

Atlantic Richfield Company

Charles Carmel
Operations Project Manager

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By Alameda County Environmental Health 3:53 pm, Jan 19, 2016

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San Ramon, CA 94583
Phone: (925) 275-3803
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E-Mail: charles.carmel @bp.com

January 19, 2016

Re: Fourth Quarter 2015 Status Report
Atlantic Richfield Company Station #402
43500 Grimmer Boulevard, Fremont, California
ACWD Case No. 0017

"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,



Charles Carmel
Operations Project Manager

Attachment



**FOURTH QUARTER 2015 STATUS REPORT
Atlantic Richfield Company Station #402
1450 Fruitvale Avenue
Oakland, Alameda County, California**

Prepared for:

Mr. Chuck Carmel
Atlantic Richfield Company
4 Centerpointe Drive, Suite 200
La Palma, CA 90623

Prepared by:

Broadbent & Associates, Inc.
4820 Business Center Drive, Suite 110
Fairfield, California 94534
(707) 455-7290

January 19, 2015

No. 08-88-602



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Creating Solutions. Building Trust.

January 19, 2015

Project No. 08-88-602

Atlantic Richfield Company
4 Centerpointe Drive, Suite 200
La Palma, CA 90623
Submitted via ENFOS

Attn.: Mr. Chuck Carmel

Re: Fourth Quarter 2015 Status Report, Atlantic Richfield Company Station No. 402,
1450 Fruitvale Avenue, Oakland, Alameda County, California; ACEH Case #RO0000307

Dear Mr. Carmel:

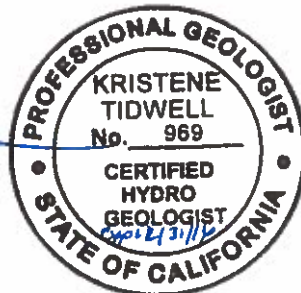
Attached is the *Fourth Quarter 2015 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station No. 402 located at 1450 Fruitvale Avenue in Oakland, Alameda County, California (the Site). This report presents a summary of current developments at the Site through the Fourth Quarter of 2015.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,
BROADBENT & ASSOCIATES

Kais Hamidi
Staff Geologist

Kristene Tidwell, P.G., C.H.G.
Associate Hydrogeologist



Enclosures

cc: Ms. Karol Detterman, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

**FOURTH QUARTER 2015
STATUS REPORT
ATLANTIC RICHFIELD COMPANY STATION No. 402
OAKLAND, CALIFORNIA**

Broadbent and Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2015 Status Report* on behalf of Atlantic Richfield Company (ARC, a BP affiliated company) for Station No. 402 located at 1450 Fruitvale Avenue in Oakland, Alameda County, California (the Site). Monitoring activities at the Site were performed in accordance with an agency directive issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	<u>Station No. 402 / 1450 Fruitvale Ave., Oakland, California; Drawing 1</u>
Client Project Manager / Title:	<u>Mr. Chuck Carmel / Remediation Management Project Manager</u>
Broadbent Contact:	<u>Ms. Kristene Tidwell, (707) 455-7290</u>
Broadbent Project No.:	<u>08-88-602</u>
Primary Regulatory Agency / ID No.:	<u>ACEH / Case # RO0000307</u>
Current phase of project:	<u>Monitoring</u>
List of Acronyms / Abbreviations:	<u>See end of report text for list of acronyms/abbreviations used in report.</u>

WORK PERFORMED THIS QUARTER (Fourth Quarter 2015):

1. Submitted *Third Quarter 2015 Monitoring Report* on October 30, 2015.
2. No other environmental work activities took place during the Fourth Quarter 2015.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2016):

1. Submit *Fourth Quarter 2015 Status Report* (contained herein).
2. Carry out well decommissioning activities after Regulator approval is granted.

QUARTERLY MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>Suspend</u>	Semi-Annual
Groundwater sample collection:	<u>Suspend</u>	Semi-Annual
Biodegradation indicator parameter monitoring:	<u>None</u>	

DISCUSSION:

A Site Location Map is provided as Drawing 1. The Groundwater Elevation Contour and Analytical Summary Map for data collected on March 12, 2015 are provided as Drawing 2.

RECOMMENDATIONS:

Groundwater sampling at this Site has been submitted pending Case Closure review.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, and our understanding of SFBRWQCB requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of ARC. It is possible that variations in soil or groundwater 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.

ATTACHMENTS:

- Drawing 1: Site Location Map
- Drawing 2: Groundwater Elevation Contour and Analytical Summary Map, March 12, 2015

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH	Alameda County Environmental Health	gal:	gallons
ARC:	Atlantic Richfield Company	GRO:	Gasoline Range Organics (C6-12)
Broadbent	Broadbent & Associates	LNAPL:	Light Non-Aqueous Phase Liquid
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	MTBE:	Methyl Tertiary Butyl Ether
1,2-DCA:	1,2-Dichloroethane	TAME:	Tert-Amyl Methyl Ether
DIPE:	Di-Isopropyl Ether	TBA:	Tert-Butyl Alcohol
EDB:	1,2-Dibromomethane	TOC:	Top of Casing
EPA:	Environmental Protection Agency	µg/L:	Micrograms Per Liter
ETBE:	Ethyl Tert-Butyl Ether	1Q:	First Quarter
ft:	feet	3Q:	Third Quarter
ft/ft:	foot per foot	ft bgs:	Feet Below Ground Surface

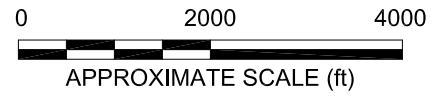
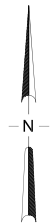
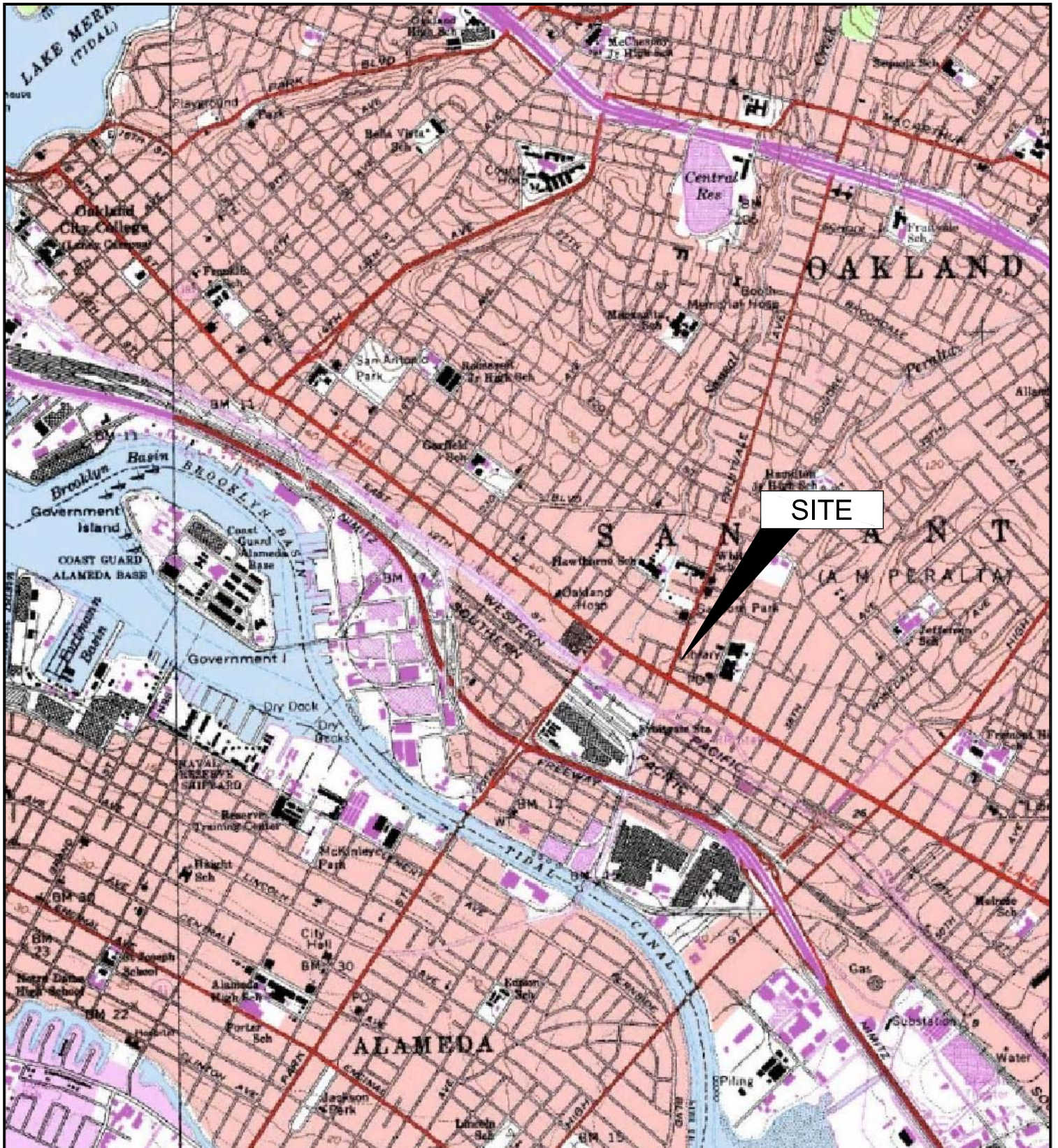
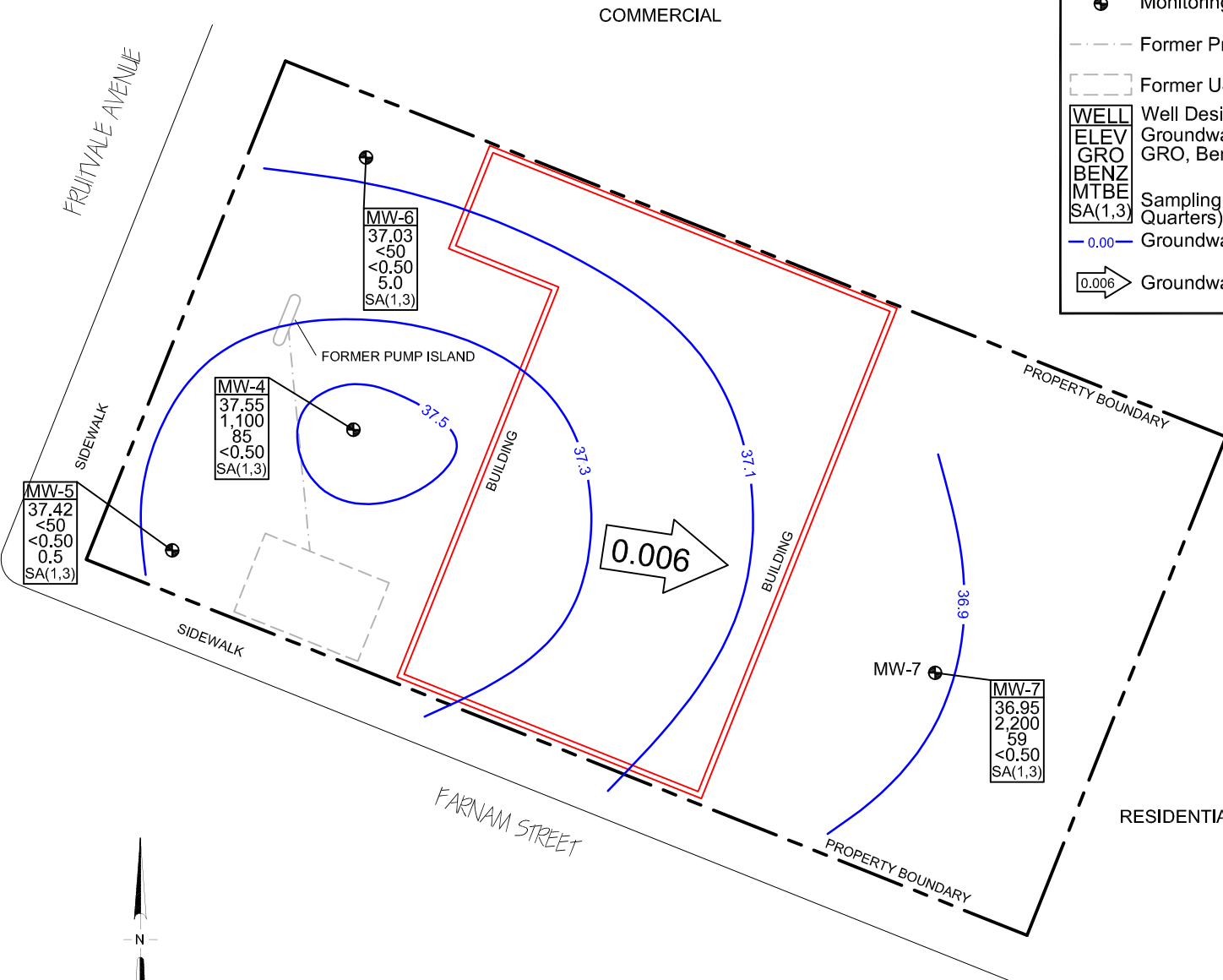


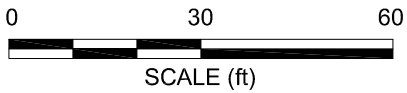
IMAGE SOURCE: USGS



LEGEND

- Monitoring Well Location
- Former Product Lines
- Former UST Basin
- | | |
|---------|----------------------------------------------------------|
| WELL | Well Designation |
| ELEV | Groundwater Elevation (ft above msl) |
| GRO | GRO, Benzene, and MTBE Concentrations (ug/L) |
| BENZ | |
| MTBE | |
| SA(1,3) | Sampling Frequency (Semi-Annually, 1st and 3rd Quarters) |
- 0.00 Groundwater Elevation Contour (ft above msl)
- 0.006 Groundwater Flow Direction and Gradient (ft/ft)

NOTE: SITE MAP ADAPTED FROM AEI CONSULTANTS FIGURES
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
4820 Business Center Drive, Suite 110, Fairfield, CA 94534
Project No.: 08-88-602 Date: 4/30/2015

Former Station #402
1450 Fruitvale Avenue
Oakland, California

Groundwater Elevation Contour
and Analytical Summary Map,
March 12, 2015

Drawing
2