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From: Engel, Jonna@Coastal
Sent: Monday, February 03, 2014 11:02 AM
To: Martine, Andrea@Energy; Luster, Tom@Coastal
Cc: Kelly, Patricia@Energy
Subject: RE: Redondo Beach Energy Project Wetland Mitigation

Hi Andrea,

Yes, I am at my desk now and will be here all day. I will take some time here to review/write down my site visit findings. I have photo documentation of all the areas. I am happy to discuss my notes with you once you have had time to review.

It is important to note that the Coastal Commission criteria for an area to be identified as a wetland is evidence of ONE wetland parameter. That is we have a one parameter wetland criteria whereas the ACOE has a three parameter criteria.

I will first start with the areas that are NOT wetlands/do not support CCC wetlands.

1. The north retention basin that has two holding areas – the smaller one was used to hold acidic waste/liquid and the larger one for non-acidic liquid. This area is currently lined with a black plastic type material with no connection to natural substrate. According to the AES staff the area was last used in the 1990's. While there was water in both holding areas I don't consider this to be CCC wetland because of the in tack black liner.
2. In use Retention Basis – while a sample (SP-05) was collected at this location, the retention basin is currently in use by AES and is therefore not a CCC wetland.
3. Former Tank 5. This former tank site was bone dry with evidence of recent discing and no evidence of hydrology.

Areas with evidence of CCC wetlands:

1. Former Tank 1 (SP 03 and 04 collected here) – The location of the former tank 1 was almost completely surrounded by water. Along the perimeter where there wasn't standing water the soil was saturated. There were several species of water fowl/wading birds using the area including ducks and a snowy egret. There was moss growing on/in the water and several large patches of wetland plants including creeping bentgrass, *Agrostic gigantea* and variable flatsedge, *Cyperus difformis*. The entire area that held the former tank had evidence of hydrology including several primary indicators such as surface soil cracks, salt crust, and aquatic invertebrates. Furthermore, CH2MHill found evidence of all three wetland parameters at SP 03, the data point along the perimeter, and evidence of hydrology at the SP 04 data point that was collected near the center of the former tank site. Given the CH2MHill data and my observations data I find that the whole site maps out as a CCC wetland.
2. Constructed Pit (SP 06 collected here) – The construct pit was completely dry but the whole bottom area had evidence of hydrology including several primary indicators such surface soil cracks, salt crust, and biotic crust. I don't need additional samples for this area. From my observations the whole area meets the definition of a CCC wetland.
3. Former Tank 2 (SP 07 and 08 collected here) - The location of the former tank 2 was completely surrounded by water. Again there were several species of water fowl/wading birds using the area including ducks and snowy egrets. Again there was moss growing on/in the water and several large patches of wetland plants including creeping bentgrass, *Agrostic gigantea* and variable flatsedge, *Cyperus difformis*. We were not able to access the center of the area where the former tank sat but I was able to observe primary indicators of hydrology including surface soil cracks and salt crust. My observations lead me to believe that the whole area would map out as CCC wetland based on the standing water and wetland plants around the perimeter and the evidence of hydrology in the center – including surface soil cracks and salt crusts. I also observed water marks from a distance and in my

photos. Furthermore, the data collected by CH2M Hill for SP 07(near center of tank site) and 08 (along perimeter of tank site) data points identified evidence of hydrology and hydric soils indicating that the area is a CCC wetland. Given the CH2M Hill data and my observations I find that the whole site maps out as a CCC wetland.

4. Former Tank 3 (SP 09 and 10 collected here) – Again, the location of former tank 3 was almost completely surrounded by water. There was even a row boat in one corner. There was moss growing on/in the water and patches of wetland plants including creeping bentgrass, *Agrostis gigantea*. We were not able to access the center of the area where the former tank sat but I was able to observe primary indicators of hydrology including surface soil cracks and salt crust. My observations lead me to believe that the whole area would map out as CCC wetland based on the standing water and wetland plants around the perimeter and the evidence of hydrology in the center – including surface soil cracks and salt crusts. Furthermore, the data collected by CH2M Hill for SP 09(near center of tank site) and 10 (along perimeter of tank site) data points identified evidence of hydrology and hydric soils, respectively, indicating that the area is a CCC wetland. Given the CH2M Hill data and my observations I find that the whole site maps out as a CCC wetland.
5. Former Tank 4 (SP 12 collected here) – There was no standing water or vegetation in the area of former tank 4. However, lots of the ground in the area looked wet and there were several indicators of primary hydrology throughout the area including water marks, salt crust, and surface soil cracks. CH2M Hill took one sample, SP 12, at the perimeter of the area, and found no evidence of hydrology, wetland vegetation, or hydric soils. While some of the area may not meet the definition of a wetland, my observations lead me to believe that much of the area would map out as a CCC wetland. My guess-timate would be that 3/4ths of the area is a CCC wetland. This is the only area where I think more samples/photos/observations could be made to nail down the wetland/non-wetland area/boundary.

Again – I am here all day and happy to discuss. I can also send you my photos.

Cheers, Jonna

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