



DEPARTMENT OF THE ARMY
CAMP STANLEY STORAGE ACTIVITY, MCAAP
25800 RALPH FAIR ROAD, BOERNE, TX 78015-4800

November 3, 2011

U-157-11

Vera Poe, PE Team Leader
Utilities Technical Review Team, MC-159
Plan and Groundwater Review Section
Water Supply Division, TCEQ
PO Box 13087 Austin, TX 78711-3087

SUBJECT: Well Log No. 200811-111; CN600126262; RN 100662840; Plan Review Log No. P-0620211-99 Camp Stanley Public Water System ID No 0150117

Dear Ms Poe:

I am writing to follow-up on the issue you identified in our interim approval dated 23 June of concerns over secondary MCLs for iron and aluminum for our new well, CS-12. We conducted additional sampling on September 14 and October 11 and our new results are below secondary levels for aluminum and for iron. For that reason and the fact that water from this well provides only 20 - 25% of our total water in a combined system and we have tested a system distribution point and it is far under secondary MCLs, we hope that you will concur that the issue is resolved. We will conduct additional sampling of CS-12 for aluminum and iron in six months to verify the status.

To provide the full perspective, below is a summary of all the samples referencing iron and aluminum that we have collected to date at well CS-12. The secondary MCLs are 0.05 to 0.2 mg/l for aluminum and 0.3 mg/l for iron.

- Sample from Mar 25, 2009: 0.65 mg/l for aluminum and 0.44 mg/l for iron
- Sample from July 27, 2011: 0.19 mg/l for aluminum and 2.01 mg/l for iron
- Sample from Sep 14, 2011: nondetect for aluminum and 0.08 mg/l for iron
- Sample from Oct 11, 2011: nondetect for aluminum and 0.22 mg/l for iron *preliminary result

We believe the extreme drought and resulting significantly lower aquifer level may be the cause of these issues and that once the drought breaks, this will no longer be an issue at all. It could alternatively just have been caused by well installation issues.

Water is blended from this well and two other wells into our drinking water system and we have not noticed a change in drinking water quality since well CS-12 was placed on line. From our pumping records since the well was put in service last summer, this has varied between 20 - 25% of total water pumped into our distribution system. On August 18, we sampled a point in our distribution system (one of our standard sampling points already used by TCEQ for water quality sampling) and the results were far below secondary MCLs:

- Sample from Aug 18, 2011: nondetect for aluminum and 0.07 mg/l for iron

Given that our follow-up samples are below secondary MCLs and that this well only represents 20 – 25% of water quantity in our water distribution and a system sample was under secondary MCLs, we believe this issue will not significantly detract from drinking water quality at Camp Stanley. We will conduct additional sampling of CS-12 for aluminum and iron in six months to verify the status.

If you have any questions concerning this letter, please contact me at (210) 698-5208.

Sincerely,

A handwritten signature in black ink that reads "Gabriel Moreno-Fergusson". The signature is written in a cursive style with a large, prominent 'F' at the end.

Gabriel Moreno-Fergusson
Environmental Program Manager

Enclosures

Laboratory Results from 27 July 2011 Sample of Well CS-12

Laboratory Results from 18 August 2011 Sample in Distribution System

Laboratory Results from 14 September 2011 Sample of Well CS-12

Laboratory Results from 11 October 2011 Sample of Well CS-12