



**CITY OF MORRO BAY
WATER RECLAMATION FACILITY
CITIZEN ADVISORY COMMITTEE (WRFCAC)
AGENDA**

The City of Morro Bay is dedicated to the preservation and enhancement of the quality of life. The City shall be committed to this purpose and will provide a level of municipal service and safety consistent with and responsive to the needs of the public.

**January 5, 2016
Veterans Memorial Building – 3:00 P.M. to 5:00 P.M.
209 Surf Street, Morro Bay, CA**

John Diodati, Chairperson

Bill Woodson,
Vice Chairperson

Dale Guerra

Barbara Spagnola

Mary (Ginny) Garelick

Paul Donnelly

Valerie Levulett

Planning Commission
Member: Richard Sadowski

Public Works Advisory Board
Member: Stephen Shively

ESTABLISH QUORUM AND CALL TO ORDER
MOMENT OF SILENCE/PLEDGE OF ALLEGIANCE
ANNOUNCEMENTS/PRESENTATIONS

PUBLIC COMMENT PERIOD

Members of the audience wishing to address the Board on City business matters other than scheduled items 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 address for the record. Board meetings are audio and video recorded and this information is voluntary and desired for the preparation of minutes.
- 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.

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.

A. CONSENT CALENDAR

- A-1 Approval of minutes from the special joint City Council/Water Reclamation Facility Citizen Advisory Committee meeting of December 1, 2015
Staff Recommendation: Approve minutes as submitted.

B. BUSINESS ITEMS

- B-1 WRF Program Update
Staff Recommendation: Receive update.
- B-2 WRFCAC Sub-Committee Updates and Recommendations
Finance, Environmental and Engineering Sub-Committees to present their analyses and findings to the entire committee.
Recommendation: Receive and consider updates.
- B-3 Salinity Source Identification and Control Study Update
Recommendation: Receive update and provide comment.

C. COMMITTEE MEMBER CLOSING COMMENTS

D. ADJOURNMENT

Adjourn to the Water Reclamation Facility Citizen Advisory Committee meeting at the Morro Bay Veteran's Memorial Building, 209 Surf Street, on February 2, 2016, at 3:00 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 Mill's/ASAP, 495 Morro Bay Boulevard, or the Morro Bay Library, 695 Harbor, Morro Bay, CA 93442.

This agenda may be found on the Internet at: www.morro-bay.ca.us/wrfcac 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.morro-bay.ca.us/notifyme and follow the instructions.

Materials related to an item on this agenda submitted to the Committee after publication of the agenda packet are available for inspection at the Public Works Department during normal business hours or at the scheduled meeting.

MINUTES – DECEMBER 1, 2015
JOINT MEETING OF THE MORRO BAY
CITY COUNCIL AND WATER RECLAMATION FACILITY CITIZEN ADVISORY COMMITTEE
MORRO BAY VETERAN’S HALL
209 SURF STREET – 4:00 P.M.

PRESENT:	Jamie Irons	Mayor
	Christine Johnson	Councilmember
	John Headding	Councilmember
	Matt Makowetski	Councilmember
	Noah Smukler	Councilmember
	John Diodati	Committee Chair
	Bill Woodson	Committee Member
	Paul Donnelly	Committee Member
	Ginny Garelick	Committee Member
	Dale Guerra	Committee Member
	Valerie Levulett	Committee Member
	Steve Shively	Committee Member
	Barbara Spagnola	Committee Member
	Richard Sadowski	Committee Member (arrived at 5:52 pm)
STAFF:	Rob Livick	Public Works Director
	Bruce Keogh	Wastewater Treatment Plant Manager
	Rick Sauerwein	Capital Projects Manager
	Brooke Austin	Deputy City Clerk
	Shannon Chaffin	Assistant City Attorney (arrived at 4:25 pm)
CONTRACT		
STAFF:	Michael Nunley	WRF Program Manager
	John Rickenbach	WRF Deputy Program Manager

I. ESTABLISH QUORUM AND CALL TO ORDER

A quorum was established by the City Council with all members present.

A quorum was established by the Water Reclamation Facility Citizen Advisory Committee (WRFCAC) with all members, but Member Sadowski, present. Member Sadowski arrived at 5:52 p.m.

II. PUBLIC COMMENT

The Public Comment period was opened. Seeing none, the Public Comment period was closed.

III. FACILITY MASTER PLAN - TREATMENT ALTERNATIVES AND RECOMMENDATIONS

<https://youtu.be/iToGcxg1Uvw?t=2m04s>

Public Works Director Livick gave a summary of the timeline of the project, upcoming meetings and additional opportunities for public input.

Program Manager Mike Nunley introduced Matt Thomas of Black and Veatch.

Matt Thomas, Black & Veatch Engineering Lead for the project, presented a PowerPoint presentation on the Facility Master Plan and Liquid Treatment Technologies. The full presentation is available at the following link:

<http://morrobayca.gov/DocumentCenter/View/9262>

He reviewed the technical memos that have been provided to the WRFCAC so far regarding the Facility Master Plan. Technical Memorandum Number 7 deals with the Liquid Treatment Technologies Evaluation, which is the subject matter for this meeting. All treatment technologies are in alignment with City goals.

Brad Hemken of Black & Veatch reviewed treatment alternatives and walked through the steps of preliminary treatment evaluation; primary treatment alternatives (optional - but would allow for energy recovery of methane gas); and secondary/biological treatment. For secondary biological treatment, ten different options were screened characterized as either suspended growth (SG), fixed film (FF), or hybrid SG-FF systems. Of the ten screened, three options were selected to consider for more detailed consideration - activated sludge, sequencing batch reactor (SBR), and oxidation ditch. The advantages and disadvantages of each were evaluated based on ten factors and SBR ranked highest of the three. For the next step, tertiary filtration, two different types of Title 22 filtration technologies were evaluated - disc filters and media filters. Disc filters scored more favorably. Then for disinfection, UV and Chlorine were compared and UV scored better. Finally, advanced treatment, which allows for groundwater recharge, avocado irrigation and indirect potable reuse, was evaluated through microfiltration, reverse osmosis and the advanced oxidation process. Two alternatives are being recommended to take forward to the Facility Master Plan for detailed cost analysis. Alternative 1 is conventional treatment and Alternative 2 is combined secondary/tertiary treatment using membrane bioreactors.

The WRF Program Manager and Black and Veatch staff responded to Council and Committee inquiries. Program Manager Nunley advised that although this presentation deals with Technical Memorandum Number 7, all of the technical memorandums are available on the website on the Water Reclamation Facility Project Updates page.

The Public Comment period for Item III was opened.

Roy Cinowalt, property owner in Morro Bay, stated that San Luis Obispo and Santa Barbara have successful treatment plants and he wanted to know if we could use one of those as a template to save time and money.

Marc Shouse, of Morro Bay, inquired why reverse osmosis at the desalination plant could not be used. He also encouraged the City to continue to try to partner with Cayucos

The Public Comment period for Item III was closed.

Staff responded to public comments and Council inquiries.

IV. WATER RECLAMATION FACILITY PROJECT UPDATE

<https://youtu.be/iToGcxg1Uvw?t=1h44m25s>

Program Manager Nunley presented the project update, including an overview of the program schedule, accomplishments to date, frequently asked questions, and projected phase completion for 2016.

Program Manager Nunley responded to Council inquiries regarding site evaluation, onsite composting, the inclusion of Cayucos, and property negotiations.

V. ADJOURNMENT

The joint meeting of the City Council and Water Reclamation Facility Citizen Advisory Committee was adjourned at 6:02 p.m.

Recorded by:

Brooke Austin
Deputy City Clerk



AGENDA NO: B-1

MEETING DATE: January 5, 2016

Staff Report

DATE: December 30, 2015

TO: Water Reclamation Facility Citizens Advisory Committee

FROM: Mike Nunley, PE – Water Reclamation Facility (WRF) Program Manager

SUBJECT: WRF Program Update

RECOMMENDATION

Staff recommends WRFCAC review the current status and the proposed next steps regarding the development of a WRF program.

ALTERNATIVES

No alternatives are recommended.

FISCAL IMPACT

Attachment 1 is a summary of the existing contracts with consultants used to assist in the WRF project.

DISCUSSION

Staff provides this report as a monthly update to the progress made to date on the new WRF project. With the denial of the permit for the WWTP project in its current location, the City has embarked on a process for a WRF. This staff report provides the following:

1. Review of what has occurred to date. See the list of major milestones or accomplishments since the last update to City Council below. See Attachment 1 for a summary of project expenses to date. Customer rates and fees are the current revenue source for the program budget.
2. Schedule for near-term activities

Accomplishments and Milestones

The City's Program Management team and technical consultants performed the following tasks since the December 1 program update:

- Implemented software for the Program Management system.
- Completed preparation of the application for a Clean Water State Revolving Fund (SRF)

Prepared By: ___MN_____

Dept Review: _____

City Manager Review: _____

City Attorney Review: _____

Planning Loan and uploaded the application package to SWRCB through their FAAST system

- Participated in conference calls and meetings with the Facility Master Plan team and reviewed progress reports. Provided City comments to FMP team on internal draft evaluations of direct potable reuse and organic waste processing opportunities.
- Continued fatal flaw analysis and negotiation with owners of Morro Valley properties
- Reviewed preliminary findings from Morro Valley groundwater evaluation
- Received and reviewed preliminary salinity study findings from Larry Walker & Associates, Inc.
- Developed internal draft of WRF Program website
- Authorized contract for ESA to begin data review and preparation related to CEQA compliance

Findings for Preliminary Morro Valley Groundwater Recharge Evaluation

The Program Manager anticipates forwarding a draft report to the WRFCAC engineering sub-committee by January 12, 2016 for their review. The Program Management Team will then request comments from the sub-committee during the week of January 19, 2016. A full presentation of the report and recommendations for next steps will be included in the agenda of the February 2, 2016 WRFCAC meeting.

Budget and Expenses

The Program Management team is in the implementation process for the new Program Management software and will be transitioning to the software for program budget tracking over the next month. During this transition, the Program Management Team will request review of the proposed budget format by the finance subcommittee. Until this transition is complete, the summary of project expenses to date will be provided in the current format.

Near-Term Schedule

An updated schedule for upcoming meetings and workshops will be provided to WRFCAC members, and the general public, prior to the February meeting. The critical path item for this phase of work, the Facility Master Plan, is on schedule for a draft March release.

ATTACHMENTS

1. Summary of Project Expenses and Estimated Costs

Attachment 1

MORRO BAY WRF PROGRAM BUDGET STATUS

As of: 12/22/2015

Budget Item	Contractor/ Agency	Budgeted	Allocated	Spent	Remaining	Percent Complete
SITE ALTERNATIVE ANALYSIS						
Past Costs		\$534,418	\$534,418	\$448,057	\$86,361	100%
PHASE I						
Property Acquisition/ROW Allowance		\$2,400,000				
MacElvaine Property						
Fatal Flaw - Biological Resources	KMA		\$12,835	\$11,240	\$1,595	88%
Fatal Flaw - Geotechnical						
Phase II - Task 5	Fugro		\$26,000		\$26,000	0%
Fatal Flaw - Cultural Resources	Far Western		\$12,000	\$9,979	\$2,021	83%
Property Cost						
Righetti Property						
Survey	Head Surveys		\$15,644		\$15,644	0%
Fatal Flaw - Cultural Resources	Far Western		\$6,485		\$6,485	0%
Fatal Flaw - Biological Resources (in PM budget)	MKN					
Facility Master Plan		\$781,135				
Facility Master Plan	B&V		\$710,123	\$116,384	\$593,739	16%
SUBTOTAL - PHASE I (ROUNDED)						
		\$3,200,000	\$783,087	\$137,603	\$645,484	
PROGRAM						
2015 - 2017 Program Management		\$2,000,000				
2015 Program Management	MKN		\$920,808	\$78,131	\$842,677	8%
Master Reclamation Plan		\$150,000				
Master Reclamation Plan Development	MKN		\$140,000		\$140,000	0%
Salinity Identification/ Control		\$60,000				
Task 1 Salinity Identification	LWA		\$23,640	\$15,555	\$8,085	66%
Task 2 Salinity Control	LWA		\$22,600		\$22,600	0%
Hydrogeology		\$300,000				
Phase I Investigation	Fugro		\$38,600	\$37,374	\$1,226	97%
Amendment 1 - Phase II Investigation	Fugro		\$24,000		\$24,000	0%
Survey		\$60,000				
Highway 41 and Rancho Colina	Head Surveys		\$45,050	\$41,343	\$3,707	92%
Grant and Loan Funding		\$175,000				
Tracking and SRF Support	Kestrel		\$65,752	\$12,219	\$53,533	19%
Permitting		\$500,000				
CEQA/NEPA Documentation and Consulting	ESA		\$346,578		\$346,578	0%
SUBTOTAL - PROGRAM (ROUNDED)						
		\$3,300,000	\$1,627,028	\$184,622	\$1,442,406	
PHASE I BUDGET (DESIGN AND CONSTRUCTION) TBD						
PHASE II BUDGET (DESIGN AND CONSTRUCTION) TBD						



AGENDA NO: B-3

MEETING DATE: January 5, 2016

Staff Report

DATE: December 30, 2015
TO: Water Reclamation Facility Citizens Advisory Committee
FROM: Mike Nunley, PE – Water Reclamation Facility (WRF) Program Manager
SUBJECT: Salinity Identification and Control Study Update

RECOMMENDATION

Staff recommends WRFCAC review findings from the preliminary salinity identification efforts and possible next steps for a salinity control plan.

ALTERNATIVES

No alternatives are recommended.

FISCAL IMPACT

The salinity identification and control planning efforts performed by Larry Walker & Associates, Inc., and Michael K. Nunley & Associates, Inc. (MKN) were authorized by contracts with both parties. No budget amendments or new authorizations are proposed as part of this update.

DISCUSSION

The presence of various salts (including sodium, chlorides, calcium, magnesium, and sulfates) in the City's wastewater collection system will add cost and complexity to the treatment system proposed at the new Water Reclamation Facility. Salt concentrations in treated wastewater and recycled water supplies are limited both by regulatory requirements and by the water quality needs of users. For example, grasses, ornamental plants, and agricultural crops can be negatively affected by high salt concentrations.

Larry Walker Associates (LWA) was contracted by the City to quantify sources of salinity in Morro Bay's wastewater stream. LWA has performed an initial assessment for review.

The WRF Program Manager, Mike Nunley, will present the current findings and possible next steps for consideration and input by the WRFCAC. Due to the holiday schedule, a presentation will be provided at the meeting and input will be requested between the January and February WRFCAC meetings to allow committee members adequate time to consider this information.

ATTACHMENTS

None

Prepared By: ___MN___ Dept Review: ____
City Manager Review: _____
City Attorney Review: _____