



Bricker & Eckler
ATTORNEYS AT LAW

COLUMBUS | CLEVELAND
CINCINNATI-DAYTON

BRICKER & ECKLER LLP
100 South Third Street
Columbus, Ohio 43215-4291
MAIN: 614.227.2300
FAX: 614.227.2390

www.bricker.com
info@bricker.com

Sally W. Bloomfield
614.227.2368
sbloomfield@bricker.com

November 4, 2008 RECEIVED-DOCKETING DIV
2008 NOV -4 PM 4:48

PUCO

VIA HAND DELIVERY

Ms. Renee Jenkins
Public Utilities Commission of Ohio
Administration/Docketing
180 East Broad Street, 13th Floor
Columbus, OH 43215-3793

Re: Case No. 07-252-WS-UNC
Ohio American Water Company
Stipulation Page No. 16, ¶13D

Dear Ms. Jenkins:

Pursuant to the Commission's March 7, 2007 Opinion and Order in Case No. 06-433-WS-AIR, Ohio American Water Company submits for filing the October 2008 Hardness Report for the Lake Darby district.

If you have any questions, please call me at the number listed above.

Sincerely,

Sally W. Bloomfield

Enclosure

cc: Parties of Record (w/Enclosure)

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.
Technician Sm Date Processed NOV 05 2008

Ohio American Water Co.
Franklin County Operations
Lake Darby Water Treatment Plant
PWSID#2502612

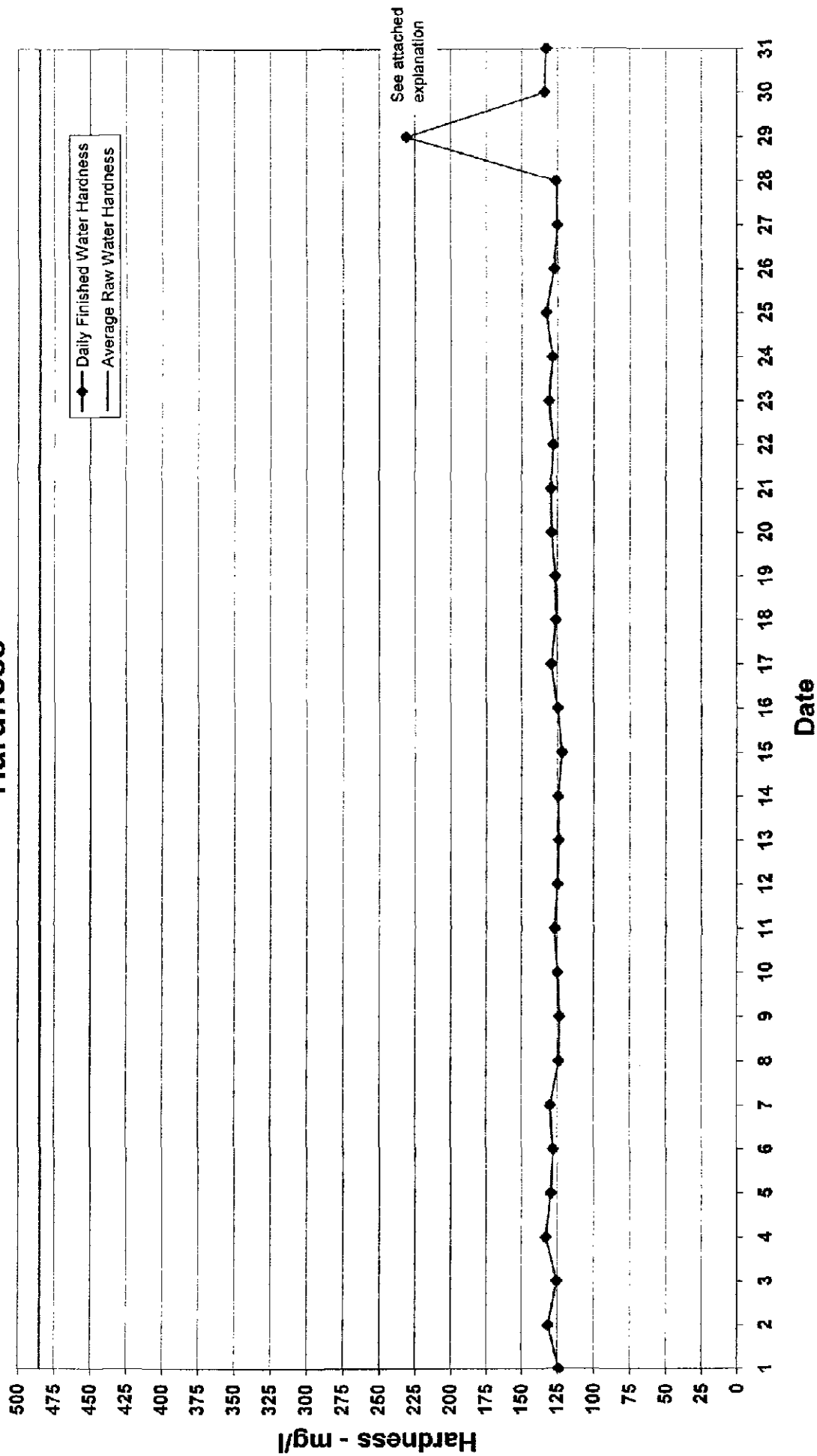
Reporting Period October 2008

Date	Plant Process Control Concentration (mg/l)	Central Laboratory Concentration (mg/l)	Average Daily Plant Finished Water Hardness (mg/l)
1	124	124	124
2	129	134	132
3	127	124	126
4	130	136	133
5	129	130	130
6	130	126	128
7	130	130	130
8	124	124	124
9	125	122	124
10	124	126	125
11	126	128	127
12	124	126	125
13	124	124	124
14	125	124	125
15	124	120	122
16	126	124	125
17	128	130	129
18	128	124	126
19	129	124	127
20	130	128	129
21	129	130	130
22	130	126	128
23	130	132	131
24	129	128	129
25	130	136	133
26	129	126	128
27	126	124	125
28	128	124	126
29	249	213	231
30	128	140	134
31	130	136	133
Min.			122
Max			231
Average			131
% Above 150 mg/l			3.2
% Below 120 mg/l			0.0

See Attached Explanation

*All Hardness analyses were done using Standard Methods, 20th Ed., Method 2340c (Hardness as CaCO₃)

October 2008 - Lake Darby Daily Finished Water Hardness



**Ohio American Water Company
Franklin County District
Lake Darby Water Treatment Plant**

Hardness Concentration Exception Event – October 29, 2008

On October 29, 2008 an elevated hardness concentration was measured at the Lake Darby Water Treatment Plant (LDWTP) by the on line hardness analyzer and confirmed by the operator bench test. As a result of the elevated value measured, Ohio American Water Company (OAWC) immediately began reviewing operating data and investigating possible causes.

Upon reviewing the data, it was determined that LDWTP's two (2) water softeners were both in regeneration operating mode at the same time. This is an unacceptable operating condition. This condition is supposed to be prevented from occurring by each water softener's respective controller monitoring the operating condition of the other controller.

Upon investigation of the two water softener controllers, two separate problems were identified.

- 1) It has been confirmed that water softener #2's control signal from the softener's flow meter to its controller is not correct all the time. While a signal is always present, its electrical value is not consistent. This will cause the softener to prematurely exhaust its softening capacity before the control measures a need to regenerate the softener.

For unknown reasons softener's #2 electrical signal is changing erratically. While the components on softener #1 are identical to the components on softener #2; softener #1 has not demonstrated the same problem.

OAWC has been in contact with both the manufacturer of the flow meter (ABB) and manufacturer of the softener controller (GE Osmonics). While each component has tested OK, during on-line operation the problem has been verified to occur. OAWC is currently obtaining a temporary flow meter unit to replace the existing unit so as to be able to perform additional testing in the field.

- 2) It has been confirmed that the lock-out device of softener #1 preventing it from regeneration while softener #2 is in a regeneration cycle is not operating. Lock-out of softener #2 from regeneration while softener #1 is in a regeneration cycle has been confirmed to be operating properly.

This is a unique problem that occurs only when certain operating conditions are present in a specific sequence.

The correction of this problem will require rewiring of the two control logic relays and some limited software changes to the controller.

The above issues are being addressed and a fix should be implemented by mid-November. In the meantime the on-line hardness analyzer is being programmed to shut the LDWTP down if the hardness concentration exceeds 150 mg/L.