

Item C-1

Monthly Review of the Status of and Actions Regarding the Water Reclamation Facility

Morro Bay, CA
January 22, 2019

Recommendations

- Receive the status report of the Water Reclamation Facility (WRF) Program
 - Status of the WRF Design/Build Project
 - Consolidated Coastal Development permit from the California Coastal Commission (CCC) for all components of the WRF Program
 - Status of the Conveyance Facilities Project
 - Status of the project budget
 - Provide any other direction as deemed appropriate by a majority of the Council

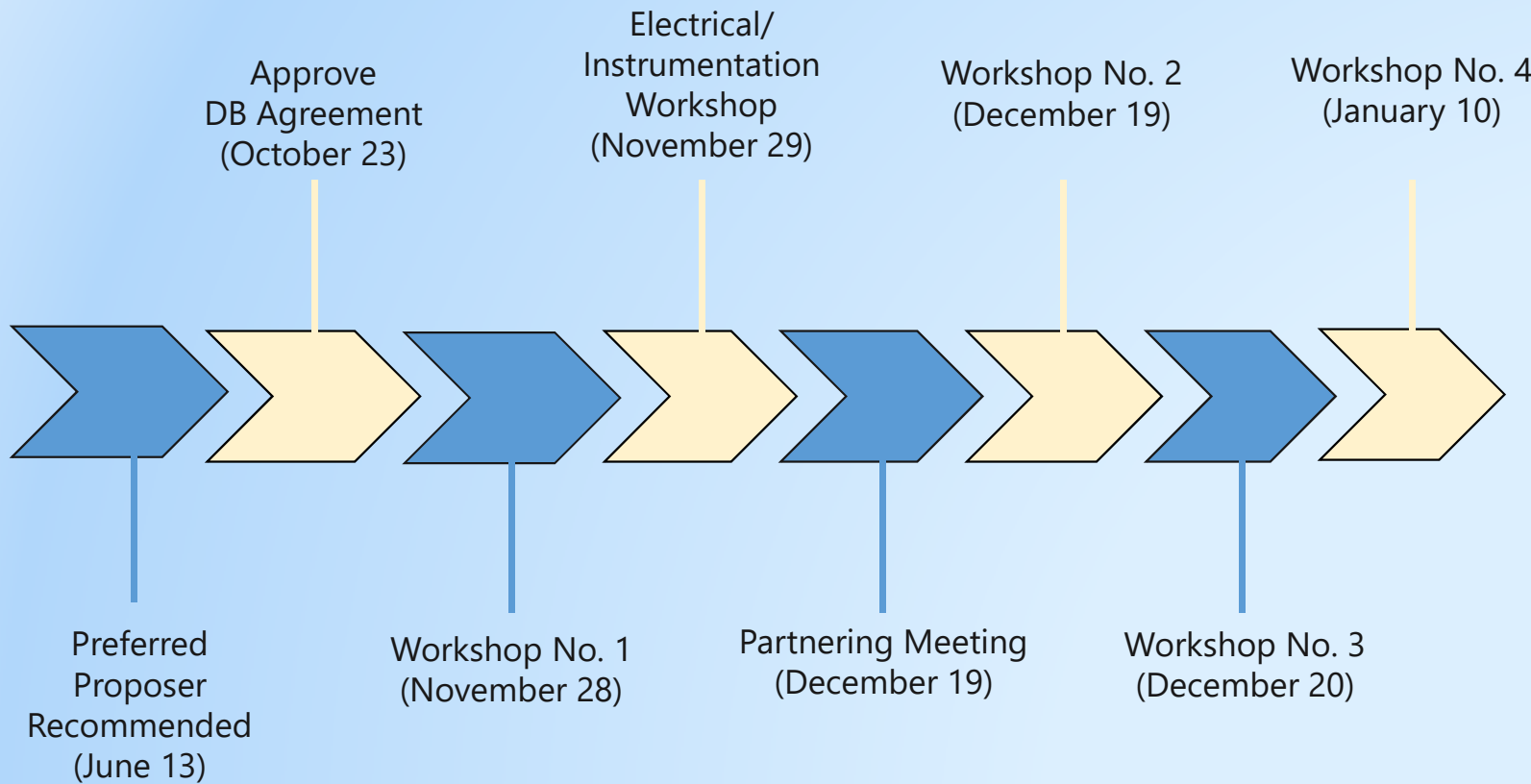
Recommendations

- **Take Action:** Approve Resolution No. 08-19 authorizing staff to complete and submit an application to the Local Agency Formation Commission (LAFCO) for a sphere of influence designation for the approximately 400-acre Tri W, Inc., property near South Bay Boulevard and annexation of 27.6 acres of that property (Assessor's Parcel Number 073-101-017)



WRF Design/Build Project

Recent Design/Build activities

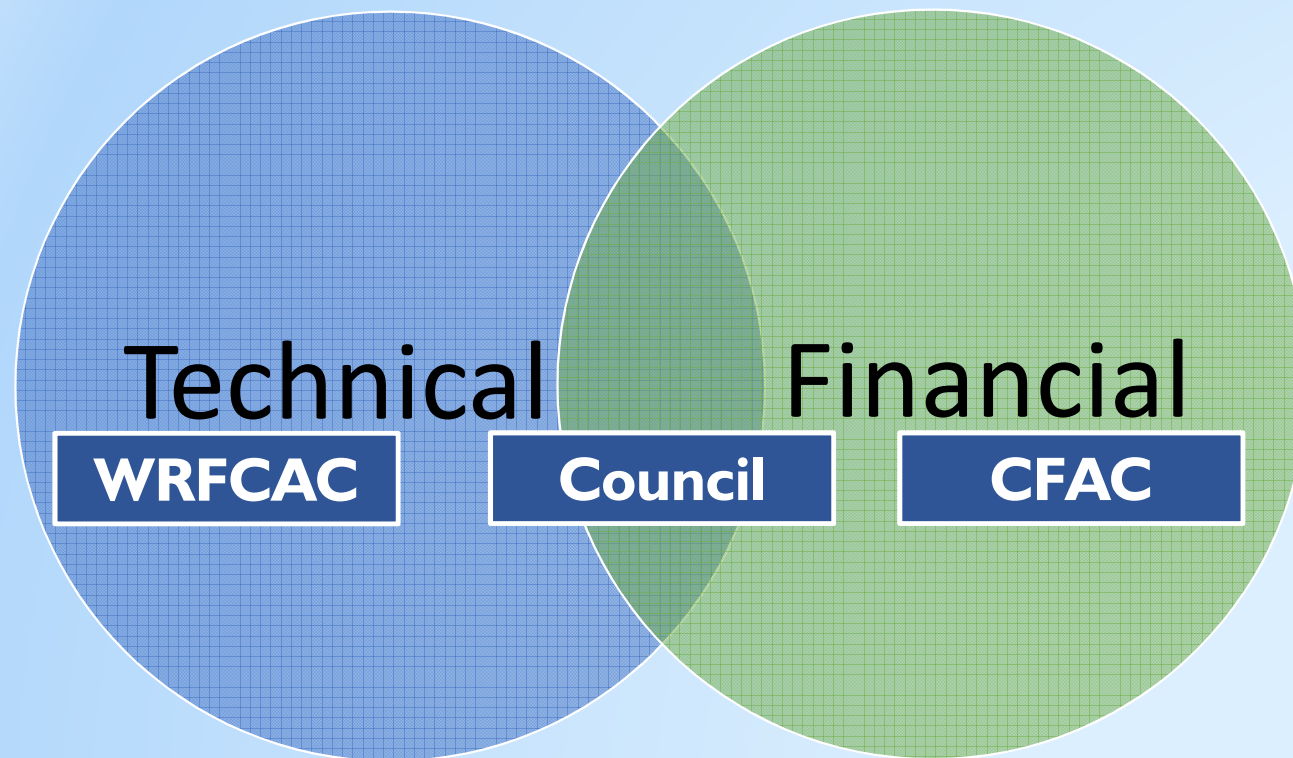


Deliverables for the Design/Build project



- Schematic Design (30 percent)
- Design Development (60 percent)
- Construction Documents (100 percent)

New roles of citizen advisory groups



Path to final project definition



Activity	Meeting	Date
Conceptual Engineering Report Presentation	WRFCAC	March 13 th or 14 th
Potential Change Orders Presentation	CFAC	March 19 th
Conceptual Engineering Report/Potential Change Orders Presentation	City Council	March 26 th



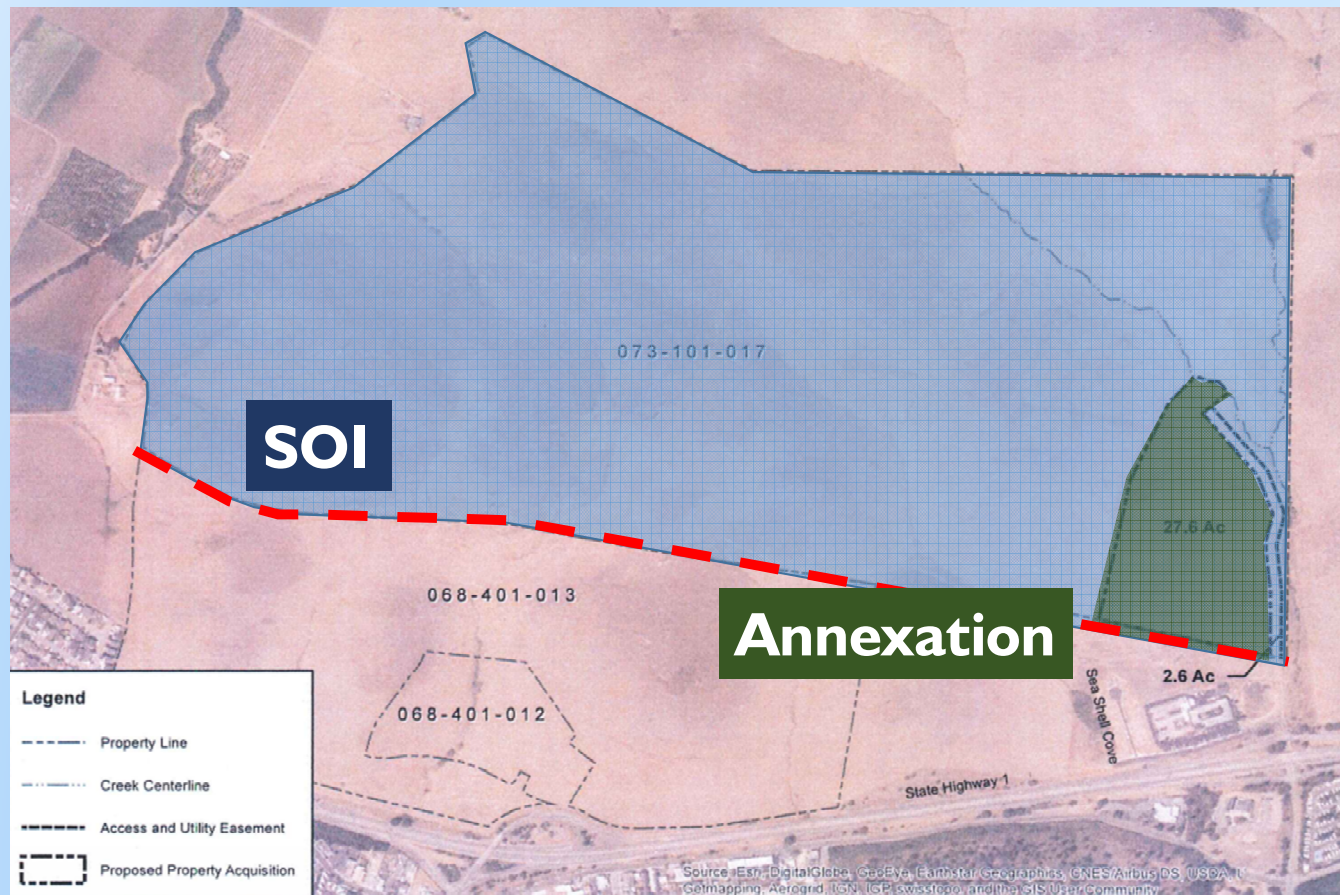
South Bay Boulevard Property Acquisition

Requirements of the MOU with Tri W

- MOU signed in October 2016
- Requires the City to make application to LAFCO for:
 - Annexation (27.6-acre WRF site)
 - SOI (400-acre Tri W property)



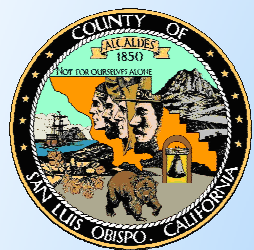
Requirements of the MOU with Tri W





Land Use Permitting

Consolidated permit approach



Planning Commission

March/April 2019

Board of Supervisors

July 2019

CCC (Substantial Issue)

July 2019

CCC (De Novo)

October 2019



Planning Commission

March 2019

City Council Hearing

April 2019

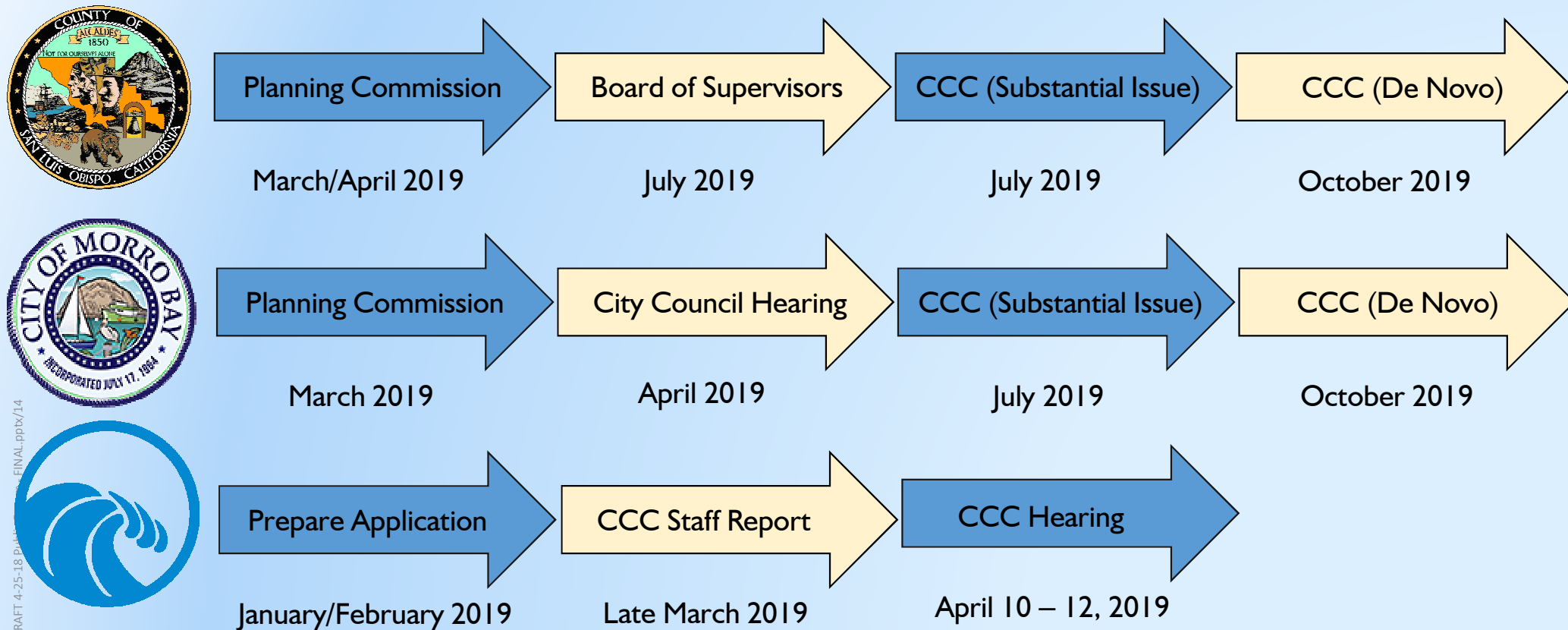
CCC (Substantial Issue)

July 2019

CCC (De Novo)

October 2019

Consolidated permit approach





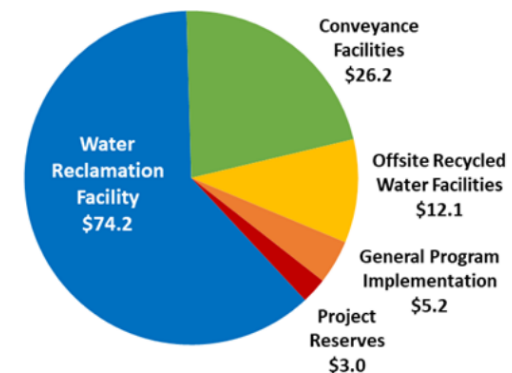
Conveyance Facilities Project

Project assumptions used for budget

- West alignment
- Dual pump stations
- Dual raw wastewater forcemains

WRF Project Costs

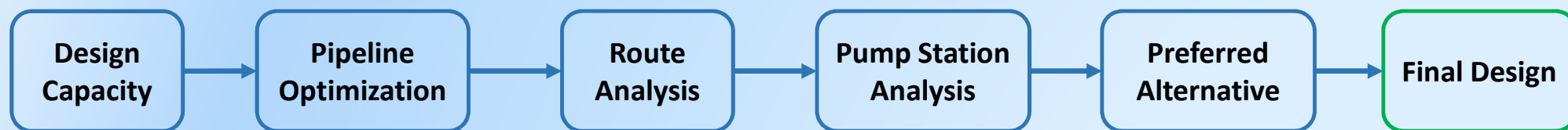
Total Project Cost: \$126 Million
 (\$122.8 Million Excluding Cash Reserves)



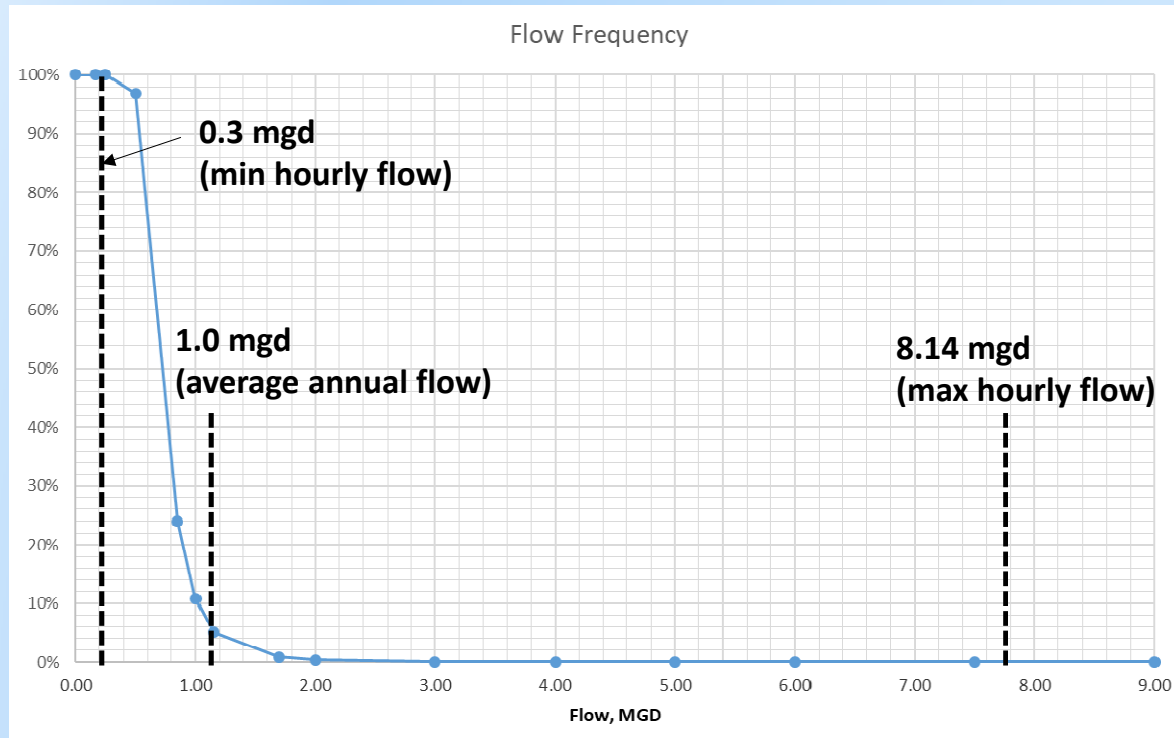
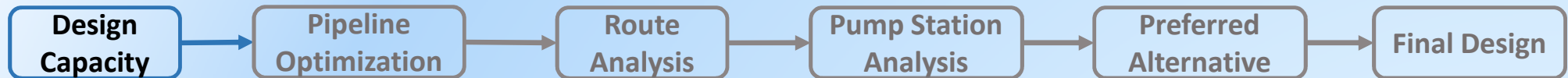
The route of the force main from the existing Atascadero Road Treatment Plant to the new Water Reclamation Facility on South Bay Boulevard will travel along or under the bike/pedestrian path (runs just to the east of the Morro Bay Power Plant to the intersections of Quintana and Main). The force main would then continue south on Quintana to South Bay Boulevard then north to the new plant. In addition to the force main the trench will also include a pipe for the brine discharge and heavy wet weather processed flows to the City's Outfall to the Ocean. The trench will also include a potable water line for fire suppression at the plant.

Blue Ribbon Commission (June 21, 2018)

Conveyance Facilities Summary



Design Capacity



Source Documents

- Facility Master Plan
- City Historical Flow Meter Data
- OneWater Plan

Brine (outfall) Pipeline =
8.14 mgd (max hourly flow)

IPR Pipeline =
0.80 mgd (average annual flow)

Pipeline Optimization



Sewer Force mains

- Dual force mains
- Size: 12" and 16" diameter pipelines
- Material: Competitively bid HDPE and FPVC

Brine (Outfall) Pipeline

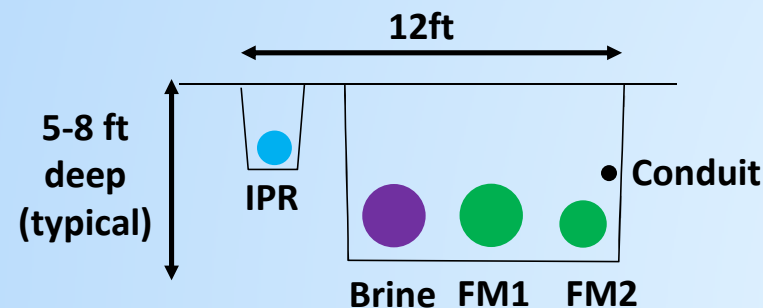
- Size: 16" diameter pipelines
- Material: Competitively bid HDPE and FPVC

Indirect Potable Reuse (IPR) Pipeline

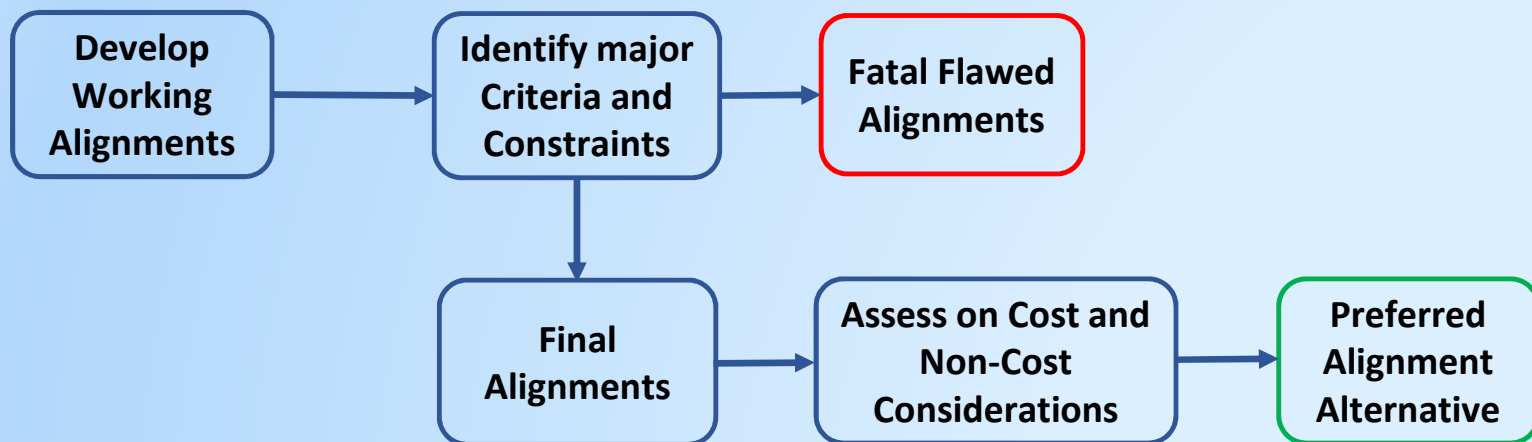
- Size: 8" diameter pipelines
- Material: Competitively bid HDPE and FPVC

Communication Conduit (Fiber Optic)

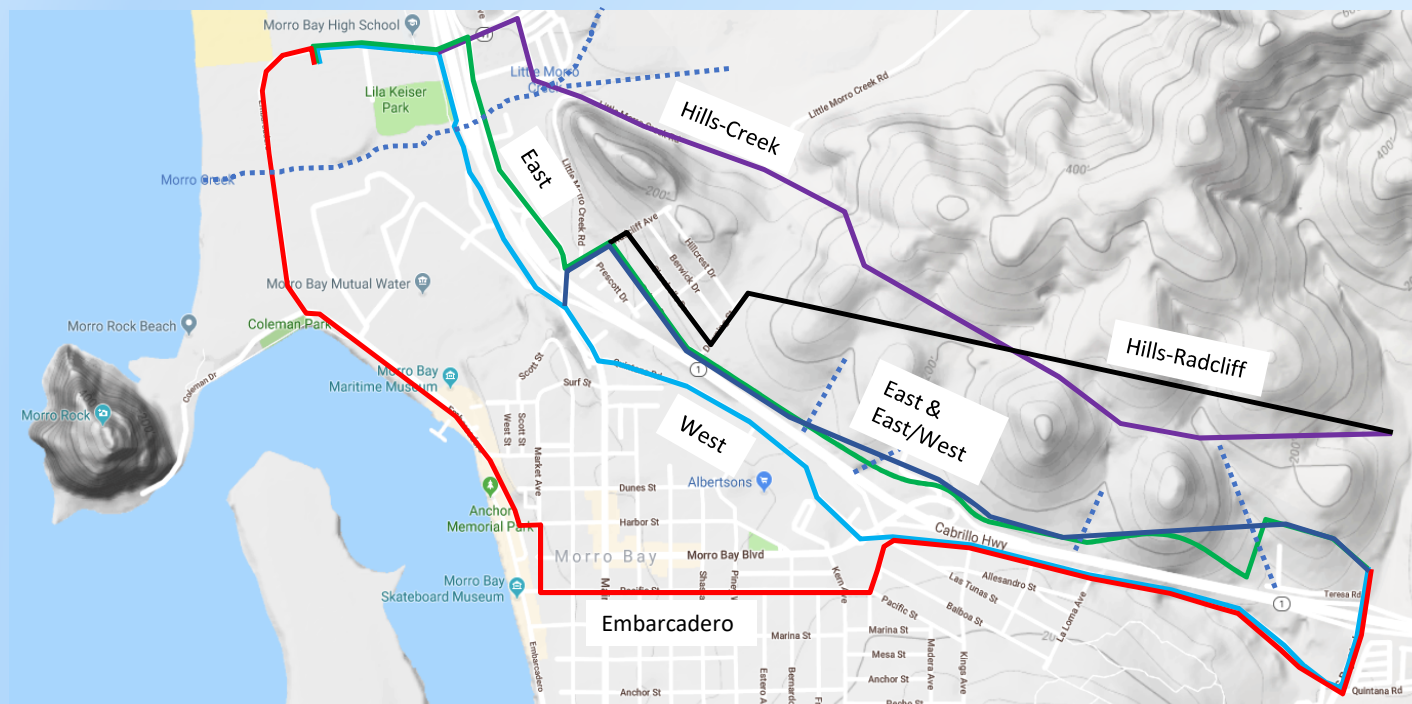
- 4" diameter PVC Conduit



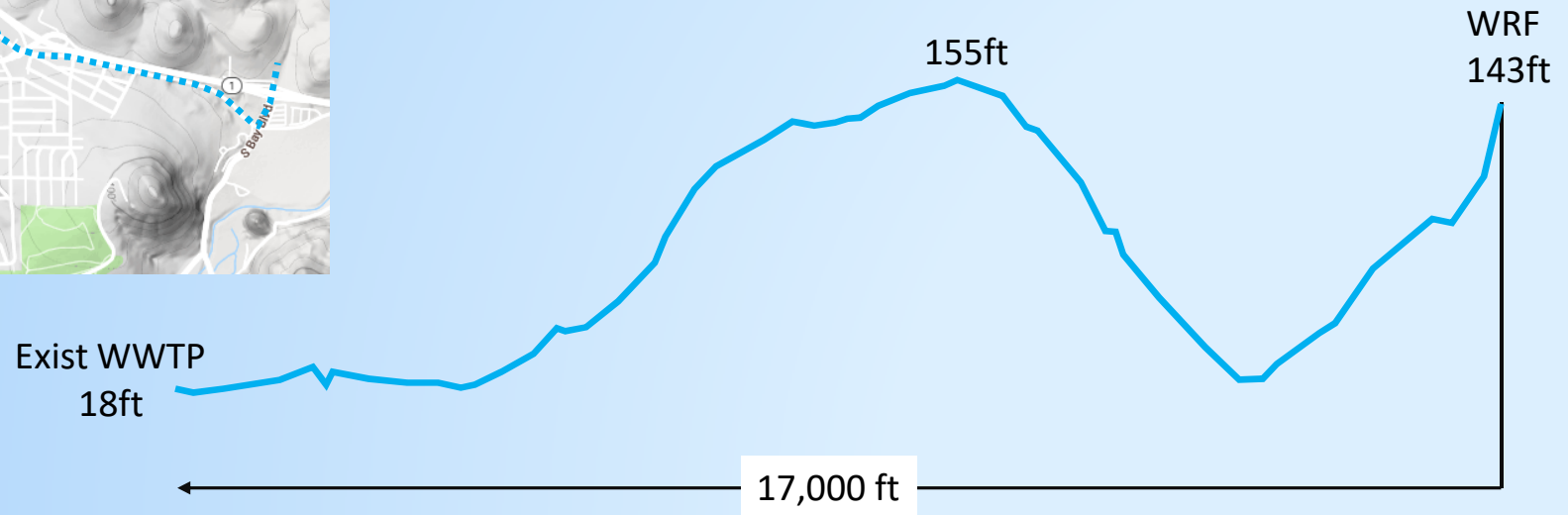
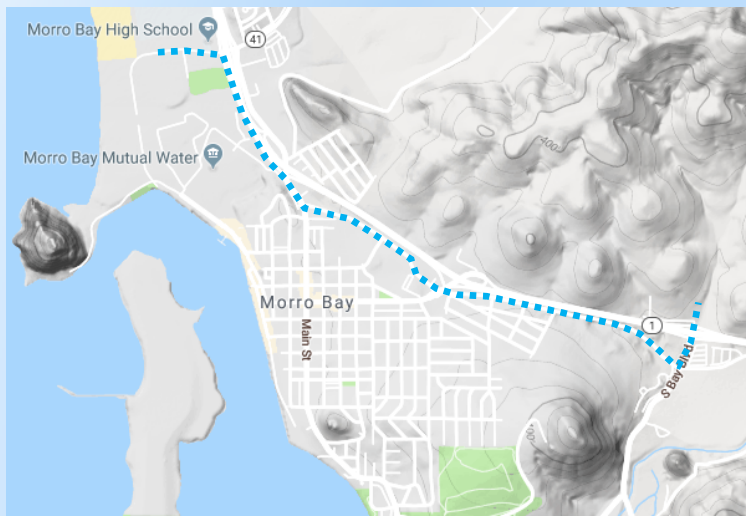
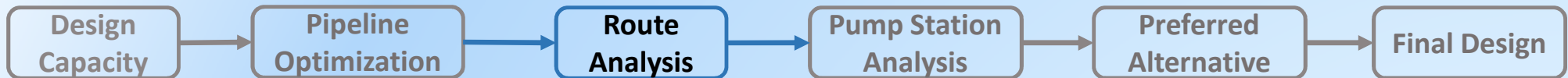
Route Analysis Summary



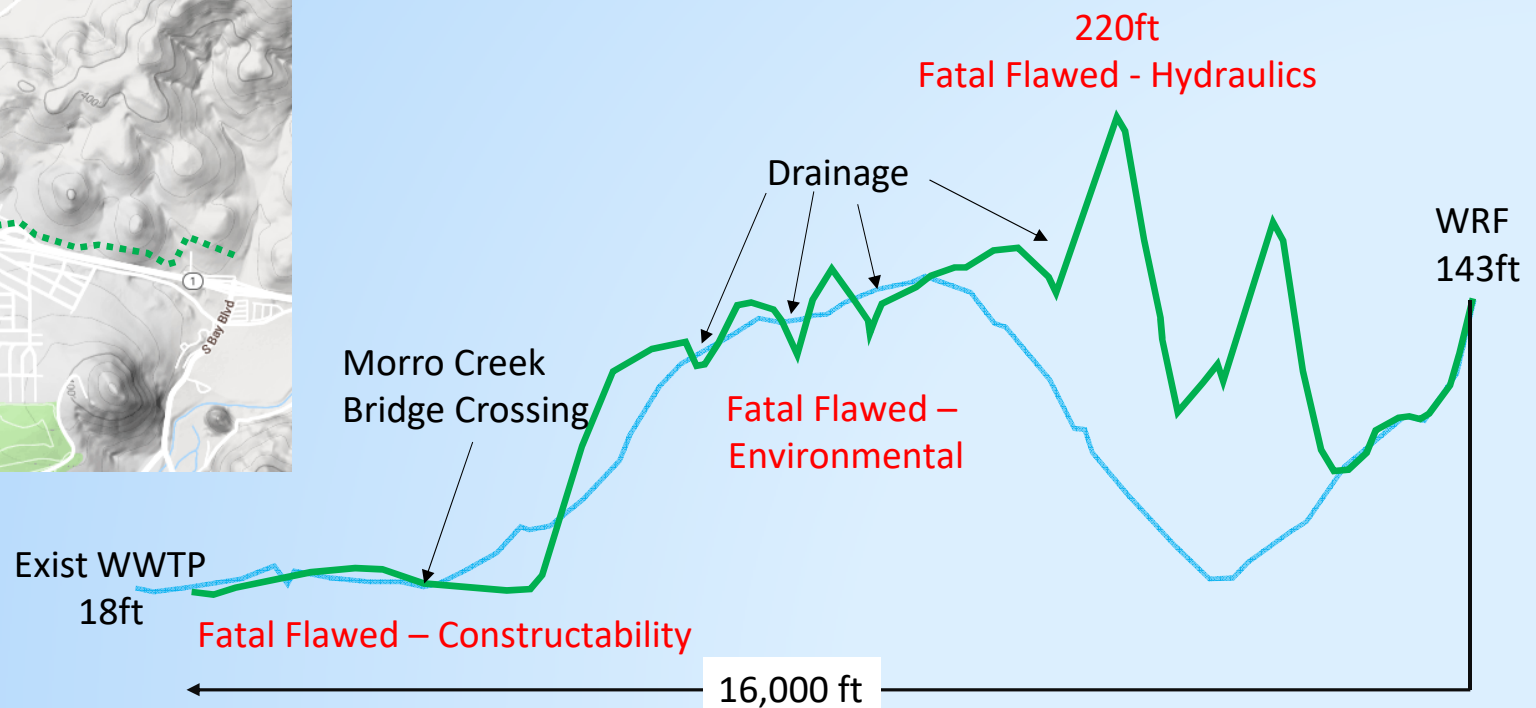
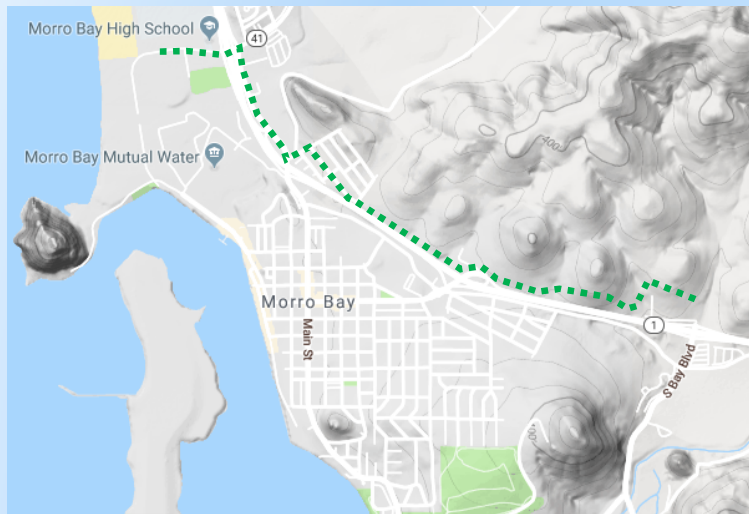
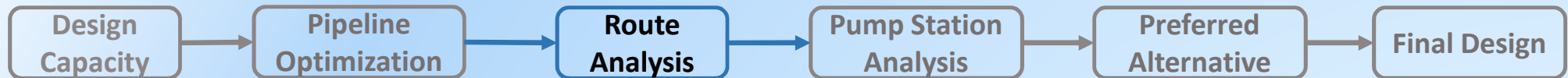
Working Alignments



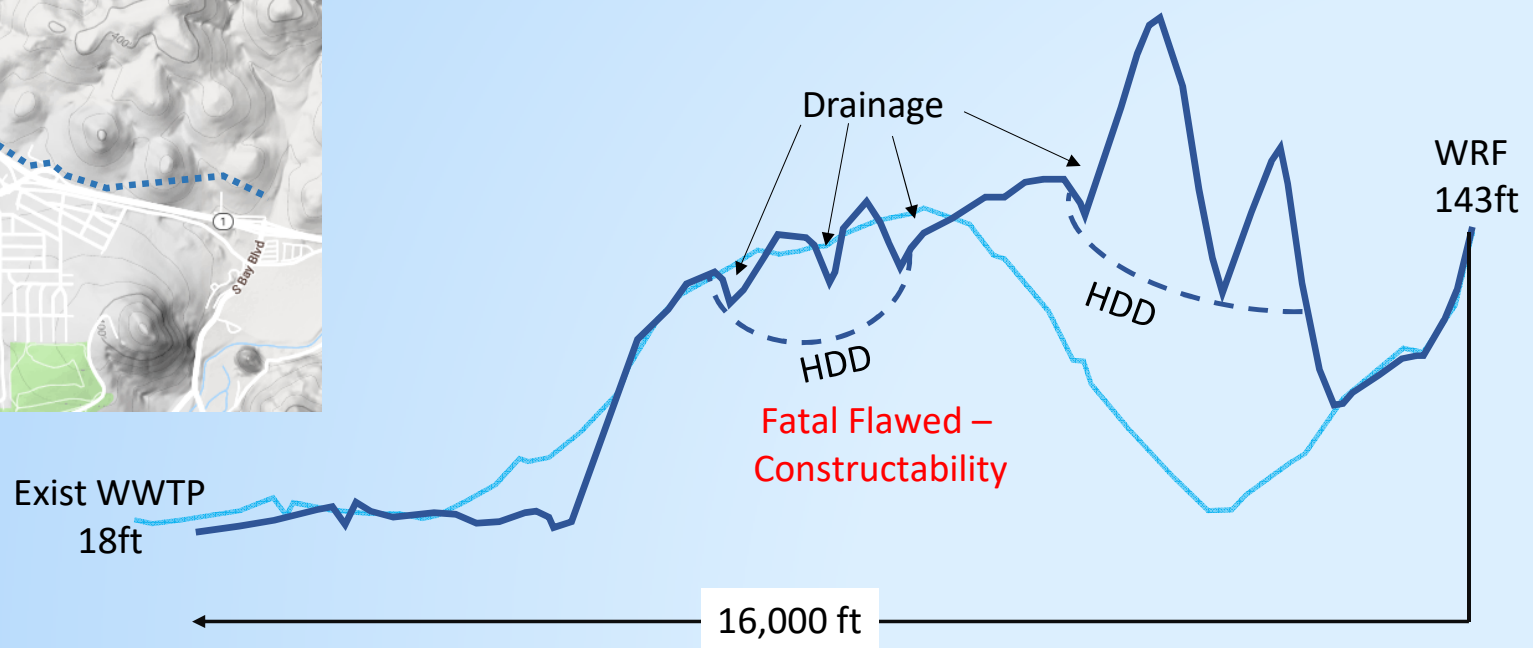
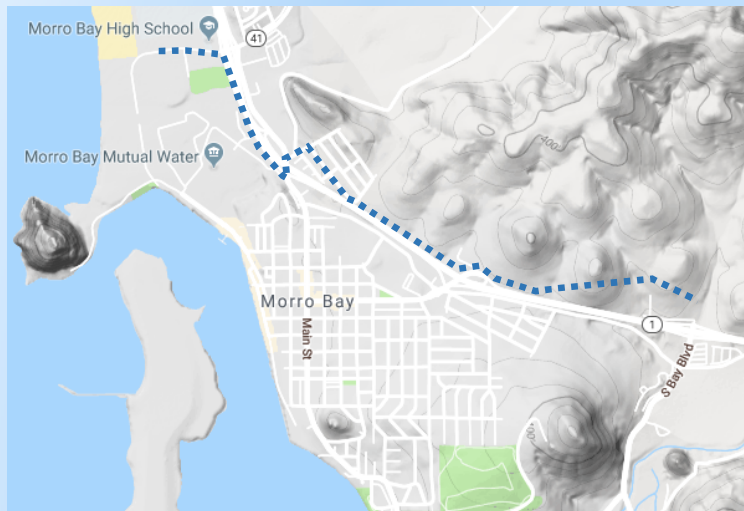
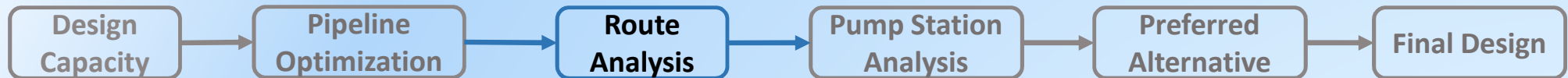
West Alignment



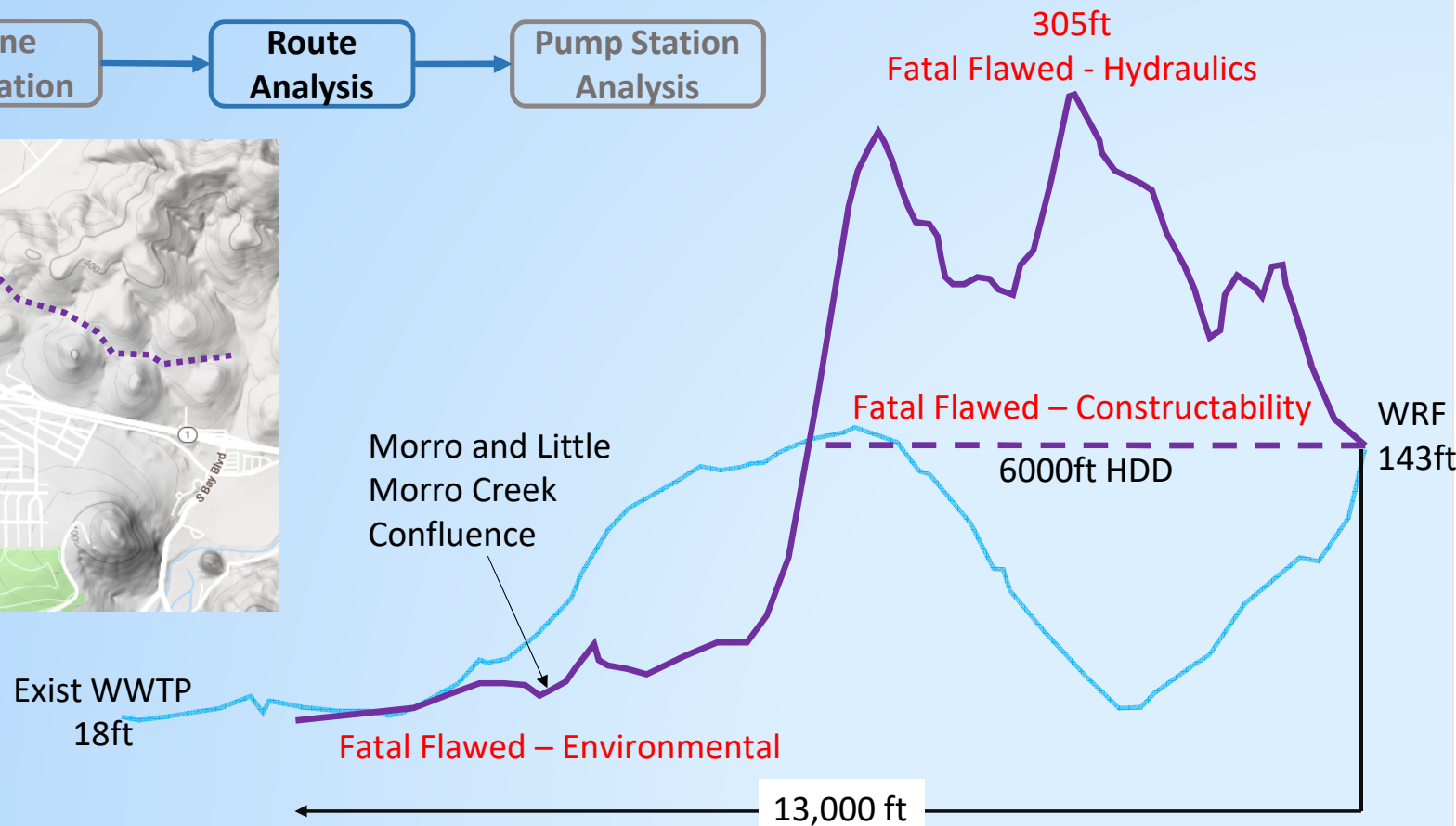
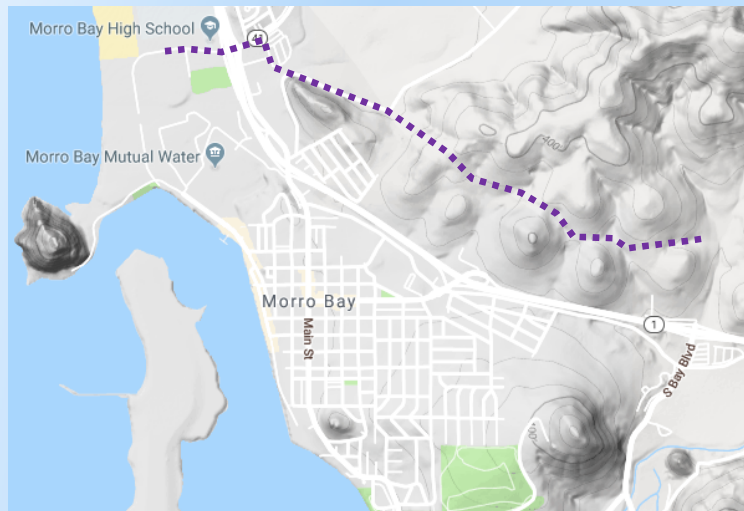
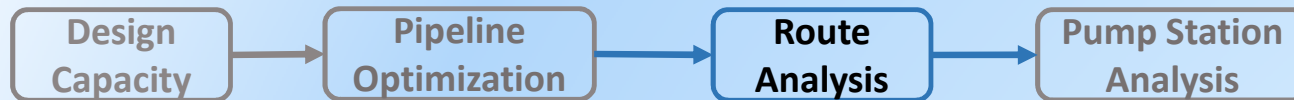
East (Open Cut) Alignment



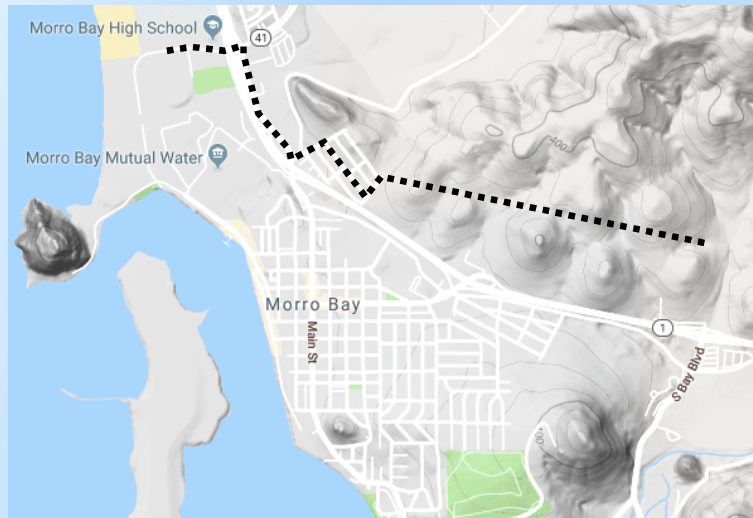
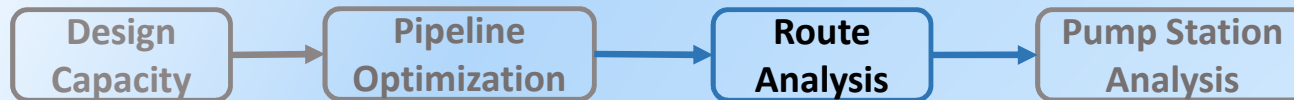
East (HDD)/West Alignment



Hills Creek Alignment



Hills-Radcliff Alignment



Exist WWTP
18ft

Morro Creek
Bridge Crossing

Fatal Flawed – Constructability

12,000 ft
(shortest alignment)

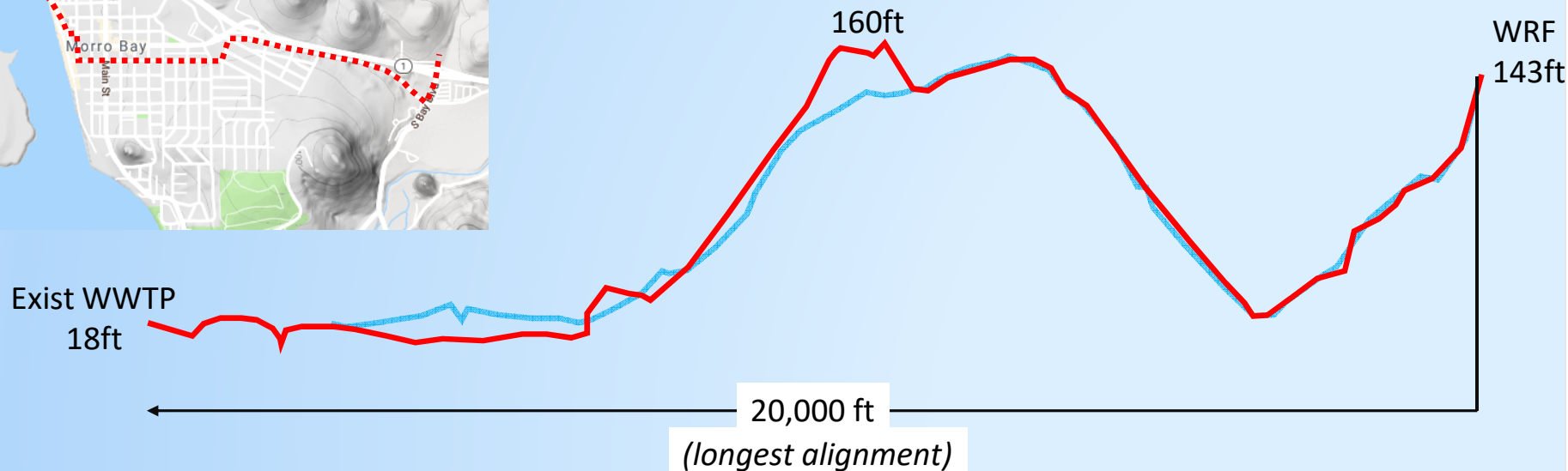
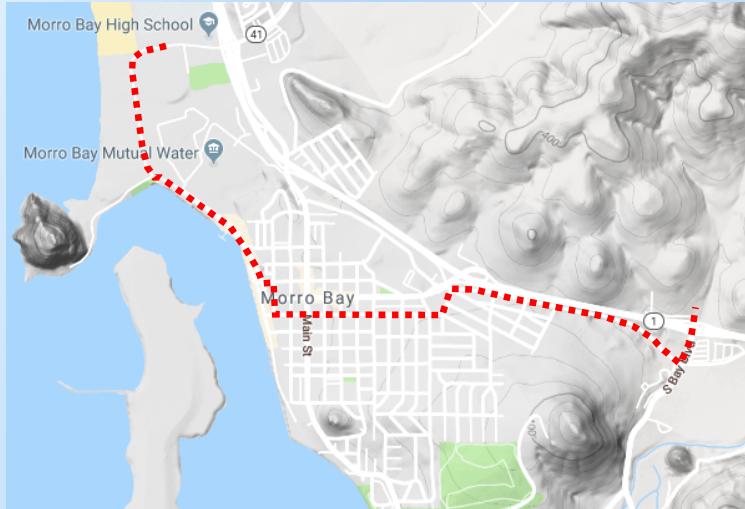
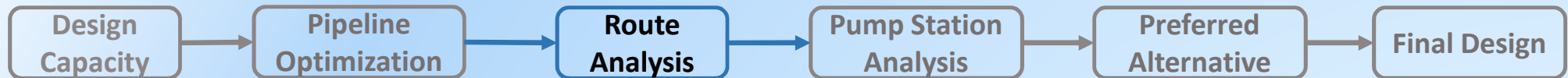
362ft
Fatal Flawed
- Hydraulics

Fatal Flawed – Constructability

6000ft HDD

WRF
143ft

Embarcadero Alignment

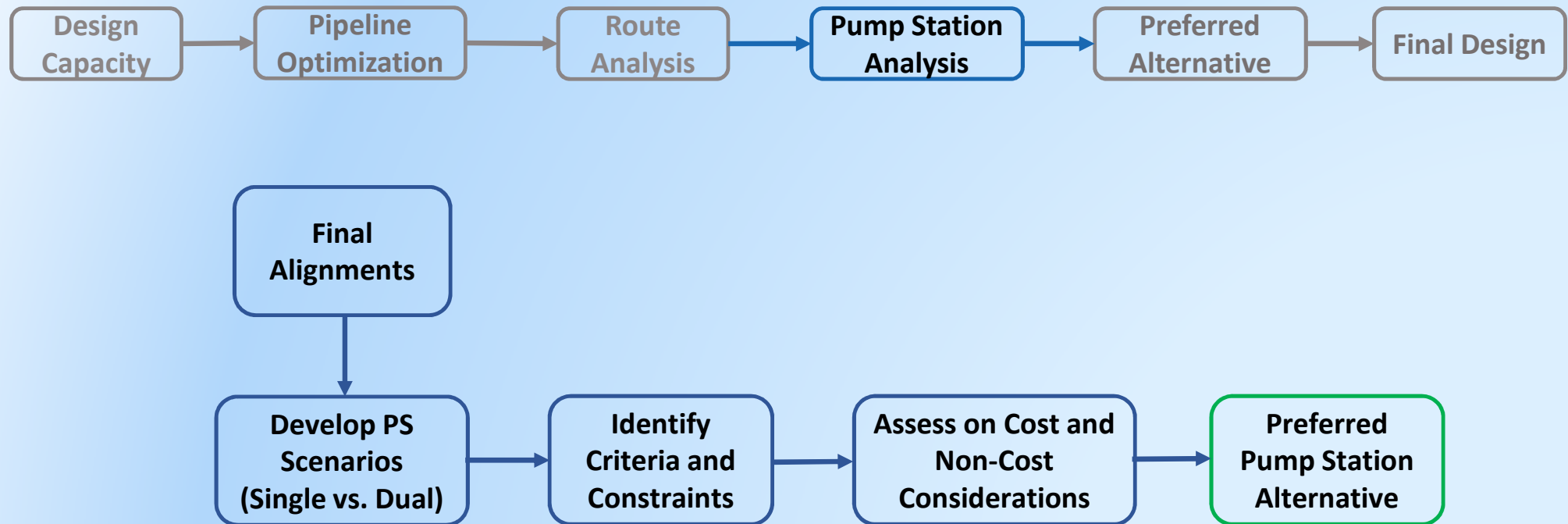


Final Alignments Assessment



Key Criteria and Constraints	West	Embarcadero
Hydraulics	+1	-1
Environmental / Schedule Risks	0	+1
Geotechnical	+1	-1
Cultural Resources	+1	-1
Accessibility / O&M	+1	+1
Dual Pump Station Integration	+1	-1
Constructability	0	+1
Right of Way Acquisition	0	+1
Traffic/Public/Commercial Impacts	-1	-1
Total Score	+4	-1
Project Costs: FM, Brine, Com.	\$13.9M	\$15.6M
Project Costs: IPR	\$2.3-3.3M	\$3.0-4.1M

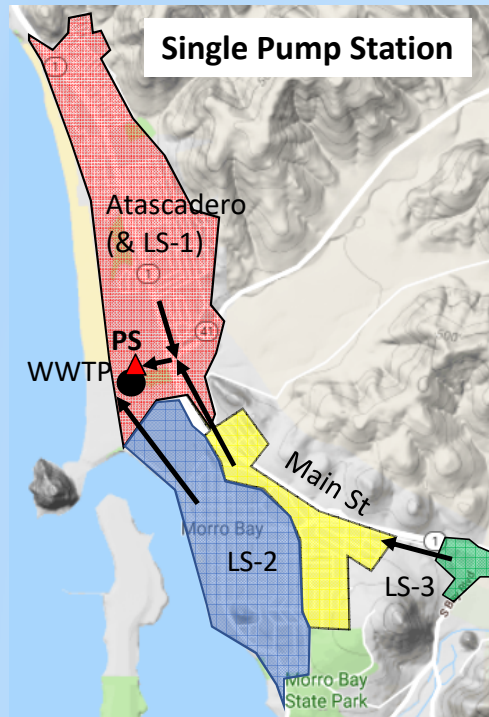
Pump Station Analysis Summary



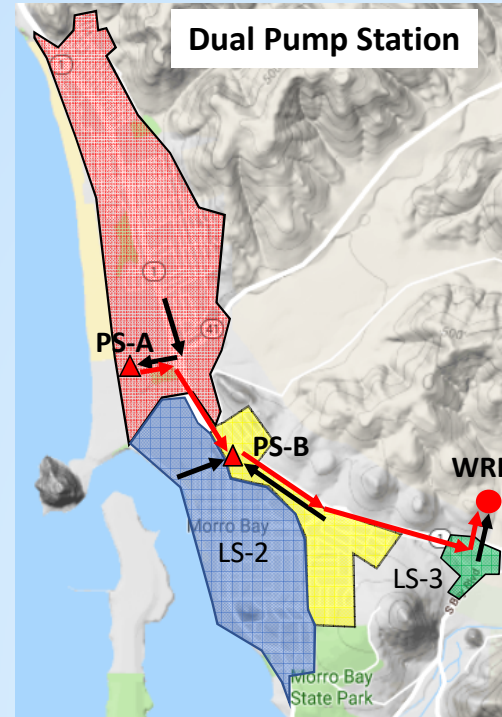
Existing Collection System



Original Concept

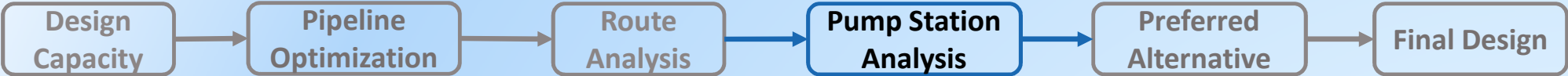


Dual Pump Station



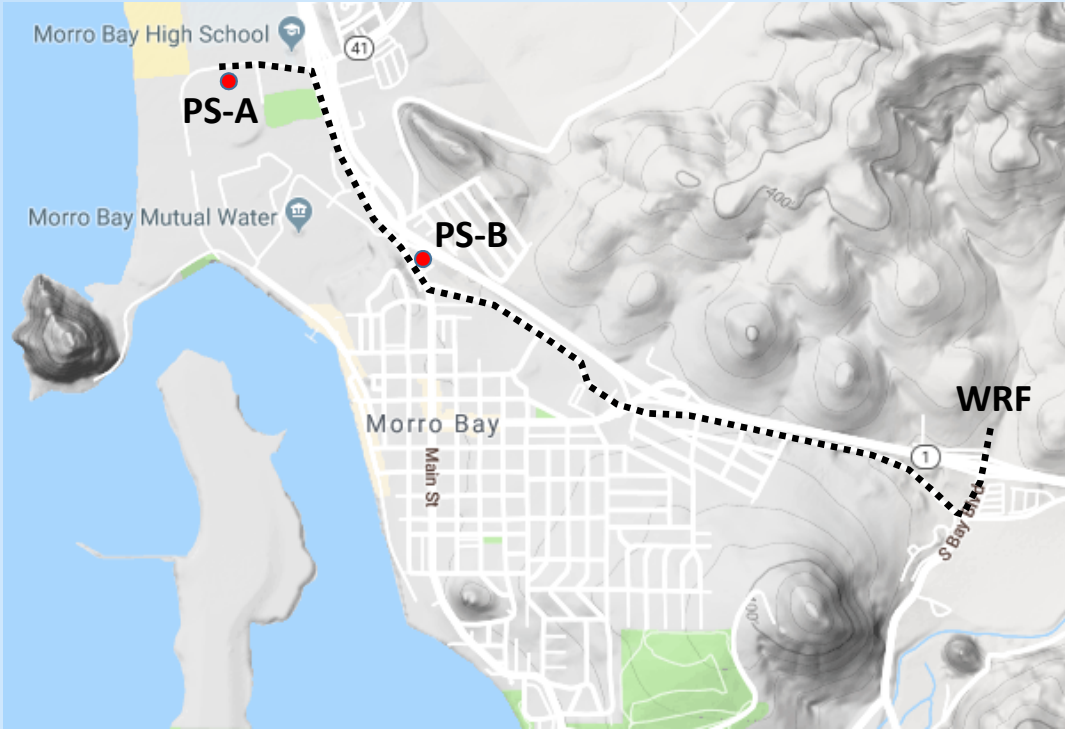
Proposed Concept
Maximize use of existing infrastructure

Pump Station Analysis



Key Criteria and Constraints	Single	Dual
# of New Stations	0	-1
Single vs. PS-A Footprint	-1	+1
Standard Wet Well Configuration	-1	+1
Facility Maintenance Impacts	0	-1
Pipe Length for Pigging	-1	+1
LS-2 FM Redundancy	0	+1
Total Score	-3	+2

Project Costs: Pump Station	\$11.0M	\$8.4M
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PS-A Preliminary Rendering



❖ Autodesk Viewer: <https://autode.sk/2QVbxPv>



Existing Site



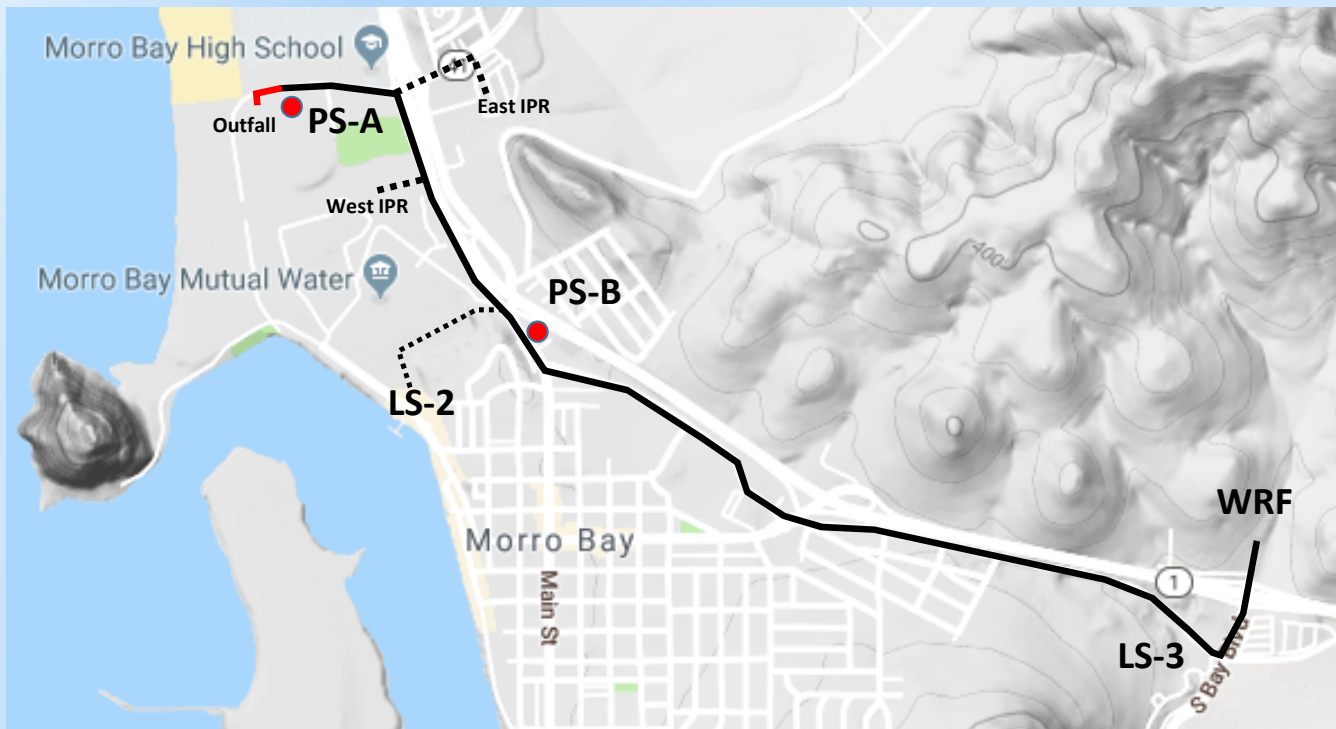
PS-B Preliminary Rendering



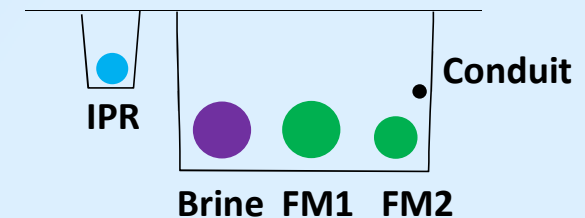
Existing Site



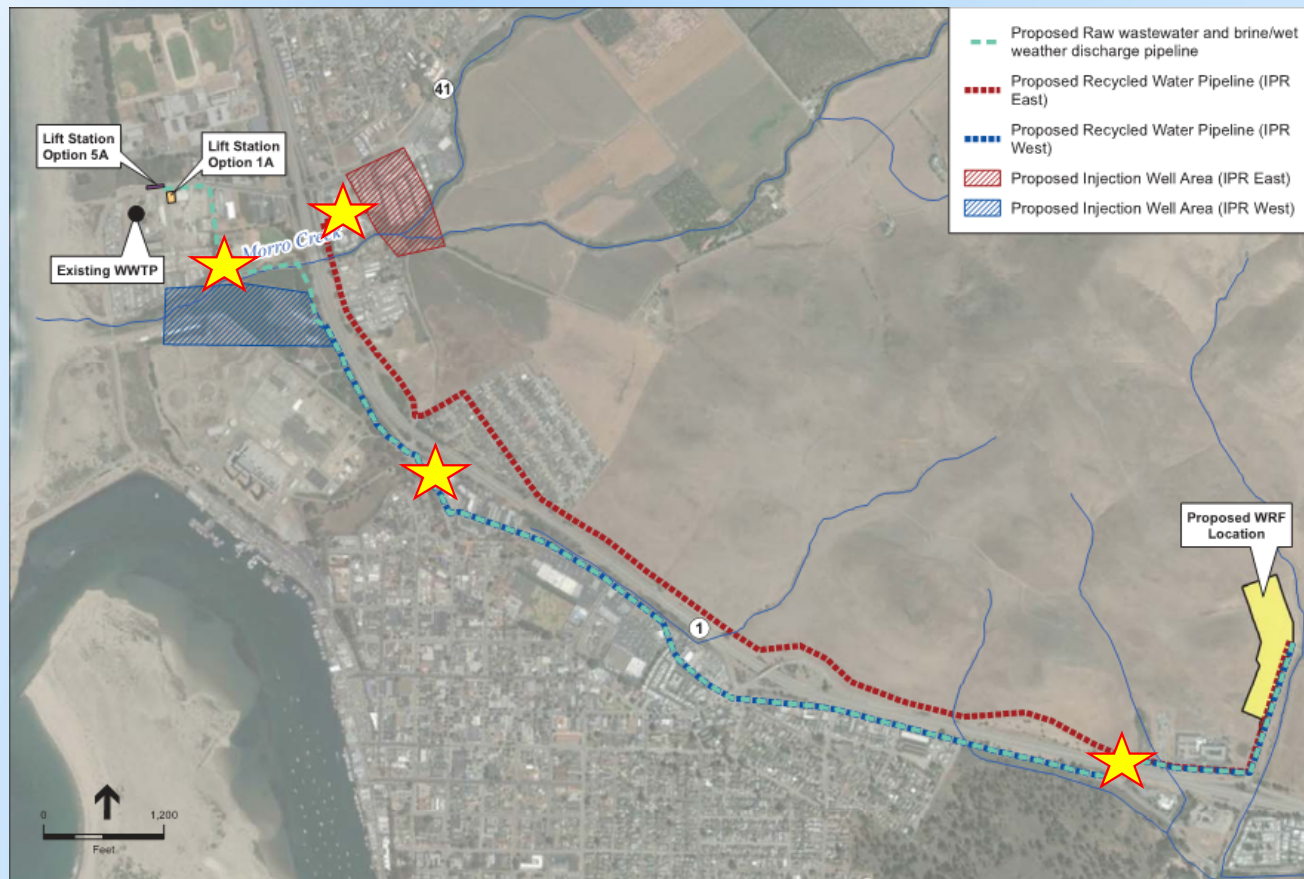
Preferred Alternative



West Alignment



Revisions to the Final EIR



East injection site routing

Lila Keiser rerouting

Second pump station

Remove trenchless crossing



Budget

Status of SRF funding

- Final scoring worksheet provided to the City (January 17th)
- Maximum scoring
 - Potable Water = 17 points
 - Delta Water Quality = 16 Points
 - **Recycled Water = 14 points**

Primary		Secondary		Readiness		Proposed Priority Score
7	+	3	+	4	=	14

*The score will be final upon Board approval of the IUP.

STATE OF CALIFORNIA
 STATE WATER RESOURCES CONTROL BOARD
 Division of Financial Assistance
 P.O. Box 94214, Sacramento, CA 95814

FINANCIAL ASSISTANCE APPLICATION REVIEW
 Clean Water State Revolving Fund
 Water Recycling Funding Program

PRIORITY SCORING WORKSHEET

A. Project Information

Project(s) #:	8185-110	Date Completed:	1/3/2019
Applicant:	City of Morro Bay	Date Reviewed:	1/16/2019
Project Title:	Water Reclamation Facility Project		
Project Manager:	Jody Hack		
Reviewed By:	Eric Casanes		

Important: Project Managers must complete a worksheet for each "project" based on the application(s) as of December 31. After completing the worksheet, provide the applicant with an opportunity to review and comment on the worksheet. Scoring criteria definitions are provided on page 3.

B. Automatic Fundability

1. Does the Applicant qualify to be a Small Disadvantaged Community?
 - A population less than 20,000, and
 - An MHI of less than eighty percent (80%) of the community's MHI
☐ Yes ☒ No

2. Does Project qualify as a Public Health project?
 Public Health Project: A project is a public health project when the County Board of Supervisors, City Council, or the County Health Officer has certified that a health problem exists and the State Water Board or a Regional Water Board has (a) adopted a discharge prohibition, (b) approved a moratorium, or (c) adopted a cease and desist order. Alternatively, a project may be a public health project when it is required to comply with a prohibition, posing, limitation, or warning that has been imposed by a responsible health authority and the State Water Board or a Regional Water Board has concurred with the health authority's determination and established a time schedule for correction or elimination of the problem. The applicant must demonstrate a direct connection between completion of the project and correction or elimination of the public health problem.
☐ Yes ☒ No

➤ If Yes to either of the above, project is automatically added to the Fundable List.

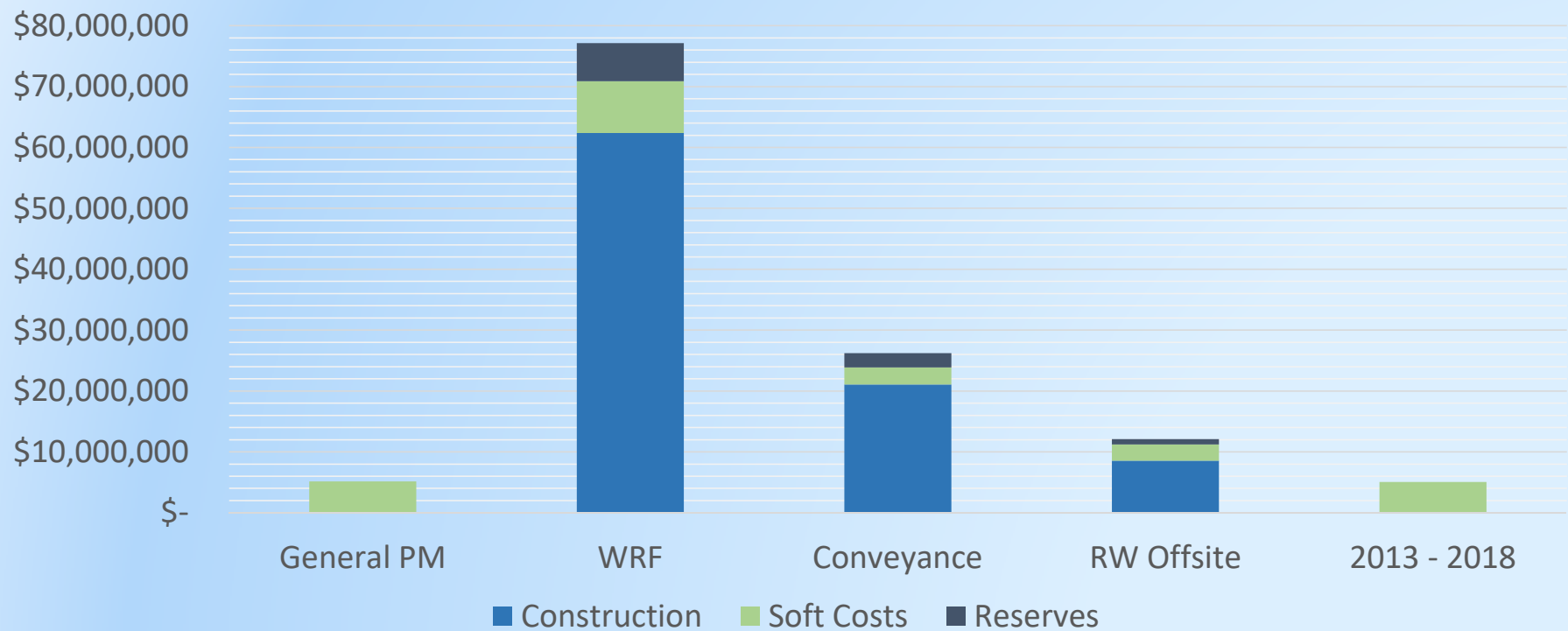
C. Ineligibility

1. Has more than 25% of construction been completed, based on cost.
☐ Yes ☒ No

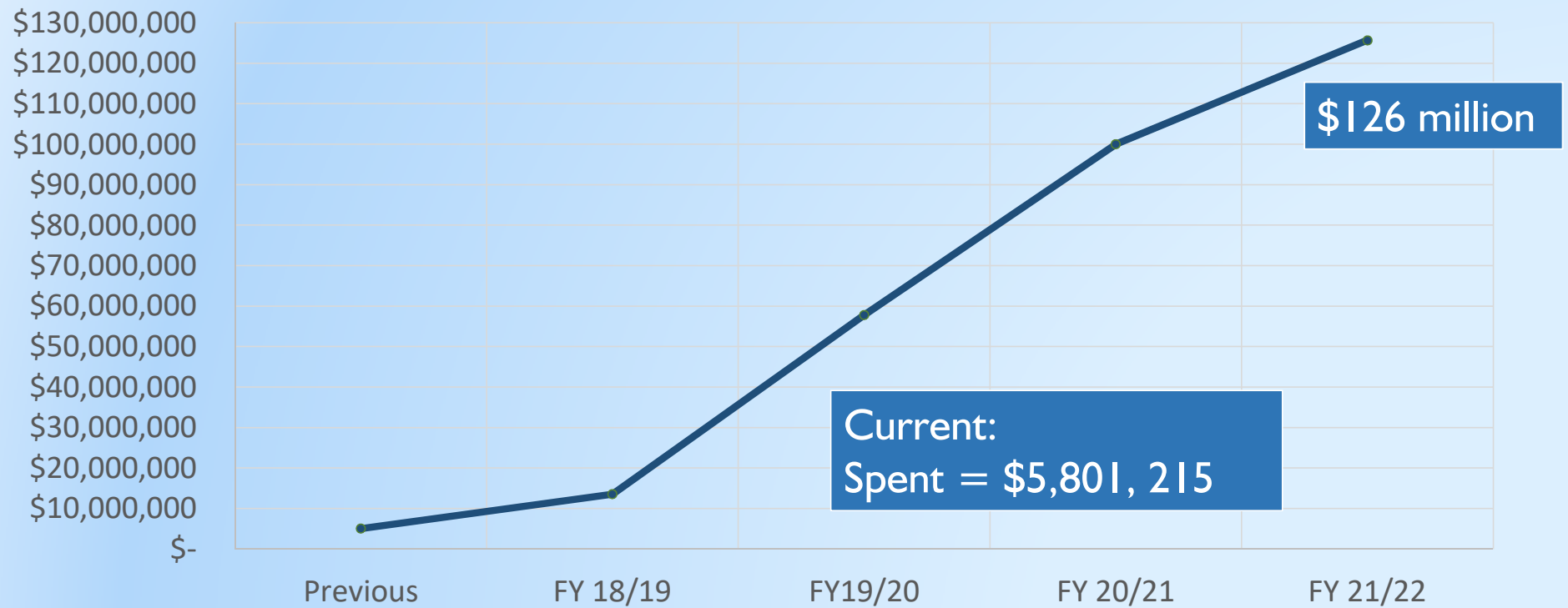
2. Was construction started on or before December 31 and is construction scheduled to be completed before June 15 or IUP adoption date.
☐ Yes ☒ No

➤ If Yes to either of the above, project is ineligible. Do not score, project is not fundable.
 ➤ If No to both 1 & 2, Project will be scored for placement on the Fundable List per Section D.

Budget summary (\$126 million)



Fiscal year budgeting



Recommendations

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Questions and Discussion