



Legislation Text

File #: 2016-102, Version: 1

Report to Mayor and City Council

Tuesday, January 19, 2016

Discussion

SUBJECT:

CONSIDER STATUS REPORT ON THE REGIONAL WATER QUALITY CONTROL BOARD ENVIRONMENTAL INVESTIGATION AND CARSON DECLARATION OF THE EXISTENCE OF A LOCAL EMERGENCY WITHIN THE CAROUSEL TRACT (CITY COUNCIL)

I. SUMMARY

This item is on the agenda to provide updates at all regularly scheduled City Council meetings related to the environmental investigation of the Carousel Tract. The remediation project is moving into the implementation phase, in coordination with the California Regional Water Quality Control Board (Regional Board).

II. RECOMMENDATION

CONSIDER and DISCUSS.

III. ALTERNATIVES

TAKE such other action the City Council deems appropriate that is consistent with the requirements of law.

IV. BACKGROUND

History

The California Regional Water Quality Control Board, Los Angeles (Regional Board) is the lead agency overseeing the environmental investigation and cleanup of the Carousel Tract. The Regional Board issued a Cleanup and Abatement Order No. R4-2011-0046 (CAO) on March 11, 2011 requiring Shell Oil Products US to

investigate and clean up discharges of waste in soil and groundwater at the Carousel Tract site.

Recent Events

On January 7, 2016, the Regional Board sent a letter to Mr. Douglas J. Weimer, Shell Oil Products US (Exhibit No. 1) that is summarized as follows:

Cleanup and Abatement Order No. R4-2011-0046 (CAO), as amended, requires the responsible parties to submit and implement a Remedial Action Plan (RAP) for the former Kast Property Tank Farm (Carousel Tract). Shell was required to submit the first set of Property Specific Remediation Plans (PSRPs) on January 2, 2016. On December 21, 2015, the Regional Board received a letter prepared by AECOM on behalf of Shell Oil Products US, requesting an eight week extension for submission of property-specific remediation plans for remedial action plan (RAP) implementation cluster no. 1, extending the due date to February 26, 2016.

The extension request identified more time was needed to prepare the PSRPs for the first cluster of homes to be remediated due to:

1. the uncertainty of the anticipated time for review and approval of the geotechnical report by the Los Angeles County Department of Public Works (LACDPW) and Geotechnical Materials Engineering Division (GMED);
2. time needed for residents to see the Sub-Slab Depressurization (SSD) Systems demonstration at the Marbella property and to decide if they want one installed at their property and
3. the need for a second round of meetings necessary to prepare the excavation design for each property.

The Regional Board reviewed and approved the request for extension for submittal of the PSRPs for the first cluster of homes to February 26, 2016.

On January 11, 2016, the Regional Board sent two letters to Mr. Douglas J. Weimer, Shell Oil Products US (Exhibit Nos. 2 & 3) that are summarized as follows:

The Regional Board received and reviewed the document titled Final Interim Residential Sampling Report for the home located at 370 East 248th Street, Carson, California, dated December 17, 2015, prepared by AECOM on behalf of Shell. The work completed consisted of collecting sub-slab soil vapor samples from all three existing probes at the property and collecting indoor and outdoor air samples at the house. The findings are as follows:

- Methane was not detected in indoor/outdoor air, or sub-slab soil vapor samples during any sampling event at this home;

- Data from 36 previous surface and sub-surface soil samples zero (0) to ten (10) feet below ground surface collected from seven (7) soil borings in the front and back yards indicate that the cancer risk index is 8.4×10^{-7} and the non-cancer hazard index is 1.2. The total petroleum hydrocarbon (TPH) non-cancer hazard index is 1.1.

Since the non-cancer hazard index is greater than one (1) for surface and sub-surface soil samples Shell is directed to advise residents to minimize contact with exposed soil in their yards and minimize disturbance of sub-surface soil as a precautionary measure.

The second letter sent to Shell was for the home located at 24412 Neptune Avenue. The findings are as follows:

- Methane was detected in the front yard sub-slab soil vapor probe sample at a concentration of 0.00027 mol% during this sampling event at this home;
- Data from 32 surface and sub-surface soil samples (0 to 5 feet below ground surface), collected from 9 soil borings in the front and back yards, indicate that the cancer risk index is 3.1×10^{-7} and the non-cancer hazard index is 2.2. Thallium is the primary contributor with a non-cancer hazard of 1.4.
- Sub-slab soil data from one indoor and two outdoor sub-slab soil vapor probe samples indicate that the cancer risk index is 5.3×10^{-7} and the non-cancer hazard index is 0.018.

Since the non-cancer index for thallium is greater than one (1) for surface and sub-surface soil samples, Shell is directed to advise residents to minimize contact with exposed soil in their yards and minimize disturbance of sub-surface soil as a precautionary measure.

Residential Sampling Activity

Testing of property in the Carousel Tract is continuing and the latest reports are posted on the Regional Board's website at:

http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000000228

As of March 10, 2015, the completed Residential Sampling Activity is as follows:

- 272 homes have been screened for Methane. (95%)
- 273 homes have had soils sampled and vapor probes installed. (96%)
- 273 homes have had vapor probes sampled. (95%)
- 261 homes have had indoor air sampled. (91%)

- 244 of 261 homes have had their 2nd round of indoor air sampling. (94%)
- 86% of total homes in the Carousel Community have had second round of Indoor Air conducted

Timeline of Activities

A general timeline that tracks past and current activities of the Carousel Tract environmental investigation is included in the attachments (Exhibit No. 4).

For additional information regarding the Carousel community can be found at the following link:

<http://ci.carson.ca.us/departments/communitydevelopment/carouseltract.asp>.

V. FISCAL IMPACT

None.

VI. EXHIBITS

1. Regional Board letter to Shell dated January 7, 2016. (pgs. 5-8)
2. Regional Board letter to Shell dated January 11, 2016 for 370 East 248th Street. (pgs. 9-11)
3. Regional Board letter to Shell dated January 11, 2016 for 24412 Neptune Avenue. (pgs. 12-14)
4. Carousel Tract Environmental Investigation Timeline. (pgs. 15-23)

Prepared by: Zak Gonzalez II, Associate Planner, Planning Division



Los Angeles Regional Water Quality Control Board

January 7, 2016

Douglas J. Weimer
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810

SUBJECT: APPROVAL OF AN EIGHT-WEEK EXTENSION FOR SUBMISSION OF PROPERTY SPECIFIC REMEDIATION PLANS FOR REMEDIAL ACTION PLAN IMPLEMENTATION OF CLUSTER #1 IN ACCORDANCE WITH AMENDED CLEANUP AND ABATEMENT ORDER PURSUANT TO CALIFORNIA WATER CODE SECTION 13304 ORDER

SITE: FORMER KAST PROPERTY TANK FARM LOCATED SOUTHEAST OF THE INTERSECTION OF MARBELLA AVENUE AND EAST 244TH STREET, CARSON, CALIFORNIA (SCP NO. 1230, SITE ID 2040330, CLEANUP AND ABATEMENT ORDER NO. R4-2011-0046)

Dear Mr. Weimer:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the state regulatory agency responsible for overseeing the cleanup of waste sites in Los Angeles and Ventura Counties, including the above referenced site. To accomplish this, the Regional Board issues investigative orders and requirements for submission of technical reports authorized by the Porter-Cologne Water Quality Control Act.

In accordance with Cleanup and Abatement Order No. R4-2011-0046 (CAO), as amended, , you were required to submit the first set of Property-Specific Remediation Plans (PSRPs) on January 2, 2016 or within 30 days after the Regional Board's approval of the Remedial Design Implementation Plan (RDIP). The Regional Board approved the RDIP on December 3, 2015, and the PSRPs were due on January 2, 2016. The Regional Board received a letter titled *Request for an Eight-Week Extension for Submission of Property-Specific Remediation Plans for Remedial Action Plan (RAP) Implementation of Cluster #1*, dated December 21, 2015, prepared by AECOM on behalf of Shell Oil Products US, requesting that the due date for the PSRPs be extended to February 26, 2016.

The letter indicated that more time is needed to prepare the PSRPs for the first cluster of homes to be remediated due to: 1) the uncertainty of the anticipated time for review and approval of the geotechnical report by the Los Angeles County Department of Public Works (LACDPW) and Geotechnical Materials Engineering Division (GMED); 2) time needed for residents to see the Sub-Slab Depressurization (SSD) Systems demonstration at the Marbella property and to decide if they want one installed at their property; and 3) the need for a second round of meetings necessary to prepare the excavation design for each property.

The Regional Board has reviewed your request and approves the extension request for submittal of the PSRPs for the first cluster of homes to **February 26, 2016**.

CHARLES STRINGER, CHAIR | SAMUEL UNGER, EXECUTIVE OFFICER

320 West 4th St., Suite 200, Los Angeles, CA 90013 | www.waterboards.ca.gov/losangeles



January 7, 2016

Douglas J. Weimer
Shell Oil Products US

Pursuant to section 13350 of the California Water Code, failure to submit the required reports by the due dates may result in civil liability administratively imposed upon you by the Regional Board in an amount up to five thousand dollars (\$5,000) for each day the report is not received.

The State Water Resources Control Board (State Water Board) adopted regulations requiring the electronic submittals of information over the Internet using the State Water Board GeoTracker database. You are required to comply by uploading all reports and correspondence prepared to date and additional required data formats to the GeoTracker system. Information about GeoTracker submittals, including links to text of the governing regulations, can be found on the Internet at the following link:


http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal

Please note that, the Regional Board requires you to include a perjury statement in all reports submitted under the 13304 order. The perjury statement shall be signed by a senior authorized Shell Oil Products US representative (and not by a consultant). The statement shall be in the following format:

“ I, [NAME], do hereby declare, under penalty of perjury under the laws of State of California, that I am [JOB TITLE] for Shell Oil Company that I am authorized to attest to the veracity of the information contained in [NAME AND DATE OF REPORT] is true and correct, and that this declaration was executed at [PLACE], [STATE], on DATE.”

If you have any questions, please contact Dr. Teklewold Ayalew, Project Manager, at (213) 576-6739 (teklewold.ayalew@waterboards.ca.gov), or Ms. Thizar Tintut-Williams, Site Cleanup Unit III Chief, at (213) 576-6723 (thizar.williams@waterboards.ca.gov).

Sincerely,


Samuel Unger, PE
Executive Officer

cc: Mailing List

Douglas J. Weimer
Shell Oil Products US

Mailing List

Janice Hahn, Honorable Congresswoman, US House of Representatives,
California's 44th District
Mark Ridley-Thomas, Supervisor, Second District County of Los Angeles
Isadore Hall, III, Assembly member, 64th Assembly District
Frances L. McChesney, Office of Chief Counsel, State Water Resources Control Board
Jennifer Fordyce, Office of Chief Counsel, State Water Resources Control Board
James Carlisle, Office of Environmental Health Hazard Assessment
Robert Romero, Department of Toxic Substances Control
Bill Jones, Los Angeles County Fire Department
Barry Nugent, Los Angeles County Fire Department
Scott Mahan, Los Angeles County Fire Department
Michael A. Bravo, Los Angeles County Fire Department
Kim Clark, Los Angeles County Fire Department
Hoang Ly, Los Angeles County Fire Department
Angelo Bellomo, Los Angeles County Department of Health
Cyrus Rangan, Los Angeles County Department of Health
Ken Farfsing, Manager, City of Carson
Saied Naaesh, City of Carson
Zak Gonzalez II, City of Carson
Ky Truong, City of Carson
John Raymond, Community Development Director, City of Carson
Steve Onstot, Aleshire & Wynder, LLP
Alexander Morelam, Los Angeles Unified School District (LAUSD)
Patrick Schanen, LAUSD
Patrick W. Dennis, Gibson, Dunn & Crutcher LLP
Karen A. Lyons, Shell Oil Products US
Alison Abbott Chassin, Shell Oil Products US
Hal Dash, Cerrell Associates
Roy Patterson, AECOM Corporation
Chris Osterberg, AECOM Corporation
Michelle Vega, Edelman
Robert Ettinger, Geosyntec
Thomas V. Girardi, Girardi and Keese Lawyers
Robert W. Bowcock, Integrated Resources Management, LLC

Office of Environmental Health Hazard Assessment

Lauren Zeise, Ph.D., Acting Director

Headquarters • 1001 I Street • Sacramento, California 95814

Mailing Address: P.O. Box 4010 • Sacramento, California 95812-4010

Oakland Office • Mailing Address: 1515 Clay Street, 16th Floor • Oakland, California 94612



Matthew Rodriguez
Secretary for
Environmental Protection



Edmund G. Brown Jr.
Governor

MEMORANDUM

TO: Teklewold Ayalew, PhD, PG
Engineering Geologist
Regional Water Quality Control Board
320 West 4th Street, Suite 200
Los Angeles, CA 90013

FROM: James C. Carlisle, D.V.M., M.Sc.,
Staff Toxicologist
Integrated Risk Assessment Branch

DATE: January 4, 2016

SUBJECT: FINAL INTERIM RESIDENTIAL SAMPLING REPORT FOR 370 248TH
STREET, CARSON, CALIFORNIA (R4-15-011) OEHHA #880212-06

Document reviewed

- Final Interim Residential Sampling Report for 370 248th Street, Carson, California, dated December 17, 2015 by AECOM
- OEHHA did not review the potential for leaching to groundwater.

Results of Review

- The assessment followed the September 21, 2009 Work Plan for Phase II Site Characterization and the Addendum Work Plan for Phase II Site Characterization dated April 19, 2010 (URS, 2010), and the indoor sampling and analysis work plan dated October 21, 2009 approved by the LARWQCB on September 24, 2009, April 28, 2010, and November 4, 2009, respectively.
- Based on random checking of the results, OEHHA did not identify any data errors.
- OEHHA was unable to verify AECOM's naphthalene sub-slab risk estimate. However, OEHHA's estimate was below 10^{-6} and therefore does not change the conclusions.

Conclusions

- OEHHA agrees with the conclusions in the report.

California Environmental Protection Agency

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.

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Los Angeles Regional Water Quality Control Board

January 11, 2016

Douglas J. Weimer
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810

REVIEW OF FINAL INTERIM RESIDENTIAL SAMPLING REPORT FOR 370 EAST 248TH STREET PURSUANT TO CALIFORNIA WATER CODE SECTION 13304 ORDER - FORMER KAST PROPERTY TANK FARM LOCATED SOUTHEAST OF THE INTERSECTION OF MARBELLA AVENUE AND EAST 244TH STREET, CARSON, CALIFORNIA (SCP NO. 1230, SITE ID 2040330, CAO NO. R4-2011-0046)

Dear Mr. Weimer:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the state regulatory agency responsible for protecting water quality in Los Angeles and Ventura Counties, including the above referenced site. To accomplish this, the Regional Board issues investigative orders and requirements for submission of technical reports authorized by the Porter-Cologne Water Quality Control Act.

The Regional Board has received and reviewed the document titled *Final Interim Residential Sampling Report* (Report) for the home located at 370 East 248th Street, Carson, California, dated December 17, 2015 and prepared by AECOM on behalf of Shell Oil Products US (Shell). This residential property lies within the footprint of the former Kast Property Tank Farm (KPTF). The Report is prepared subsequent to approval of a soil, sub-slab soil vapor, and indoor air sampling work plan dated September 24, 2009, and a human health screening evaluation (HHSE) work plan dated November 19, 2009 pursuant to the California Water Code (CWC) section 13267 Order to investigate the individual residential properties occupying the former KPTF. The Office of the Environmental Health Hazard Assessment (OEHHA) is assisting the Regional Board in the evaluation of the potential risk to human health. Based on the *Interim Soil, Sub-Slab Soil Vapor, and Indoor Air Residential Sampling Report* dated February 26, 2015, AECOM identified an additional round of indoor air and sub-slab soil vapor sampling and analysis to be conducted to assess potential seasonal variability. The work completed at this time consisted of collecting sub-slab soil vapor samples from all three existing probes at the property and collecting indoor and outdoor air samples at the house. This letter briefly describes the findings and identifies follow-up actions.

The results of the investigation are reported as follows:

- Methane was not detected in indoor, outdoor air, or sub-slab soil vapor samples during any sampling event at this home.
- Data from 36 previous surface and sub-surface soil samples (0 to 10 feet below ground surface (bgs), collected from 7 soil borings in the front and back yards, indicate that the cancer risk index

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 RECYCLED PAPER

EXHIBIT NO. 2

is 8.4×10^{-7} and the non-cancer hazard index is 1.2. The total petroleum hydrocarbon (TPH) non-cancer hazard index is 1.1.

- For soil 0 to 5 feet bgs and for soil 5 to 10 feet bgs, TPH-diesel exceeded its respective site-specific cleanup goal for soil-leaching-to groundwater.
- Sub-slab soil vapor data from one indoor and two outdoor sub-slab soil vapor probe samples indicate that the cancer risk index is 3.9×10^{-8} and the non-cancer hazard index is 0.00089.
- Volatile organic compounds (VOCs) that exceed screening levels were detected in indoor air. Based on the indoor and outdoor air results at this time, VOCs detected in indoor air appear to be due to background sources.

Based on the information submitted in the Report, you are required to provide the following additional information and/or perform the activities listed below at this home:

1. Since the non-cancer hazard index is greater than 1 for surface and sub-surface soil samples, you are directed to advise residents to minimize contact with exposed soil in their yards and minimize disturbance of sub-surface soil as a precautionary measure.
2. Since the cancer risk index is below threshold level for indoor and outdoor sub-slab soil vapor samples and the VOCs detected in two rounds of indoor air sampling that exceeded vapor screening levels appear to be due to background sources, the data do not warrant additional sampling and interim actions at this time.

Please note that the Regional Board concurs with the comments provided by OEHHA (copy attached).

Therefore, based on the information submitted in the Report, you are authorized to implement the recommended shallow soil excavation to 5-feet below ground surface and installation of soil vapor extraction (SVE)/bioventing wells in accordance with the approved Revised Remedial Action Plan (RAP) and Addendum to the Revised RAP.

The shall include the implementation of the above recommended remediation activities as per the Regional Board's approved Remedial Design Implementation Plan (RDIP) dated December 3, 2015.

The due date of the required technical reports constitute an amendment to the requirements of the Order All other aspects of Order originally dated March 11, 2011, and amendments thereto, remain in full force and effect. Pursuant to section 13350 of the California Water Code, failure to comply with the requirements of the Order, by the specified due date, including dates in this amendment, may result in civil liability administratively imposed by the Regional Board in an amount up to five thousand dollars (\$5000) for each day of failure to comply.

The State Water Resources Control Board (State Water Board) adopted regulations requiring the electronic submittals of information over the Internet using the State Water Board GeoTracker database. You are required not only to submit hard copy reports required in this Order but also to comply by uploading all reports and correspondence prepared to date and additional required data formats to the GeoTracker system. Information about GeoTracker submittals, including links to text of the governing regulations, can be found on the Internet at the following link:

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If you have any questions, please contact the project manager, Dr. Teklewold Ayalew at (213) 576-6739 (teklewold.ayalew@waterboards.ca.gov), or Ms. Thizar Tintut-Williams, Site Cleanup Unit III Chief, at (213) 576-6723 (thizar.williams@waterboards.ca.gov).

Sincerely,


Samuel Unger, PE
Executive Officer

Attachment: OEHHA Memorandum dated January 4, 2016

cc: Janice Hahn, Honorable Congresswoman, US House of Representatives,
California's 44th District
Mark Ridley-Thomas, Supervisor, Second District County of Los Angeles
Isadore Hall, III, Assembly member, 64th Assembly District
Jim Dear, Mayor of Carson
Jackie Acosta, Carson Acting City Manager
Ky Truong, City of Carson
Michael Lauffer, Chief Counsel, State Water Resources Control Board
Frances McChesney, Senior Staff Counsel, State Water Resources Control Board
James Carlisle, Office of Environmental Health Hazard Assessment
Bill Jones, Los Angeles County Fire Department
Barry Nugent, Los Angeles County Fire Department
Shahin Nourishad, Los Angeles County Fire Department
Miguel Garcia, Los Angeles County Fire Department
Kim Clark, Los Angeles County Fire Department
Hoang Ly, Los Angeles County Fire Department
Cyrus Rangan, Los Angeles County Department of Health
Angelo Bellomo, Los Angeles County Department of Health
Karen A. Lyons, Shell Oil Products US
Thomas V. Girardi, Girardi and Keese Lawyers
Robert W. Bowcock, Integrated Resources Management, LLC
Sandra Villamil, Carousel Homes



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

January 11, 2016

Douglas J. Weimer
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810

REVIEW OF INTERIM SOIL AND SOIL VAPOR RESIDENTIAL SAMPLING REPORT FOR 24412 NEPTUNE AVENUE PURSUANT TO CALIFORNIA WATER CODE SECTION 13304 ORDER - FORMER KAST PROPERTY TANK FARM LOCATED SOUTHEAST OF THE INTERSECTION OF MARBELLA AVENUE AND EAST 244TH STREET, CARSON, CALIFORNIA (SCP NO. 1230, SITE ID 2040330, CAO NO. R4-2011-0046)

Dear Mr. Weimer:

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The Regional Board has received and reviewed the document titled *Interim Soil and Soil Vapor Residential Sampling Report* (Report) for the home located at 24412 Neptune Avenue, Carson, California, dated November 20, 2015 and prepared by AECOM on behalf of Shell Oil Products US (Shell). This residential property lies within the footprint of the former Kast Property Tank Farm (KPTF). The Report is prepared subsequent to approval of a soil, sub-slab soil vapor, and indoor air sampling work plan dated September 24, 2009, and a human health screening evaluation (HHSE) work plan dated November 19, 2009 pursuant to the California Water Code (CWC) section 13267 Order to investigate the individual residential properties occupying the former KPTF. The Office of the Environmental Health Hazard Assessment (OEHHA) is assisting the Regional Board in the evaluation of the potential risk to human health. Based on the *Work Plan for Phase II Site Characterization* dated September 21, 2009, *Indoor Air Sampling and Analysis Work Plan* dated October 21, 2009, and *Addendum Work Plan for Phase II Site Characterization* dated April 19, 2010, AECOM performed during this sampling event consisted of soil sampling, methane screening, installing and sampling sub-slab soil vapor probes. This letter briefly describes the findings and identifies follow-up actions.

The results of the investigation are reported as follows:

- Methane was detected in the front yard sub-slab soil vapor probe sample at a concentration of 0.00027 mol% during this sampling event at this home.
- Data from 32 surface and sub-surface soil samples (0 to 5 feet below ground surface), collected from 9 soil borings in the front and back yards, indicate that the cancer risk index is 3.1×10^{-7} and the non-cancer hazard index is 2.2. Thallium is the primary contributor with a non-cancer hazard of 1.4.

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- Sub-slab soil vapor data from one indoor and two outdoor sub-slab soil vapor probe samples indicate that the cancer risk index is 5.3×10^{-7} and the non-cancer hazard index is 0.018.

Based on the information submitted in the Report, you are required to provide the following additional information and/or perform the activities listed below at this home:

- Since the non-cancer hazard index for thallium is greater than 1 for surface and sub-surface soil samples, you are directed to advise residents to minimize contact with exposed soil in their yards and minimize disturbance of sub-surface soil as a precautionary measure.

Please note that the Regional Board concurs with the comments provided by OEHHA (copy attached).

Therefore, based on the information submitted in the Report, you are authorized to implement the recommended shallow soil excavation to 5-feet below ground surface and installation of soil vapor extraction (SVE)/bioventing wells at this home in accordance with the approved Revised Remedial Action Plan (RAP) and Addendum to the Revised RAP.

The shall include the implementation of the above recommended remediation activities as per the Regional Board's approved Remedial Design Implementation Plan (RDIP) dated December 3, 2015.

The due date of the required technical reports constitute an amendment to the requirements of the Order. All other aspects of Order originally dated March 11, 2011, and amendments thereto, remain in full force and effect. Pursuant to section 13350 of the California Water Code, failure to comply with the requirements of the Order, by the specified due date, including dates in this amendment, may result in civil liability administratively imposed by the Regional Board in an amount up to five thousand dollars (\$5000) for each day of failure to comply.

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“ I, [NAME], do hereby declare, under penalty of perjury under the laws of State of California, that I am [JOB TITLE] for Shell Oil Company that I am authorized to attest to the veracity of the information contained in [NAME AND DATE OF REPORT] is true and correct, and that this declaration was executed at [PLACE], [STATE], on DATE.”

If you have any questions, please contact the project manager, Dr. Teklewold Ayalew at (213) 576-6739 (tayalew@waterboards.ca.gov), or Ms. Thizar Tintut-Williams, Site Cleanup Unit III Chief, at (213) 576-6723 (twilliams@waterboards.ca.gov).

Sincerely,


Samuel Unger, PE
Executive Officer

Attachment: OEHHA Memorandum dated November 25, 2015

cc: Janice Hahn, Honorable Congresswoman, US House of Representatives,
California's 44th District
Mark Ridley-Thomas, Supervisor, Second District County of Los Angeles
Isadore Hall, III, Assembly member, 64th Assembly District
Ken Farfing, Manager, City of Carson
Saied Naaesh, City of Carson
Zak Gonzalez II, City of Carson
Ky Truong, City of Carson
Michael Lauffer, Chief Counsel, State Water Resources Control Board
Frances McChesney, Senior Staff Counsel, State Water Resources Control Board
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Kim Clark, Los Angeles County Fire Department
Hoang Ly, Los Angeles County Fire Department
Cyrus Rangan, Los Angeles County Department of Health
Angelo Bellomo, Los Angeles County Department of Health
Karen A. Lyons, Shell Oil Products US
Patrick W. Dennis, Gibson, Dunn & Crutcher LLP
Thomas V. Girardi, Girardi and Keese Lawyers
Robert W. Bowcock, Integrated Resources Management, LLC
Ijaz Hussain, Carousel Homes

Carousel Tract Environmental Investigation Timeline

| Date | Significant Actions/Reports | Notes |
|-------------------|--|--|
| March 11, 2008 | DTSC informed LARWQCB about former Shell Oil Company Tank Farm | |
| May 2008 | LAWRQCB initiated an environmental investigation | |
| December 2008 | LAWRQCB approved proposed work plan submitted by Shell to investigate contaminates of concern | |
| December 31, 2008 | LARWQCB issued California Water Code § 13267 Investigative Order | |
| October 15, 2009 | Shell submitted Final Phase I Site Characterization Report | |
| March 2011 | LARWQCB issued Cleanup and Abatement Order No. R4-201100046 | |
| February 22, 2013 | Shell submitted <i>Site-Specific Cleanup Goal Report</i> | |
| May 2013 | LAWRQCB issued a fact sheet providing information and advising of comment period for <i>Site-Specific Cleanup Goal Report</i> | 30-day comment period ending June 24, 2013 |
| June 24, 2013 | City submitted comments to <i>Site-Specific Cleanup Goal Report</i> | Forwarded reports by Everett & Associates and Soil/Water/Air Protection Enterprise |
| July 18, 2013 | City Council conducted workshop to allow presentation by Mr. Sam Unger, Executive Director of LARWQCB | Presentation by Dr. Lorene Everett and James T. Wells PhD raising concerns related to environmental conditions |
| July 29, 2013 | City Council adopted Resolution No. 13-081 declaring the existence of an emergency in the Carousel Tract | |
| July 30, 2013 | Letters sent to the Governor, Attorney General, Los Angeles County Board of Supervisors and Mr. Unger | Requested immediate assistance due to emergency conditions in Carousel Tract |
| July 31, 2013 | City staff, Mr. Bob Bowcock, Dr. Everett and Mr. Wells met with representatives of Los Angeles County Fire Department and Los Angeles County Department of Public Health | City Council declaration of emergency conditions discussed and copies of Everett & Associates reports transmitted for review |

Carousel Tract Environmental Investigation Timeline

| Date | Significant Actions/Reports | Notes |
|---------------------------------|--|---|
| August 21, 2013 | LARWQCB sent detailed letter to Shell denying proposed site-specific cleanup goals and requiring revisions to be submitted by October 21, 2013 | LARWQCB incorporated OEHHA Memorandum dated July 22, 2013 and UCLA Expert Panel Interim Report dated July 24, 2013 |
| September 11, 2013 | City letter to Mr. Sam Unger | Expressing appreciation from City Council and community for response to <i>Site-Specific Cleanup Goal Report</i> |
| September 24, 2013 | LARWQCB community open house CEQA scoping meeting | Request for input from community and public agencies related to evaluation of environmental impacts; comment period ends on October 8, 2013 |
| September 30 – October 10, 2013 | LARWQCB Public Participation Specialist to conduct office hours at Carson City Hall | Opportunity for LARWQCB to meet with residents and community stakeholders |
| October 8, 2013 | CEQA scoping comments due to LARWQCB from September 9 through October 8, 2013 | Comment letters sent by City of Carson and Bob Bowcock/Barbara Post |
| October 10, 2013 | City staff arranging for a meeting with LARWQCB, LACoFD, Los Angeles County Department of Public Health, OEHHA, Mr. Bowcock, Dr. Everett and Mr. Wells PhD | Review of technical reports and discussion of public agencies responses and actions |
| October 21, 2013 | Shell submitted a <i>Revised Site-Specific Cleanup Goal Report</i> to LARWQCB | Shell proposed to evaluate options that provide excavation in specific areas and does not include any further evaluation associated with the removal of homes |
| October 24, 2013 | Los Angeles County Department of Public Health Letter to City of Carson | Letter states there is not an immediate health threat from site conditions |

Carousel Tract Environmental Investigation Timeline

| Date | Significant Actions/Reports | Notes |
|-------------------|---|---|
| October 30, 2013 | LARWQCB letter to Shell for review of <i>Community Outdoor Air Sampling and Analysis Report</i> | Based on statistical tests, LARWQCB concludes that outdoor air concentrations do not differ between the site and surrounding area. Shell is required to address OEHHA comments and to develop a work plan for an additional soil-vapor survey by November 29, 2013. LARWQCB determined on January 13, 2014 that no further evaluation required |
| October 31, 2013 | LARWQCB notice on <i>Proposed Draft Revised Cleanup and Abatement Order No. R4-2011-0046</i> | The proposed draft order names Dole Food Company, Inc. as an additional responsible party. Comments and evidence must be submitted by 12:00 p.m. on December 6, 2013. Dole Food Company has requested an extension to January 2014 to provide comments. LARWQCB approved extension to January 13, 2014. On January 7, 2014, Regional Board approved extension to January 21, 2014 |
| November 12, 2013 | Letter to Carousel Tract Owners and Occupants advising of November 19, 2013 City Council Workshop | |
| November 19, 2013 | City Council conducted workshop with Los Angeles County Department of Public Health and Los Angeles County Fire Department | |
| January 8, 2014 | LARWQCB response to <i>Assessment of Environmental Impact and Feasibility of Removal of Residual Concrete Reservoir Slabs</i> | Directs Shell to either remove the residential concrete slabs as appropriate or isolate the residual concrete slabs beneath the foundation of the homes and paved areas using engineering techniques to the extent necessary to address long term health risks or nuisance concerns |

Carousel Tract Environmental Investigation Timeline

| Date | Significant Actions/Reports | Notes |
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| January 13, 2014 | LARWQCB response to <i>Revised Community Outdoor Air Sampling and Analysis Report</i> | LARWQCB concludes that outdoor air concentrations do not differ between the site and surrounding area. No further evaluation required |
| January 21, 2014 | Dole response to <i>Proposed Draft Revised Cleanup and Abatement Order No. R4-2011-0046</i> | Dole requested to not be included in the Draft Order since their subsidiary, Barclay Hollander Corporation, did not discharge any of the contaminants of concern |
| January 23, 2014 | Community meeting organized by Congresswoman Hahn | Meeting to hear from residents and discuss options for obtaining improved levels of response from the Regional Board |
| January 23, 2014 | LARWQCB response to <i>Revised Site-Specific Cleanup Goal Report</i> | LARWQCB identified deficiencies in the Shell Revised Report and directed a remedial action plan, Human Health Risk Assessment and other environmental documents be submitted by March 10, 2014 |
| February 10, 2014 | LARWQCB clarification and revision to their January 8, 2014 letter (effective date of January 13, 2014) regarding the Residential Concrete Slab Report | LARWQCB removed reference to regulations for underground storage tanks |
| February 23, 2014 | Shell submitted a Petition for Review and Request for Hearing to the State Water Resources Control Board in the matter of Cleanup and Abatement Order R4-2011-0046 (CAO) | The State Water Resources Control Board has not responded to Shell's petition |
| March 10, 2014 | Shell submitted Remedial Action Plan (RAP), Human Health Risk Assessment (HHRA), and draft environmental documents to LARWQCB | LARWQCB set a tentative period of 30 day to review the documents and provide opportunity for public viewing |
| March 19, 2014 | LARWQCB filed Notice of Preparation (NOP) | Preparation of a draft Environmental Impact Report in accordance to the California Environmental Quality Act (CEQA) |
| March 25, 2014 | LARWQCB and PCR Service Corporation met with City's staff | As part of the draft Environmental Impact Report, staff discussed transportation, noise, and odor concerns with LARWQCB and PCR |

Carousel Tract Environmental Investigation Timeline

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| April 18, 2014 | LARWQCB received comments from LAUSD regarding the NOP | LARWQCB is reviewing LAUSD comments and will provide response |
| April 30, 2014 | LARWQCB responded to Shell's RAP, FS, and HHRA | LARWQCB rejected Shell's proposed cleanup plan and revised RAP to be submitted by Shell by June 16, 2014 by 5 p.m. |
| April 30, 2014 | LARWQCB issued notice of violation (NOV) to Shell for failure to submit a RAP based on approved site-specific cleanup goals | LARWQCB directed Shell to comply by June 16, 2014 |
| May 23, 2014 | LARWQCB met with Shell regarding the RAP | LARWQCB discussed deficiencies and revisions with Shell |
| June 3, 2014 | LARWQCB issued notice of opportunity for additional public comment | The deadline to submit public comments is 5 p.m. on June 16, 2014 |
| June 4, 2014 | LARWQCB granted Shell a two-week extension to submit the revised RAP, FS, and HHRA | The revised documents are due on June 30, 2014 |
| June 16, 2014 | Shell submitted additional comments regarding the Proposed Revised Draft Cleanup and Abatement Order No. RB4-2011-0046 | The Regional Board is reviewing Shell's comments |
| June 30, 2014 | Shell submitted the revised RAP, FS, and HHRA to the Regional Board | The Regional Board is reviewing the revised documents |
| July 7, 2014 | The City of Carson sent a letter notifying the Carousel Tract residents of the availability of the RAP, FS, and HHRA via the Regional Board | The documents are part of the draft EIR process |

Carousel Tract Environmental Investigation Timeline

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| | website | |
| July 22, 2014 | The Regional Board is reviewing the RAP, FS, HHRA and preparing the draft EIR. Testing of property in the Carousel Tract is ongoing | Testing result and the Regional Board latest activities are available at: http://geotracker.waterboards.ca.gov/ |
| August 25, 2014 | The Regional Board is reviewing the RAP, FS, HHRA and preparing the draft EIR. | No new dates set for meeting with the Carousel Tract residents |
| August 27, 2014 | The Regional Board released August 2014 community update for the Carousel Tract | Tentative release of proposed RAP and Draft EIR in mid October 2014 |
| September 19, 2014 | Shell submitted the RAP Relocation Plan to the Regional Board | Tentative release of proposed RAP and Draft EIR at end of October 2014, and meeting with the Carousel Tract resident is projected to begin on November 2014 |
| October 8, 2014 | The Regional Board continues preparation of Draft EIR and review of the RAP | The Regional Board required the RAP addendums to be submitted by Shell on October 20, 2014. Meeting with the Carousel Tract residents is projected to occur in the middle of November 2014 |
| October 15, 2014 | The Regional Board scheduled community meetings | The Regional Board mailed invitations of community meetings to the Carousel Tract residents |
| October 15, 2014 | Shell submitted addendums to the RAP, FS, and HHRA | The documents are posted on the Regional Board website |
| November 5, 2014 | The Regional Board released the draft EIR proposed RAP for public review and comment | The draft EIR, proposed RAP and support documents are available at the Carson Library, the Los Angeles Regional Board Office and website |

Carousel Tract Environmental Investigation Timeline

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| November 12,15,18,20, 2014 | The Regional Board held community group meetings with Carousel Tract residents | The discussion was centered on the draft EIR and proposed RAP |
| November 22, 2014 | The Regional Board hosted a public meeting at the Carson Community Center | The discussion centered on the draft EIR and proposed RAP |
| December 3, 2014 | City of Carson Environmental Commission received the draft EIR and proposed RAP for review | City staff will submit the Commission's comments to the Regional Board |
| December 8, 2014 | The Regional Board notified Dole Food Company Inc. (Dole) of its intention to revise the Cleanup and Abatement Order No. R4-2011-0046 CAO) | Barclay Hollander Corporation (Barclay), a wholly-owned subsidiary of Dole, to be named as responsible parties to the Carousel Tract contamination |
| December 24, 2014 | Barclay sent a written request to the Regional Board | Barclay submitted additional written evidence, and schedule a formal evidentiary hearing with the Regional Board |
| January 6, 2015 | Barclay sent a follow up letter to its December 24, 2014 Letter to the Regional Board | Barclay submitted additional documentary evidence to the Regional Board |
| January 6, 2015 | Shell sent a letter to the Regional Board | Shell is opposed to Barclay's requests to submit additional evidence and for a formal evidentiary hearing |
| January 7, 2015 | Integrated Resource Management, Inc. (IRM) responded to Barclay's December 24, 2014 Letter | IRM requested appropriate notice and opportunity to be heard for Carousel Tract residents. IRM also commented on the substance of the revised CAO and attached documentary evidence |
| January 9, 2015 | The Regional Board sent an electronic letter to all interest parties | The Regional Board will consider additional comments on pending procedural request by 5 p.m., January 16, 2015 |

Carousel Tract Environmental Investigation Timeline

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| January 15, 2015 | Site Cleanup Program Staff (SCP Staff) of the regional Board sent a response letter objecting inclusion of additional evidence into the record as requested by Barclay Hollander Corporation (Barclay) | SPC Staff is requesting opportunity to respond if a hearing for additional evidence is granted by the Chief Deputy Executive Officer of the Regional Board |
| January 16, 2015 | Barclay sent a letter to the Regional Board | Barclay clarified its scope to submit additional evidence, seek clarification from the Regional Board, and request timing of evidential hearing. |
| February 20, 2015 | The Regional Board released a "Notification of Work" to the public | Land (public streets) and aerial photographic survey activities are tentatively scheduled from March 2, 2015 to March 20, 2015 for the Carousel Tract and surrounding area |
| February 27, 2015 | The Regional Board replied to parties and interested persons | The Regional Board accepted Mr. George Bach deposition dated November 19, 2014 into administrative record |
| March 11, 2015 | The SCP Staff provided explanations to assumptions and copies of graphic results | The explanation addressed the three assumptions in memo dated March 20, 2014 from Dr. C.P. Lai to SCP Staff |
| April 2, 2015 | SCP Staff, Barclay, and Shell submitted comments to the Regional Board regarding the revised CAO | Barclay is requesting inclusion of Mr. George Bach deposition dated November 19, 2014 into administrative record. SCP Staff and Shell opposed its inclusion |
| April 17, 2015 | The Regional Board sent letter to all parties and interested persons | Informing all parties and interest persons of the separation of functions between the Advising Team and SCP Staff. The Regional Board intends to issued final action regarding Tentative Revised CAO on or after April 24, 2015 |
| April 22, 2015 | Barclay sent a letter to the Regional Board | Barclay is requesting delay of final action regarding the Tentative Revised CAO until depositions of the SCP Staff are completed |

Carousel Tract Environmental Investigation Timeline

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| April 30, 2015 | Regional Board sent a letter to Dole and Barclay aka (BHC) | The Regional Board issued the Revised CAO adding Dole and Barclay as responsible parties |
| May 21, 2015 | Barclay sent a letter to the Regional Board | Barclay requests stay and reconsideration of the Revised CAO |
| June 1, 2015 | The Regional Board reported that Barclay filed a petition with State Water Board | Barclay is requesting the State Water Board to Review, petition for stay, and petition to submit supplemental evidence and to conduct a hearing |
| June 22, 2015 | The Regional Board provided a copy of Barclay petition to the State Water Board | The Regional Board and Shell are proceeding with their work in the Carousel Tract regardless of the outcome of Barclay's petition |