



November 15, 2019

(Via electronic mail)

To:
City of Richmond
Yader A. Bermudez
City Engineering and CIP Director
450 Civic Center Plaza
City of Richmond, CA 94804

Subject: October-2019 Monthly Operations Report

From:
Manuel Molina
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Municipal & Commercial
VEOLIA NORTH AMERICA
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Mr. Bermudez,

Section 5.11 of the 2002 CITY OF RICHMOND WASTEWATER TREATMENT FACILITY CAPITAL IMPROVEMENTS, OPERATIONS, MAINTENANCE AND MANAGEMENT AGREEMENT BY AND BETWEEN THE CITY OF RICHMOND, CALIFORNIA AND VEOLIA NORTH AMERICA (the Agreement) states (in part), *"The Company shall submit to the City a monthly progress report detailing work accomplished and an updated schedule. The monthly progress report shall include a summary of work activities during the reporting month, a listing of upcoming work activities, a listing of submittals delivered during the reporting month, a listing of submittals scheduled for delivery the following month, a listing of any permit violations, and an updated schedule which reflects critical path activities. The updated schedule shall set forth major activities and reflect any change in the Company's estimated construction progress schedule from the schedule submitted the prior month."*

Therefore, the following Monthly Operations Report is being submitted pursuant to Section 5.11 of the 2002 services agreement.

Monthly Operations Report: October-2019

- I. Summary of work activities during the reporting month October-2019
 - a. Safety
 - i. There were no OSHA Recordable Incidents or Lost Time Accidents
 - b. Capital Projects Management
 - i. Baykeeper Settlement Agreement Projects
 1. Year-2 sewer pipe rehabilitation projects
 - a. Continuing to coordinate year-2 pipe project with City paving projects
 - i. Year 2 – Repairs to be based on 2019 RAA. First Rehabilitation and Replacement (R&R) RFP package for City Paving Conflicts will be prioritized to go out first
 - b. Discussions on-going with City staff regarding prioritization and procurement delivery method
 2. Capacity-related sewer projects
 - a. Cutting/Carlson & Hoffman
 - i. The Contractor had one crew finalizing change order work in October and preparing for easement work.
 - ii. Approximately 1,500 linear feet of remains due to easement access issues; unfolding as the City resolves easement with the County. Pending resolution with the City's legal department.
 - b. MacDonald & Virginia
 - i. Pre-Construction kick off meeting was held October 3rd.
 - ii. Notice to Proceed was issued 10/7/19 to W.R. Forde & Associates.
 - iii. Construction is anticipated to begin in the fall of 2019 and complete by January 2021.
 - iv. Forde is working on initial submittals and mobilization.
 - c. First Street Design
 - i. This design can now proceed since Baykeeper submitted comments which did not challenge the use of the new design storm.
 - ii. Vivian W. Housen & Associates is under contract for this design work.
 - ii. Manhole Rehabilitation Program
 1. The FY18/19 program is approximately 94% complete
 - a. Bay Hawk installed two new manholes under the FY18/19 program budget in October.
 2. July-2019 commenced the FY19/20 program year and discussions are underway to develop an agreed to method for prioritizing future manhole rehabilitation efforts and in determining the procurement delivery method to complete the efforts; City budget for this effort was reduced to \$250K for this fiscal year, which will also be the annual amount moving forward.
 - iii. Wastewater Treatment Plant High-priority Projects
 1. Continued providing assistance to City staff as-needed for SRF Application.

2. Continued preparation of bid documents for the Grit/Screening and Aeration Upgrade Projects.
 3. Reviewed and incorporated comments on SRF-related specifications.
 4. Continued preparation of and submitted project memorandum summarizing the results of the raw sewage pipe condition assessment.
 5. Continued preparation of project memorandum addressing Veolia treatment capacity questions.
 6. The Cogen Project Phase I kick off meeting was held October 8; this project will include gas testing, design of the cogeneration unit including gas treatment, and analysis of the flare system for needed updates to work with the Cogen system or as required by the Bay Area Air Quality Management District (BAAQMD).
- iv. Storm Water Projects
1. Trash Capture Device
 - a. Work at Meeker Ditch Installation is substantially complete.
 - b. W. R. Forde is waiting on isolation gates that are on order to finalize the project.
 - c. Change order 1 Task Authorization went to the City for approval (re unforeseen field conditions).
- v. Other Projects
1. Sewer Master Plan Update
 - a. The hydraulic model was updated and results summarized in a SECAP report that was submitted to SF Baykeeper by July 15, 2019, as required. Baykeeper returned comments in September and the City responded to this letter.
 - b. Development of the final master plan document to include the I&I reduction evaluation and any resulting updates to capacity improvement project needs is on track for draft submittal to the City on October 14.
 2. Valley View Road Emergency Repairs
 - a. Short-term repairs are complete.
 - b. The CIPP Liner, which had been ordered earlier, was delivered and installed mid-October, on a weekend, to minimize impact to local traffic near the school.
- c. Collections Systems and Wastewater Treatment Plant Operations and Maintenance
- i. Collection Systems Operations and Maintenance
 1. Baykeeper Settlement Agreement Projects
 - a. Work completed to prepare CCTV records by 10/18/2019 for the submittal of an RAA update due by 1/15/2020
 - b. Discussions with the City on procurement delivery method to repair the more than (100) pipe segments identified as inaccessible for CCTV condition principally resolved: Veolia-CPM to bundle most of the pipe segment point repairs whereas Veolia-O&M will address those pipe segments on the Hot Spot List requiring point repairs
 2. 4-year out wastewater system cleaning progress
 - a. Actual miles of system cleaned in 2019 = 77.1
 - i. 2019 miles planned for cleaning = 50.8

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- ii. 2004 Service Agreement annual cleaning miles objective = 49.8
- 3. 10-year Out wastewater system CCTV condition assessment progress
 - a. Actual miles of system CCTV'd in 2019 = 42.9
 - i. 2019 miles planned for cleaning = 19.7
 - ii. 2004 Service Agreement annual CCTV miles objective = 19.7
 - b. Total gravity pipe segments in system reporting in InfoNet = 3606
 - i. Pipe segments with CCTV < 10-years = 3445
 - ii. Pipe segments with CCTV > 10-years = 161
 - 1. (0) pipe segments CCTV pending
 - 2. (139) pipe segments needing point repairs before CCTV can be completed
 - a. (124) pipe segments assigned to Veolia-CPM for completion
 - b. (15) pipe segments assigned to Veolia-O&M for completion
 - 3. (22) of the (161) are Baykeeper-exempt from CCTV
- 4. Sanitary Sewer Overflows
 - a. Actual SSO's in 2019 = 25
 - i. Permissible by Baykeeper Settlement Agreement = 27 (for 2019)
- 5. Customer Service Calls = 22
- 6. Emergency & Miscellaneous Repairs
 - a. (2) wastewater point repairs
 - b. (4) manhole cover repair
 - c. (0) storm water point repairs
- 7. Storm water collection system progress
 - a. Customer service calls = 7
 - b. City service calls = 2
 - c. Catch basins cleaned = 55
 - d. Trash capture devices cleaned = 0
 - e. Pump Stations cleaned = 1
 - f. Pipe segment cleaned = 1607-Ft
 - g. Pipe segment CCTV'd = 25-Ft
- ii. Wastewater Treatment Plant Operations
 - 1. Permit Violations – None
 - a. Average daily flow = 4.45-MGD
 - b. Peak daily flow = 17.23-MGD
 - c. Effluent BOD/TSS mg/L = 22.1/12.2
 - i. Permit Limits for Effluent BOD/TSS mg/L = 30/30
 - d. Plant Odor complaints = (5)
 - i. In response to odor complaints:

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1. Veolia maximized dosing of Hydrogen Peroxide to plant headworks (City system and direct cost)
 2. Veolia maximized dosing of Sodium Hypochlorite to plant headworks (Veolia system and pass-through chemical cost to City)
 3. Veolia maximized dosing of Ferric Chloride to Primary Clarifier influent (Veolia system and pass-through chemical cost to City)
 2. Non-standard operating conditions
 - a. Repeated Bar Screen failure resulting in temporary bypass of the Bar Screen for a portion of the raw influent flows to the Primary Clarifier
 3. Regulatory agency reporting
 - a. All standard monthly reports submitted in a timely manner with no exceptions reported back from the regulator
 - b. Maintained communication with Bay Area Air Quality Management District (and City) during series of odor complaint events
 - iii. Collection System Pump Station and Wastewater Treatment Plant Equipment/Facility Maintenance
 1. Total preventive maintenance work orders completed = 233
 2. Total corrective maintenance work orders completed = 25
 3. All wastewater treatment plant mission-critical and redundant systems and equipment were observed and/or maintained and/or repaired as scheduled and/or required
 4. All Storm and wastewater collection system pump stations were routinely checked and maintained as scheduled
 - a. Storm water pumps stations monitored = 8
 - b. Wastewater pump stations monitored = 15
 5. Special projects
 - a. Completed corrective maintenance on failed influent bar screen, no redundant system exist while repairs were be affected so downstream operational changes and negative impact to water treatment process were observed but managed
 - b. Completed corrective maintenance on Primary Clarifier #2
 - c. Completed corrective maintenance on Aeration Basin 2C motor/rotor
 - d. Completed corrective maintenance on Keller Beach failed pump
- II. List of upcoming activities
- a. Continue discussions with City staff regarding prioritization and procurement delivery method for various maintenance and construction projects noted previously
 - b. Continue planned CPM and O&M activities previously described in section I.b and I.c, respectively, above
- III. List of submittals delivered during the month
- a. CPM
 - i. 190920 SECAP Changer Order #2
 - ii. 190926 – As-builts for SCADA and SCADA design services
 - iii. 190930 – Trash Capture Device Changer Order #1

- b. O&M

- i. None

- IV. List of submittal scheduled for the following month

- a. To be determined

- V. Listing of permit violations

- a. None (as noted in report item # I.c.ii.1 above)

- VI. Updated critical path schedule

- a. There are no current projects operating under a critical path method of delivery

- VII. Other Project Discussion

- a. CPM

- i. None

- b. O&M

- i. None