BALDWIN HILLS CSD
COMMUNITY ADVISORY PANEL (CAP) MEETING
January 28, 2016
APPROVED 2/25/2016

A. Call to Order - 7:00 PM
David McNeil Chair.

B. Approval of Agenda - Agenda approved.

C. DOGGR Presentation - Dan Dudak and Scott McGurk
Mr. Dan Dudak, District Deputy and Mr. Scott McGurk, Senior Reservoir Engineer, from DOGGR provided a presentation on DOGGR and the ground movement issue at the Inglewood Oil Field. Over the last 18 to 24 months, DOGGR has been updating and modifying the programs and compliance efforts, including the addition of staff, to oversee oil and gas operations in California. DOGGR's jurisdiction starts at the well head for their primary regulations and includes all down hole operations; these regulations are consistent throughout the State. Mr. Dudak and Mr. McGurk discussed the ground movement issue highlighting:

- DOGGR has and continues to investigate the issue.
- A primary concern of the investigation is to determine whether oil field activities are a significant contributor to ground movement in the area.
- The investigation requires an enormous amount of data due to the complexity of the issue.
- Ground movement is common is Southern California.
- DOGGR is not constrained by the CSD or other ordinances to act on the ground movement issue.
- The order issued by DOGGR was intended to document that the investigation is continuing and to request additional data)the due date for the requested data is February 15, 2016).
- Both Mr. Dudak and Mr. McGurk are local and available to return to the CAP in the future to provide updates. Mr. Stapleton will check back with DOGGR in a few months for updates.

Mr. McNeil asked about the different oil reservoirs at the Inglewood Oil Field and Mr. McGurk noted that due to the physical nature of the ground movement issue, DOGGR's focus is on the shallower reservoirs. Mr. Kuechle asked about 2.5 inches of subsidence over time at the Inglewood Oil Field and whether that is a significant amount; Mr. Dudak noted that the primary concern is the trend of movement, not the actual amount. Mr. Dudak is not in the position to comment on the CSD standard, different areas and projects have different standards. Mr. Dudak summarized the historic subsidence issue at the Wilmington Field in Long Beach Harbor where production with no injection caused 29 feet of subsidence. Mr. McGurk described current requirements for the Wilmington Field that require 105% of the production amount to be injected back into the field and that the situation required constant attention to keep the balance within that standard.
Mr. Kuechle noted that a continuous long term subsidence trend of 2.5 inches per 5 years would clearly be a concern and asked about the significance of a continuous fluctuating uplift

and subsidence activity; Mr. Dudak replied the main concern is continuous movement in one direction and that the earth is always in motion. Moon and tidal forces affect the surface of the earth in a measurable way consistent with the effect on the oceans. Groundwater volumes also cause the earth's surface to move with a rainy season having the potential to cause uplift and a drought condition to cause subsidence. Sedimentary basins like the LA area tend to move more than areas with granitic or metamorphic geologic strata.

Mr. Kuechle inquired about the potential resolution or requirements DOGGR may consider when the investigation on the ground movement issue is completed such as regulating the amount of water injection or production at the oil field. Mr. McGurk noted that DOGGR needs to review all the information available before moving forward including potential impacts of each individual reservoir and tectonic activity. Mr. McNeil asked about what tools are available to mitigate the issue if the cause of the ground movement was determined to be manmade; Mr. Dudak reinforced the fact that the investigation needs to be completed to discuss such actions.

Ms. Johansson asked about the types of tools and data available to conduct the ground movement research/investigation and Mr. Dudak noted that information is available on the internet including Differential Interferometric Synthetic Aperture Radar (DifSAR) of the LA Basin relevant to the ground movement issue.

The potential for earthquakes from increased injection activities was asked about, Mr. Dudak noted that water injection is currently occurring at the oil field and that in California the geology is very different than in other parts of the Country where this has occurred. DOGGR has been and continues to work with the USGS and CalTech on the subject issue. Mr. Dudak noted that no recent earthquakes in California have been associated with water injection activities and the information is available on the USGS web site. Ms. Paillet mentioned the accelerometer located on the oil field and the fact that data from that instrument is also available online.

D. Regional Planning/ECC Update – Timothy Stapleton/Luis Perez

DOGGR 10/9/15 NOV - Mr. Perez asked about the overdue well mechanical integrity testing correspondence from DOGGR and the status of the NOV. Mr. Dudak noted most DOGGR NOV's are promptly corrected and tracked by the agency; he will confirm the status of the issue and report back.

Next CAP Meeting Location - Mr. Stapleton announced the next meeting will be at the same location, Kenneth Hahn Recreation Area Community Center. The work on the Center has been postponed allowing for the use of the room. Research on a new location continues.

Fourth Quarter 2015 Complaint Log - Posted, 8 complaints received with odor, noise and property damage included.

Fourth Quarter 2015 Groundwater Monitoring Report - All results were below the maximum allowable contaminant levels. Mr. McNeil asked about an odor complaint and the potential cause as a CNG re-fueling station in Culver City, Mr. Clarke of Culver City noted that the sewer system is more likely the cause of the odors.

Fugitive Dust Issue - MRS prepared a memo, distributed to the CAP, on the fugitive dust discussion at the December 2015 CAP meeting. Mr. Kuechle provided questions from Ms. Sahli-Wells, who is not available for the meeting, on the dust issue including:

1. "If FM O&G does not track dust mitigation, how can they be in compliance with the dust provisions of the CSD?" Mr. Perez explained that FM O&G uses a sub-

contractor to provide two water trucks per day and that they cover the field as needed. Specific locations and times are not tracked. There have been very few complaints on dust and it is acknowledged that there will be dust when wind speeds are greater 25 mph.

2. "Other than committing to focusing the water trucks on the roads with the most traffic during windy days, what other actions is FM O&G going to take to control dust?" Mr. Dusette recently met with FM O&G on the issue and noted that the water trucks are currently tasked to focus on high volume road use areas and that FM O&G will pro-actively reinforce this approach through better coordination on windy days. It was also noted that the oil field contains non-road areas that may contribute to dust and that there are no options to control that dust short of watering the entire oil field which is not a feasible action.

New CAP Member - Dr. Kelly Kent of Culver City Unified School District.

E. Operator Update - Lisa Paillet

Drilling/Rig Update No current plans to drill any new wells in 2016. Rig activity summarized as no reworking rigs and 2 to 3 maintenance rigs on the field at any given time. Mr. Gless's request for additional information on the number of rigs, number of wells, and associated work activities for each day of a given month will not be provided by FM O&G management.

Landscaping Plans - Public Works is scheduled to approve Phase 6 soon, Ms. Johansson asked about the plan and the draft plan is posted on the web site.

Fourth Quarter 2015 Complaint Log - as noted above, with 19 complaints logged for the calendar year 2015.

Fourth Quarter 2015 Groundwater Monitoring Report - as noted above.

2015 Special Status Species Compliance Report - posted on the web site.

F. Open Discussion

Ms. Gosnell requested that the CAP and the CAP facilitators work towards promoting better cooperation and courtesy during meetings to improve the experience and the information exchange for all those attending the meetings. The CAP agreed and noted that it is every CAP member's responsibility for civil and productive meetings.

G. Approval of Minutes

December 2015 minutes approved.

H. Announcements

Next CAP meeting February 25, 2016.

Adjourn: 08:35

ATTENDANCE: 01/28/16

*(*absent)*

DESIGNATED SEATS PER 22.44.142.J.1.a

Governmental Entities

1	Department of Regional Planning	Timothy Stapleton
2	City of Culver City	Sherry Jordan and Jim Clarke
3	West Los Angeles College	Bob Sprague*

Operator (per 22.44.142.C)

5	Freeport McMoran Oil & Gas	Lisa Paillet

NOMINATED SEATS PER 22.44.142.J.1.a

(Accepted first-come/first-served within each sub-group)

Landowners (per 22.44.142.C)

6	Vickers Family Trust	Roger Shockley*
7	Cone Fee Family Trust	Liz Gosnell

Neighborhood Organizations (Recognized Homeowners Association)

8	Ladera Heights Civic Assoc.	Carmen Spiva
9	Windsor Hills HOA	Gary Gless*
10	United HOA (View Park)	Charles McCaw
11	Culver Crest Neighborhood Assoc.	John Kuechle
12	Blair Hills HOA	Jon Melvin*
13	Raintree Community HOA	Keith Curtiss*
14	Baldwin Hills Estates HOA	Lory Johansson

Neighborhood Organizations (No Recognized Homeowners Association)

15	Ladera Crest Homeowner	George Mallory*
16	Baldwin Vista Homeowner	Irma Munoz*

School Districts

17	Los Angeles Unified	Glenn Striegler*
18	Culver City Unified	Kelly Kent

Neighborhood Organizations (All Others)

19	Windsor Hills Block Club	Toni McDonald-Tabor
20	Community Health Councils	Gwendolyn Flynn
21	Baldwin Hills Conservancy	David McNeill
22	The City Project	Daphne Hsu*