniper infano, heindiciety that large and hay excercised in order to place per growel to alleviate a ground Subsidence public. Discus w/ scorent pull the phayon while project. d/15/17 9:10 Swall Gully

Alameda County Public Works Agency - Water Resources Well Permit

PUBLIC	399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510	5 0)782-1939		
Application Approved	l on: 02/10/2009 By jamesy	Permit Numbers: W2009-0126 Permits Valid from 02/13/2009 to 02/13/2009		
Application Id:	1233880019476	City of Project Site:Alameda		
Site Location: Project Start Date: Assigned Inspector:	2255 McCartney Road, Alameda, CA 02/13/2009 Contact Ron Smalley at (510) 670-5407 or ronald	Completion Date:02/13/2009 dws@acpwa.org		
Applicant:	Stratus environmental - Scott Bittinger	Phone: 530-676-2062		
Property Owner:	BP ARCO	95682 Phone: 925-275-3801		
Client:	6 Centerpointe Dr., La Palma, CA 90623 ** same as Property Owner **			
	۲ Receipt Number: WR2009-0048 T	Fotal Due: \$230.00 Fotal Amount Paid: \$230.00		

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Receipt Number: WR2009-0048	Total Amount Paid:	\$230.00
Payer Name : Stratus Environmental	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 2 Boreholes Driller: RSI - Lic #: 802334 - Method: DP

Work Total: \$230.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-	02/10/2009	05/14/2009	2	3.00 in.	30.00 ft
0126					

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to. properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Ron Smalley for an inspection time at 510-670-5407 at least five (5) working days prior to

Alameda County Public Works Agency - Water Resources Well Permit

starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

