Timeline report of action on storms April 20th to May 4th 2017

Friday April 20th - .97" of rainfall began late that afternoon. Minimal effect on overall flow for the day for a total effluent of 7.948 MG, but by midnight, our influent flow was 22 MGD and we were sending water to our Equalization basins (EQ). Lost internet Connection so we were staffing the plant 24 hours. Only 3' went into the EQ basin during the evening and was empty by 8:00 PM.

Saturday April 21st – 2.21" of rain was recorded at the plant. As we sent water to the EQ after 9:00 AM, our flow into the plant dropped to 18.2 +/- by 6:00 AM. When staffing arrived at the plant where we could monitor the flow visually, we increased the flow back to 20 MGD around 10:30 AM. At around 8:00 flow to the EQ had stopped and we had around 7' of water in them.

Sunday April 22nd – Clarifier 1 rake faulted the evening of the 22nd, we assumed at the time it was due to some piece of debris from the storm that got into our system. We reversed the rake and tried several attempts, but it would not clear. The rain had stopped and we had room in the EQ, so we reduced flow to that clarifier and reduced plant flow to around 15 MGD. The EQ maintained approximately 7' of water through the 23rd.

Monday April 23rd - No more rain, we diverted all flow around train 1 at approximately noon to drain the clarifier and visually inspect rake for the issue. In the interim, we inadvertently overloaded train 2 and had a minor overflow of train 2. We found the clarifier problem to be excessive solids. We also found several loose fasteners which were tightened. We dislodged the solids and put the clarifier back online and began to process flow again at +/- 16 MGD through April 24th. The minor overflow was reported to ADEQ by phone on Tuesday April 24th and email April 28th. We had lowered the EQ to around 6' by the end of the day.

Tuesday April 24th- We had more rain in the forecast for Wednesday the 25th, so we timed our flow to empty the EQ basin before that event. The EQ was at approximately 5' of water by the end of the day.

Wednesday April 25th – Todd returned from bereavement leave. The internet issue was resolved. The EQ was under 5' by the end of the day.

Thursday April 26th – The forcasted rain began at around 12:30 A.M. and rained 1.6". We ran the plant as full as we could with the solids in the clarifier being the limiting factor at +/-21.5 MGD. The EQ was back up over 5' by the end of the day.

Friday April 27th – No rain recorded. Ran the plant at approximately 20 MGD while we were awake to watch it and slowed it down to 16 while we were asleep. The EQ was under 3' by the end of the day.

Saturday April 28th – The rain started again at approximately 11:00 PM and we recorded 2" by 8:30 on the 29th. We ran the plant at around 18.5 MGD +/-. We did get the EQ empty right as the rain began again as planned.

Sunday April 29th – By 9:00 PM our gauge was maxed out at 4.4" since 8:30 AM. We aren't sure how much more it rained since it doesn't reset until 8:30 AM on the 30th. We ran the plant at around 22 MGD +/-. The EQ overflowed at 7:08 PM and we began sampling the overflow.

Monday April 30th – No precipitation recorded. We continued to run the plant at 21.5 MGD +/-. Overflow stopped at 2:25 AM.

Thursday May 4th, The EQ basins were emptied again and the rainfall event was mostly ended. Flows to the facility are still elevated at around 11 MGD.

The total overflow volume is 17.233 Million gallons.