



Electronic Transmittal

September 12, 2022

To:
City of Richmond
Joe Leach, PE
Director of Public Works
450 Civic Center Plaza
Richmond CA 94804

From:
Veolia North America
Mike Greene
General Manager, Veolia-Richmond
601 Canal Blvd, Richmond, CA 94804

RE: MONTHLY OPERATIONS REPORT_ DECEMBER-2021

ATTN: Joe Leach

The following operations report is being submitted pursuant to Section 5.11 of the 2002 Operations and Maintenance Agreement between the City of Richmond and Veolia Water North America.

The report presents a summary of activities for the month of December, 2021. Note, significant portions of the information contained in the following summary have been previously covered in the (live) Biweekly Progress Meetings conducted between the City of Richmond and Veolia.

SUMMARY

1. SAFETY

1.1. Training: Required Monthly Safety Training was completed for staff

1.2. Covid 19 Restrictions: Masks are currently required for indoor spaces



2. CAPITAL PROJECTS COLLECTIONS SYSTEM

2.1. SRF Applications (WWTP Projects – Grit/Screening and Aeration Basin)

- a) The City received the agreement from the State on 1/28/21; City Council approved the agreement on 2/23/2021.
- b) Carollo's 2016 WWTP Facility Plan Update (and whether or not that is necessary for the Grit and Aeration Project) is underway. Status w/ City re needed next steps.
- c) See Plant Projects for capital project update. Regular biweekly meetings continue between the City, Veolia, ESS and the State to manage the payment applications and reimbursement process.

2.2. . Cutting/Carlson & Hoffman – 24,791LF = 4.7 miles

- a) All site work is complete and closed out. Veolia has submitted the final invoice to the City for retention.

2.3. 2017/18 RAA project for identified grade 4/5 defects

- a) The Veolia legal team has submitted a letter stating Veolia's position. To be discussed further during mediation.

2.4. Annual Pipeline Rehabilitation Project

- a) City to discuss with Nicole segments with sags – not graded as structural defects but rather O&M defects, still causing issues/SSOs – structural defects ARE rated so can be graded. Need to discuss with Vivian and the City. – Mary is working on identifying a budget. (SECAP and Master Plan.)
- b) VWHA is working on a budget for the SECAP and Master Plan updates



2.5. Marina Bay Parkway Force Main Extension (aka Moody Underpass Sewer Reconfiguration Project)

- a) The week of November 8th, W.R. Forde is completing pavement restoration and demobilizing from the site. Prior to that, the directional bore under Marina Bay Parkway was performed the week of October 25th; on Friday October 29th, the bypass pumping plan was initiated and the final connection to the new Force main alignment completed. The new Force main was placed in service that same day. The week of November 1st the 15" gravity sanitary sewer line from Jetty to Pierson was installed.
- b) The base contract Scope of Work is complete; change order work is underway. Completed the manhole replacement this week.

2.6. Manhole Rehab Program

- a) Veolia provided V&A's MH Lining Assessment to the City on 2/26/21.
- b) Final invoice has been submitted to the City. It was paid on 12/22/21.

2.7. Master Plan Update

- a) Final Master Plan submitted to the City on 10/17/19; Final SECAP submitted to the City on 11/15/19.
- b) City planning to request City Council adopt the report once Baykeeper comments have been submitted.
- c) Meeting occurred with Baykeeper on 7/27/20; no other update

2.8. Trash Capture Device Installation

- (a) The TA was approved on 10/5/21. Professional Services Agreement (PSA) for Harris & Associates has been executed

2.9. First Street Wet Weather Project Design

- a) Contractor started this work on 9/27/21 based on the City's verbal authorization. TA for Change Order 5 was approved 11/24/21.



- b) RFIs #3, #6 and #13 are under review. Potential solutions were discussed with the Design Engineer on 11/10. On 11/11/21, proposals (COR #10, #11, #12 & #13) were forwarded to the Design Engineer and City for review and direction. One line segment in RFI #13 will be eliminated. One line segment will have a large root ball removed by Veolia O&M to determine the next course of action.
- c) Provided direction is received, the Contractor will return to complete the remaining pipe work the week after Thanksgiving and will then schedule final pavement restoration.

2.10. High Priority Inaccessible Line Replacement

- a. The Contractor started sawcutting and potholing on Potrero on 11/11 and will commence with pipe bursting on Monday 11/15/21.
- b. The City is assisting with easement access for (2) of the locations.
- c. The 3 Idaho segment is being deleted and will be replaced by another line.

2.11. Grade 5 RAA Line Replacement

- a. The Preconstruction Conference was scheduled Tuesday, November 16th at 2:00 pm.
- b. It appears there are (2) lines in this work package that will require easement letters.

2.12. Bishop & Western

- a. Revised TA was presented to the City on September 2, 2021. The TA was signed and transmitted to Veolia on 10/6/2021.
- b. The Subcontract Agreement was prepared and transmitted to Bayhawk for signatures on 10/11/2021.
- c. The Subcontract Agreement has been fully executed and Payment and Performance Bonds received.
- d. DIR number was obtained and provided to the Contractor. The Preconstruction Conference was held.



3. CAPITAL PROJECTS WWTP & FACILITIES

1. Regulators and Permits
 - (a) All renewals received for 2021 Air Board (BAAQMD) permits.
2. Grit/Screening/Blower and Aeration Upgrade Project (SRF-funded)
 - a) Carollo issued DC 2.1 Influent and ML Channel Walls. This DC adds concrete walls in the influent and mixed liquor channels to eliminate sewage backflow in these areas. Shimmick submitted a cost proposal on 11/15/21 for the additional work NIC.
 - b) Shimmick continues to submit FA cost pricing data for Veolia's review and approval, prior to submission to the City. Veolia is assembling Shimmick's cost proposal into a CO for submission to the City for review and approval.
 - c) The City approved TAs for CO 1, 2 and 3 on October 5, 2021. Veolia and Shimmick executed CO #1-#3.
 - d) Veolia prepared and submitted to the City the TA for CO#4 on 10/19/21. The City approved and returned the TA CO #4 on 11-22-21.
 - e) Shimmick completed installing temporary RAS piping at AB4 and 3-W piping at the ABs.
 - f) Shimmick completed AB4 demolition of the walkways and elevated column/equipment decks.
 - g) Shimmick removed AB4 plywood covers in preparation for pricing/ordering materials for DC002. Shimmick submitted a cost proposal for DC002 on 10/27/21.
 - h) Ferma completed all demolition activities and demobilized off the project site.
 - i) Shimmick began cleaning out AB3 on 11-21-21 in preparation for contract work.
 - j) Shimmick continues excavating for the pista grit facility construction.
 - k) Shimmick continues installing the blower building electrical ground ring.



3. Cogen Project –

- a) Yorke Engineering submitted a BAAQMD permit application which was forwarded to the City on 9/24/21 for City signature prior to submitting this application to the Air Board. The City returned the City signed air permit application on 10/20/21, enabling Yorke Engineering to continue the application process with the Air Resources Board.
- b) Overaa/HSE is working on the 90% design drawings and a write up for incorporating the design for new Dystor cover in the project.
- c) COR for incorporating design of new Dystor cover was submitted to the City on 11/22/2021 - awaiting approval.

4. SCADA Conversion Upgrade

- a) Calcon began meeting with Veolia to discuss how to close out the project by the end of the (2021) year.
- b) Calcon began field instrumentation tagging (Bid Item 10) and is approximately 30% complete with this Task Item work. Overall SCADA project progress is 90% complete

5. Seismic Evaluation

- a) All contract work is complete.
- b) A Seismic Analysis Ph II TA was submitted to the City for review and approval on 12/22/21.

6. Sludge Thickener Project

- a) Veolia issued the revised subcontract agreement to Myers & Sons on September 10, 2021. The subcontract agreement was returned and executed on 10/1/21.
- b) The City, Veolia and the DB team from Myers & Sons and Lee & Ro met on 10/12/21 to have a project kickoff meeting. The NTP is established for 10/18/21.



- c) Veolia began providing 2021 WAS, TWAS and flow data to Lee & Ro, in accordance with their request.
- d) Veolia provided as-built record drawings to Myers & Sons.
- e) Myers & Sons began providing project submittals, including a design project schedule and a schedule of values (SOV).
- f) Myers & Sons tentatively scheduled a draft BODR review meeting for mid-December, following the planned draft BODR submittal.
- g) Myers & Sons subcontractor for the design phase Lee & Ro collected samples for analysis on 11/16/21.
- h) Myers & Sons subcontractor for the design phase Lee & Ro had a surveying team visiting the site on 11/30/21.

7. Ferry Point Pump Station Replacement

- a) Ben Kellman with Mack5 transmitted 100% design documents to Veolia for review and comment on 10/12/2021.
- b) Veolia prepared a draft RFB and transmitted the draft RFB to the City and Mack5 on 11/8/21. Comments received on 11/10/21 and Veolia is working on incorporating City comments and finalizing the bid package.

8. Force Main Dornan Drive

- a) Design is on hold. Once design is complete, however, it is anticipated the construction portion will be managed by Veolia.
- b) Kick off meeting held 11/12/21.

9. Critical Plant Projects - SBS (Chemical Building) Facility

- a) The City awarded the SBS Facility Improvements Project to Myers & Sons on 7-27-21.
- b) Veolia prepared and submitted a (revised) TA to the City on 8/2/21 for review and approval. The TA was approved on 8/4/21.
- c) Veolia has prepared a subcontract agreement for Myers & Sons. Veolia issued the revised subcontract agreement to Myers & Sons on September 13, 2021.
- d) Myers & Sons has expressed concerns with contract execution due to unprecedented price escalation for materials and



- equipment. Veolia is working with Myers & Sons to address their concerns. The subcontract agreement was executed on 10/29/21.
- e) The Preconstruction Conference meeting was held on 11/1/21 at the WWTP and the NTP date was established for 11/1/21.
 - f) Veolia scheduled the first progress meeting for 11/19/21.
 - g) Carollo conducted an EADOC introduction and training session for City of Richmond, Myers & Sons and Veolia staff on 11/19/21. Myers & Sons continues submitting RFIs & Submittals through the EADOC system.
 - h) Myers & Sons is planning to start mobilization to the WWTP on 12/13/21.

4. OPERATIONS AND MAINTENANCE

1. Collection System

- a) Stege and WCWD cross connections investigation – ON HOLD
 - i. Significant full-pipe Stege cross connection flow observed. Flow could be contributing anywhere from 150,000-GPD to 400,000-GPD to the City of Richmond, taxing both the collection system as a contributor to SSO's in the Harnett area and the treatment plant. Veolia advises that the City contact Stege to determine if flows at this cross connection are all sanitary or if I&I (as is suspected) is principal contributor to these flows. Veolia and City met with Stege, more than (200) parcels connected to cross-connection and Stege stated that no MSA exists to address cross-connection.
 - 1. The City is reviewing the proposal with IEC to install a new monitoring meter. Will be in the new 21/22 budget year.
- b) Emergency & Miscellaneous Repairs
 - i. A total of Seventy-six (76) Emergency & Miscellaneous Repair work requests have been submitted since 1/1/21
 - ii. Appendix added with status of emergency point repairs spreadsheet.
 - iii. Veolia is seeking final direction for its 2/14/20 RFI to the City regarding guidelines to initiate Emergency Repairs to known Grade 5/4 structural defects that are identified and prioritized within the 2020 RAA as not needing immediate repair. In 2020, the City's SOP has been to task Veolia with immediately repairing certain structural defects and Veolia seeks to have finalized which structural defects are to be



immediately repaired and which are to follow the prioritized schedule noted in the 2020 RAA. On 2/14/20 the City provided general guidance to Veolia's RFI and stated that a formal SOP is under development; Received proposed SOP from Yader on Thursday, April 9th. Under review. Needs further discussion.

- c) SSO's
 - i. To date (0) SSO(s) in November. 4 to report for October.
 - ii. YTD SSOs = 11 (+4 storm 10/24 related), BSA total allowed for 2021= 21

- d) Veolia working to establish Storm Water Collection System O&M for the purposes of developing scope of annual work to be executed
 - i. O&M will be drafted and submitted to the City for review, comment, and most importantly, priority of PM work to be executed under the available stormwater budget. This would include trash capture devices. On hold.

2. Plant Compliance

- a) Blending Events – for the month of October 2021, there was one (1) blending event.
- b) A total of one (1) blending event has occurred so far in 2021.
- c) Odor complaints YTD = six (7). None so far in December.

3. Maintenance Items

- a. Lift Station Update-Ferry Point issue: Sulfelox is currently off until odors are indicated again as we are at the end of season with plenty of flushing from rain.
- b. Admin Building drain plumbing is failing, significant collapse. We have a proposal from RotoRooter. We have had suggested vendors out for review, they will revisit and CCTV to price repairs. We reached out to the vendors again last week, still no results. One vendor will not perform commercial work. Quotes in hand from Roto Rooter and Bay Hawk, two others declined to quote. Roto Rooter has the lowest price. We will submit TA for Roto Rooter based on these costs for City Approval.
- c. Chemical Building Door modification quotation has been received and we will submit a TA to the City for approval and execution.

4. Treatment Plant



- a. Aerator VFD Drive failure in Aeration 1B, on the shelf spare was deployed. TA-10/06/21
- b. Wet weather is upon us: Excessive Rain of 10/24/2021 initiated blending for 54 hours. Wet Weather Storage was used to full effect. This rain impacted critical improvements activities in Aeration Basin 4. Rain on 11/09/2021 also created high volumes of rain runoff into the collection system and Wet Weather Storage was used again, but no blending was initiated, with no SSO's reported.
- c. Wet Weather Treatment configuration: All systems are fully online and in operation.
- d. Facilities
 - Other discussion:
 - i. Diagnosis on Aerator 2B revealed that the planetary gear set failed. There are no spare parts available due to the age. Recommend ordering another backup since the new one on order will be put in service immediately on arrival. Presented the City a TA as requested for a backup Aerator. Waiting on approval to process the order.
 - ii. Had a meeting with West County, the City and Veolia to discuss the sludge/leachate line flush issues we have been experiencing. Initial testing determined that the Plant isn't receiving enough effluent water from the County for the City's WWTP to properly flush the line after the digester sludge transport is completed. This causes problems because of the digester sludge coming back into the influent line to the plant when the County transports leachate to the plant through the same shared line. In cooperation with EBMUD, a 2 week testing period is underway each night from midnight until 2 am. Also, because of future plans and Contract between the County and EBMUD, the City has asked for us to engage Carollo for a proposal to review and design an alternative flush source using the Richmond Plant's 3W system. Initial call was completed and follow up site visit was conducted on 5/25 by Carollo. Waiting on 3W design proposal from Carollo. Received proposal from Carollo and presented TA to the City on 6/16/21.
Veolia is working closely with EBMUD and when we are not transporting digested sludge to West County, they will ramp up effluent reuse. Contract was executed with Carollo and design is underway.



- iii. Brickyard Cove HOA, has Richmond annexed this yet.
- iv. Standard definition or procedure of an emergency and how to respond.
- v. 2 Electric Service Carts, we have only two remaining and could use replacements for those sent off to salvage.
- vi. WPCP Flow meter is currently obsolete and unserviceable, no more parts available. New meters are part of the Critical Improvements Project not available until April 2023. We are working on a proposal for replacement for your review to improve functionality.