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Cc: Jon Christensen <[REDACTED]>, Rich Kahn <[REDACTED]>

Subject: LSJ RO Service Report

Date: Wed, 22 Mar 2017 15:04:23 +0000

Attachments: LSJ_Field_Service_report._3-2017.docx

Jeffrey

Attached, LSJ RO Service Report dated 3/21/17 for your review

Based on this report, water production and quality levels should be getting back to normal. Flushing of entire system should continue.

Below is a paragraph from the report which outlines the Critical Issues discovered with the **Post Water Treatment**.

" and found the chemical injection pump dosing over **Twice** what it should be dosing which will cause an excessive amount of calcium carbonate to be consumed as well as poor water quality being delivered into the cistern. He also found the calcium carbonate reactor valve itself in the closed position probably due to the fact that with improper chemical dosing, the final product water was very high in calcium carbonate or hardness, so someone just figure that it would be best just to shut it off rather than properly adjusting the chemical feed. Unfortunately, this allowed for **Very Low Ph Water** to be fed into the cistern which when one considers that the cisterns on LSJ are of concrete design, will cause damage through attrition of the cistern itself as well as cause a rise in hardness and conductivity of the treated water."

Post Treatment has been calibrated

Water Hardness was measured @ 20ppm hardness, and as stated in the report will be increased to normal operating levels of 40ppm once the entire system recovers.

Please note most Water Softness are rated to 40ppm

Service Reports from 2014, 2015 and now 2017 all highlight the same issue, lack of Plant Maintenance and Poor Plant Operation

The Go Forward- My recommendations

Water Samples be taken again at the beginning of next week, from Plant, cistern and MB

Smiley needs to be made Accountable for the RO Plant. He needs to understand if this happens again he will be released.

He also needs to complete an online RO Operators course as a prerequisite for his job.

The amount of time off he takes for University classes also needs to be addressed.

Danny Ettinne should also receive training and complete the operators course, so there are two people on island who know the operation of the plant, to cover holidays etc

Reporting should be forwarded to Management for review

Can we proceed with the above recommendations?

regards

Brice Gordon