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October 25, 2017

John Ramirez, Bureau Chief
(ramirezjl@co.monterey.ca.us)
Monterey County Department
Environmental Health Bureau (EHB)
1270 Natividad Road
Salinas, CA 93906

Dear Mr. Ramirez:

Please consider this letter and the attachments as our quarterly water audit report which complies with the requirement in the Memorandum of Understanding (MOU), dated May 6, 2014, between California American Water Company and the County of Monterey regarding the Ambler Oaks Subdivision.

Each requirement in the MOU is listed and addressed below:

- 1. Cal Am will diligently pursue any permits and permit amendments necessary to incorporate the Oaks' well into its water system and, upon obtaining such permits, will incorporate the Oaks' well into the Cal Am Monterey District Ambler Park System ("Ambler Park Water System").**

The State Water Resources Control Board – Division of Drinking Water (Division) approved Permit Amendment No. 3 to Original Permit No. 84-013 on June 30, 2015; adding the Ambler Oaks Well as a new source of supply to the existing treatment plant and service area in the Ambler Park Water System. The Ambler Park Water System No. 2710006 is owned and operated by California American Water Company (Cal-Am).

- 2. Cal Am shall on a quarterly basis balance the volume of treated water sent from the Ambler Park Water System to the Oaks subdivision and the water sent from the Oaks well to the Ambler Park Water System so as to result in no net transfer of water. Cal Am shall accomplish said balance by transferring a volume of raw water from the Oaks well to the Ambler Park Water System equal to the volume of water served by Ambler to the Oaks' lots. Equal volume shall include the calculated transportation water loss incurred in connection with Ambler's supply to the Oaks subdivision. The quantity of water pumped from the Oaks subdivision well to the Ambler Park Water System shall match the quarterly total plus the calculated transportation water loss.**

See *Attachment 1: Summary* for the Total Ambler Oaks Well Production, The Oaks subdivision consumption, and transportation water loss. Transportation water loss will only be assigned in the event of a leak on the line between the Ambler Oaks Well site and the Ambler Park Treatment Plant site, otherwise a zero (0) volume of water will be reported each month for transportation water loss. Cal Am began providing the Oaks subdivision with water in April 2008 from the Ambler Park Water System. Ambler Oaks Well began producing water to the Ambler Park Treatment Plant on April 1, 2016. As of 10/01/17 the Oaks Subdivision has a balance of 562 cubic feet to pay back to the Ambler Park Water System. Cal-Am expects to comply with the “no net transfer of water” per the MOU on a quarterly basis. There are no corrective actions required at this time.

- 3. Cal Am shall maintain water meters in good working order for its service to the Oaks lots, including residences and irrigation, so as to determine the amount of water served to the Oaks lots by the Ambler Park Water System. Cal Am shall also maintain a water meter(s) in good working order at the Oaks well, which shall be used to determine the volume of water pumped from the well. Within the first sixty days of each calendar year, Cal Am shall test all meters described in this Paragraph in accordance with corresponding manufacturer(s) specifications, and using competent personnel who are qualified to perform such testing. Cal Am shall submit a report including the results of this testing to the Monterey County Health Department Environmental Health Bureau (EHB) with a copy to the MCWRA no later than thirty days following the completion of the first quarter of each calendar year. The report described in this Paragraph may be combined and submitted with a quarterly report as described in Paragraph 6.**

In accordance with the MOU requirements to test or replace the meters within sixty days of the beginning of each calendar year, Cal-Am replaced the existing three residential water meters and one dedicated irrigation meter on 02/10/17. The new customer meters are Neptune T10 meters that were tested by the manufacturer (see *Attachment 3: Meter Numbers* and *Attachment 4: Meter Test Results*). Cal Am also tested the meters that were removed (*Attachment 6A-6D: Cal Am Meter Test Results*), which were found to be within good working order.

- 4. Cal Am shall on a quarterly basis total the monthly meter readings of the nine lots in the Oaks subdivision and the meter for irrigation of the common entrance. The water system's calculated transportation water loss for the quarter shall be added to the quarterly total meter readings. The quantity of water resulting from the addition of the quarterly total of the monthly meter readings and the calculated transportation water loss shall be pumped from the Oaks' well into the Ambler Park Water System on a quarterly basis during the calendar year (the four quarters being January through March, April through June, July through September, and October through December). Quarterly pumping of the Oaks' well based on the quarterly calculation within the month following the end of the quarter shall be considered to satisfy the no net transfer requirement.**

See *Attachment 5: Consumption* for the monthly consumption of the Oaks subdivision lots. Currently, there are three residential water meters and one dedicated irrigation meter. There are no meters set for the remaining lots. Transportation water loss will only be assigned in the event of a leak on the line between the Ambler Oaks Well site and the Ambler Park Treatment Plant site, otherwise a zero (0) volume of water will be reported each month for transportation water loss. Cal Am began providing the Oaks subdivision with water in April 2008 from the Ambler Park Water System. Ambler Oaks Well began producing water to the Ambler Park Treatment Plant on April 1, 2016.

5. **Cal Am shall on a quarterly basis submit to EHB with a copy to the MCWRA a quarterly water audit report for review by EHB. Cal Am shall submit the water audit report no later than thirty days following each quarter. The water audit report shall be prepared by a qualified engineer experienced in water system operations. The water audit report shall indicate the quantity of water that was delivered to the Oaks subdivision (determined by the quarterly total of monthly meter readings of the nine Oaks subdivision lots and irrigation system plus the calculated transportation water loss) from the Ambler Park Water System and the quantity of water that was pumped from the Oaks' well to the Ambler Park Water System during the quarter. The report shall confirm that the quantity of water pumped from the Oaks' well to the Ambler Park Water System equals the quarterly total plus the calculated transportation water loss. The report shall demonstrate how the calculated transportation water loss was determined. If the report or other information indicates that the volume of water pumped from the Oaks' well into the Ambler Park Water System does not equal the volume calculated from the quarterly meter reading and the calculated transportation water system loss of the Oaks subdivision, then Cal Am shall explain the reasons for the discrepancy and the corrective action Cal Am proposes to take to achieve no net transfer. Cal Am shall take such steps as EHB may require to bring the transfer back into balance.**

Ambler Oaks Well was turned on 04/01/16. See *Attachment 2: Production* for the monthly Well production. The quantity of water used by the Oaks subdivision in the second quarter of the 2017 calendar year was 26,856 cubic feet and the Ambler Oaks Well production during the same period was 0 cubic feet (see *Attachment 1: Summary*). The Ambler Park Water System has supplied the Oaks Subdivision with water beginning March 2008, as of 10/01/17 the Ambler Park Water System has pumped an excess of 562 cubic feet from the Ambler Oaks Well. Based on the flow from the Ambler Oaks Well, the volume of 562 cubic feet can be pumped in one day, and due to the fact that consumption is evaluated on a monthly basis, we are assuming that the "no net transfer requirement" has been met, as a true "0" balance would be difficult to achieve. Now that the transfer has been balanced, Cal Am will be able to satisfy the no net transfer requirement on a quarterly basis.

6. **Cal Am shall begin quarterly pumping of the Oaks' well into the Ambler system in the first quarter after Cal Am obtains all necessary permits to include the Oaks' well within its system. Additionally, to account for the water service provided by Ambler to the Oaks lots predating this quarterly pumping, Cal Am shall as part of its first draw from the Oaks' well transfer into the Ambler system an amount of water equivalent to the total amount of water previously served by Ambler to the Oaks lots.**

The State Water Resources Control Board- Division of Drinking Water (Division) approved Permit Amendment No. 3 to Original Permit No. 84-013 on June 30, 2015; adding the Ambler Oaks Well as a new source of supply to the existing treatment plant and service area in the Ambler Park Water System. The Ambler Park Water System No. 2710006 is owned and operated by California American Water Company (Cal-Am). Ambler Oaks Well went on-line on 04/01/16. The Ambler Park Water System has supplied the Oaks Subdivision with water beginning March 2008, as of 10/01/17 the Oaks Subdivision has paid back all water consumed from the Ambler Water System with water pumped from the Ambler Oaks Well.

Attachments 3: Meter Numbers, Attachment 4: Meter Test Results, Attachment 5: Consumption, and Attachment 6A-6D: Cal Am Meter Test Results are provided under separate cover as they contain confidential customer account information. California American Water requests the Monterey County Department, Environmental Health Bureau (EHB) maintain this information as confidential.

If you have any questions, please feel free to contact Nina Miller, Operations Manager, at 831-646-3237.

Sincerely,



Chris Cook, P.E.
Engineering Manager

Attachments: 5

cc: MCWRA
N. Fowler (FowlerNE@co.monterey.ca.us)
E. Sabolsice
N. Miller
R. James
P. Glass
M. Magretto
J. DiMaggio

California American Water
Monterey District

Ambler Oaks Consumption and Ambler Oaks Well Production				
Month	Ambler Oaks Well Production (CF)	Transportation Water Loss from Ambler Oaks Well (CF)	Water Used By The Oaks Subdivision (CF)	Balance to pay back the Ambler Park Water System from Ambler Oaks Well (CF)
2016 Q#4 Balance	71,816	0	12,017	13,870
Jan-17	38,191	0	3,643	-20,678
Feb-17	32,706	0	3,214	-50,170
Mar-17	0	0	3,168	-47,002
Q#1 Total	70,897	0	10,025	-47,002
Apr-17	0	0	3,222	-43,780
May-17	0	0	8,756	-35,024
Jun-17	0	0	8,729	-26,294
Q#2 Total	0	0	20,707	-26,294
Jul-17	0	0	9,130	-17,164
Aug-17	0	0	9,852	-7,312
Sep-17	0	0	7,874	562
Q#3 Total	0	0	26,856	562
Oct-17				
Nov-17				
Dec-17				
Q#4 Total				

Attachment 2: Production

California American Water
 Monterey District
 Ambler Oaks Well Production
 July 2017

Date	Ambler Oaks (CF)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0
CF	0
1000 G	0
AF	0.00

California American Water
 Monterey District
 Ambler Oaks Well Production
 August 2017

Date	Ambler Oaks (CF)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
31	0
CF	0
1000 G	0
AF	0.00

California American Water
 Monterey District
 Ambler Oaks Well Production
 September 2017

Date	Ambler Oaks (CF)
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	0
30	0
CF	0
1000 G	0
AF	0.00



**COUNTY OF MONTEREY
HEALTH DEPARTMENT**

MEMORANDUM

ENVIRONMENTAL HEALTH BUREAU

Date: October 31, 2017
To: File
From: Nicki Fowler, Supervisor of Environmental Health Review Services
Subject: Cal-Am Ambler Oaks Water Audit Report: 2017, Quarter 3

EHB has redacted pages 7-17 of the referenced report because the remainder of the document contains confidential customer account information. A summary of the information is as follows:

- Meter Information
- Meter Test Results
- Consumption
- Cal Am Meter Test Results