

Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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RECEIVED

1:59 pm, Jul 23, 2012

Alameda County
Environmental Health

July 17, 2012

Re: Second Quarter 2012 Status Report
Atlantic Richfield Company Service Station #601
712 Lewelling Boulevard, San Leandro, California
ACEH Case #RO0000309

"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,



Shannon Couch
Operations Project Manager

Attachment

July 17, 2012

Project No. 06-88-605

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


Attn.: Ms. Shannon Couch

Re: Second Quarter 2012 Status Report, Atlantic Richfield Company Station #601,
712 Lewelling Boulevard, San Leandro, Alameda County, California;
ACEH Case #RO0000309

Dear Ms. Couch:

Attached is the *Second Quarter 2012 Status Report* for Atlantic Richfield Company Station #601 located at 712 Lewelling Boulevard, San Leandro, California (Site). This report presents a summary of current developments at the Site through the Second Quarter of 2012. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

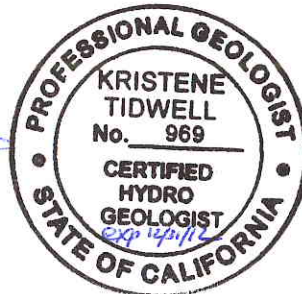
Sincerely,
BROADBENT & ASSOCIATES, INC.



Alexander J. Martinez
Senior Staff Geologist



Kristene Tidwell, P.G., C.Hg.
Senior Geologist



enclosures

cc: Ms. Dilan Roe, Alameda County Environmental Health (submitted via ACEH ftp site)
Mr. Karl Busche, City of San Leandro (Submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

**SECOND QUARTER 2012
STATUS REPORT
STATION #601, SAN LEANDRO, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Second Quarter 2012 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station #601 located in San Leandro, Alameda County, California. Monitoring activities at the site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

| | |
|-------------------------------------|---|
| Facility Name / Address: | Station #601 / 712 Lewelling Boulevard, San Leandro, California |
| Client Project Manager / Title: | Ms. Shannon Couch, Remediation Management Project Manager |
| Broadbent Contact: | Kristene Tidwell, P.G., C.Hg., (707) 455-7290 |
| Broadbent Project No.: | 06-88-605 |
| Primary Regulatory Agency / ID No.: | Alameda County Environmental Health (ACEH)/ Case #RO0000309 |
| Current phase of project: | Monitoring |
| List of Acronyms / Abbreviations: | See end of report text for list of acronyms/abbreviations used in report. |

WORK PERFORMED THIS QUARTER (Second Quarter 2012):

1. Submitted *First Quarter 2012 Monitoring Report* on April 15, 2012 (Q1 GWM Report).
2. No environmental field activities were conducted for Second Quarter 2012.

WORK SCHEDULED FOR NEXT QUARTER (Third Quarter 2012):

1. Submit *Second Quarter 2012 Status Report* (contained herein).
2. Conduct Third Quarter 2012 groundwater monitoring and sampling event.

GROUNDWATER MONITORING PLAN SUMMARY:

| | | |
|---|---|-------------------|
| Groundwater level gauging: | MW-1 through MW-3, and MW-8 through MW-19 | (1Q & 3Q) |
| Groundwater sample collection: | MW-1, MW-3, MW-10, MW-16, MW-17, and MW-18 MW-2, MW-8, MW-9, MW-14, MW-15, and MW-19 | (1Q & 3Q) (3Q) |
| Biodegradation indicator parameter monitoring: | None | |

QUARTERLY RESULTS SUMMARY:

LNAPL

| | | |
|-------------------------------|-----|----------|
| LNAPL observed this quarter: | N/A | (yes/no) |
| LNAPL recovered this quarter: | N/A | (gal) |
| Cumulative LNAPL recovered: | N/A | (gal) |

Groundwater Elevation and Gradient:

| | | |
|------------------------------|-----|-----------------------------|
| Depth to groundwater: | N/A | (ft below TOC) |
| Gradient direction: | N/A | (compass direction) |
| Gradient magnitude: | N/A | (ft/ft) |
| Average change in elevation: | N/A | (ft since last measurement) |

Laboratory Analytical Data

| | |
|----------|--|
| Summary: | No environmental field activities were conducted during Second Quarter 2012. |
|----------|--|

DISCUSSION:

No environmental field activities were conducted by Broadbent & Associates at the Site during the Second Quarter of 2012. The most recent groundwater monitoring and sampling occurred during the First Quarter of 2012, the results of which are contained within the Q1 GWM Report. For immediate reference, a site location map is presented as Drawing 1 and a groundwater elevation and analytical summary map from the most recent first quarter sampling is presented as Drawing 2.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California), and our understanding of ACEH 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 the Atlantic Richfield Company. 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 Contours and Analytical Summary Map, January 17, 2012.

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

| | | | |
|--------------------|---|-------------------|--------------------------------|
| ACEH: | Alameda County Environmental Health | ft/ft: | feet per foot |
| Broadbent: | Broadbent & Associates, Inc. | gal: | Gallons |
| BTEX: | Benzene, Toluene, Ethylbenzene, Total Xylenes | GRO: | Gasoline-Range Organics |
| 1,2-DCA: | 1,2-Dichloroethane | LNAPL: | Light Non-Aqueous Phase Liquid |
| DIPE: | Di-Isopropyl Ether | MTBE: | Methyl Tertiary Butyl Ether |
| DO: | Dissolved Oxygen | NO ₃ : | Nitrate as Nitrogen |
| DRO: | Diesel-Range Organics | ppb: | parts per billion |
| EDB: | 1,2-Dibromomethane | SO ₄ : | Sulfate |
| Eh: | Oxidation Reduction Potential | TAME: | Tert-Amyl Methyl Ether |
| EPA: | Environmental Protection Agency | TBA: | Tertiary Butyl Ether |
| ETBE: | Ethyl Tertiary Butyl Ether | TOC: | Top of Casing |
| Fe ²⁺ : | Ferrous Iron | µg/L: | micrograms per liter |

DRAWINGS

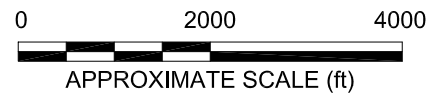
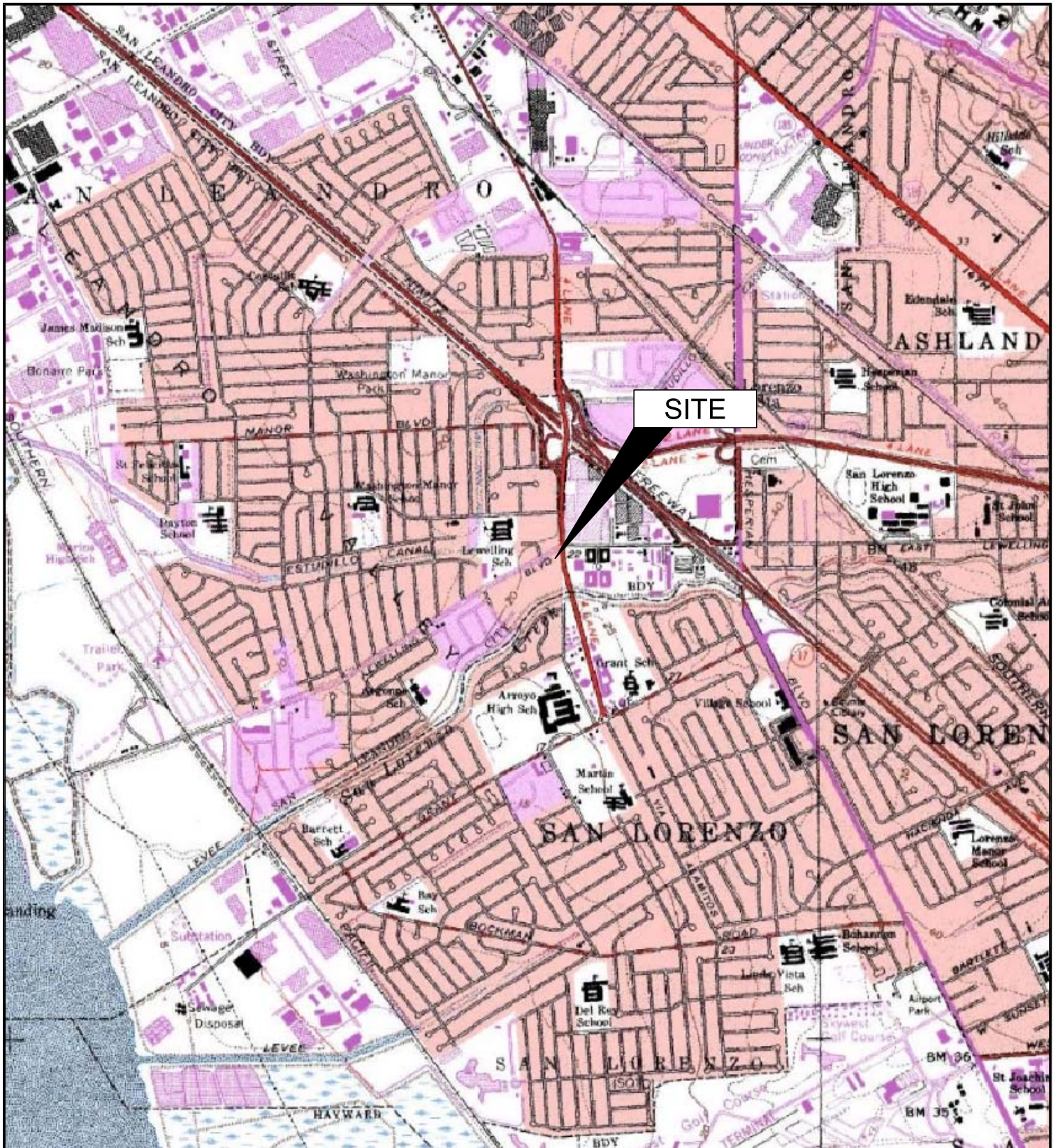


IMAGE SOURCE: USGS

FORMER SHELL
STATION #129460

S-10
12.71**
<50
<0.50
NS
A(1)

S-8
13.14**
<50
<0.50
NS
SA(1,3)

S-11
NG

MW-17
15.80
4,000
72
<2.5
SA(1,3)

MW-2
15.86
NS
NS
NS
A(3)

MW-18
15.87
140
<0.50
2.5
SA(1,3)

MW-13
16.30
GO

S-12
NG

S-14
NG

MW-5
15.90
GO

MW-16
15.60*
1,300
7.9
<1.0
SA(1,3)

MW-4
16.25*
GO

MW-11
15.95
GO

S-13
12.52**
50
<0.50
NS
A(1)

MW-3
15.51
14,000
<10
<10
SA(1,3)

SG-10

SG-11

MW-6
16.03*
GO

MW-1
15.97
3,100
27
<1.0
SA(1,3)

MW-12
15.82
GO

LEWELLING BOULEVARD

CHATEAU MANOR
APARTMENTS

MW-15
14.84
NS
NS
NS
A(3)

MW-9
15.01
NS
NS
NS
A(3)

MW-8
15.49
NS
NS
NS
A(3)

MW-7
15.97*
GO

MW-19
15.63
NS
NS
NS
A(3)

MW-10
14.59
<50
<0.50
1.6
SA(1,3)

SG-12

SG-13

SG-14

HP-1

BUILDING

B-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

HP-1

LEGEND

- ⊕ Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- ⊖ Soil Vapor Extraction Well Location
- ⊗ Hydropunch Location
- ⊙ Grab-Groundwater Sample Location
- Groundwater Elevation Contour (Feet Above Site Datum)
- Groundwater Flow Direction and Gradient (ft/ft)
- * Elevation Not Used in Contouring
- ** Shell Wells Not Used in Contouring Monitored 1/17/2012

| WELL | Well Designation |
|---------|--|
| ELEV | Groundwater Elevation (ft) |
| GRO | GRO, Benzene, and MTBE Concentrations (µg/L) |
| BZ | |
| MTBE | |
| A/SA | Sampling Frequency |
| A(1) | Sampled Annually, 1st Quarter |
| A(3) | Sampled Annually, 3rd Quarter |
| SA(1,3) | Sampled Semi-Annually, 1st and 3rd Quarter |
| GO/NG | Gauge Only/Not Gauged |
| NM/NS | Not Monitored/Not Sampled |



NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.