Atlantic Richfield Company

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RECEIVED

3:56 pm, Nov 08, 2011

Alameda County
Environmental Health

October 31, 2011

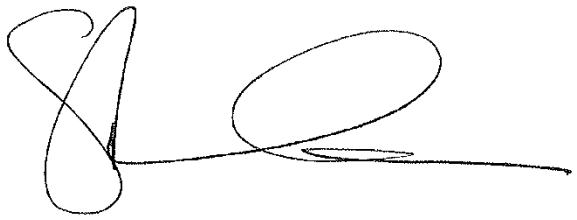
Mr. Paresh Khatri
Alameda County Health Care Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: SENSITIVE RECEPTOR SURVEY
ARCO Station No. 0472
6415 International Boulevard
Oakland, California 94621
ACEH Case No. RO0002982

Dear Mr. Khatri:

I declare, that to the best of my knowledge at the present time, that the information contained in the attached document is true and correct.

Regards,



Shannon Couch
Remediation Management Project Manager
Atlantic Richfield Company, a BP-affiliated company

Enclosure: Sensitive Receptor Survey

CLOSURE SOLUTIONS, INC.

October 28, 2011

Mr. Paresh Khatri
Alameda County Health Care Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: SENSITIVE RECEPTOR SURVEY
ARCO Station No. 0472
6415 International Boulevard
Oakland, California 94621
ACEH Case No. RO0002982

Dear Mr. Khatri:

On behalf of Atlantic Richfield Company (ARCO), Closure Solutions, Inc. (Closure Solutions) has prepared this *Sensitive Receptor Survey* (Survey) for the ARCO Service Station No. 0472, located at 6415 International Boulevard, Oakland, California (Site). Closure Solutions performed the Survey to identify the presence of water wells within a 0.5-mile radius of the Site. The Site setting, information on groundwater depth, groundwater flow direction, survey methods, and survey results are presented below. Additional information, including sensitive land uses is not included in this report.

1.0 SITE SETTING

The Site is located on the south corner of the intersection between International Boulevard (formerly East 14th Street) and 64th Avenue in Oakland, California. Surrounding properties are mixed commercial and residential. A service station was operated by the Richfield Oil Company from 1949 to 1970, at which point the property was sold. Current Site facilities include a single-story concrete building (former liquor store) and two large, metal storage/shipping containers located south of the building.

2.0 GROUNDWATER DEPTH AND FLOW DIRECTION

Groundwater monitoring and sampling has been conducted at the Site since 2009. Based on information contained in historical Site reports, depth to groundwater beneath the Site is approximately 10 feet below ground surface. Groundwater flow direction is predominately to the south.

3.0 WELL SURVEY METHODS

To obtain information on the type and location of wells within a 0.5-mile radius of the Site, Closure Solutions requested a signed authorization form from the Alameda County Health Care Agency, Department of Environmental Health to access confidential well information. The signed authorization was then provided to the Department of Water Resources (DWR) for access to all available well completion reports for wells installed in the vicinity of the Site. The DWR furnished 209 well completion reports for wells installed in the Site vicinity. These wells were located in Sections 9, 10, 15 and 16 in Township 02S, Range 03W, Mount Diablo Meridian.

To assemble the survey information, Closure Solutions grouped the reports into the following categories:

- Reports that referenced well locations by current street addresses that could be verified using online resources (Google Earth or equivalent);
- Reports that referenced well locations by distance from a current street, intersection, or other known location such as a creek or park;
- Reports that referenced well locations by distance from a corner of a map Section;
- Reports that referenced well locations by outdated street addresses, route numbers, or street names/intersections that were changed/no longer existed;
- Reports that were illegible; and
- Reports for wells that had been destroyed.

Well locations referenced by current street addresses or by distances from a known location or street intersection were verified on a map to obtain distance from the Site. If the well location was within 0.5 mile of the Site, the well location was plotted on the survey map. Wells located outside the 0.5 mile radius were not plotted.

For wells that were referenced by distance from a corner of a Section, Closure Solutions accessed Montana State University's Graphical Locater website and the Earthpoint website to obtain maps of the referenced Section within the Township and Range. Once this information was obtained and verified, wells identified within 0.5 miles of the Site were plotted on the well survey map.

In cases where well completion reports contained street names or route numbers that no longer existed, either available Township, Range, and Section information was used to plot locations, or

additional research was conducted to obtain information on historical street and route names. In a few cases, well locations could not be verified using the referenced locations or addresses provided, or the report was illegible. These wells were not included on the well survey map.

4.0 WELL SURVEY RESULTS

Based on Closure Solutions' review of information provided by the DWR, one well was identified within a 0.5-mile radius of the Site, as described below:

- One well was identified as an irrigation well, installed in 1977, and is located approximately 2,000 feet north-northeast (up-gradient) of the Site.

The approximate location of the well identified above within a 0.5-mile radius of the Site is presented on Figure 1. Please note that for the purposes of this well survey, cathodic protection wells and wells associated with environmental cases are not included in the results.

Well information including map ID, approximate distance and direction from the Site, well type, installation date and screen interval is summarized in Table 1. Due to privacy concerns, the DWR well completion reports or specific information regarding the wells, including exact well location, are not included in any copy of this document.

5.0 SURFACE WATER

The nearest surface water body is an unnamed drainage ditch located approximately 950 feet south (down-gradient) of the Site. The unnamed drainage ditch is on the opposite side of 66th Avenue and ultimately connects to the San Francisco Bay, which is located approximately 1.1 miles southwest (down-gradient) of the Site.

If you have any questions or comments regarding this report, please contact Charlotte Evans at (925) 566-8567, or by e-mail at cevans@closuresolutions.com.

Sincerely,
Closure Solutions, Inc.

Charlotte Evans
Project Geologist

Matthew Farris, P.G.
Project Geologist

Attachments:

Figure 1 Approximate Well Locations Within a 0.5-Mile Radius of the Site

Table 1 Wells Located Within a 0.5-Mile Radius of the Site

cc: Ms. Shannon Couch, Atlantic Richfield Company

Figure 1 - Approximate Well Locations - ARCO #0472 - 6415 International Blvd., Oakland

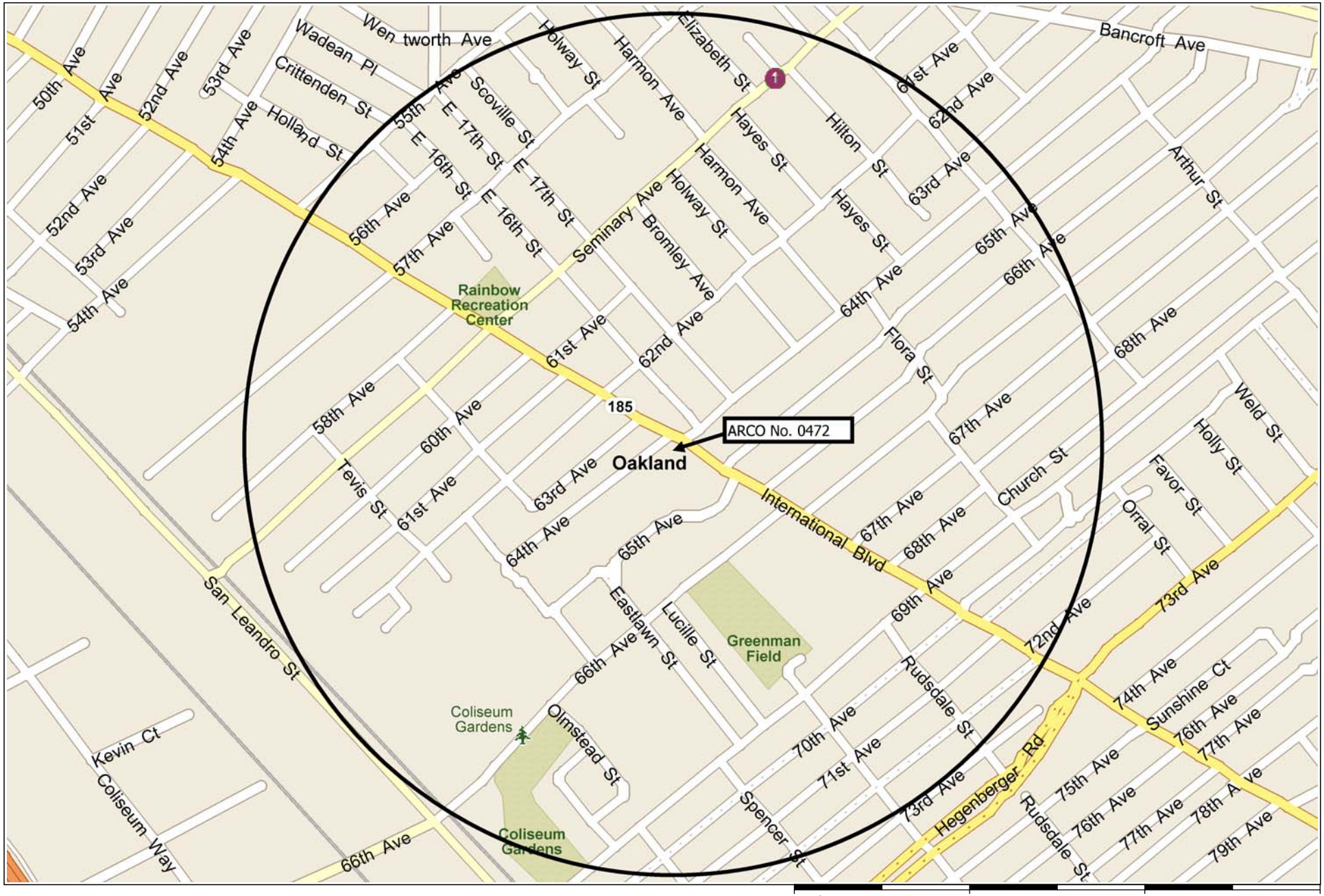


Table 1 - Wells Located Within 0.5-Mile Radius
ARCO Service Station No. 0472
6415 International Boulevard
Oakland, California

Map ID No.	Approximate Distance from Site	Well Type	Installation Date	Screen Interval
1	2,000 ft. NNE	irr	Oct-77	screen 40-100 ft.

Abbreviations:

ft = feet
N = North
S = South
E = East
W = West
dom = domestic well
irr = irrigation well
mun = municipal well
pub = public well
unk = unknown