



CITY OF MORRO BAY PUBLIC WORKS ADVISORY BOARD AGENDA

The City of Morro Bay provides essential public services and infrastructure to maintain a safe, clean and healthy place for residents and visitors to live, work and play.

**Wednesday, January 16, 2019
Veterans' Memorial Building - 5:30 P.M.
209 Surf Street, Morro Bay, CA**

Ric Deschler, Chair
John Erwin

Steven Shively, Vice-Chair
Janith Goldman
Stewart Skiff

Christian Erlendson
Christopher Parker

ESTABLISH QUORUM AND CALL TO ORDER
MOMENT OF SILENCE/PLEDGE OF ALLEGIANCE
ANNOUNCEMENTS
PRESENTATIONS – None

ELECTION OF CHAIR AND VICE-CHAIR

PUBLIC COMMENT PERIOD

Members of the audience wishing to address the Board on City business matters not on the agenda may do so at this time. To increase the effectiveness of the Public Comment Period, the following rules shall be followed:

- When recognized by the Chair, please come forward to the podium and state your name and city of residence for the record.
- Comments are to be limited to three minutes.
- All remarks shall be addressed to the Board, as a whole, and not to any individual member thereof.
- The Board respectfully requests that you refrain from making slanderous, profane or personal remarks against any elected official, commission and/or staff.
- Please refrain from public displays or outbursts such as unsolicited applause, comments or cheering.
- Any disruptive activities that substantially interfere with the ability of the Board to carry out its meeting will not be permitted, and offenders will be requested to leave the meeting.
- Your participation in Board meetings is welcome and your courtesy will be appreciated.

A. CONSENT CALENDAR

- A-1 Approval of Minutes of October 17, 2018 Regular Meeting
Recommendation: Approve minutes.

B. BUSINESS ITEMS

- B-1 Directors Report - Informational summary of current Public Works Activities
Recommendation: Information item for discussion, no action needed.
- B-2 Discussion of City Goals
Recommendation: Provide input on potential City's Goals, related to Public Works, for the 2019 Goal Setting process.

C. POTENTIAL FUTURE AGENDA ITEMS

Update on Highway 41/Main Street/Highway 1 Intersection Improvements
Water Supply and Allocation

D. ADJOURNMENT

Adjourn to the Public Works Advisory Board meeting at the Veteran's Memorial Building, 209 Surf Street, on February 20, 2019 at 5:30 p.m

This agenda is subject to amendment up to 72 hours prior to the date and time set for the meeting. Please refer to the agenda posted at the Public Works Department, 955 Shasta Avenue, for any revisions or call the department at 772-6262 for further information.

Materials related to an item on this Agenda are available for public inspection during normal business hours in the Public Works Department at 955 Shasta, City Hall at 595 Harbor, Mill's/ASAP at 495 Morro Bay Boulevard, or the Morro Bay Library at 695 Harbor, Morro Bay, CA 93442. Materials related to an item on this agenda submitted to the Board after publication of the agenda packet are available for inspection at the Public Works Department during normal business hours or at the scheduled meeting.

This agenda may be found on the Internet at: www.morrobayca.gov/pwab or you can subscribe to Notify Me for email notification when the Agenda is posted on the City's website. To subscribe, go to www.morrobayca.gov/notifyme and follow the instructions.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Public Works Department at (805) 772-6262. Notification 24 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

PRESENT:

Steve Shively	Vice Chair
Chris Parker	Board Member
Janith Goldman	Board Member
Stewart Skiff	Board Member
John Erwin	Board Member

Absent	Christian Erendson	Board Member
	Ric Deschler	Chair

STAFF:	Rob Livick	Public Works Director
	Joe Mueller	Utilities Division Manager
	Mike Wilcox	Maintenance Superintendent
	Gina Gregory	Office Assistant

ESTABLISH QUORUM, CALL TO ORDER AND MOMENT OF SILENCE

The meeting was called to order at 5:30 p.m. A quorum was present.

ANNOUNCEMENTS – Board Member John Erwin advised the Public Works Advisory Board that he would be out from the meeting awhile.

PRESENTATIONS – None

PUBLIC COMMENT PERIOD

The public comment period was opened, seeing none, the public comment period was closed.

A. CONSENT AGENDA
https://youtu.be/X_8YEao8Ey8?t=414

A-1 APPROVAL OF MINUTES OF OCTOBER 17, 2018 MEETING

MOTION: Stewart Skiff moved to approve Item I-1. The motion was seconded by John Erwin and carried 5-0-0 unanimously.

B. BUSINESS ITEMS

B-1 Directors Report – Informational summary of current Public Works Activities
https://youtu.be/X_8YEao8Ey8?t=7m38s

Rob Livick presented the staff report.

The Board asked questions of staff and commented on the Director’s Report.

B-2 Review of Draft OneWater Plan
https://youtu.be/X_8YEao8Ey8?t=1848

Rob Livick presented the Review of Draft OneWater Plan.

Discussion, comments, and questions continued amongst the Board and staff.

C. ADJOURNMENT

The meeting adjourned at 6:41 P.M. to a regular Public Works Advisory Board meeting at the Veteran’s Memorial Building, 209 Surf Street, December 19, 2018.

Recorded by:

Gina Gregory
Office Assistant



AGENDA NO: B-1

MEETING DATE: January 16, 2019

MEMORANDUM

TO: Public Works Advisory Board
CC: City Manager
DATE: January 10, 2019
FROM: Rob Livick, PE/PLS - Public Works Director/City Engineer
SUBJECT: Director's Report / Information Items

Please contact the individual staff members prior to the meeting, if possible, for more detailed information.

Notify Me: Sign up for Notify Me on the City's Website www.morrobayca.gov/notifyme to be notified by email when Council, Board's and Commission's agendas and minutes are posted on the website.

Service Requests: Citizens can report a concern to the City for predetermined issues without the need to phone the City during business hours (for example: reporting a pothole) by using a feature on the City's website, Service Requests www.morrobayca.gov/905/Service-Requests, or the mobile App "My Morro Bay" (available on both Android and IOS operating systems).

Staff can also add Service Requests for someone over the phone or in the office if they do not have access to a computer. Each category in Service Requests is assigned to the appropriate staff member to handle so citizens don't have to figure out what department to contact for an issue they need to report on.

CONSOLIDATED MAINTENANCE COMPLETED TASKS AND PROJECTS.

Staff Contact: Matt Bishop

Streets:

- Installed new high visibility street signs at Hill/Bayview, Hill/Sunset, Main/Avalon, Main/San Joaquin, Alder/San Joaquin, Main/Java, Nevis/Tide, Avalon/Greenwood with new pole.
- Replaced stop signs at Main/Yerba Buena, Ironwood/Highway 41 and Preston/Main.
- Removed 2-hour parking sign and relocate the crosswalk sign in its place on the 800 blk. of MB Blvd.
- Installed 2 new poles and 25 MPH turn signs along with 1, Not A Through Street on Little Morro Creek Road.
- Installed new neutral wire from street pull box to power pedestal. Rewire main panel to accommodate new GFCI breakers. Replace every outlet along Main St.
- Filled several potholes around town with Cold Mix Asphalt.
- Removed old wooden staircase at Surf Street, grade slope, plant grass seed, top with hay and jute.

Parks:

- Hauled in and installed 30 tons of red rock material into the Coleman Park parking lot and graded.
- Repaired broken toilet push button assembly at Tidelands Park.
- Installed new water shut off valve and rebuilt flush valve assembly in Tidelands Park women's restroom.
- Power snake shower and floor drains to unclog water backup at Tidelands Park.

Other:

- Replace approx. 28 board feet of broken Trex board walkway on Harborwalk



Street and Stop Signs

CONSOLIDATED MAINTENANCE COMPLETED TASKS AND PROJECTS.

Staff Contact: Matt Bishop

Facilities:

- Replaced Veteran's Hall hand towel dispenser.
- Painted wall, door and jambs in Police Chief's office.
- Diagnosed and replaced failed capacitor in heat exchanger on boiler system at Fire Department.
- Replaced ribbon cable and 2 battery packs in keypad entry locks at Fire Department.
- Replaced bad electrical ballasts in Senior Center office at Community Center.
- Repaired large widow latch mechanism, aligned and lubed at Community Center.
- Re-attach torn fabric on operable wall with contact cement at Community Center.
- Installed new Park Maintenance shop door, hardware and security deadbolt at Corporation Yard.

Storm Drains:

- Excavate and remove old failed storm drain pipe at 1200 blk. of the Embarcadero. Install 91' of new 15" diameter drain pipe and tie into DI. Backfill, compact and grout ends.



Storm Drain Replacement

STREET TREES

Staff Contact: Damaris Hanson
Matt Bishop

Bird Nesting Season will begin February 1st and continue through June 30th. - No trimming or tree removal during this time except in the case of an emergency as determined by the Director.

- Added support poles, horizontal and supports to several juvenile trees.
- Cut up and haul several fallen limbs and a few fallen trees.
- Trimmed 44 trees in the downtown area, for routine maintenance and in preparation of the tree lighting.
- Installed two options for decorative tree lighting in the Downtown area one being the Café (or bistro) lightening and the second option being large spheres.
- Over the coming weeks the City will be using the \$16,000 allocated by City Council to install the Café lighting on the down town trees, specifically Morro Bay Blvd from Napa to Morro Ave and Main Street from Morro Bay Blvd to Harbor St. With a priority for the trees on the Blvd should sufficient funds not be available to complete all the trees.



Tree Trimming



TRANSIT

Staff Contact: Janeen Burlingame

Short Range Transit Plan

The SRTP consultant completed the full plan that compiles all previous Technical Memorandums and includes the marketing strategies, financial, and capital components. The full plan is available online for review at <http://www.morro-bay.ca.us/mbsrtp>.

Transportation Development Act Annual Fiscal Audit

The annual fiscal audit was completed and submitted to the San Luis Obispo Council of Governments (SLOCOG) and State of California Department of Transportation by the December 31 deadline. The audit shows the City's transit system's farebox ratio is 11.56% and is in compliance with the State's 10% requirement.

Triennial Performance Audit

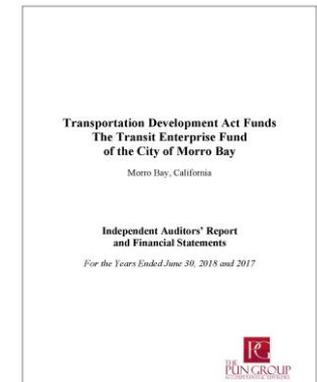
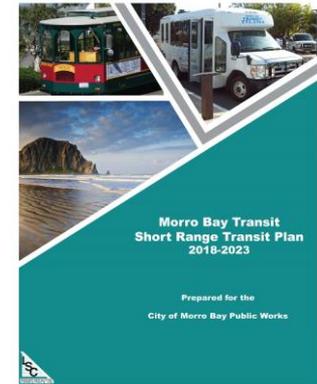
Majic Consulting Group was contracted by the SLOCOG to conduct the triennial performance review of the City's Transit Division for the period FY15/16 through FY17/18. The consultant has began work on the Triennial Performance Audit and conducted its initial site visit with staff. The final audit is expected to be completed by June 30, 2019.

Trolley Vehicle Purchase

After the City Council adopted Resolution 78-18 authorizing the City Manager to purchase a replacement trolley, staff moved forward with finalizing the purchase order and ordering the vehicle from the CalACT/Morongo Basin Transit Authority Purchasing Cooperative. Anticipated deliver date for the vehicle is June 2019.

Transit Bus Purchase

Staff began work on the procurement of a replacement transit bus. The bus will be purchased from the CalACT/Morongo Basin Transit Authority Purchasing Cooperative and is fully funded with grant and local TDA funds. The City has received an assignment letter from CalACT authorizing the City's purchase of the bus from its procurement contract. Once the City's purchase order approval is finalized, staff can proceed with ordering the vehicle. Once ordered, the vehicle should take approximately 6 months to manufacture.



WATER – OPERATIONS

Staff contacts: Joe Mueller
Damaris Hanson
Dave Zevely

Operations and Maintenance:

- Flushed 70 Hydrants and dead ends throughout the water distribution system.
- Responded to 13 after-hour callouts at 3336 Tide Street, 411/413/415 Napa Street, 464 Main Street, 2945 Ironwood Avenue, 900 Morro Bay Blvd., Low Water Alarm at Kings water storage tanks, 1005 Carmel Street, 635 Kern Avenue, Kings and Quintana Road—Vehicle hit fire hydrant, 2960 Cedar Avenue, 640 Sequoia Court, 702 Morro Bay Blvd, 3022 Main Street.
- Responded to 10 water leaks and located and repaired as needed.
- Located and marked 71 Underground Service Alerts.
- Tested for Chlorine residual at various sample points throughout the water distribution system.
- Operated and maintained the water treatment plant on a weekly schedule.
- Assisted GSI Water Solutions with the installation of sensors in wells for gathering ground water modeling data.
- Installed a new water service at 110 Orcas Way

Sampling for permit requirements:

- Conducted weekly water sampling at various sample points in the distribution system and sent samples to a certified lab for analysis.
- Annual testing for the Brackish water reverse osmosis water treatment plant effluent samples and sent samples to a certified lab for various tests including bioassay.
- Performed samples for the Unregulated Contaminated Monitoring Rule (UCMR4)

Submitted Reports: (No issues to report)

- Monthly water report to State Water Resources Control Board (Extraction Report)
- Monthly water report to Division of Drinking water
- Water conservation report



Trevor Paslay, Utility Operator, working in the water treatment plant laboratory

WATER – CONSERVATION

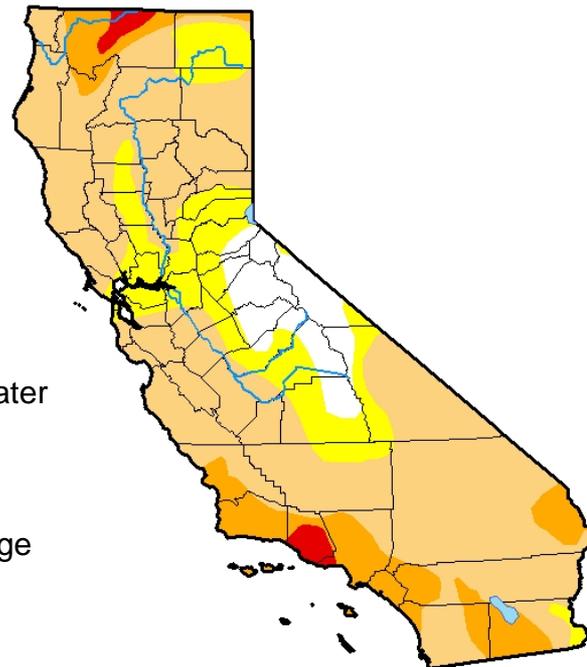
Staff contact: Damaris Hanson

Please remember to make water conservation a way of life!

City water conservation rebates available; Cash for grass, rain barrel, irrigation retrofit, SMART irrigation controller, toilet retrofit and Energy star washing machine. State rebates now available for removing grass, add replacing a toilet that flushed more than 1.6 gallons per flush (\$100).

U.S. Drought Monitor California

January 8, 2019
(Released Thursday, Jan. 10, 2019)
Valid 7 a.m. EST



Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Brad Pugh
CPC/NOAA



- For the month of November water conservation was 12% lower compared to November 2013
- December water conservation was 30% lower than 2013 usage

<http://droughtmonitor.unl.edu/>

WASTEWATER – COLLECTIONS

Staff Contacts: Joe Mueller

John Gunderlock

October through December:

Operation & Maintenance

- Staff sold old vacuum truck
- Staff implemented Cityworks Collections database
- Staff performed pH spot check at Mission Linen
- Staff cleaned storm drain on Main street
- Staff installed flow meters in the Collections system for rain events
- Staff tested Lift Station alarms
- Staff sealed manholes in Section 2
- Staff found and cleared a Sanitary Sewer Overflow near hwy 41
- Staff video surcharging line on Sequoia street
- Staff performed rust repairs and painting on crane and service truck
- APCD annual inspection; no problems noted
- Continued routine cctv inspection in Sec. 2
- Hydro cleaning Oct. 34,833 + Nov. 26,824' + Dec. 9,380' =71,037'
- On-Call staff received 3 after hours calls
- Staff completed 5 Lateral inspections
- Staff performed pump maintenance at Lift Station #2

Staff Training

- Tri-Counties CWEA operator certification



Lift Station #2 Pump Maintenance



Lift Station #2 Confined Space
Clean Flowmeter

WASTEWATER – TREATMENT

Staff Contacts: Joe Mueller

John Gunderlock

Operation & Maintenance:

- Flow for the month of October averaged 0.790 Million Gallons per Day (MGD) and totaled 24.489 million gallons.
- Flow for the month of November averaged 0.808 Million Gallons per Day (MGD) and totaled 24.246 million gallons.
- Flow for the month of December averaged 1.095 Million Gallons per Day (MGD) and totaled 33.955 million gallons.
- The influent flume flow meter was calibrated and certified in December.
- Staff recorded 0.04 inches of rain during the month of October.
- Staff recorded 2.65 inches of rain during the month of November.
- Staff recorded 1.27 inches of rain during the month of December.
- Staff responded to (12) after hour callouts from October through December for plant chlorine adjustments. The plant received 2 deliveries of higher than normal strength sodium hypochlorite bleach; the high strength was difficult to process control.
- Staff provided a plant tour to a High School Jr. Class Environmental Sciences class; 14 students and chaperones from Bakersfield.
- Staff ran emergency generator for routine switch gear and performance inspection.
- Air Pollution Control Board (APCD) annual inspection; no problems noted during inspection.
- San Luis Powerhouse performed quarterly maintenance in November.
- Alpha Electric repaired 480V breaker linkage in the Headworks.
- Approximately 200 wet tons of Biosolids were hauled off for recycling in October.
- Kyle Quaglino passed a State Water Resources Control Board Wastewater Treatment Grade III examination.
- Plant staff assisted the Water Utilities staff at the desal plant, lab sampling, ordering supplies.
- Staff tested all plant alarms.
- Staff calibrated the Headworks atmospheric monitor.
- Staff downloaded all flow meters, chart recorder and updated flow spreadsheets.
- Staff installed influent flow meter dataloggers to record gallons per minute.
- Staff tested and cleaned the hydraulic emergency bypass pump.
- Staff continuing to troubleshoot low gas mixing pressure on digester #3 and plugging sludge discharge.
- Staff troubleshooted the Secondary Flow Meter and re-aligned sensors.

Wastewater Treatment - Continued

Operation & Maintenance Continued:

- Staff repaired an underground water leak in the Digester area.
- Staff drained and inspected the Chlorine Contact Chamber, Primary Clarifier #2 and the Grit Chamber in October.
- Staff repaired 40 feet of plant fencing.
- Staff drained and inspected Primary Clarifier #1 in December.
- Staff replaced a failed jacuzzi pump on the Secondary Clarifier trough sprayer.
- Staff in process of testing a HACH CL-10 total chlorine analyzer.
- Staff is in the process of adding additional bisulfite storage capacity and reconfiguring the piping system and bisulfite heater.
- Staff replaced 6-inch emergency bypass piping at the Headworks.

Staff Training:

- Trench Safety training
- Confined Space Entry training
- Haz Rescue training event with Fire Department

Submitted Reports:

- September through November 2018 Monthly Self-Monitoring Reports (eSMR)
- September through November 2018 Monthly Discharge-Monitoring Reports (eDMR)
- Third Quarter Receiving Water and Effluent Bacteria Reports
- Third Quarter Time Schedule Order Report (TSO)
- Outfall Inspection Annual Report
- Annual Sampling Reports



480V Breaker Linkage Repair



Chlorine Contact Inspection

ENGINEERING/CAPITAL PROJECTS

Staff contact: Rob Livick

Highway 41/Main/Highway 1

- Intersection improvements to include a Roundabout (Preferred) or Signalization
- No change in status

Pavement Management

- Work on-hold due to weather conditions
- Notices will be provided to affected businesses at least three days prior to restarting work. Additionally, the City will use various social media outlets to get the word out, including Next Door, Facebook and the City Webpage

Nutmeg Tank Replacement

- No change in status
- Addressed in the OneWater – Water System Capital Improvement Plan

Chorro Stream Gages

- Direction from Council to begin process to discontinue use of Chorro Valley groundwater basin as a water supply source.

Kings/Fairview Slope Repair

- Initial bids rejected, plans to rebid

North Point Parking Lot

- Survey completed, working on design in-house

Cloisters Landscaping Improvements

- Reviewing and selecting submitted proposals

ENGINEERING/CAPITAL PROJECTS

Staff contact: Rob Livick

Development Review

- Staff is working on the following projects:
 - Morro Mist 23 Lot Subdivision (Bonita and Main): Under Construction – Frontage Improvements complete.
 - Black Hills Villas (South Bay/Quintana): Public Improvements complete, record drawings submitted.
 - Sunset Subdivision (Sunset, North of Hwy 41): Inspection for end of one-year maintenance period completed, houses are under construction
 - Sonic Restaurant – Main and Highway 41: In Plan Check – Waiting for resubmittal from applicant
 - Other Commercial Developments
 - Front Street (North) Hotel: Under Construction
 - Morro Bay Landing: Under Construction
 - Harbor Hut Docks: In Plancheck
 - Otter Rock/Boatyard Remodel: Under Construction
 - Harborview Hotel/Commercial: Planning Review
 - Hotel Development – NW corner Atascadero Road West and Highway 1: Planning Review
 - US Coast Guard Addition: In Plancheck
 - Residential remodels and construction: Various thought the City

WASTEWATER – NEW WRF

Staff contact: Rob Livick

CONVEYANCE FACILITIES UPDATE

The WRF Program includes the construction of a new treatment facility with advanced treatment at the South Bay Boulevard site, conveyance facilities consisting of a lift station(s) and pipelines to connect the new treatment facility to the existing wastewater treatment plant (WWTP), and offsite recycled water facilities necessary to inject purified water into the Lower Morro Groundwater Basin (i.e., indirect potable reuse [IPR]).

On November 06, 2017, the City selected WWE to provide Engineering Design Services for the new WRF Lift Station and Offsite Pipelines Project (i.e., Conveyance Facilities Project). The major design tasks for the Conveyance Facilities Project include:

- Coordination with City for selection of lift station location
- Hydraulic analysis
- Pump selection
- Wet well design
- Odor control design
- Design of backup power supply
- Pipeline alignment verification
- Force main pipeline design
- Brine discharge pipeline design

WWE's engineering design services for the Conveyance Facilities Project include:

- Review and verification of the preliminary design criteria presented in the Draft WRF Master Plan
- Development of a Site Alternatives Study to finalize selection of the lift station site
- Preparation of a Concept Design Report
- Preparation of draft construction documents including plans, specifications and cost opinions at the 60 percent, 90 percent, and 100 percent completion milestones
- Preparation of final construction documents including plans, specifications and cost opinions

WWE has been working with City staff and the WRF Program Manager over the last several months and is nearly complete with the Draft Concept Design Report. To date, WWE has completed the analyses for the preliminary design and is working to finalize the draft report. At the last WRFCAC and Council meetings, WWE summarized the findings from the preliminary design analyses that will form the basis of the Draft Concept Design Report. City staff will be bringing the Draft Concept Design Report to the City Council at a later date. (Presentation Attached)

WASTEWATER – NEW WRF

Staff contact: Rob Livick

Hydrogeotechnical

The City Council authorized a contract to GSI Water to evaluate the following issues: (1) the groundwater flow field in the local aquifer should the City pump its full permitted allotment of 581 AFY with no contribution of recycled water, (2) the volume of water that can be injected into the basin without extraction from City wells, (3) the effect of such injection on nitrate concentration levels in the aquifer, (4) nitrate levels in groundwater under different injection and recovery scenarios, and (5) potential changes in groundwater chemistry resulting from potential seawater intrusion.

GSI Water has installed pressure transducers in select City wells and is scheduling Cone Penetrometer Testing (CPT) for field the assessment of aquifer.

State Revolving Fund Loan

On September 25, 2018 Council authorized the submittal of a loan application the State Water Resources Control Board for low interest financing of the project not finances by the EPA WIFIA loan program.

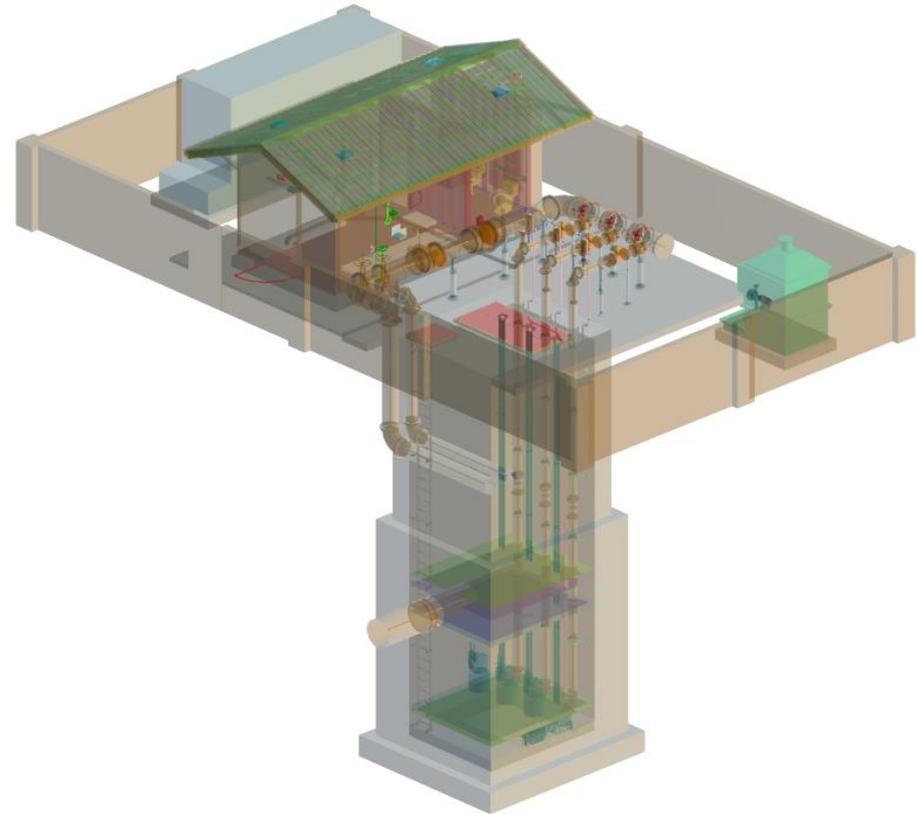
The application is complete and is currently being “scored” by State Board Staff. Due to the scope of the project it is likely the City will receive the maximum points possible for a project of this type.



CITY OF MORRO BAY WATER RECLAMATION FACILITY PROJECT

• Project Summary

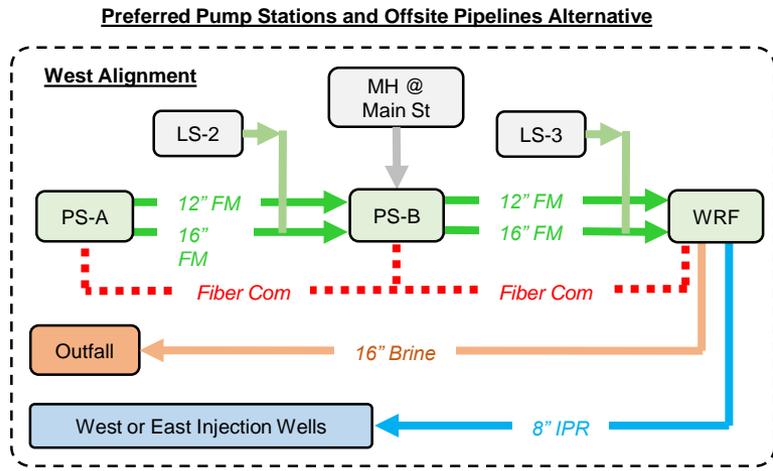
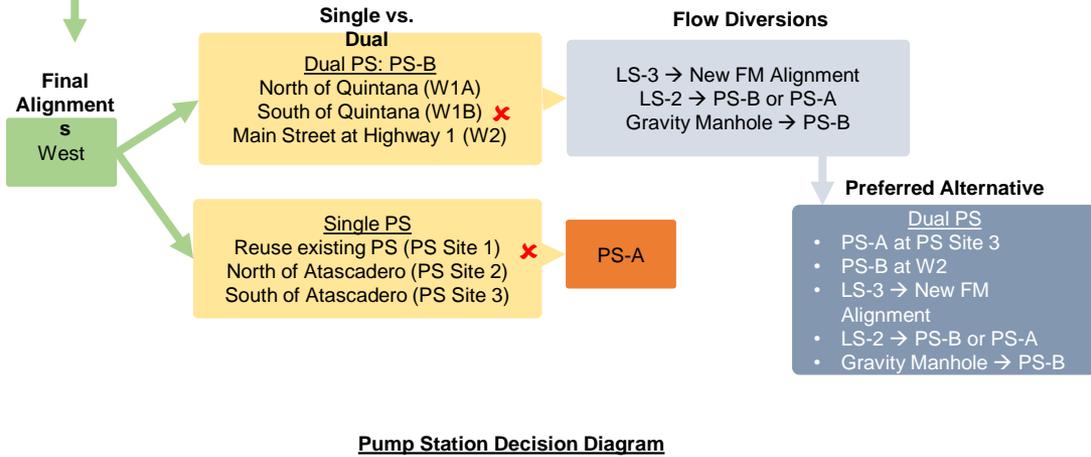
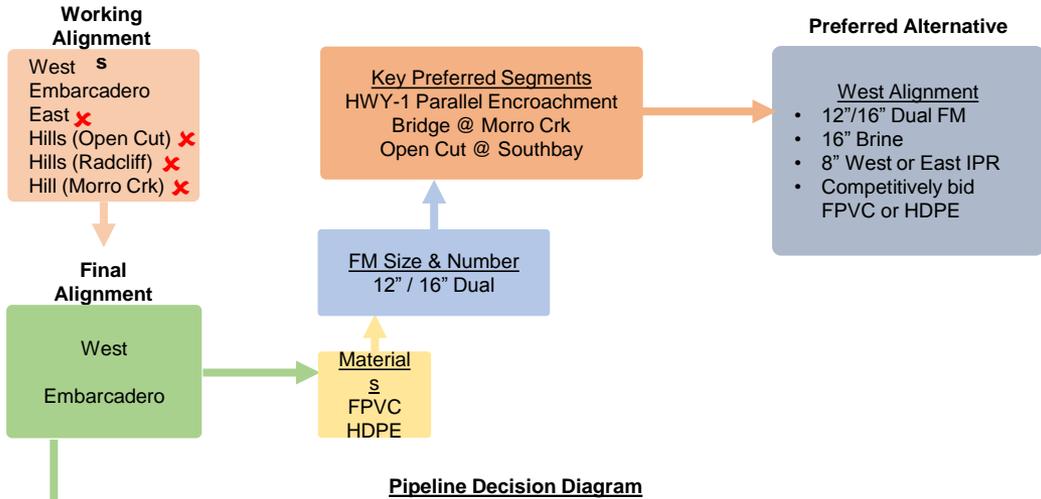
- Design Flows
- Offsite Pipeline Route Study
- Pump Station Alternatives Assessment
- Preferred Alternative
- Total Project Cost



WRFCAC Status Update

Water Reclamation Facility (WRF) Lift Stations and Offsite Pipelines

December 17, 2018



Project Design Flows

OneWater: 2040 Future Conditions		
Flow Regime	Hourly (MGD)	Hourly (gpm)
High Winter	8.14	5,650
* Cayucos Sanitary District existing flows are not incorporated in the WRF project		

Pipeline	Brine Pipeline	IPR
Max Flow (mgd)	8.14	0.80

WRFAC Status Update – WRF Lift Stations and Offsite Pipelines

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

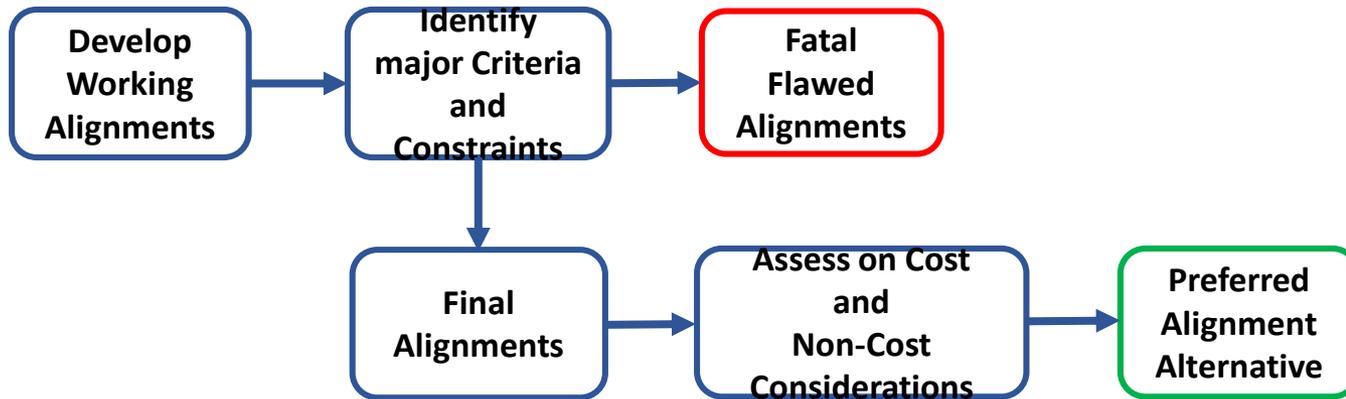
Indirect Potable Reuse (IPR) Pipeline

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

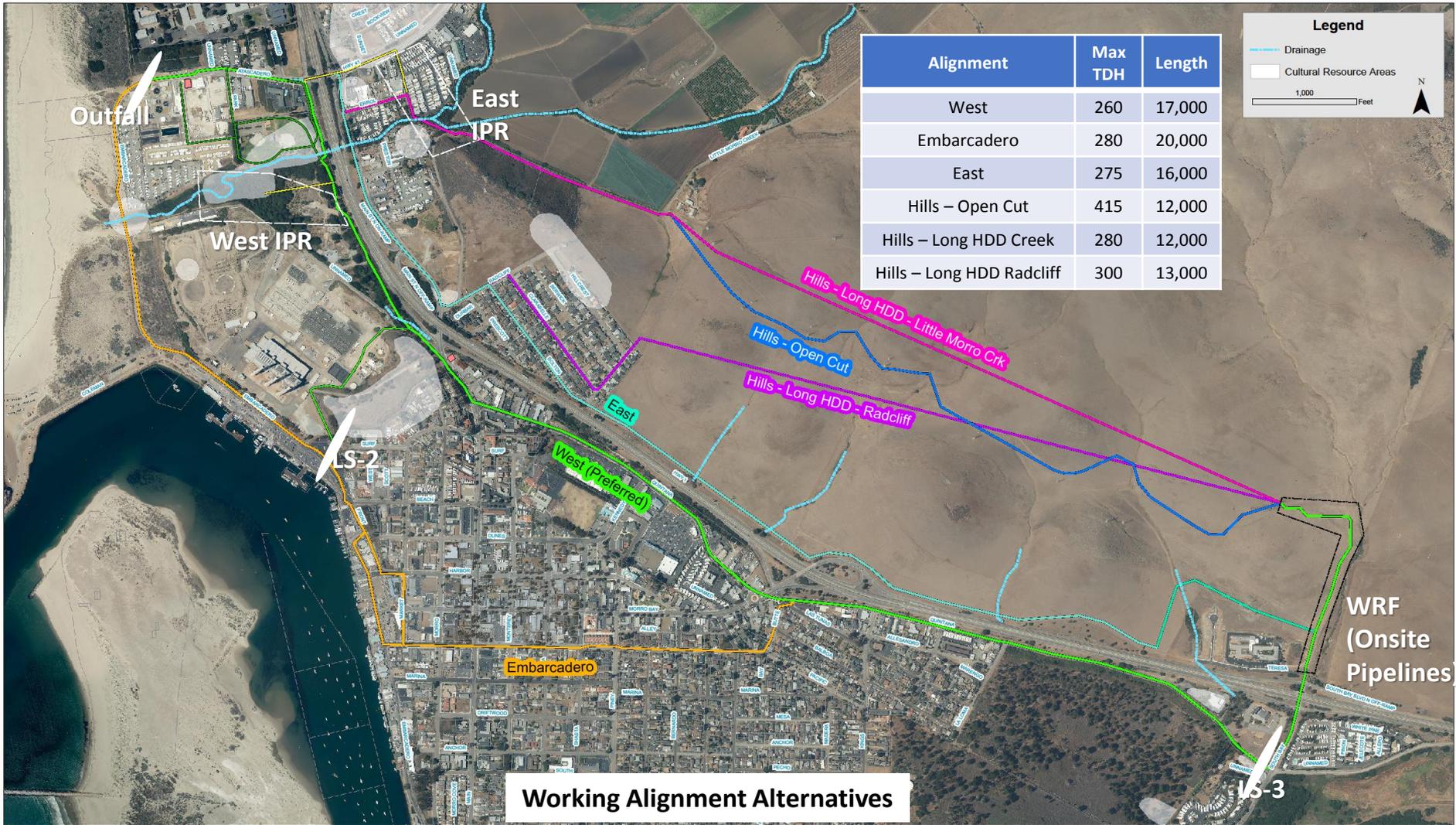
Communication Conduit (Fiber Optic)

- 4" diameter PVC Conduit

Offsite Pipelines Route Study Overview



WRFAC Status Update – WRF Lift Stations and Offsite Pipelines



Working Alignment Alternatives

WRF Offsite Pipelines Working Alignment Alternatives



Working Alignments Assessment

Preferred

Key Criteria and Constraints	West	Embarcadero	East	Hills		
				Open Cut	Long HDD Radcliff	Long HDD Little MorroCrk
Hydraulics (Total Dynamic Head)	+	-	FF/0*	FF	+	+
Environmental / Schedule Risks	0	+	FF	FF	0	-
Geotechnical	+	-	-	-	-	-
Cultural Resources	+	-	0	-	-	-
Accessibility / O&M	+	+	-	-	-	-
Dual Pump Station Integration	+	-	0	-	-	-
Constructability	0	+	FF/-	0	FF	FF
Right of Way Acquisition	0	+	-	-	-	-
Traffic Impacts	-	-	0	+	+	+

FF: Fatal Flawed

**Hybrid alignment East - West*

Final Alignments Assessment

Working Alignments

- West
- Embarcadero
- East ✘
- Hills (Open Cut) ✘
- Hills (Long HDD – Little Morro Crk) ✘
- Hills (Long HDD – Radcliff) ✘

Final Alignments

- West Alignment Alternative
- Embarcadero Alignment Alternative

Total Offsite Pipelines Project Costs*					
Alignment	Pipeline Option	Force mains + Brine	West IPR	East IPR	Communication Conduit
West	12"FM + 16"FM + 16"Brine DR 18 FPVC or	\$13.5M	\$2.3M	\$3.3M	\$0.41M
	14"FM + 20"FM + 20"Brine DR 13.5 HDPE				
Embarcadero	12"FM + 16"FM + 16"Brine DR 18 FPVC or	\$15.1M	\$3.0M	\$4.1M	\$0.49M
	14"FM + 20"FM + 20"Brine DR 13.5 HDPE				

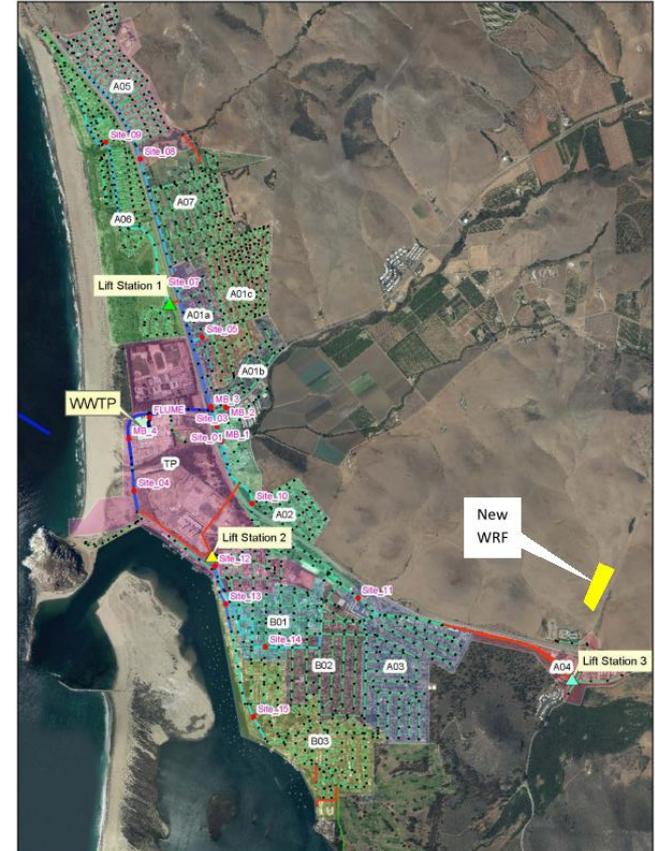
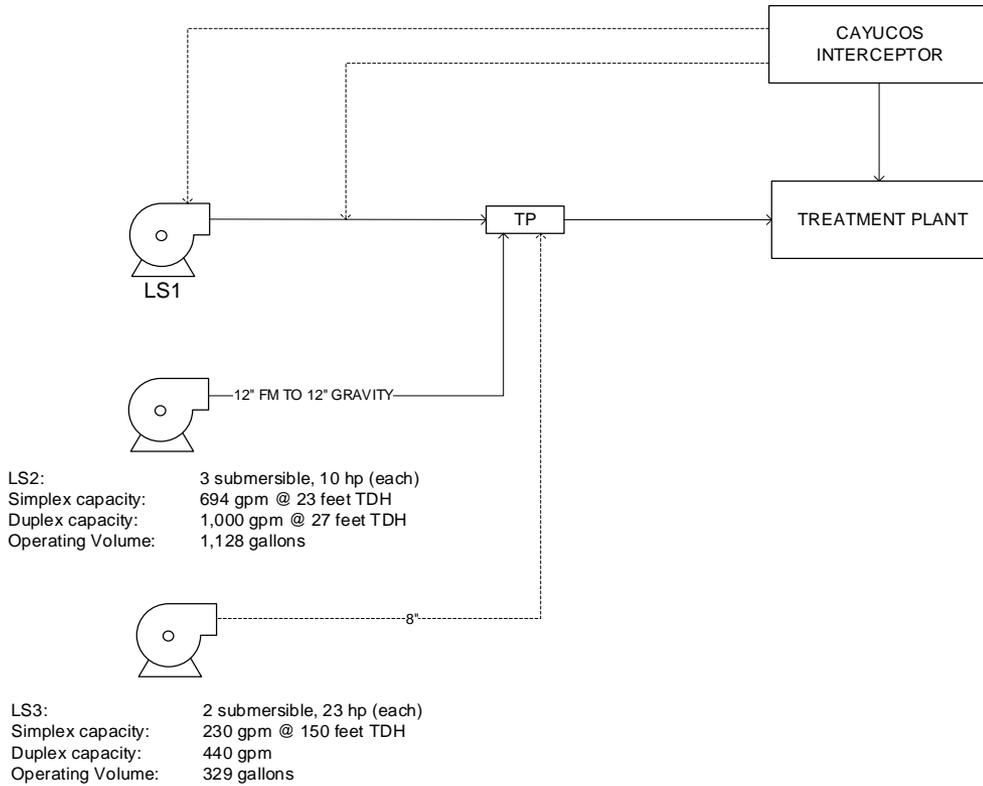
Preferred

*Reflects 20% construction & 10% design contingency applied to direct construction costs

Preferred Alignment Alternative

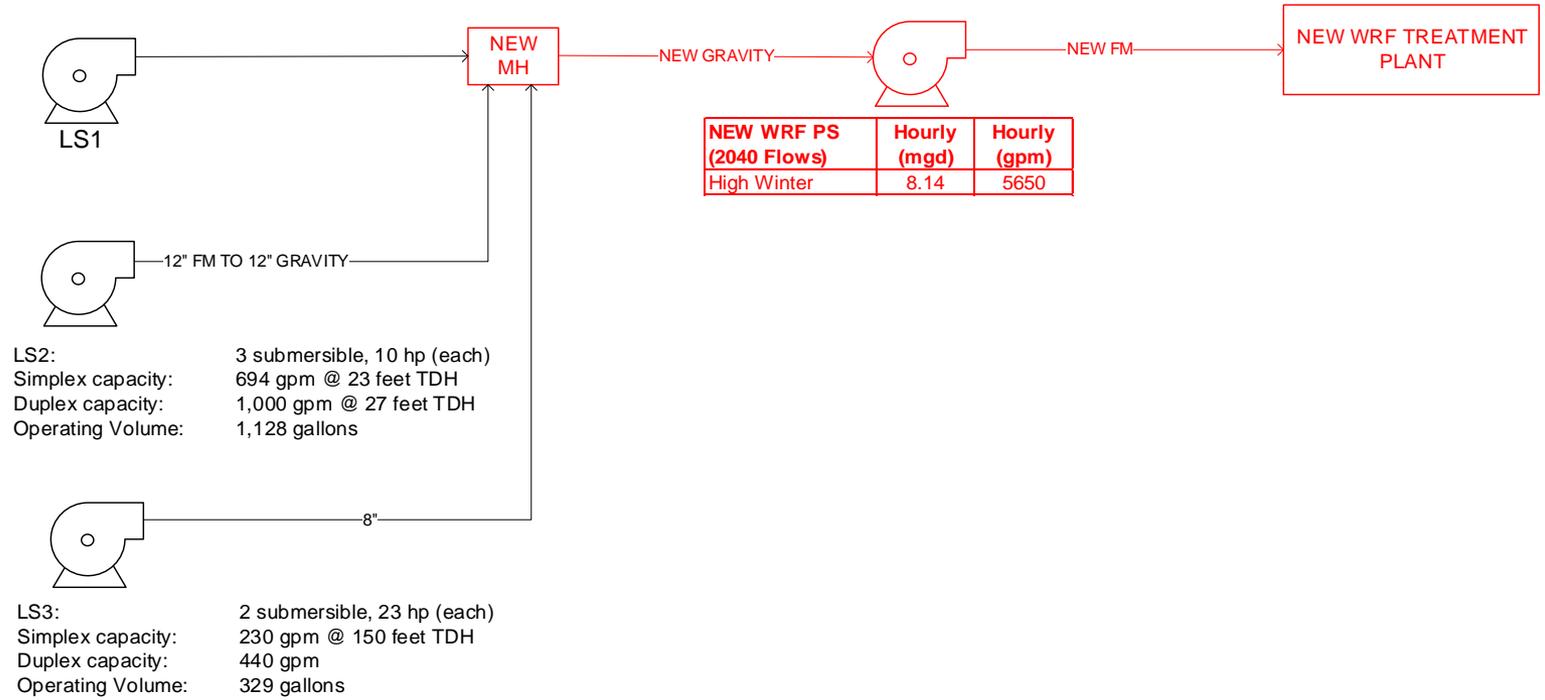
- West Alignment – Dual FM – HDPE/FPVC

Existing System

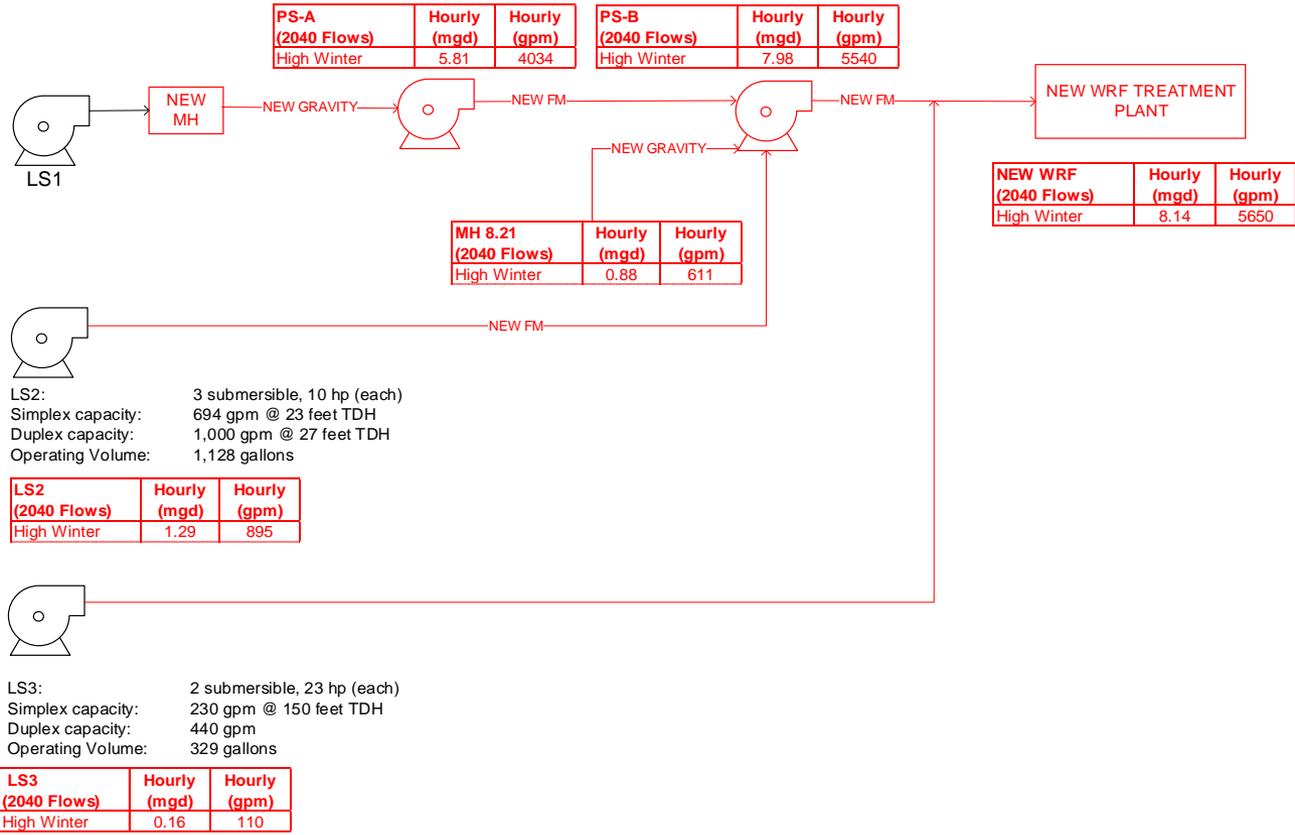


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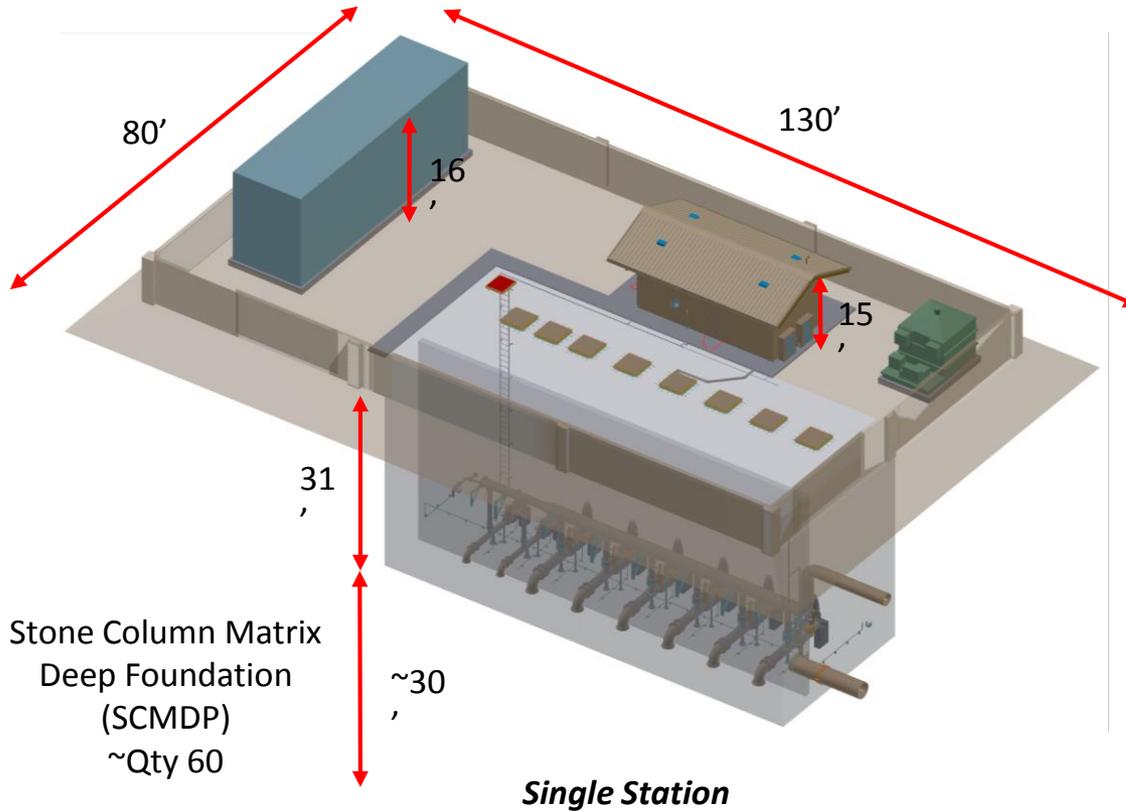
Single Pump Station



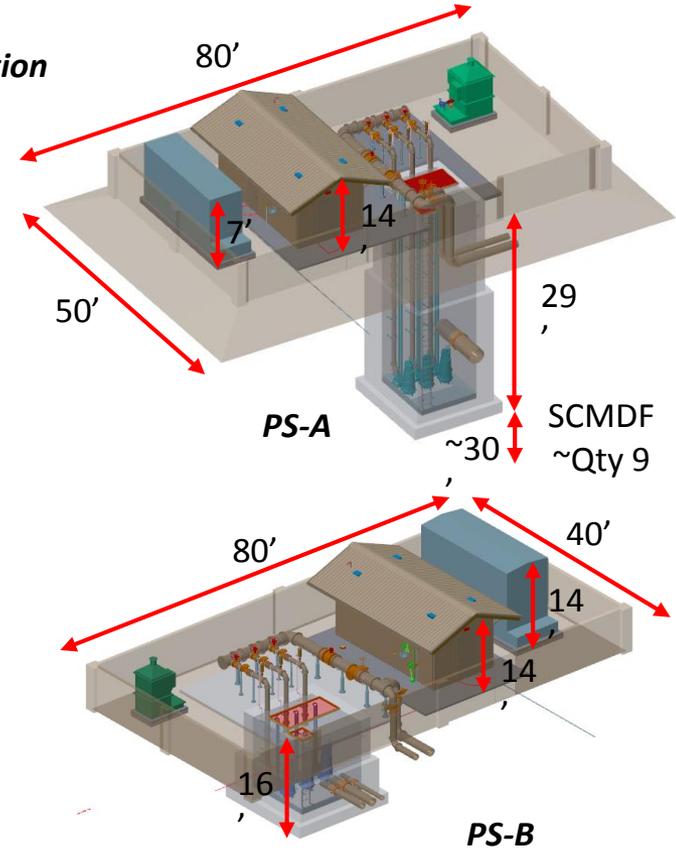
Dual Pump Station



Single vs. Dual Pump Stations



Dual Station



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Preliminary Architectural Finishes



LS-3



LS-2

WRFCAC Status Update – WRF Lift Stations and Offsite Pipelines

Single vs. Dual Pump Stations

Scenario	Single	Dual PS
Facility Maintenance Impacts		
# of New Stations	1	2
PS-A Footprint	Large	Medium
PS-B Footprint	None	Medium
Odor Control	One Site	Two Sites
Pump Maintenance & Reliability		
# of New Pumps		
PS-A (Small)	2 (60 HP)	2 (60 HP)
PS-A (Large)	6 (250 HP)	n/a
PS-B (Large)	n/a	2 (250 HP)
Total	8	6
# of Idle Pumps 99.9% of Yr	5 - PS-A Large	None
Size of Duty Pumps	Smaller	Smaller
Pump Cycling	Less	More
Control Complexity	Medium	Simple
Forcemain Impact		
Forcemain Velocities	Low	Higher
Pipe Length for Pigging	Longer	Shorter
LS-2 FM Redundancy	No	Preferred



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PS-A Configuration and Location



Single Pump Station/PS-A Options Project Constraints				
	PS-A Site 1	PS-A Site 2	PS-A Site 3	Discussion
Property Procurement	+	-	+	PS-A Site 1 and 3 are City Property and do not require permitting
Future use of existing WWTP	-	+	0	PS-A Site 2 – North of Atascadero would allow for the largest sale of contiguous existing WWTP property.
WWTP Impacts during Construction	-	+	+	Re-using the existing influent PS would be the most disruptive to WWTP operations. PS Site 3 would require the demolition of an existing building but would not affect the operations of the WWTP.
Aging Infrastructure / Retrofit Effort	-	+	+	The existing influent PS (PS Site 1) is approaching 40 years old.
Environmental	+	-	+	The site north of Atascadero would require property procurement as well as permitting for construction. Protective fencing may be needed along the northern construction limit.
Emergency Storage	-	+	+	Existing structure is not equipped for emergency storage, new facility storage can be built in.

Preferred

PS-B Configuration and Location



PS-B Options Project Constraints			
	W1A & W1B	W2	Discussion
Property Procurement	-	+	W2 is currently owned by the City.
Elevation	+/-	+	W1B Significantly higher than Quintana Road which adds static head to PS-A.
Construction Impacts / Public Visibility	+	+	The sites along Embarcadero are surrounded by businesses and would likely be surrounded by public parking.
Environmental	+/-	0	West Sites 1A and 2 are bordered by unnamed drainage ditch that parallels Highway 1 and would require protection during construction.

Preferred

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Preferred Pump Station Scenario Selection

Preferred

Total Offsite Pump Stations Project Costs*		
Scenario	Single	Dual
Estimated Capital Cost	\$11.0M	\$8.4M
Estimated 20-yr NPW (O&M + Replacement Funds)	\$3.6M	\$5.8M
20YR NPW	\$14.6M	\$11.4M

*Reflects 20% construction & 10% design contingency applied to direct construction costs

Dual Pump Stations

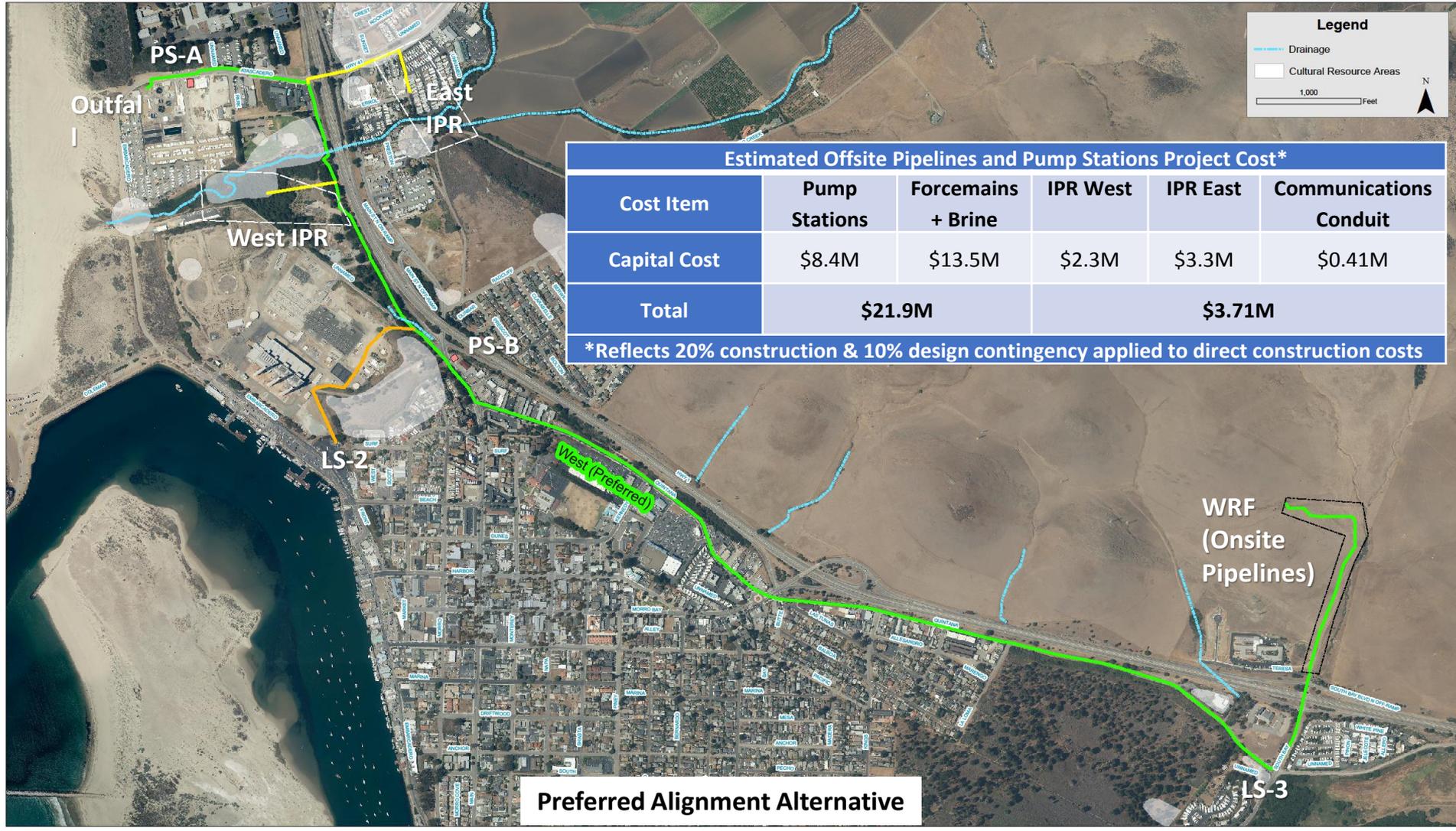
- Simplifies mechanical valving and reduces complexity of operations during wet weather events
- Fewer pumps to maintain than a single station
- Eliminates idle pumps/infrastructure during 99.9% of year

Preferred PS-A Location: PS Site 2 - South of Atascadero

- Eliminates need for property procurement and permitting

Preferred PS-B Location: West Site 3 - Main Street at Hwy 1

- Eliminates need for property procurement



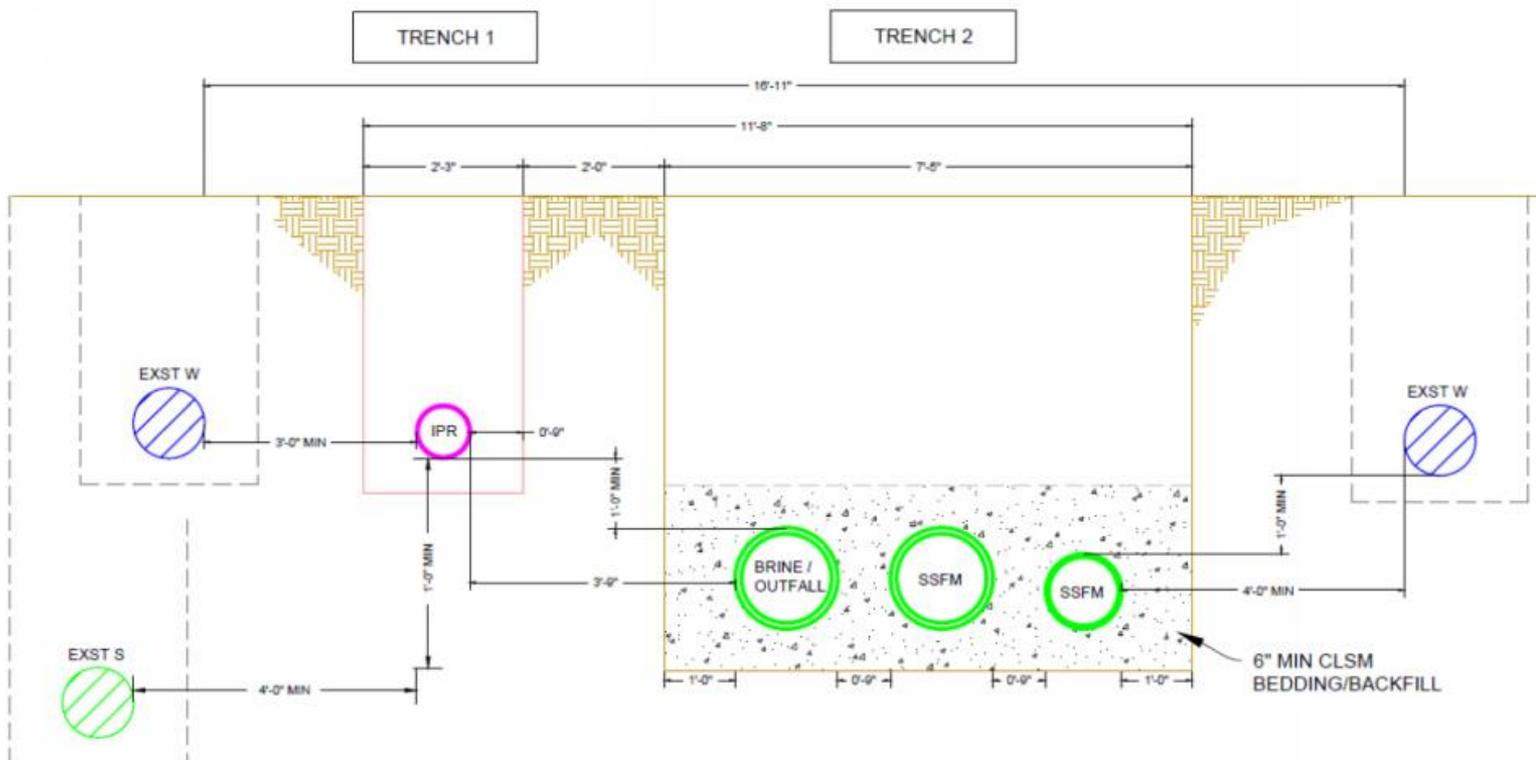
Preferred Alignment Alternative

WRF Offsite Pipelines Preferred Alignment Alternative (West)



Questions

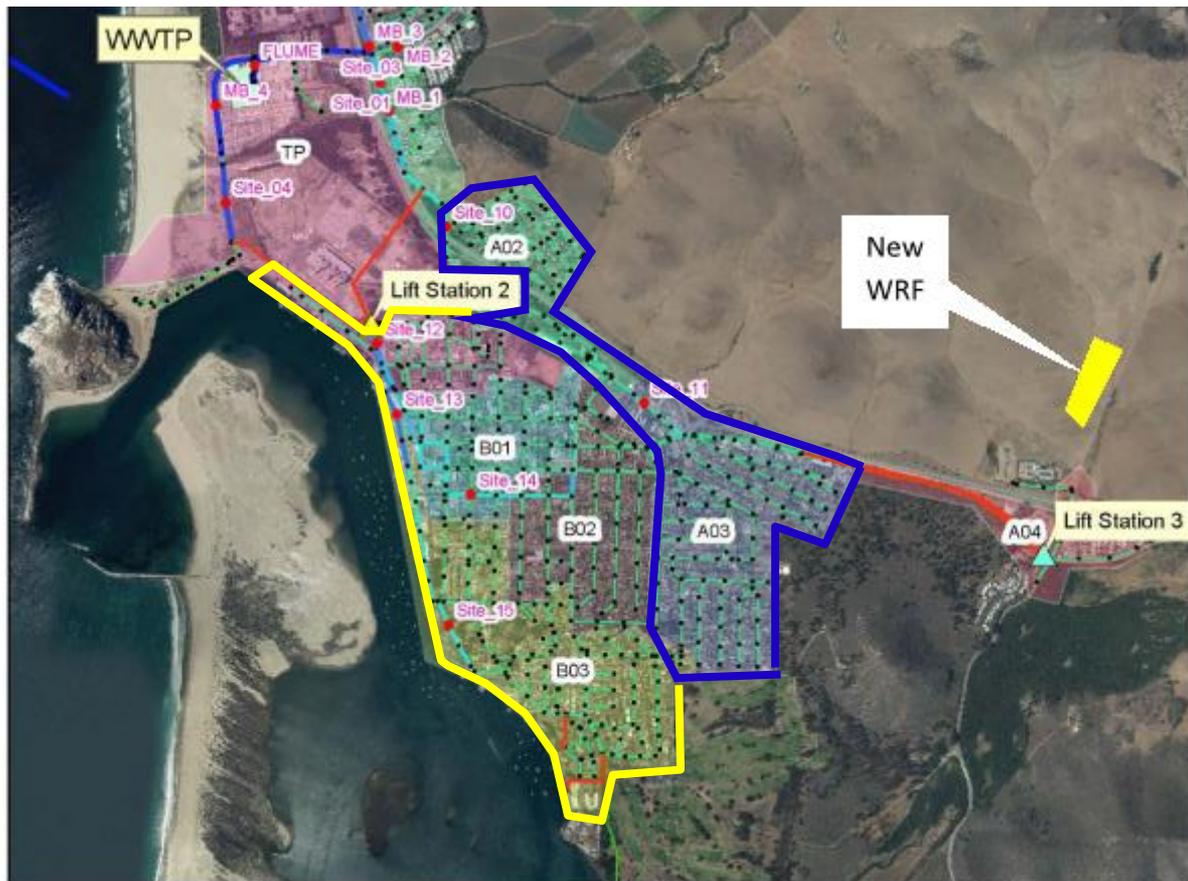
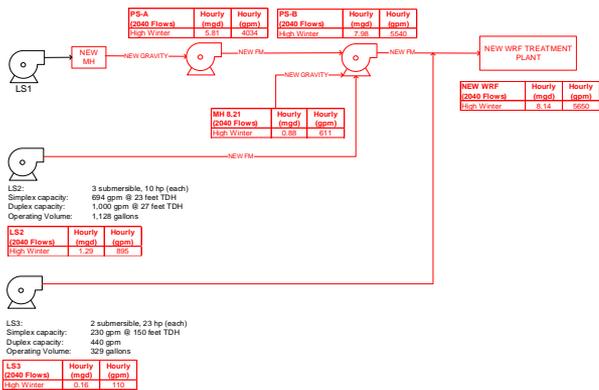
Typical Cross Section



Proposed Trench Section w/ Mitigation To Provide Equal Protection to 10-ft Separation

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Dual Pump Station – Leverages Existing Infrastructure



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AGENDA NO: B-2

MEETING DATE: January 16, 2019

STAFF REPORT

TO: Public Works Advisory Board **DATE: January 11, 2019**
FROM: Rob Livick, Public Works Director
SUBJECT: 2019 – 2020 City Council Goals and Objectives

RECOMMENDATION:

Staff recommends that the Board discuss and provide on potential City Goals, related to Public Works, for the 2019 Goal Setting Process.

SUMMARY:

City Council adopted a strategic planning framework in 2016 in order to create a methodology to prioritize our efforts, while connecting the City's work plans and budget decision-making to the overall community goals. The strategic framework provides a platform for the City to communicate to the community, partners and staff what it is trying to achieve at the high-level. In addition, the framework allows for the City to measure progress toward achieving the important community goals.

The City will be gathering community input in a variety of ways in January and February, culminating in a community forum to be hosted by City Council toward the end of February. Input gathered through advisory committees, online surveys and the aforementioned community forum will help Council determine its Goals and Objectives for 2019 and 2020.

As with other City advisory bodies, the Public Works Advisory Board (PWAB) is asked to provide comments regarding goals and objectives specific to their purpose. Staff will bring forward PWAB input and recommendations to City Council for their consideration.

The 2018 City Goals and Objectives and Work Plan is attached for the Board's review.

ATTACHMENT

2018 City Council Goals and Objectives and Work Plan

2018 City Council Goals and Objectives

City Council adopted a strategic planning framework in 2016 in order to create a methodology to prioritize our efforts, while connecting the City's work plans and budget decision-making to the overall community goals. The strategic framework provides a platform for the City to communicate to the community, partners and staff what it is trying to achieve at the high-level. In addition, the framework allows for the City to measure progress toward achieving the important community goals.



The five City Council goals are as follows:

Goal #1: Achieve Economic and Fiscal Sustainability

Goal #2: Water Reclamation Facility (WRF) and OneWater Review and Implementation

Goal #3: Public Infrastructure and Facility Maintenance and Improvement

Goal #4: Land Use Plans and Zoning Policies Updates

Goal #5: Improved Communication

City Council adopted goals and objectives in 2017 to help guide its efforts toward meeting the objectives of the strategic framework. The City initially created over 10 goals and 80 objectives, covering a wide variety of community issues. Those goals and objectives were refined over the past year, and led to adoption of 5 goals this year.

City Council recently approved the 2018 goals and objectives, and 32 discreet and measurable action items to drive work toward achieving the goals. The City intends to accomplish these action items between February 2018 and the early part of 2019.

The City has made significant progress on many of the action items, which are described in detail below. The document below provides an overview of each of the goals, objectives and the corresponding action items.



Goal 1: Achieve Financial and Economic Sustainability

The City faces financial challenges in the next several years as it prepares for significant increases in employee pension costs (CalPERS), while also attempting to fund important capital improvements. In addition, the City and partners have

embarked on implementing economic development plans to maintain and enhance the community's overall economic prosperity. The major objectives and action items around this goal include seeking opportunities to reduce City expenditures and enhance revenues.

Objective 1: Secure financial sustainability through a comprehensive review of cost reductions and revenue enhancement opportunities

Action a: Develop a cost control and reduction plan to achieve cuts to maintain a structurally balanced budget, including, but not limited to a complete review of staffing levels and non-labor costs in all departments.

Action b: Develop a staff-internal emergency cost reduction plan to inform future fiscal emergencies.

Action c: Consider for November 2018 ballot a Marijuana Tax with consideration for funding for the Utility Discount Program and other City needs.

Action d: Evaluate opportunities for new or expanded revenue sources, including but not limited to: paid parking, other tax measures and a review of City fees.

Objective 2: Consider the proposed strategies in the Economic Development Strategic and Waterfront and Downtown Strategic Plans and act on those most likely to generate revenues in the near term.

Action a: Bring to Council for information, consideration and possible implementation a review of circulation and parking management plans, wayfinding, and other options for the Waterfront and Downtown and other business districts.

Action b: Evaluate Memorandum of Understanding (MOU) with the Morro Bay Chamber of Commerce and other arrangements to further economic development objectives.

Action c: City Council review proposal to modernize the Morro Bay Aquarium Site structure and operations.

Action d: Establish Financial Partnership policy, and Lease site evaluation/audits on a 3-year rotating basis.

Action e: Offshore Windfarm opportunity/proposal development and review.

Objective 3: Miscellaneous Action Items Related to Financial Sustainability and Economic Development

Action a: Overall evaluation of tourism, including Vacation Rentals & RV Parks Tourism Business Improvement District (TBID) Assessment options, Average Daily Rate (ADR), overall tourism effort and effectiveness since the transition to the City,

hotelier involvement, board functionality, and the annual financial report. Also include information on the partnership with Visit SLOCAL.

Action b: Improve internal management of homeless related issues (how the City coordinates internally and with partners on homeless issues).

Action c: Community Choice Energy feasibility study.



Goal 2: Water Reclamation Facility (WRF) and OneWater Review and Implementation

The City is pursuing a Water Reclamation Facility (WRF) project to address important wastewater and water needs in the community. The current sewer plant does not meet water quality standards and is located in a coastal flooding and tsunami inundation zone. In addition to bringing the City into compliance with regulatory permitting requirements, it has the capacity to offset up to 80% of the city's potable water supply. The City is also working on a comprehensive plan looking at all the city's systems that address water, from sewer to potable water to stormwater. The OneWater Plan establishes a plan to secure our water future and establish a long-term capital improvement plan to improve water and sewer infrastructure.

Objective 1: Water Reclamation Facility Project Review and Implementation

Action a: Assign a budget for the WRF.

Action b: Take appropriate selection action and bring to Council for approval, a contract for the design-build construction delivery of the new WRF.

Action c: Following CEQA guidelines, bring the WRF Environmental Impact Report (EIR) to Council for approval and certification.

Action d: Complete water/sewer rate study and bring to Council for Prop 218 process consideration any rate increase requirements to fund the proposed WRF.

Action e: Complete and submit the State Revolving Fund loan application with the State Water Control Board and Water Infrastructure Finance and Innovation Act (WIFIA) loan application with the U.S. Environmental Protection Agency (EPA) for the WRF project to secure subsidized loan financing for the project. Review and consider other state and federal funding.

Action f: Complete the acquisition of the preferred site for the WRF project.

Action g: Review and update the Utility Discount Program and develop and implement a communication plan to increase public awareness of the water and sewer rate subsidization program for low-income individuals and families.

Action h: Hire and onboard new Program Manager for the WRF project.

Objective 2: OneWater Review and Implementation

Action a: Bring to Council for consideration a “OneWater” plan for the City that considers all water resources – from storm water to groundwater to wastewater – as a single “water resource.”

Action b: Engage business community and broader community in dialogue about water issues, including state water.



Goal 3: Public Infrastructure and Facility Maintenance and Improvement

The City is focused on improving its streets, transportation infrastructure, facilities and public spaces. While the City has invested significantly in its streets, parks and restrooms, more work is needed to ensure the longevity of our infrastructure. The action items related to this goal for

2018 include improving partnerships with volunteer groups and seeking a request for proposals to conduct a feasibility study for bringing a marine services facility (boatyard) to Morro Bay.

Action a: Inventory, evaluate and refresh existing programs for volunteer groups to assist in providing routine maintenance in the City, while soliciting and facilitating additional volunteer group support for routine maintenance and small capital projects.

Action b: Complete the approved RFQ process for a marine services facility (boatyard) and bring to Council for information and consideration of next steps prior to any decision on feasibility study.

Action c: Council review of "Adopt a Thing" policy and staff implementation of the policy and creation of the program.



Goal 4: Land Use Plans and Zoning Policies Updates

Plan Morro Bay is the City's update of its General Plan / Local Coastal Program, as required by California state law. These long-range planning documents guide development and conservation policies within the City, and helps set the vision for the community for the next twenty years. The update project also includes an update to the Zoning Code.

Action a: Complete the General Plan/Local Coastal Plan rewrite.

Action b: Complete the zoning code update, which includes a review of the Short-term Vacation Rental Policy and Secondary Unit (more commonly known as ADU or "Granny Unit") Ordinance.



Goal 5: Improved Communication and Miscellaneous Priorities

The City is working to improve communication and engagement with the community, to ensure that members of the public are informed and that there is a broad community participation in the City decision-making process. Action items for this goal include improving the City's website. In addition, this goal includes miscellaneous action items that aren't necessarily connected to communications, such as conducting a feasibility study for a Community Choice Energy program.

Objective 1: Improve Community Outreach and Communications

Action a: Conduct an assessment of the City's communication and outreach effectiveness.

Action b: Improve website, including adding Water Reclamation Facility updates on the front of the website.

Action c: Enhance accountability of goals, objectives, measurements, progress and completion with consistency, and communicate progress on Council's Strategic Goals and Objectives.

Objective 2: Miscellaneous Action Items

Action a: Create greater efficiencies and coordination with partners (community organizations)

Action b: Implement Marijuana Ordinance.