



December 31, 2020

(Via electronic mail)

To:  
City of Richmond  
Yader A. Bermudez  
Director of Public Works  
450 Civic Center Plaza  
City of Richmond, CA 94804

Subject: November-2020 Monthly Operations Report

From:  
Brian K. Bruce  
General Manager, Veolia-Richmond  
Municipal Water  
VEOLIA NORTH AMERICA  
601 Canal Boulevard, Richmond, CA 94804

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 (as amended, 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 Agreement.

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- I. Summary of work activities during the reporting month November-2020
  - 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 project – Risk Assessment Analysis (RAA) project
        - a. The City decided to stop construction work on this project and utilize O&M emergency pipe segment repairs to fulfill the remaining mileage required under the Baykeeper Order. All initial work authorized by the City under the 2019 RAA project was completed by June 30, 2020.
        - b. Status of project:
          - i. PCO #7 (segment repair at 23<sup>rd</sup> and Garvin) was approved by the City on June 29, 2020; PCO #34 (segment repair at Barrett/34<sup>th</sup> Street) was approved by the City on July 22, 2020.
          - ii. All work is complete; a Task Authorization (TA) was submitted to the City for Change Order 1 on 6/24/20; a second TA (for Change Order 2) for the above change order work is prepared for the City's review once Change Order 1 is approved.
      2. Capacity-related sewer projects
        - a. Cutting/Carlson & Hoffman
          - i. The project was substantially complete by the revised completion date of March 15, 2020 provided to Baykeeper.
          - ii. Updated CCTV indicated Plan Line Q required complete replacement and additional work on Plan Lines R&T; Line Q work was completed and work is commencing on Plan Lines R&T; Staff is awaiting completion and acceptance of final post-construction CCTV.
          - iii. CCTV work was completed on July 24, 2020; video files were delivered to Veolia for review.
          - iv. All work is complete; a Task Authorization (CO6) for the above change order work was submitted for the City's review on September 25, 2020.
          - v. Project CCTV rework was conducted in October and resubmitted to Veolia; it is currently under QA/QC review by the designer, V.W. Housen & Associates.
        - b. Macdonald & Virginia
          - i. By the end of November 2020, the Contractor had installed approximately 17,895 linear feet (13,230 lf Macdonald; 4,665 lf Virginia) of main pipe and laterals. What remains is pavement restoration.
          - ii. The Project is on schedule and is anticipated to be complete by the end of January 2021.

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## c. First Street Design

- i. V. W. Housen & Associates delivered its 100% design drawings of the First Street sewer relief in August. Veolia transmitted copies of the 100% submittal to the City for review.
  1. Pursuant to City direction, two pipe segments have been identified as problematic due to operational concerns that they could contribute to SSOs (First and Bissell); these segments were separated out as a separate project in August.
  2. The First & Bissell project was posted for advertisement on PlanetBids on September 14, 2020.
  3. The City requested CCTV confirmation of all of the First Street pipelines, which was submitted in September.
  4. First & Bissell bids were opened on October 5, 2020; five bids were received. The low bidder is W.R. Forde. This project was approved by Council on November 24, 2020.
  5. The First Street Relief Sewer and Pipeline Rehabilitation project Pre-construction meeting is scheduled for December 4, 2020.

## d. Bush & Hayes Sag

- i. The City authorized W.R. Forde to complete the work; all work was completed on July 17, 2020.
- ii. A change order TA was submitted on June 24, 2020; City TA approval is still pending.

## ii. Manhole Rehabilitation Program

1. The FY19/20 Manhole Rehabilitation Project opened bids on January 30, 2020; the project was awarded to W.R. Forde.
2. A Task Authorization was prepared and submitted to the City in early March. The project was approved at the May 19, 2020 Council Meeting.
3. Veolia received the executed TA from the City on June 22, 2020.
4. Subcontracting was completed on July 16, 2020, and the Notice to Proceed was issued July 21, 2020 effective July 27, 2020.
5. On August 5, 2020, the Contractor was given a notification of suspension of work.
6. On August 28, 2020, the W.R. Forde notified Veolia that its listed subcontractor, Nor-Cal Pipeline, refused to enter into a contract with W.R. Forde and that W.R. Forde would like to substitute H&R Plumbing for Nor-Cal Pipeline.
7. All work is on hold at the direction of the City.

## iii. Wastewater Treatment Plant Projects

1. The Grit/Screening and Aeration Upgrade Projects (as part of the High Priority Project) was advertised for bidding on PlanetBids on September 15, 2020.
  - a. A mandatory pre-bid site walk was conducted on September 25, 2020, and approximately 25 potential bidders attended.

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- b. Bidding concluded on 11/24/20. Two bids were received from Shimmick Construction (\$33,773,000) and Mountain Cascade Inc. (\$34,227,000). Bids are under review.
  2. Cogen Project
    - a. The Cogen Project Phase I was ongoing in November, with remote meetings continuing due the COVID-19 constraints.
    - b. A draft Basis of Design Report (BODR) was submitted to the City in early June; the City provided initial comments, and Veolia continued its technical review in July.
    - c. The Design Build Entity (DBE, C. Overaa Co.) and Veolia continued review of the subcontract.
    - d. Veolia independently reviewed Overaa's calculations and assumptions for Greenhouse Gas (GHG) reduction during October.
    - e. Veolia submitted the final Basis of Design Report to the City on 11/23/20
  3. The SCADA (Supervisory Control and Data Acquisition) Phase I Project, which replaces the existing SCADA system and maintains the upgrade, was ongoing in July. The Phase I portion is expected to be complete by December 2021.
    - a. Calcon (Subcontractor) continued server integration into the SCADA system, screen construction, rollout of the ignition system usage, functionality test, reports, charts, etc.
    - b. Calcon continued to work on remote site P&IDs in October and November; they also began work on the Bomgar Server, WWTP system PLC upgrades and the Managed Network System, including system design and material procurement.
  4. Seismic Evaluation – The City selected ZFA Structural Engineers. The project kicked off on June 30, 2020. July was spent gathering documentation for the project (i.e., past Plant project documentation, record drawings, etc.);
    - a. ZFA continued to present the facility assessment during August and submitted a Basis of Design Report (BODR) on August 26, 2020.
    - b. ZFA began facility seismic evaluation/investigations on 9/2/20.
    - c. ZFA presented the preliminary seismic analysis of the Influent Pump Station at the 10/13/20 Progress Meeting.
    - d. ZFA continued the preliminary seismic analysis of other WWTP structures included in their scope of work, including Aeration Basins and Digester Facilities.
    - e. ZFA submitted requests to Veolia for SCADA operational data to assist their seismic evaluation of WWTP facilities.
    - f. ZFA submitted a proposal at the request of the City of Richmond and Veolia, to expand their scope of work for the remaining facilities at the WWTP, not included in their original scope of work.



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## v. Other Projects

### 1. Sewer Master Plan Update

- a. The Final System Evaluation and Capacity Assurance Plan (SECAP) was submitted to the City on November 15, 2019.
- b. The City is planning to have the City Council adopt a report once Baykeeper comments have been submitted.
- c. A meeting to discuss Baykeeper comments with Nicole Granquist of Downey Brand was held on July 27, 2020. No update for November.

## c. Collections Systems and Wastewater Treatment Plant Operations and Maintenance

### i. Collection Systems Operations and Maintenance

#### 1. Baykeeper Settlement Agreement Projects

- a. The 2020 RAA was re-submitted to Baykeeper on 5/28/20
  - i. Inclusive to Veolia's submission of the 2020 RAA to the City of Richmond, the City of Richmond, in its submission of the 2020 RAA to Baykeeper, requested relief for one year in the requirement to repair an average of 2-miles/year of pipe segments having PACP Grade-5/4 defects such that the funds required for this work could be used instead to address the remaining inaccessible pipe segments reporting in the 2020 RAA as requiring repairs so that the CCTV condition assessment of the entire wastewater collection system can be completed. At present, Veolia-CPM is completing the preparations for a project to address the reported 2020 RAA inaccessible pipe segments; though it has not been determined at this time if whether or not the entire list of inaccessible pipe segments are to be repaired under a single project

#### 2. 4-year-out wastewater system cleaning progress

- a. 2004 Service Agreement annual cleaning miles objective = 49.8
  - i. 2020 planned hotspot cleanings (altered by the BKSA) and pre-CCTV cleaning = 54.43 actual miles cleaned to date = 115.27
  - ii. Actual unplanned various cleanings, i.e., service calls, post construction, etc. = 27.76

#### 3. 10-year-out wastewater system CCTV condition assessment progress

- a. 2004 Service Agreement annual CCTV miles objective = 19.7
  - i. Grade 4 and 5 miles planned annual condition assessments (altered by BKSA) and 70% or less = 57.6; actual complete = 45.8 miles
  - ii. Actual unplanned post construction completed CCTV = 3.6
- b. Total gravity pipe segments in system reporting in InfoNet = 3,649
  - i. Pipe segments with CCTV < 10-years and > 70% complete = 3,470
  - ii. Pipe segments with CCTV > 10-years = 179
    1. (41) are greater than 10 years

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- a. (23) pipe segments have been attempted but are currently inaccessible due to various reasons. (Cars parked on manholes, private property, etc.)
    - b. (9) are completed and pending data upload
    - c. (9) Segments scheduled but not completed as of Nov 30th
  2. (116) have surveys within 10 years but are less < 70% complete
  3. (0) pipe segments needing point repairs before CCTV can be completed
  4. (22) are Inaccessible due to submerged pipes - Keller Beach
4. Sanitary Sewer Overflows
  - a. Actual SSO's in November = 0
  - b. Actual SSO's YTD, 2020 = 7
    - i. Permissible by Baykeeper Settlement Agreement = 24 for 2020
5. Customer Service Calls = 4
6. Emergency & Miscellaneous Repairs
  - a. Wastewater point repairs = 1
  - b. Manhole cover repair = 2
  - c. Storm water point repairs = 0
7. Storm water collection system progress
  - a. Customer service calls = 3
  - b. City service calls = 0
  - c. Catch basins cleaned = 3
  - d. Trash capture devices cleaned = 0
  - e. Pipe segment cleaned = 3 segments/83.03 ft.
  - f. V-ditched cleaned = 0-Ft
- ii. Wastewater Treatment Plant Operations
  1. Permit Violations – None
    - a. Average daily flow = 4.71 MGD
    - b. Peak daily flow = 8.69 MGD
    - c. Effluent BOD/TSS mg/L = 17.0 mg/l /16.3 mg/l
      - i. Permit Limits for Effluent BOD/TSS mg/L = 30/30
    - d. Plant Odor complaints = 2

These were reported from BAAQMD and phone calls to the plant.
  2. Non-standard operating conditions - DAF unit still out of service. Continuing to use the gravity belt sludge thickener. Repair/Replacement parts scheduled to be delivered around mid-December. Installation and testing will follow as soon as possible after delivery.
  3. Regulatory agency reporting – All standard monthly reports submitted in a timely manner with no exceptions reported back from the regulator

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- iii. Collection System Pump Station and Wastewater Treatment Plant Equipment/Facility Maintenance
  - 1. Total preventive maintenance work orders completed = 95
  - 2. Total corrective maintenance work orders completed = 15
  - 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 the bi-annual Digester Dystor Cover Preventative Maintenance
    - b. Completed the bi-annual Influent Bar Screen Preventative Maintenance
    - c. Replaced the Influent Bar Screen Compactor drive unit
    - d. Completed the Primary Clarifier Basin #2 Preventative Maintenance
    - e. Replaced the Vertical Turbine W3 stator motor
    - f. Completed the Preventative Maintenance on all plant facility and collection pump stations back-up power generators.
    - g. Installed the secondary UPS battery-back-up system for the main plant generator room.
  
- 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. 2019-20 Sewer Segment Rehab Project, RAA Year Two Change Order 1 TA – submitted 6/24/20.
    - ii. Cutting, Carlson & Hoffman TA Change Order 6 – submitted on 9/25/20.
    - iii. Force Main Manhole Rehab TA (revised) - submitted 10/14/20
    - iv. First & Bissell Sewer Repair – submitted on 10/21/20.
    - v. WWTP High Priority Design No Cost CO 5 TA - submitted on 11/13/20
    - vi. 2021 RAA TA for V.W. Housen - submitted on 11/18/20
  
  - b. O&M
    - i. RAA/SECAP/Master Plan TA – Submitted March 27<sup>th</sup>, COR responded It is with the Attorney's
    - ii. Boiler Burner #2 TA – Submitted May 20<sup>th</sup>, COR responded June 3<sup>rd</sup>, It is with the Attorney's
    - iii. NASSCO upgrade from 6.0 to 7 TA – Submitted May 19<sup>th</sup>, Rejected by the COR on 9/23/20
    - iv. Collection Camera Cable Replacement TA – Submitted on 5/22, COR requested detail on 7/15, we provided on 7/21, Rejected by the City on 9/23/20



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- v. Collection Gas Detectors TA – Submitted 6/23/2020, COR asked further detail on 6/24, we provided requested detail on 6/26, COR asked further detail on 7/21, we provided on 8/10, Rejected by the COR on 9/23/20
  - vi. Portable Sludge Thickener TA – Submitted 8/25/20 – Received written approval by email from Yader on 8/25/20 to order the unit from Synagro while the TA is processed
- IV. List of submittal scheduled for the following month
- a. To be determined
- V. Listing of Permit Violations
- a. None
- 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. Rolling Stock Inventory
      - a. Audit completed and provided to the City on May 19, 2020. Review and recommendations provided to the City on August 24, 2020
      - b. Veolia is renting and/or leasing any rolling stock inventory that is needed to perform the daily operations of the system and will continue to bill the City until the City can provide the necessary Vehicles as per the contract for Veolia to perform the work
      - c. Veolia provided the new Vactor truck specs and quote on November 25, 2020 as requested. Seeking new specs/quotes for new Camera truck, new Jetter truck and a new push camera.