



File #: 2016-757, Version: 1

Report to Mayor and City Council

Tuesday, July 05, 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 the first regularly scheduled City Council meeting of each month related to the environmental investigation of the Carousel Tract. The remediation project has moved into the implementation phase in coordination with the California Regional Water Quality Control Board (Regional Board). After this month, Staff will bring a quarterly update to Council rather than monthly, unless there is a significant event that occurs in the meantime.

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 June 27, 2016, staff received a Board update for the months of May/June 2016, (Exhibit No. 1). The summary update identified on-going activities at Cluster 1 to include but not limited to:

- Established Laydown yard/command Center;
- Sound attenuation panels mounted, dust/meteorological monitoring, traffic control established;
- Gas, water, sewer and AT & T lines to individual homes disconnected;
- Waste profiling of impacted soil, non-hazardous soil and sub-surface concrete, all hazardous wastes properly managed and transported to waste management facility;
- On June 2, 2016 PCR acoustics technician/engineer commenced noise compliance inspections and acoustical record evaluations at the Cluster 1 cleanup site in accordance with noise mitigation requirements;
- On June 3, 2016, the Regional Board Executive Officer visited the Laydown yard/Command Center and the Cluster 1 cleanup activities;
- On June 28, 2016, during the deeper excavation of 5ft-10ft there was a strong odor associated with the work. Shell did receive complaints and the work crews were monitoring for odors and performing mitigation measures to control the odors. During the loading of trucks, the contractor continued to receive odor complaints so the decision was made to stop work and discuss how to control odors during the deeper excavations. AQMD was on site and the Water Board was also on site earlier in the day.

On June 3, 2016, Board wrote a letter to Douglas J. Weimer, Shell Oil Products, US, review interim sampling report for 24723 Panama Avenue (Exhibit No. 2). The letter identified that since the non-cancer hazard index is greater than 1 for sub-surface soil samples from 0 to 5 feet bgs, Shell is directed to advise the residents to minimize contact with exposed soil in their yards and minimize disturbance of sub-surface soil as a precautionary measure.

Shell is authorized to implement soil excavation in the front/back yards and installation of soil vapor extraction (*SVE)/bioventing wells in accordance with the approved Revised Remedial Action Plan.

The remedial activities at the Carousel Neighborhood will be conducted in phases, with each phase involving a group of up to ten (10) properties. Each group of properties is referred to as a cluster. The site has been subdivided into twenty-eight (28) clusters that will be remediated over a five (5) year period (Exhibit No. 3).

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 Sampling 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 summary update dated June 27, 2016. (pg. 4)
2. Board letter dated June 3, 2016 to Shell oil Products (pgs. 5-8)
3. AECOM Remediation Cluster & Implementation Sequence Map (pg. 9)
4. Carousel Tract Environmental Investigation Timeline. (pgs. 10-18)

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

June 27, 2016

Former Kast Property Tank Farm, Carousel Tract, Carson

Dr. Teklewold Ayalew, (213) 576-6739

Site Cleanup III Unit

The activities related to the site investigation and cleanup work performed during the month of May 2016 include the following:

- 1) On May 3 and 12, 2016, the Regional Board completed the review of two (2) Residential Sampling Reports and issued a response with a required follow-up action.
- 2) On May 11, 2016, the Regional Board received a letter from AECOM Re: notification of startup of Remedial Action Plan (RAP) implementation for the Cluster #1. Work at Cluster #1 is expected to take approximately 13 weeks, and the residents of the nine homes in Cluster #1 and the adjacent two properties in Cluster #2 have been relocated for this period. The letter states that work will be done in a series of clusters of up to 10 properties at a time.

To date, since the startup date activities going on at Cluster #1 include the following:

- Established Laydown yard or command Center that is 2 acre in size used to stage equipment, store materials, and provide parking for Shell, AECOM and AIS staff;
 - Sound attenuation panels mounted, Sound, dust and meteorological monitoring are being performed; and traffic control has been established;
 - Gas, water, sewer and AT&T lines to individual homes disconnected;
 - Landscape and hardscape that includes fences and block walls between yards and ornamental or partitioning walls on individual properties were removed using rubber track-mounted excavators or rubber-tired backhoes where sufficient access is available;
 - Shallow soil excavation from landscape including walkways, driveways, patio areas, and hardscape associated with landscaping – using a variety of methods, including rubber-track-mounted excavators, and backhoes; and
 - Waste profiling of impacted soil, non-hazardous soil and sub-surface concrete; Loading of haul trucks; stockpiles left overnight covered with plastic sheets; all hazardous wastes properly managed, manifested, and transported to a waste management facility.
- 3) On May 12, 2016, the Regional Board approved the AECOM recommended change in schedule for on- and offsite methane monitoring of accessible utility boxes, vaults, storm drains, and sewer manholes and monitoring of street soil vapor probes located in the Carousel, and Monterey Pines Neighborhoods, Lomital Boulevard and Island Avenue. The monitoring frequency is now modified from quarterly to semi-annual.
 - 4) On June 2, 2016, PCR acoustics technician/engineer commenced noise compliance inspections and acoustical record evaluations at the Cluster #1 cleanup site on their behalf, in accordance with MM NOISE-1 and MM NOISE-2, on behalf of the Regional Board.
 - 5) On June 3, 2016, the Regional Board Executive Officer visited the Laydown yard or Command Center and the Cluster #1 cleanup activities.

Los Angeles Regional Water Quality Control Board

June 3, 2016

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

REVIEW OF INTERIM SOIL RESIDENTIAL SAMPLING REPORT FOR 24723 PANAMA 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:

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 *Interim Soil Residential Sampling Report* (Report) for the home located at 24723 Panama Avenue, Carson, California, dated May 19, 2016 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, and *Addendum Work Plan for Phase II Site Characterization* dated April 19, 2010, during this sampling event, AECOM performed soil sampling. The homeowner did not provide access to conduct sub-slab soil vapor probe installation and sampling. This letter briefly describes the findings and identifies follow-up actions.

The results of the investigation are reported as follows:

- Data from 36 soil samples collected from 9 soil borings in the front and back yards indicate that for subsurface soil (0 to 5 feet below ground surface (bgs) the cancer risk index is 4.5×10^{-7} and the non-cancer hazard index is 3.6; and for subsurface soil (5 to 10 feet bgs) the cancer risk index is 4.7×10^{-9} and the non-cancer hazard index is 0.0023.
- For soil 0 to 5 feet bgs, the total petroleum hydrocarbon diesel range (TPH-diesel) concentration exceeded its respective soil-leaching-to-groundwater site-specific cleanup goal (SSCG). For soil

5 to 10 feet bgs, no other chemical of concern (COC) exceeded its respective soil-leaching-to-groundwater SSCG.

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 sub-surface soil samples from 0 to 5 feet bgs, 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 bgs in the front and back yards 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.

Implement the above recommended remediation activities per the Regional Board's approved Remedial Design Implementation Plan (RDIP) dated December 3, 2015.

The due date of the required technical reports constitutes 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:


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 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 May 31, 2016

cc: Janice Hahn, Honorable Congresswoman, US House of Representatives,
California's 44th District
Mark Ridley-Thomas, Supervisor, Second District County of Los Angeles
Mike Gipson, III, Assembly member, 64th Assembly District
Ken Farfsing, Manager, City of Carson
John Raymond, City of Carson
David Coupe, Senior Staff 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
Kim Clark, Los Angeles County Fire Department
Scott Mahan, Los Angeles County Fire Department
Michel Bravo, 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
George and Shizuko Oshiro, Carousel Homes

Office of Environmental Health Hazard Assessment

Lauren Zeise, Ph.D., Acting Director

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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: May 31, 2016

SUBJECT: INTERIM SOIL RESIDENTIAL SAMPLING REPORT FOR 24723
PANAMA AVENUE, CARSON, CALIFORNIA, (R4-15-011)
OEHHA #880212-06

Document reviewed

- Interim Soil Residential Sampling Report for 24723 Panama Avenue, Carson, California, dated May 19, 2016

Results of Review

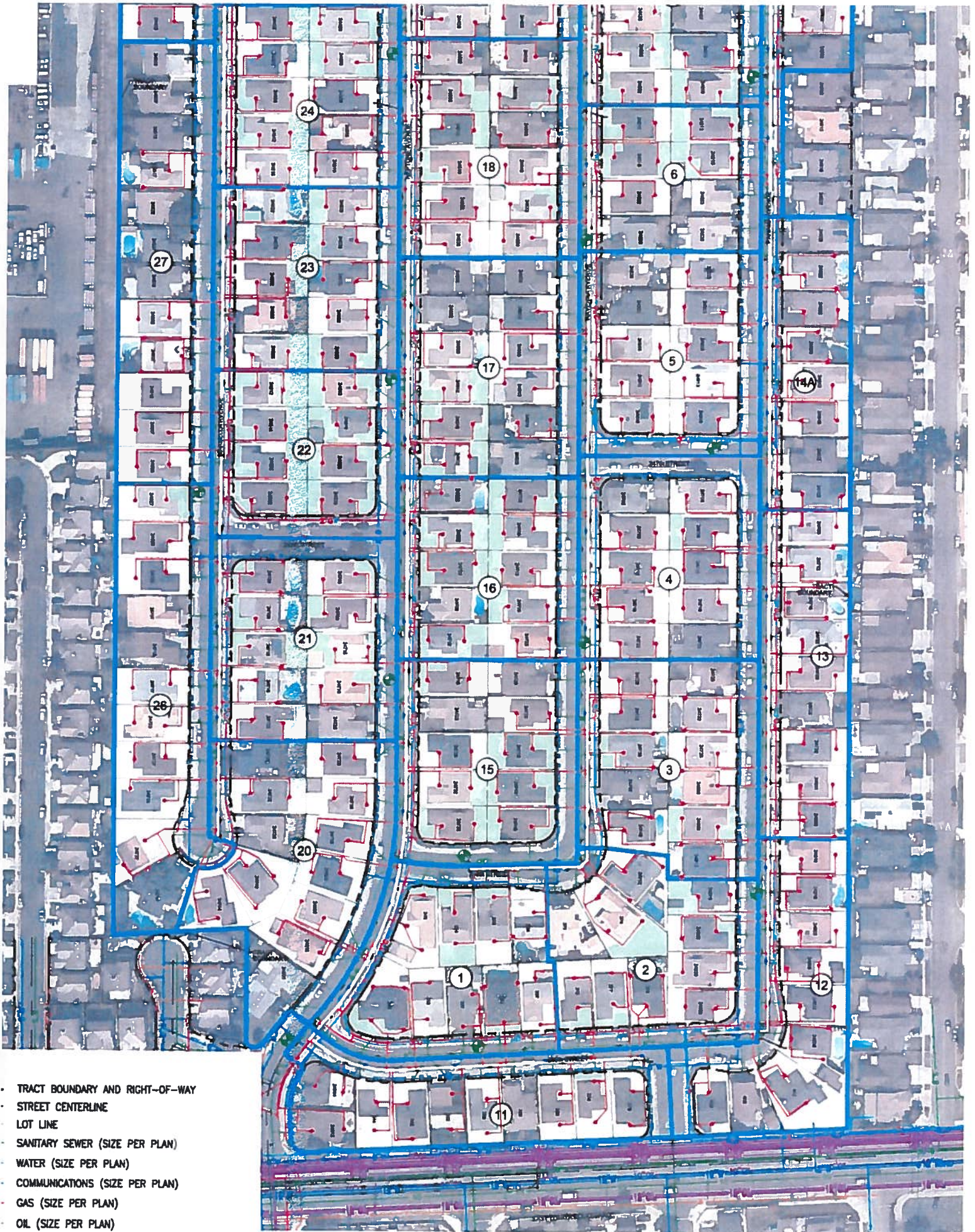
- The assessment followed the September 21, 2009 Work Plan for Phase II Site Characterization and the Addendum Work Plan for Phase II Site Characterization dated April 19, 2010 (URS, 2010), approved by the LARWQCB on September 24, 2009 and April 28, 2010, respectively.
- Based on random checking, OEHHA did not identify any data or calculation errors.

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.



- TRACT BOUNDARY AND RIGHT-OF-WAY
- STREET CENTERLINE
- LOT LINE
- SANITARY SEWER (SIZE PER PLAN)
- WATER (SIZE PER PLAN)
- COMMUNICATIONS (SIZE PER PLAN)
- GAS (SIZE PER PLAN)
- OIL (SIZE PER PLAN)
- STORM DRAIN

SHALLOW STREET WELL, 50' RADIUS OF INFLUENCE,



PROPOSED 5' EXCAVATION

TOTAL NO. OF LOTS = 281

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
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

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

	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

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

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

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