
R.W.W.D. MEMORANDUM

TO: RWWD TRUSTEES

FROM: JOE MATIAS – OPERATIONS MANAGER

SUBJECT: APRIL MONTHLY REPORT

DATE: JUNE.07/23

CC: HEIDI HANSEN

INTRODUCTION

This memo provides results of Raleigh Water Works District operational events that have taken place during this past month, for all disciplines of the RWWD department.

Water Treatment Plant:

May was a challenging month for water quality of raw water treatment due to the annual freshet characteristics. Several jar testing procedures were conducted by the RWWD staff in order to optimize the coagulation of the soluble and insoluble organics in the raw water. The plant was optimized eventually after these jar tests were conducted and we have been at full production capacity ever since. Regular maintenance was conducted in the month of May along with the annual recertification of all back flow preventors at the WTP and irrigation fields. Field #6 BFP requires a rebuild kit and retest due to its failure from Evans Fire protection Ltd. UV reactor #1 had lamp #11 power cable replaced due to failure by TMoore Electrical. We had both chemical providers Alumichem and Cleartech onsite conducting jar tests on new coagulants and polymers that could potentially optimize our process operations and be more cost effective. On the evening of May.30/23, train #1 AC transfer pump VFD stopped working resulting in an inoperable part of our treatment system producing 50% of our treated water to the community. TMoore electrical was brought in to assess the following morning resulting in a compromised VFD. Due to not having the proper critical spare and huge delays for replacement, a decision was made to initiate the emergency response of immediate mandatory water conservation notices to the public door to door, signage, website notification, local Facebook group and notices on mailboxes. The IHA officer was also notified immediately during commencement of notices. Immediate action by TMoore Electrical was initiated over the next two days to try to get our system going again with other means.

River Intake:

The sand separator was put into operation on May.02/23 due to changes of incoming raw water qualities and rising river levels. The summer pump was put into operation on May.18/23 as per usual seasonal requirements and protocols.

Water Distribution:

Consistent and regular weekly bacteriological testing have been completed on the distribution sampling, along with the quarterly THM/HAA/TOC sampling to meet the Conditions of Permit for our system. There were two water shutoffs for the month of May for residential repairs. On May.31/23 a curb stop was replaced at 4598 Cammeray as it was inaccessible for emergency shutoff required for residence.

Septage System:

Regular preventative maintenance and daily rounds are being conducted 7 days a week, including pump hours and effluent discharge volumes under the wastewater permit. One irrigation valve was replaced on field #6. The plant septic tank was pumped out on May.13/23. The Cub Cadet mower went in for repairs again and is awaiting parts for repair.

BC One Tickets:

There were 17 BC One tickets for the month of May that the RWWD operations addressed with two related to shutoffs for residential repairs.

Yours truly,

Joe Matias

Operations Manager

Rayleigh Water Works District