

Background: Haynes

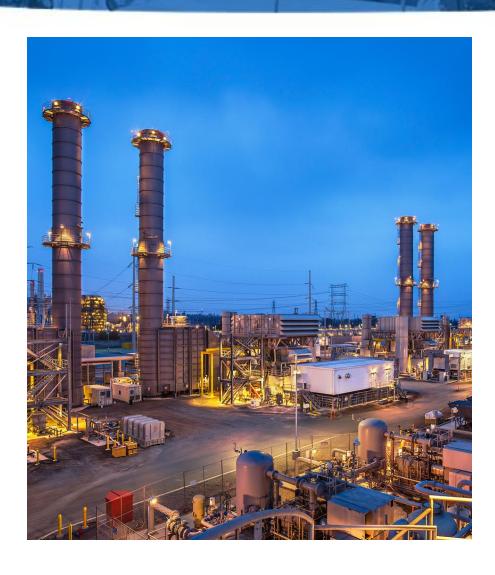
- Haynes Generating Station (Haynes):
 - Power generating station owned by LADWP
 - Located at address 6801 E. 2nd St.
 - Currently uses ocean water for their Once-Through Cooling (OTC) process, which is then discharged back into the ocean



Background: Haynes (Cont'd)

- Regulations requiring changes to Haynes' cooling processes:
 - State Water Resources Control Board: discharge to be sent to Publicly-Owned Treatment Works (POTW) by 2029
 - City of Los Angeles Mayor: recycle all wastewater for reuse by 2035

Background: 1st Agreement with LADWP



- Fall 2019: LADWP requested LBWD study options for meeting LADWP's increased demand and discharge targets
 - Industrial waste discharge increased to 2.77 MGD
 - Water demand increased to 7 MGD
 - LADWP requested looking into recycled water sources, in addition to potable water
- January 2020: Agreement with LADWP to conduct a feasibility study to assess LBWD's potable, recycled, and sewer systems to serve Haynes' future needs
 - LADWP reimbursed LBWD for consultant and internal labor costs of study

Feasibility Study



- 2020-2021: Assessed availability of facilities and resources near Haynes to meet their new requirements
- Potable water system:
 - Confirmed to be sufficient to meet needs, no upgrades required
- Recycled water system:
 - Hydraulic model calibrated to simulate flows going to Haynes
 - Supply of recycled water limited, potable water to be required as backup source for Haynes
 - Main lines required extension to reach Haynes



Feasibility Study (Cont'd)

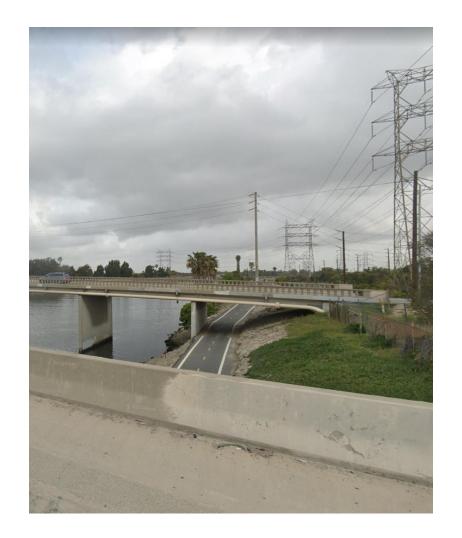
Sewer system:

- To reuse industrial discharges, flows to be sent to Long Beach Water Reclamation Plant (LBWRP)
- No gravity flow possible to reach LBWRP, force mains required
- New force mains to be owned and operated by LADWP
- Study provided several possible alignments to be explored further during design



Proposed 2nd Agreement with LADWP

- New agreement with LADWP to design and construct the required recycled water and sewer facilities to/from Haynes
- LBWD securing contracts with consultants and contractors for design, construction, and inspection of new facilities
 - LADWP will reimburse LBWD for all internal and external labor/material costs
 - LBWD assisting LADWP with sewer force main design/construction, but force main to belong to LADWP after construction



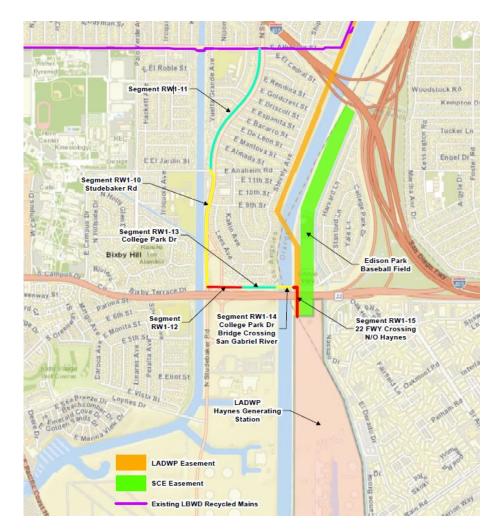
Staff Recommendation: Agreement

Authorize the General Manager to execute an agreement with LADWP for the design and construction of recycled water and sewer pipelines to address the future needs of Haynes, in the amount not to exceed \$60,000,000 for the full term of the agreement.



Recycled Water Facilities

- Proposed 24-in main, approximately 7,940 linear feet
- Extending mainline south along Studebaker Road
 - Capped connections left at key intersections for future expansions
- Will be LBWD-owned facility once constructed

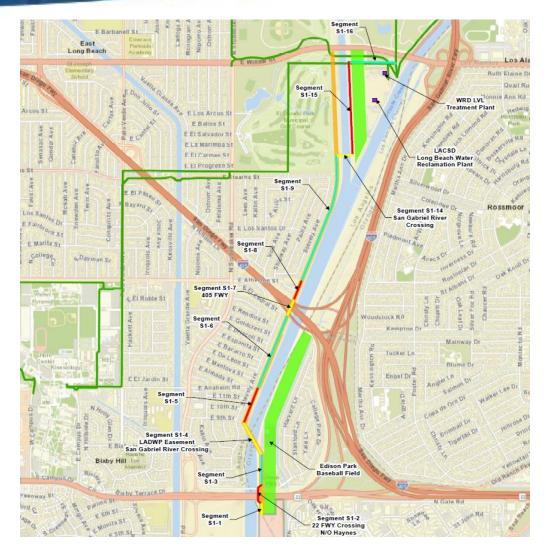


Staff Recommendation: Recycled Water

Authorize the General Manager to execute an agreement with Carollo Engineers, Inc., to provide engineering design services for the LADWP Haynes Recycled Water Pipeline Project (REO-0213), in the amount not to exceed \$1,564,187.

Sewer Facilities

- Proposed 14-in main, approximately 12,930 linear feet
- Pressurized main from LADWP to LBWRP
 - Not available for future customer connections, private sewer main for LADWP discharges only



Staff Recommendation: Sewer

Authorize the General Manager to execute an agreement with DRP Engineering to provide engineering design services for the LADWP Haynes Sewer Pipeline Project (SC-0442), in the amount not to exceed \$1,620,428.



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