



# CITY OF MORRO BAY PUBLIC WORKS ADVISORY BOARD AGENDA

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*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, June 19, 2019  
Veterans' Memorial Building - 5:30 P.M.  
209 Surf Street, Morro Bay, CA**

Ric Deschler, Chair  
Christian Erlendson

Janith Goldman, Vice-Chair  
John Erwin  
Stewart Skiff

Torrey Byles  
Steven Shively

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

#### 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. For those desiring to speak on items on the agenda, but unable to stay for the item, may also address the Board at this time.

Public comment is an opportunity for members of the public to provide input to the advisory body. To increase the effectiveness of the Public Comment Period, the City respectfully requests the following guidelines and expectations be followed:

- When recognized by the Chair, please come forward to the podium to speak. Though not required, it is helpful if you state your name, city of residence and whether you represent a business or group. Unless otherwise established by the Chair, comments are to be limited to three minutes.
- All remarks should be addressed to 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.
- The Board in turn agrees to abide by its best practices of civility and civil discourse according to Resolution No. 07-19.

#### A. CONSENT CALENDAR

- A-1 Approval of Minutes for the May 29, 2019 Public Works Advisory Board Special Meeting  
**Recommendation:** Approve minutes.

#### B. BUSINESS ITEMS

- B-1 Directors Report - Informational summary of current Public Works Activities  
**Recommendation:** Information item, no action needed.

- B-2 Recertification of the Updated Sewer System Management Plan  
**Recommendation:** Review the updated Sewer System Management Plan (SSMP) and provide comments to staff as necessary.
- B-3 PG&E LED Street Light Retrofit for Embarcadero and Cloisters Landscape Lighting Maintenance Assessment District  
**Recommendation:** Participate in the PG&E program to retrofit all PG&E owned / maintained decorative street light fixtures in the City from high-pressure Sodium to LED fixtures that resemble the decorative lights on Morro Bay Boulevard.

C. FUTURE AGENDA ITEMS

D. ADJOURNMENT

The next Regular Meeting will be held on Wednesday, July 17, 2019 at 5:30 PM at the Veteran's Memorial Building, 209 Surf Street, Morro Bay, California.

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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 submitted to the Public Works Advisory Board after distribution of the agenda packet are available for public inspection at the Public Works office located at 955 Shasta Avenue; Morro Bay Library located at 625 Harbor Street; and Mill's Copy Center located at 495 Morro Bay Boulevard during normal business hours.

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 at least 24 hours prior to the meeting to insure reasonable arrangements can be made to provide accessibility to the meeting.

- |          |   |  |
|----------|---|--|
| PRESENT: | Janith Goldman<br>John Erwin<br>Steve Shively<br>Torrey Byles<br>Chris Erlendson                              | Vice Chair<br>Board Member<br>Board Member<br>Board Member<br>Board Member   |
| ABSENT   | Ric Deschler<br>Stewart Skiff   | Chair<br>Board Member  |
| STAFF:   | Rob Livick<br>Janeen Burlingame<br>Joe Mueller<br>Damaris Hanson<br>Mike Wilcox<br>Pam Newman<br>Gina Gregory | Public Works Director<br>Management Analyst<br>Utilities Division Manager<br>Environmental Program Manager<br>Maintenance Superintendent<br>Assistant Engineer<br>Office Assistant |

ESTABLISH QUORUM, CALL TO ORDER  
MOMENT OF SILENCE  
PLEDGE OF ALLEGIANCE

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

ANNOUNCEMENTS – None

PRESENTATIONS – None

I CONSENT AGENDA

I-1 Approval of Minutes of April 17, 2019 Regular Meeting  
<https://youtu.be/ycYK6Ccle10?t=54>

MOTION: Steve Shively moved to approve Item I-1. The motion was seconded by Torrey Byles and carried 5-0-0 unanimously.

II BUSINESS ITEMS

II-1 Directors Report - Informational summary of current Public Works Activities  
<https://youtu.be/ycYK6Ccle10?t=91>

Rob Livick presented the Directors Report.

Discussion, comments and questions amongst Board members and staff.

II-2 Cloisters Landscape Evaluation, Recommendations, and Report  
<https://youtu.be/ycYK6Ccle10?t=2123>

Rob Livick introduced Michael Cripe and Scott Wright from Oasis Associates who presented the Cloisters Report.

Discussion, comments and questions amongst Board members, staff and consultants.

The public comment period was opened.

Susan Warbel, Indigo Circle resident, stated they have maintained the parkway and sprinkler system, asking if the roses would be removed. She noted the sprinkler system needs to be checked as it has leaked in the past. She likes the plans presented and questioned what the cost would be.

Christina Gigante, Emerald Circle resident, stated she is thrilled to hear we can keep what's in the parkway and expressed concern about the plant selection of Splurg as part of the landscaping as it produces lots of seeds and the sap is corrosive to the skin.

Dawn Beattie, Cloisters resident, thanked everyone for the hard work that has been done and is to come. She noted historically the parkway has not been maintained by the residents although some have done so. As you exit Indigo Circle, that area needs work. In the Coral area she would like to see rock rather than paving as it is better drainage and that no trees be allowed in the view corridors in keeping with the Coastal Commission restrictions.

Carolyn Brinkman, Cloisters resident, stated the park is used by many people, not just those in Morro Bay, noting she is excited about this design. She voiced a concern on the parkways, stating she would the soil is impacted and would like to see some help from the City with that as the assessment fees help pay for that.

Cal Nishinaka, Emerald Circle resident, expressed concerns adding more lawn as we are just coming out of a drought. He's not in favor of the trees, noting that visitors coming from the North passing San Jacinto they can see this open space and the Rock. He reiterated how many people use the park, noting a possible consideration for the future could be a dog park.

Marie DeLarios, Emerald Circle resident, asked what the shade sails were made of and expressed concern with their long-term maintenance as well as how they will hold up with the wind.

Maurice Gendron, Emerald Circle resident, asked if the plant list could be modified to note their maintenance and growth pattern.

Audrey Gendron, Emerald Circle resident, asked how the project phases would be prioritized and implemented given the budget and will it be contracted out or done by the City.

Steve Stevens, Cloisters resident, expressed appreciation of the plan, noting cost considerations need to be taken into account and appreciates the communication with the City and the community. He stated it's important Oasis be aware of height limitations spoken about previously relative to view corridor areas and wondered about Coastal Commission acceptance.

The public comment period was closed.

Discussion, comments and questions continued amongst Board members, staff and consultants.

II-3 Annual Water Report 2018 and Recommendation for Allocation of Water Equivalency Units (WEU) for FY 2019/20  
<https://youtu.be/ycYK6Ccle10?t=5909>

Damaris Hanson presented the staff report.

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

MOTION: Steve Shively moved PWAB recommend to the City Council to allocate 50 WEUs for residential development and 65 for commercial development for a total of 115 WEUs for FY 2019/2020. The motion was seconded by Torrey Byles and carried 5-0-0 unanimously.

#### ADJOURNMENT

The meeting adjourned at 7:33 P.M. to a regular Public Works Advisory Board meeting at the Veteran's Memorial Building, 209 Surf Street, June 19, 2019.

Recorded by:

Gina Gregory  
Office Assistant



AGENDA NO: B-1

MEETING DATE: June 19, 2019

## MEMORANDUM

**TO:** Public Works Advisory Board  
**CC:** City Manager  
**DATE:** June 13, 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](http://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](http://www.morrobayca.gov/905/Service-Requests), or the mobile App (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 REQUESTS AND WORK ORDERS**  
**5/29/2019 TO 6/19/2019**  
 Staff Contact: Mike Wilcox

| <b>Monthly Service Requests Completed</b> |                |
|---|----------------|
| <b>CM</b>                                 | <b># of SR</b> |
| Bike Path Issues                          | 2              |
| Maintenance Request                       | 5              |
| Tree Pruning/Trimming                     | 2              |
| <b># SR in Category</b>                   | <b>9</b>       |
| <b>Total Service Requests Completed</b>   | <b>9</b>       |

| <b>Monthly Work Orders Completed</b> |                         |
|--------------------------------------|-------------------------|
| <b>CM</b>                            | <b># of Work Orders</b> |
| <b>Facilities</b>                    |                         |
| Bldg. Envelope Other                 | 1                       |
| Electrical                           | 2                       |
| Facilities Other                     | 1                       |
| Facilities Parking Other             | 1                       |
| General Core Duties                  | 3                       |
| General Maintenance                  | 3                       |
| General Repair                       | 2                       |
| Plumbing                             | 2                       |
| <b>Parks</b>                         |                         |
| Park Facilities Other                | 1                       |
| Park Facility Maintenance            | 1                       |
| Parks Bench or Table Repair          | 3                       |
| Parks Irrigation Repair              | 7                       |
| Parks Other                          | 1                       |
| <b>Streets</b>                       |                         |
| Repair Sidewalk                      | 1                       |
| Right of Way Obstruction             | 1                       |
| Street Dig Out                       | 5                       |
| Street HMA Patch                     | 1                       |
| Trim bushes / trees                  | 1                       |
| <b># Work Orders in Category</b>     | <b>37</b>               |
| <b>Total Work Orders Completed</b>   | <b>37</b>               |



# CONSOLIDATED MAINTENANCE

Staff Contact: Mike Wilcox

## **Pedestrian Path & Fence Repairs: Anchor Street, Bayshore Bluffs, and Rockies Teen Center**



Staff recently made repairs to pedestrian path of travel at two locations in the City. One is at the base of the Anchor Street stairs where they used to stop at a sidewalk that transitioned into another short stair up and over a foundation wall into the parking garage at 456 Embarcadero. And, the other is at the base of the Bayshore Bluffs stairs beach access where tide changes had heavily eroded the base at the last stair tread.



Additional work was performed at Rockies Teen Center to help stabilize the wind damage fence between the center and our neighbors.

# TRANSIT

Staff Contact: Janeen Burlingame

## Triennial Performance Audit

The Transportation Development Act (TDA) calls for performance audits to be conducted every three years for each TDA claimant. The Audit is designed to be an independent and objective evaluation of the City as a transit operator. The Audit has four (4) objectives:

1. Assess compliance with TDA regulations;
2. Review improvements that have been implemented and progress toward goals;
3. Evaluate the efficiency and effectiveness of Morro Bay Transit; and
4. Provide sound and constructive recommendations for improving the efficiency and functionality of the operations.

The most recent Audit has been completed and is available for review at:

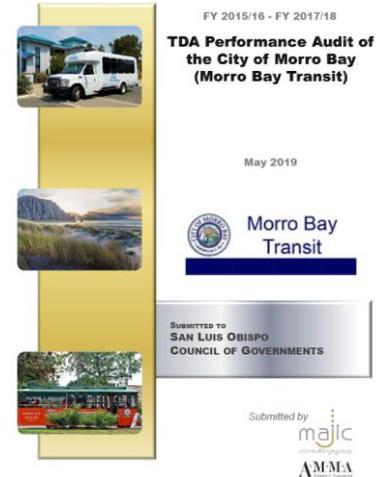
[www.morrobayca.gov/performanceaudit](http://www.morrobayca.gov/performanceaudit)

## Youth Ride Free

Morro Bay Transit and other fixed route transit operators are welcoming aboard all K-12 youth for FREE during its annual Summer Youth Ride Free program. Morro Bay Transit's fixed route service will be providing FREE rides to youths from June 7 through August 17, 2019 (please note Morro Bay Trolley and Call-A-Ride services are not included). Students simply present their student ID to the driver; no pass is required. For younger students this does not apply.

The goal of the annual program is to give youths positive exposure to transit services. Youths are invited to become county explorers on routes that provide safe daily transportation to many beach, wildlife, biking and recreational areas, libraries, historical sites and special events.

If you have questions regarding the Youth Ride Free promotion, please contact Sarah Woolsey, Mobility Planning and Programs Lead, by e-mail or telephone at [swoolsey@slocog.org](mailto:swoolsey@slocog.org) or (805) 781-1385.



# WATER – OPERATIONS

Staff contacts: Joe Mueller

Damaris Hanson

## Operations and Maintenance May 2019:

### **Distribution**

- Exercised 99 water valves at the north end of the City (Blanca Pressure Zone).
- Responded to 3 after-hour callouts:
  1. Low-level tank alarm at Blanca tank site (false reading repaired level sensor).
  2. Customer-side service leak at 561 Embarcadero.
  3. Communications loss at Vashon Booster Station and Blanca Tanks due to high winds and trees interfering with line-of-site radio signals.
- Responded to 13 minor water leaks, located and repaired as needed.
- Performed 29 water service turn-offs and 67 water service turn-ons.
- Located and marked 148 Underground Service Alerts.

### **Treatment**

- Replaced pre-filter, permeate and concentrate pressure gauges on both reverse-osmosis (RO) treatment trains.
- Replaced a faulty flowmeter sensor on RO treatment train number one.
- Replaced faulty electrical relays on system air compressor.
- Drafted standard operating procedure (SOP) for RO start up and shut down including the three water quality meters in the water laboratory.

### 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.
- Sampled the distribution system per the Unregulated Contaminant Monitoring Rule for this year's list of testing. Samples were sent to a certified outside lab for analysis.

### **Completed Reports:**

- Monthly water report to State Water Resources Control Board
- Monthly water report to Division of Drinking water
- Water conservation report
- Consumer Confidence Report, aka Annual Water Quality Report. The report is attached to this report and available online at [www.morrobayca.gov/CCR2018](http://www.morrobayca.gov/CCR2018)



# 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

**June 4, 2019**  
(Released Thursday, Jun. 6, 2019)  
Valid 8 a.m. EDT

For the month of May  
water conservation  
was 25% lower  
compared to May  
2013.



### Intensity:

-  None
-  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:

David Simeral  
Western Regional Climate Center



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)



# WASTEWATER – COLLECTIONS

Staff Contacts: Joe Mueller

John Gunderlock



Water leak on the Embarcadero



City of San Luis Obispo, Public Works Night

## Operation & Maintenance May 2019

- Performed pH spot checks at Mission Linen.
- Manned lift station number two during the PG&E scheduled power outage on May 7<sup>th</sup>.
- Responded to an emergency power outage on May 23<sup>rd</sup> at lift station number three.
- Two operators attended a class for pipeline video inspection obtaining NASSCO certification.
- Hydro cleaned approximately 28,077 feet of city main line.
- Performed routine pipeline video inspections of 985 feet of sewer mains.
- On-Call staff received 2 after hours call-outs:
  1. Mainline blockage staff cleared line by hydrojetting.
  2. Lift station three power outage.
- Performed four Fats, Oils, and Grease source control inspections.
- Participated in the City of San Luis Obispo, Public Works Night held during the Thursday Farmers market.
- Assisted in the excavation of a water leak on the Embarcadero.

# WASTEWATER – TREATMENT

Staff Contacts: Joe Mueller  
John Gunderlock

## Operation & Maintenance May 2019

- Flow for the month of May averaged 1.117 Million Gallons per Day (MGD) and totaled 34.635 million gallons.
- 1.80 inches of rain was recorded during the month.
- Responded to one after hour callout for plant chlorine adjustment.
- Dane Lundy and Landon Mortimer passed the Wastewater Treatment Operator Grade III exam.
- Paul Valley passed the Wastewater Treatment Operator Grade II exam.
- Chad Rocha passed the Wastewater Treatment Operator Grade I exam.
- Sprayed weeds and general housekeeping around the facility.
- Lubed main water valve stems.
- Staff wrote (10) new SOPs (Standard Operating Procedures).
- Rebuilt main control board for the chlorine residual analyzers.
- Built new intake diffuser for the influent composite sampler.
- Tightened packings and cleaned grit pumps.
- Repaired water leak in the boiler room.
- Changed oil in digester three roof level indicator.
- Drove sludge drying beds with the front-end loader to speed drying time.
- Unplugged sludge drying beds decant pipe with hydro-jetter.
- Clean gates and grooves in the sludge beds 5 & 6.



Digester Maintenance

**Staff attended the following training:**

- Mechanical pipe restraint class at Famcon in Santa Maria

**Submitted reports to the State, [electronically](#):**

- April 2019 Monthly Self-Monitoring Reports (eSMR)
- April 2019 Monthly Discharge-Monitoring Reports (eDMR)



Diesel storage tank repairs



Chlorine Analyzer Rebuild



Emergency Bypass Pump Removal

# ENGINEERING/CAPITAL PROJECTS

Staff contact: Rob Livick

## **Highway 41/Main/Highway 1**

- Project construction is still financially constrained
- Working with the City's funding partners the San Luis Obispo Council of Governments (SLOCOG) and Caltrans on funding and design options

## **Pavement Management**

- 2018/19 Work complete
- Next years program will include a complete revision to Plan to incorporate sealing techniques not anticipated with 2011 Pavement Management Plan
- Work to be performed in the Spring of 2020 to take advantage of better weather and new Rubberized Asphalt Grant Cycle

## **Water System Improvements**

- Addressed in the OneWater – Water System Capital Improvement Plan
- Project Scheduled to begin in 2019/2020

## **Collection System Repairs**

- Addressed in the OneWater – Wastewater Collection System Capital Improvement Plan
- Program Scheduled to begin in 2019/20
- Assessing segments for lining and pipe bursting in North Morro Bay

## **North Point Parking Lot**

- Survey completed, working on design in-house
- Lighting, Access Control Improvements as funding is available

## **Cloisters Landscaping Improvements**

- On this Agenda

On June 11, 2019 City Council approved the Operating and Capital Improvement Program (see [http://www.morro-bay.ca.us/DocumentCenter/View/13292/Proposed-FY-2019\\_20-Operating-and-Capital--Budget](http://www.morro-bay.ca.us/DocumentCenter/View/13292/Proposed-FY-2019_20-Operating-and-Capital--Budget) for complete details)

# Engineering/Development Review

Staff contact: Rob Livick

Staff is working on the following projects:

- Morro Mist 23 Lot Subdivision (Bonita and Main): Under Construction – Frontage Improvements complete.
- Harborview Hotel/Commercial: Planning Review
- Hotel Development – NW corner Atascadero Road West and Highway 1: Planning Review
- Sonic Restaurant – Main and Highway 41: Plancheck – Waiting for resubmittal from applicant
- Harbor Hut Docks: In Plancheck
- Rose's Landing Upstairs Hotel - Plancheck
- US Coast Guard Addition: In Plancheck
- Otter Rock/Boatyard Remodel: Under Construction
- Morro Bay Landing: Under Construction
- Residential remodels and construction: Various Citywide

# WASTEWATER – NEW WRF

Staff contact: Rob Livick

- Work continues in accordance with City Council direction.
- Latest update is item C-1 on the [June 11, 2019 City Council Agenda](#)
- Coastal Commission Consolidated Permit Hearing tentatively scheduled for July 9, 10, or 11 in San Luis Obispo
- Additional Information at [www.morrobaywrf.com](http://www.morrobaywrf.com) and [www.morrobayca.gov](http://www.morrobayca.gov)

# ANNUAL WATER QUALITY REPORT 2018



Photo Credit: Ray Bruno



City of Morro Bay  
WATER TESTING PERFORMED IN 2018  
PWS ID# CA4010011

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.



## Basic Information About Drinking

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the layers of the ground it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals and human activity.

**Contaminants that may be present in source water include:**

**Microbial Contaminants:** such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic Contaminants:** such as salts and metals that can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

**Pesticides and Herbicides:** that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

**Organic Chemical Contaminants:** including synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural applications, and septic systems.

**Radioactive Contaminants:** that can be naturally occurring or be the result of oil and gas production and mining activities.

# Your 2018 Water Quality Report

## Delivering Excellence

The City of Morro Bay Water System met all Federal and State standards for drinking water during 2018

The City of Morro Bay is proud to present our annual water quality report. This report shows the results from all of our water quality testing completed from **January 1 through December 31, 2018**. Morro Bay's highly competent staff is constantly seeking the best approaches to delivering to you the highest quality water possible and is dedicated to producing drinking water that meets all State and Federal standards. We remain committed to meeting the State's water source protection, water conservation and community education goals, and serving the needs of all our water users.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (USEPA) and the State Water Resources Control Board's (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. EPA's Safe

Drinking water source assessments (DWSAP) assess the area around a drinking water source through which contaminants might move and reach that drinking water supply. They include an inventory of possible contaminating activities (PCAs) that might lead to the release of microbiological or chemical contaminants within the delineated area, and a determination of the PCAs to which the drinking water source is most vulnerable. DWSAP for the Morro and Chorro wells were completed during the 2001 fiscal year, an assessment was completed in 2009 for additional wells in the Morro basin that are being used as irrigation and feed water for the desalination plant. The results of these assessments are available to the public by contacting the Public Works Department or by visiting the State Water Resources Control Board's (State Board) website at:

([http://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/DWSAP.shtml](http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/DWSAP.shtml)). Or by contacting the City.

## Community Participation

The Public Works Advisory Board (PWAB) meets the third Wednesday of the month at the Veterans Hall located at 209 Surf Street at 5:30 p.m. If you have concerns you wish to express about your drinking water, time is set aside at the beginning of each meeting.

## DEFINITIONS

**Average Amount:** The amount detected; or when a range of values is shown, the average detected.

**Level 1 Assessment:** A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

**Level 2 Assessment:** A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Residual

**Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

**Million Fibers per Liter (MFL):** EPA has established a maximum contaminant level (MCL) for asbestos in drinking water: 7 MFL (million fibers per liter).

**Nephelometric Turbidity Units (NTU):** Measurement of the clarity, or turbidity, of water.

**Parts per billion (ppb):** One part substance per billion parts water (or micrograms per liter).

**Parts per million (ppm):** One part substance per million parts water (or milligrams per liter).

**Parts per million (ppm):** One part substance per million parts water (or milligrams per liter).

**Picocuries per liter (pCi/L):** A measure of radioactivity.

**Primary Drinking Water Standards (PDWS):** MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

**Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

**Regulatory Action Level:** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.

**NA:** Not applicable **ND:** Not detected

**NS:** No standard **NC:** Not collected

## Where Does My Water Come From?

The City of Morro Bay's primary source of water is surface water from the State Water Project. The State Water Project is administered locally by the Central Coast Water Authority ([www.ccwa.com](http://www.ccwa.com)). The water is treated at the Polonio Pass Water Treatment Plant, which is near the junction of Highways 41 and 46 and water is then pumped to Morro Bay. The State Water supply can be augmented by and blended with water pumped from wells located near Lila Keiser Park (Morro Basin) and Chorro Creek Road (Chorro Basin). Some of the well water has nitrate contaminant levels that require treatment through either blending or filtration. All well water has a disinfectant added prior to use. During 2018 State Water provided 91% of the City's drinking water and the wells provided the remaining 9%, with all of this well water being treated by the Brackish Water Reverse Osmosis plant.



## Sampling Results

Over the past years we have taken hundreds of water samples in order to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants. While the range of contamination in the raw well water may have exceeded the drinking water standards, all of the water delivered to your home had contaminant levels reduced through either blending or treatment. The table below lists all of the drinking water contaminants that were detected during the most recent sampling for the constituent. If a contaminant was tested for and not found in the system or source water, it is not included in this report. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

**PRIMARY DRINKING WATER STANDARD (Regulated In Order To Protect Against Possible Adverse Health Effects)**

| SUBSTANCE (UNITS)           | YEAR SAMPLED | MCL       | PHG (MCLG) | State Water    |                | Well Water <sup>4</sup> |                | VIOLATION       | TYPICAL SOURCE  |
|-----------------------------|--------------|-----------|------------|----------------|----------------|-------------------------|----------------|-----------------|---|
|                             |              |           |            | AVERAGE AMOUNT | RANGE LOW-HIGH | AVERAGE AMOUNT          | RANGE LOW-HIGH |                 |   |
| Aluminum (ppm)              | 2018         | 1         | 0.6        | 0.05           | ND - 0.095     | ND                      | ND             | No              | Erosion of natural deposits; residue from water treatment processes   |
| Arsenic (ppb)               | 2018         | 10        | 0.004      | ND             | ND             | 3                       | ND-4           | No              | Erosion of natural deposits; runoff from orchards; glass and electronics production wastes  |
| Barium (ppm)                | 2018         | 1         | 2          | ND             | ND             | 0.135                   | 0.107-0.198    | No              | Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits   |
| Chromium (total Cr) (ppb)   | 2018         | 50        | 100        | ND             | ND             | 15                      | 13-18          | No              | Discharge from steel and pulp mills and chrome plating; erosion of natural deposits   |
| Fluoride (ppm)              | 2018         | 2         | 1          | ND             | ND             | 0.2                     | 0.2            | No              | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories   |
| Nitrate (as Nitrogen) (ppm) | 2018         | 10 (as N) | 10 (as N)  | ND             | ND             | 15                      | 2-22.8         | No <sup>4</sup> | Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits   |
| Selenium (ppb)              | 2016         | 50        | 30         | ND             | ND             | 32                      | ND-59          | Yes             | Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive) |

**SECONDARY DRINKING WATER STANDARD (Regulated In Order To Protect The Odor, Taste And Appearance Of Drinking Water)**

| SUBSTANCE (UNITS)                  | YEAR SAMPLED | State MCL | State Water    |                | Well Water <sup>4</sup> |                | VIOLATION | TYPICAL SOURCE  |
|------------------------------------|--------------|-----------|----------------|----------------|-------------------------|----------------|-----------|---|
|                                    |              |           | AVERAGE AMOUNT | RANGE LOW-HIGH | AVERAGE AMOUNT          | RANGE LOW-HIGH |           |   |
| Chloride (ppm)                     | 2018         | 500       | 81             | 39-140         | 238                     | 71-729         | No        | Runoff /leaching from natural deposits; seawater influence  |
| Corrosivity (Aggressivity Index)   | 2018         | NA        | 11             | 11             | 12.3                    | 11.6-12.4      | No        | N/A   |
| Odor                               | 2018         | 3         | 2              | 2              | ND                      | ND             | No        | Naturally Occurring organic materials                       |
| Specific Conductance (umhos/cm)    | 2018         | 1600      | 481            | 294-592        | 1749                    | 1030-3370      | No        | Substances that form ions when in water; seawater influence |
| Sulfate (ppm)                      | 2018         | 500       | 55             | 55             | 127                     | 63.6-163       | No        | Runoff/leaching from natural deposits; industrial wastes    |
| Total Dissolved Solids (ppm) (TDS) | 2018         | 1000      | 220            | 220            | ---                     | ---            | No        | Runoff/leaching from natural deposits                       |
| Turbidity <sup>3</sup> (NTU)       | 2018         | 5         | 0.05           | ND-0.12        | 1.2                     | 0.2-6.8        | No        | Soil runoff   |

## UNREGULATED AND OTHER SUBSTANCES (Used To Monitor Certain Contaminant Occurrences)

| SUBSTANCE (UNITS)                               | YEAR SAMPLED | State Water    |                | Well Water <sup>4</sup> |                | TYPICAL SOURCE  |
|---|--------------|----------------|----------------|-------------------------|----------------|---|
|   |              | AVERAGE AMOUNT | RANGE LOW-HIGH | AVERAGE AMOUNT          | RANGE LOW-HIGH |   |
| <b>2-Methylisoborneol</b> (ng/L)                | 2018         | 0.4            | ND-1           | ND                      | ND             |   |
| <b>Alkalinity</b> (ppm)                         | 2018         | 61             | 44-78          | 393                     | 370-430        | Runoff/leaching from natural deposits; seawater influence   |
| <b>Boron</b> (ppm)                              | 2018         | ND             | ND             | 125                     | 100-200        | Runoff/leaching from natural deposits   |
| <b>Calcium</b> (ppm)                            | 2018         | 14             | 14             | 107                     | -172           | Runoff/leaching from natural deposits; seawater influence   |
| <b>Chromium Hexavalent</b> (ppb)                | 2018         | 0.058          | 0.058          | ND                      | ND             | Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits |
| <b>Geosmin</b> (ppm)                            | 2018         | 0.6            | ND-1           | NA                      | NA             |   |
| <b>Hardness total as CaCO<sub>3</sub></b> (ppm) | 2018         | 96             | 62-140         | 706                     | 464-1090       | Runoff/leaching from natural deposits   |
| <b>Heterotrophic Plate Count (HPC)</b> (cfu/ml) | 2018         | 0              | 0-1            | 3.9                     | 1 - 65         | HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water  |
| <b>Potassium</b> (ppm)                          | 2018         | 1.8            | 1.8            | 0                       | ND - 1         | Runoff/leaching from natural deposits; seawater influence   |
| <b>pH</b> (units)                               | 2018         | 8.3            | 7.8-8.7        | 7.3                     | 6.7-7.7        | Runoff/leaching from natural deposits   |
| <b>Potassium</b> (ppm)                          | 2018         | 1.8            | 1.8            | 0                       | ND - 1         | Runoff/leaching from natural deposits; seawater influence   |
| <b>Sodium</b> (ppm)                             | 2018         | 40             | 40             | 94                      | 53-239         | Runoff/leaching from natural deposits; seawater influence   |
| <b>Total Organic Carbon</b> (ppm)               | 2018         | 2.1            | 1.6-3.2        | NA                      | NA             | Various natural and man made sources  |
| <b>Vanadium</b> (ppb)                           | 2018         | ND             | ND             | 8                       | 6-19           | Vanadium is a naturally occurring "rare earth" element that is found ubiquitously in the earth's crust.   |

### Tap water samples were collected for Lead and Copper analyses from 30 homes throughout the distribution system

| SUBSTANCE (UNITS)              | YEAR SAMPLED | ACTION LEVEL | PHG (MCLG) | AMOUNT DETECTED (90th%Tile) | HOMES ABOVE ACTION LEVEL | VIOLATION | TYPICAL SOURCE  |
|--------------------------------|--------------|--------------|------------|-----------------------------|--------------------------|-----------|---|
| <b>Copper</b> (ppm)            | 2018         | 1.3          | 0.3        | 0.106                       | 0                        | No        | Internal corrosion of household water plumbing systems; erosion of natural deposits; leaching from wood preservatives         |
| <b>Lead</b> (ppb) <sup>2</sup> | 2018         | 15           | 0.2        | 0.0006                      | 0                        | No        | Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits |

#### Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at: 1-800-426-4791 or [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead).

The City of Morro Bay is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking.

## Water Distribution System

| SUBSTANCE (UNITS)   | YEAR SAMPLED | MCL [MRDL] | PHG (MCLG) [MRDLG] | State Water    |                | Morro Bay      |                | VIOLATION | TYPICAL SOURCE   |
|---|--------------|------------|--------------------|----------------|----------------|----------------|----------------|-----------|--|
|   |              |            |                    | AVERAGE AMOUNT | RANGE LOW-HIGH | AVERAGE AMOUNT | RANGE LOW-HIGH |           |  |
| <b>Haloacetic Acids</b> (ppb)                             | 2018         | 60         | NA                 | 10             | 8.3-12         | 11             | 0-17           | No        | By-product of drinking water disinfection                                |
| <b>TTHMs</b> (ppb)<br>(Total Trihalomethanes)             | 2018         | 80         | NA                 | 39             | 27-50          | 38             | 29-50          | No        | By-product of drinking water disinfection                                |
| <b>Total Chlorine Residual</b>                            | 2018         | 4          | 4                  | 2.32           | 1.76-3.2       | 1.2            | 0.21 - 2       | No        | Measurement of the disinfectant used in the production of drinking water |
| <b>total Coliform Bateria</b><br>(# of postivite samples) | 2018         | 0          | 0                  | 0              | 0              | 0              | 0              | No        | Naturally present in the environment                                     |

## Important Health Information

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. U.S. EPA/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline at: 1-800-426-4791.

**Selenium Violation:** The City did have two wells test above the MCL for Selenium. The City re-tested for selenium and the results were below the MCL. The City continued to test for Selenium for 4 quarters to ensure all quarters were below the MCL. After all 4 quarters results were below the MCL, Selenium is only tested every 3 year as it was previously.

The health effects associated with Selenium are as follows: Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years may experience hair or fingernail losses, numbness in fingers or toes, or circulation system problems.



## Questions?

For more information about this report, or any questions relating to your drinking water, please contact Damaris Hanson, at (805) 772-6265 or [dhanson@morrobayca.gov](mailto:dhanson@morrobayca.gov)



### Footnotes:

<sup>1</sup> HPC results are reported from the distribution system not from the raw well water.

<sup>2</sup> Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and/or flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the U.S. EPA Safe Drinking Water Hotline at 1-800-426-4791.

<sup>3</sup> Turbidity (NTU) is a measure of the cloudiness of the water and it is a good indicator of the effectiveness of a treatment plant's filtration system.

<sup>4</sup> Sampling from well water is for raw water results. Samples are taken prior to either treatment or blending.



**AGENDA NO: B-2**

**MEETING DATE: June 19, 2019**

## Staff Report

**TO: Public Works Advisory Board** **DATE: June 13, 2019**  
**FROM: Joe Mueller – Utilities Division Manager**  
**SUBJECT: Recertification of the Updated Sewer System Management Plan**

### **RECOMMENDATION**

Review the updated Sewer System Management Plan (SSMP) and provide any comments to staff as necessary.

### **ALTERNATIVES**

Recertification of the SSMP every five years by the City Council is a requirement of Water Quality Order No. 2006-003-DWQ General Waste Discharge Requirements for Sanitary Sewer Systems. Failure to recertify the updated SSMP, would result in the City being out of compliance with Order No. 2006-003-DWQ General Waste Discharge Requirements for Sanitary Sewer Systems. Therefore, no alternative is recommended.

### **FISCAL IMPACT**

No fiscal impact as a result of this plan. Fiscal impact is addressed through the budget process.

### **BACKGROUND AND DISCUSSION**

In 2006, the State Water Resources Control Board (SWRCB) adopted Order No. 2006-003-DWQ Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WDR). In May 2013, the SWRCB approved Order No WQ 2013-0058-EXEC amending the Monitoring and Reporting Program (MRP) for the WDR. The amended MRP is an effort to more accurately and completely capture information pertaining to Sanitary Sewer Overflows (SSO) and includes revisions to SSO categories and their associated reporting requirements.

The WDR created a centralized statewide mechanism to manage all publicly owned wastewater collection agencies. A principal element of the WDR is the requirement the Collection Agencies adopt and maintain a management plan for the system referred to as an SSMP. The WDR requires the owners of a wastewater collection system, with more than a mile of pipeline, have a SSMP to reduce the number and severity of sanitary sewer overflows.

Prepared By:     **JM**

Dept Review:     **RL**

The SSMP includes eleven mandatory elements ranging in complexity from preparing goals and a mission statement, to performing a complete collection system capacity assessment. The SSMP must include provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems while taking into consideration risk management and cost benefit analysis. Additionally, an SSMP must contain a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions. The purpose of the SSMP is to implement a set of Best Management Practices into the operations of all the collection systems in the State.

The City Council approved the first SSMP in June 2009, following presentations to the Council and Public Works Advisory Board that allowed for review and public comments during the development of the specific sections of the SSMP. That approval process followed the requirements of the SWRCB for the SSMP to be approved by the enrollee's governing board at a public meeting.

The WDR requires the City conduct periodic internal audits at a minimum of every two years. The audit focus on evaluating the effectiveness of the SSMP and the City's compliance with the SSMP requirements, including identification of any deficiencies in the SSMP and steps to correct them. Audits have been conducted and completed by staff from the City's Collection and Engineering Divisions. Overall, the audits indicated the City's SSMP is meeting the requirements of both the SSMP and SWRCB. Minor modifications however were made to reflect current operations and maintenance practices.

The WDR requires the SSMP be updated every five years to capture any significant program changes and be re-certified by the City Council. To complete the re-certification process, City staff must upload a City Council approved SSMP e-copy into the Online SSO Database or provide a URL address where the SSMP is located on the City's website. The due date for the re-certification of the SSMP is June 2019.

#### Summary of Revisions

Overall, the SSMP meets the requirements and the intent of the WDR. It contains elements and programs that have been field tested and refined through work practices in the field. The SSMP has been used effectively as a management and planning guide since its adoption in 2009. The SSMP has also been a valuable reference document for field crews. Prior to 2009, the City and its collection crews performed most of the elements contained within the SSMP; but the subject elements were not contained within a single document that had been approved by City Council. The effectiveness of the SSMP is also demonstrated by the reduction/lack of SSOs within the City collection system.

#### **CONCLUSION:**

Staff recommends the recertification of the updated Sewer System Management Plan (SSMP).

#### **ATTACHMENT**

[Sewer System Management Plan \(SSMP\)](#)



AGENDA NO: B-3

MEETING DATE: June 19, 2019

## Staff Report

**TO:** Public Works Advisory Board

**DATE:** June 13, 2019

**FROM:** Mike Wilcox – Maintenance Superintendent

**SUBJECT:** PG&E LED Street Light Retrofit for Embarcadero and Cloisters Landscape Lighting Maintenance Assessment District

### **RECOMMENDATION**

Staff recommends the City participate in the PG&E program to retrofit all PG&E owned/maintained decorative street light fixtures in the City of Morro Bay from high-pressure Sodium to LED fixtures that resemble the decorative lights on Morro Bay Blvd.

### **FISCAL IMPACT**

There are 136 PG&E owned/maintained decorative street lights in the City of Morro Bay. An Incremental Facility Charge (IFC) incurred following the LED Upgrade Program of Cobra Head fixtures to LED has recently expired from the electric utility bills but it is still included in the 2019/2020 budget estimates. This will cover the cost of the General Fund decorative street light fixture upgrades. The cost for the same upgrades to the Cloisters LLMAD will be paid by the assessment district until PG&E realizes the return on investment for the upgrades. The electric utility bills for these lights will be reduced by a calculated annual energy savings of approximately \$4,400.

### **BACKGROUND/ DISCUSSION**

PG&E owned street lights were first established in Morro Bay in January 1963. The first 4 lights were installed at the intersections of: Monterey & Morro Bay Blvd., Piney & Morro Bay Blvd., Shasta & Morro Bay Blvd., and along Morro Bay Blvd at Morro Bay Park. Subsequent additions to the system have increased the total street light count to 626 with the most recent installation occurring in 2011.

Except for 11 decorative pole lights on Morro Bay Blvd. and 6 cobra head lights at the roundabout, PG&E has maintained and operated street lights in the City of Morro Bay on a LS1 (calculated rate) since installation. PG&E requested and was granted by the CPUC in the General Rate Case prior to 2015, for funding to convert PG&E owned/maintained (LS1) Cobra Head streetlights to LED. PG&E's LED Upgrade Program launched in March of 2015. The City of Morro Bay opted, in December of 2015,

Prepared By: MW

Dept Review: RL

for the LED Upgrade Program to begin in Morro Bay. During the months of February and March 2016, PG&E converted the Morro Bay LS1 streetlights to LED. Presently, well over 90% of all PG&E owned/maintained Cobra Head streetlights have been converted to LED. The City of Morro Bay now has the option to allow PG&E to convert the remaining high-pressure Sodium (HPS) decorative street lights along the Embarcadero and in the Cloisters LLMAD to LED under a different program.

**CONCLUSION**

PG&E has proactively approached the City with this proposal to provide and professionally install LED fixtures on all remaining decorative lamps in the City of Morro Bay with a nominal IFC to be terminated later. This upgrade will mimic the shape and design of the decorative lighting along Morro Bay Blvd. and reduce the energy cost to operate these lights.