

Wastewater Advisory Committee
Regular Meeting Agenda

Thursday, January 23, 2020

6:00 p.m.

**Malibu City Hall – Multi-Purpose Room
23825 Stuart Ranch Road**

Call to Order – Chair

Roll Call - Recording Secretary

Pledge of Allegiance

Approval of Agenda

Report on Posting of Agenda – January 13, 2020

1. Ceremonials / Presentations

A. Introduce Environmental Sustainability Director Yolanda Bundy

2. Written and Oral Communications from the Public and Committee

A. Communications from the public concerning matters which are not on the agenda but for which the Wastewater Advisory Committee has subject jurisdiction. The Wastewater Advisory Committee may not discuss or act on these matters at this meeting.
(30 minutes total time allotted)

B. Wastewater Advisory Committee comments and inquiries. (15 minutes total time allotted)

3. Consent Calendar

A. Previously Discussed Items

None.

B. New Items

1. Approval of Minutes

Recommended Action: Approve minutes for the May 24, 2018 Wastewater Advisory Committee meeting.

Staff Contact: Administrative Assistant Nelson-Brown, 456-2489, ext. 286

4. Old Business

None.

5. New Business

A. Draft Revised Seepage Pit Percolation Testing Policy for Design of Onsite Wastewater Treatment Systems

Recommended Action: Discuss and provide comments to staff regarding draft revised Seepage Pit Percolation Testing Policy for Onsite Wastewater Treatment Systems (OWTS).

Staff Contact: Environmental Health Administrator Talent, 456-2489, ext. 364

Adjournment

Future Wastewater Advisory Committee Meetings

February 27, 2020	6:00 p.m.	Regular Meeting	Malibu City Hall
March 26, 2020	6:00 p.m.	Regular Meeting	Malibu City Hall
April 23, 2020	6:00 p.m.	Regular Meeting	Malibu City Hall

Guide to the Wastewater Advisory Committee Proceedings

The Oral Communication portion of the agenda is for members of the public to present items which are not listed on the agenda but are under the subject matter jurisdiction of the Wastewater Advisory Committee. Although no action may be taken, the Committee and staff will follow up, at an appropriate time, on those items needing response. Each speaker is limited to (3) three minutes. Time may be surrendered by deferring (1) one minute to another speaker, not to exceed a total of (8) eight minutes. The speaker wishing to defer time must be present when the item is heard. In order to be recognized and present an item, each speaker must complete and submit to the Recording Secretary a Request to Speak form prior to the beginning of the item being announced by the Chair (forms are available at the entrance to the meeting room). Speakers are taken in the order slips are submitted.

Items in Consent Calendar Section A have already been considered by the Committee at a previous meeting where the public was invited to comment, after which a decision was made. These items are not subject to public discussion at this meeting because the vote taken at the previous meeting was final. Resolutions concerning decisions made at previous meetings are for the purpose of memorializing the decision to assure the accuracy of the findings, the prior vote, and any conditions imposed.

Items in Consent Calendar Section B have not been discussed previously by the Committee. If discussion is desired, an item may be removed from the Consent Calendar for individual consideration. Committee Members may indicate a negative or abstaining vote on any individual item by so declaring prior to the vote on the motion to adopt the entire Consent Calendar. Items excluded from the Consent Calendar will be taken up by the Committee following the action on the Consent Calendar. The Committee first will take up the items for which public speaker requests have been submitted. Public speakers shall follow the rules as set forth under Oral Communication.

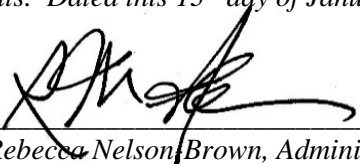
Old Business items have appeared on previous agendas but have either been continued or tabled to this meeting with no final action having been taken. Public comment shall follow the rules as set forth under Oral Communication.

Items in New Business are items which are appearing for the first time for formal action. Public comment shall follow the rules as set forth under Oral Communication.

Copies of the staff reports or other written documentation relating to each item of business described above are on file in the Environmental Sustainability Department, Malibu City Hall, 23825 Stuart Ranch Road, Malibu, California and are available for public inspection during regular office hours which are 7:30 a.m. to 5:30 p.m., Monday through Thursday, and 7:30 a.m. to 4:30 p.m., Friday. Written materials distributed to the Committee within 72 hours of the Wastewater Advisory Committee meeting are available for public inspection immediately upon distribution in the Environmental Sustainability Department at 23825 Stuart Ranch Road, Malibu, California (Government Code Section 54957.5(b)(2)). Copies of staff reports and written materials may be purchased for \$0.25 per page. Pursuant to State law, this agenda was posted at least 72 hours prior to the meeting.

The City Hall phone number is (310) 456-2489. To contact City Hall using a telecommunication device for the deaf (TDD), please call (800) 735-2929 and a California Relay Service operator will assist you. In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Environmental Sustainability Department Director Yolanda Bundy, (310) 456-2489, ext. 229. Notification 48 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to this meeting. [28 CFR 35.102-35.104 ADD Title II]. Requests for use of audio or video equipment during a Committee meeting should be directed to Alex Montano at (310) 456-2489 ext. 227 or amontano@malibucity.org at least 48 hours prior to the meeting.

I hereby certify under penalty of perjury, under the laws of the State of California, that the foregoing agenda was posted in accordance with the applicable legal requirements. Dated this 13th day of January 2020 at 1:30 p.m..



Rebecca Nelson-Brown, Administrative Assistant



Committee Agenda Report

To: Chair Haynie and Members of the Wastewater Advisory Committee

Prepared by: Rebecca Nelson-Brown, Administrative Assistant

Approved by: Melinda Talent, Environmental Health Administrator

Date prepared: January 13, 2020 Meeting date: January 23, 2020

Subject: Approval of Minutes

RECOMMENDED ACTION: Approve minutes for the May 24, 2018 Wastewater Advisory Committee meeting.

DISCUSSION: Staff has prepared the draft minutes for May 24, 2018 Wastewater Advisory Committee meeting. These minutes are presented to the Committee for approval.

ATTACHMENT: May 24, 2018 Wastewater Advisory Committee meeting minutes

ACTION MINUTES
MALIBU WASTEWATER ADVISORY COMMITTEE
REGULAR MEETING
MAY 24, 2018
MALIBU CITY HALL
6:00 P.M.

CALL TO ORDER

Chair Haynie called the meeting to order at 6:02 p.m.

ROLL CALL

The following persons were recorded in attendance by the Recording Secretary:

PRESENT: Chair Norm Haynie; Committee Members Steve Braband, Barbara Bradley, Nick Barsocchini, and Kevin Poffenbarger

ABSENT: Committee Members Bart Slutske and John Yaroslaski

ALSO PRESENT: Melinda Talent, Environmental Health Administrator; and Rebecca Nelson-Brown, Administrative Assistant

PLEDGE OF ALLEGIANCE

Chair Haynie led the Pledge of Allegiance.

APPROVAL OF AGENDA

Committee Member Braband moved and Chair Haynie seconded a motion to approve the agenda. The motion carried 3-0-2, Committee Members Slutske and Yaroslaski absent and two member seats vacant.

REPORT ON POSTING OF AGENDA

Administrative Assistant Nelson-Brown reported that the agenda for the meeting was properly posted on May 21, 2018.

ITEM 1. CEREMONIALS / PRESENTATIONS

Administrative Assistant Nelson-Brown administered the oath of office to newly appointed Wastewater Advisory Committee Members Nick Barsocchini and Kevin Poffenbarger.

ITEM 2. PUBLIC / COMMITTEE MEMBER COMMENTS

In response to the Committee, Environmental Health Administrator Talent stated that she would discuss with the City Manager sending a letter of thanks to outgoing Wastewater Advisory Committee Members Sherman and Rene-Weissman.

ITEM 3. CONSENT CALENDAR

MOTION Committee Member Braband moved and Chair Haynie seconded a motion to approve the Consent Calendar. The motion carried 5-0-2, Committee Members Slutske and Yaroslaski absent.

The consent calendar consisted of the following items:

- A. Previously Discussed Items
None.
- B. New Items
 - 1. Approval of Minutes
Recommended Action: Approve minutes for the April 26, 2018 Wastewater Advisory Committee meeting.

ITEM 4. OLD BUSINESS

None.

ITEM 5. NEW BUSINESS

None.

ADJOURNMENT

MOTION At 6:33 p.m., Committee Member Braband moved and Committee Member Bradley seconded a motion to adjourn. The motion carried 5-0-2, Committee Members Slutske and Yaroslaski absent.

Approved and adopted by the Wastewater Advisory Committee
of the City of Malibu on January 23, 2020.

NORM HAYNIE, Chair

ATTEST:

REBECCA NELSON-BROWN, Administrative Assistant



Committee Agenda Report

To: Chair Haynie and Members of the Wastewater Advisory Committee

Prepared by: Melinda Talent, Environmental Health Administrator

Approved by: Yolanda Bundy, Environmental Sustainability Director

Date prepared: January 13, 2020 Meeting date: January 23, 2020

Subject: Draft Revised Seepage Pit Percolation Testing Policy for Design of Onsite Wastewater Treatment Systems

RECOMMENDED ACTION: Discuss and provide comments to staff regarding the Draft Revised Seepage Pit Percolation Testing Policy for Design of Onsite Wastewater Treatment Systems.

DISCUSSION: Historically, the City has used the percolation test procedures developed by the Los Angeles County Public Health Department. In an effort to conserve water and promote sustainability, the City is considering changes to the policy to reduce the amount of water used during percolation testing. The draft revised policy will allow a falling head performance test, an alternative method of determining seepage pit absorption rates approved by many jurisdictions in Southern California.

ATTACHMENTS:

1. Draft Revised Seepage Pit Percolation Testing Policy for Design of Onsite Wastewater Treatment Systems



City of Malibu

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Seepage Pit Percolation Testing Policy **for Design of Onsite Wastewater Treatment Systems**

1. Seepage pit percolation tests shall be performed under the direction of a California Certified Engineering Geologist, a California Registered Professional Geotechnical Engineer, a California Civil Engineer, or a California Registered Environmental Health Specialist.
- ~~2. Seepage pit percolation test boreholes shall be 2 feet in diameter, and a minimum of ten feet deep below the capping depth/elevation. A seepage pit percolation test may be conducted in a legally constructed seepage pit with prior approval from City of Malibu Environmental Health. Percolation test boreholes, and/or seepage pits, shall be located by GPS or other means of accurate location on subject property.~~
3. Prior to percolation testing, each seepage pit percolation test borehole shall be examined by a California Certified Engineering Geologist. The project geologist shall write a supporting geology report, which shall be submitted with the percolation test report to City of Malibu Environmental Health. A supporting geology report including the following items must be prepared in coordination with the percolation test report (contact the City of Malibu to obtain a complete description of the supporting geology report requirements).
 - a. Map showing the accurate locations of all test borings.
 - b. Geologic log of the subsurface soil/rock strata found in all test borings.
 - c. Recommended cap depth/elevation for each seepage pit.
 - d. Statement of the depth/elevation of seasonal high groundwater.
 - e. Discussion of the anticipated path of effluent with cross-section drawing(s).
 - f. Statement in regard to the geologic stability of the work site, the property, and adjacent properties.
4. A groundwater boring shall be excavated within the immediate vicinity of the seepage pit percolation test borings, and observed by the project geologist to determine the existing groundwater level and the seasonal high groundwater level. The groundwater boring may be tested for percolation if properly backfilled and sealed 10 feet above the bottom of the boring (e.g., backfill with the material removed from the boring during drilling and seal by adding 1 ½ feet of dry Bentonite pellets, which are then hydrated for least 24 hours before beginning the percolation test). The minimum vertical separation between the bottom of any percolation test boring and seasonal high groundwater shall be 10 feet, or as required by the City of Malibu Plumbing Code for seepage pit construction.
5. Seepage pit percolation tests shall be performed over a period of three consecutive days. Metered/static head percolation test procedures shall be used for all tests. The percolation test



meter used must have been calibrated for accuracy within the previous 12 months before the percolation test is conducted.

6. A minimum of two seepage pit percolation test boreholes shall be excavated on each site, one for the proposed active seepage pit, and one for the proposed future seepage pit dedication, as required by the [City of Malibu Plumbing Municipal Code](#). If the percolation test results indicate the need for more than one active seepage pit, and/or if more than one future seepage pit is required, then more percolation testing shall be conducted. All proposed active seepage pit locations, and all proposed future seepage pit locations, shall be tested to assess the water absorption capacity.

6.7. Seepage pit percolation test boreholes shall be 2 feet in diameter, and a minimum of ten feet deep below the capping depth/elevation. A seepage pit percolation test may be conducted in a legally constructed seepage pit with prior approval from City of Malibu Environmental Health. Percolation test boreholes, and/or seepage pits, shall be located by GPS or other means of accurate location on subject property.

7.8. On the first day of the percolation test, the seepage pit percolation test borings shall be filled with clear water to the capping depth/elevation recommended by the project geologist so as to presoak the boreholes prior to performing water absorption measurements on the second day. If any seepage pit percolation test boring cannot be filled to the capping depth/elevation as a result of a rapid absorption rate, then the quantity of clear water introduced into the boring shall be determined at the discretion of the percolation test professional based on the minimum requirements of the project. After presoaking, no more water shall be introduced into the percolation test boreholes for a period of not less than 24 hours.

8.9. On the second day of the percolation test, prior to the beginning of metered water addition(s), the amount of water remaining in the percolation test boreholes following the presoak period shall be observed, and recorded as both: (a) the depth below existing grade to the free water surface and (b) the water column height above the bottom of the borehole. The depth/elevation of the free water surface in all percolation test boreholes must be recorded at both the beginning and the end of the 24 hour presoak period. Any borehole where, during this presoak period, the water surface does not drop at least 10 feet below the capping depth/elevation recommended by the project geologist shall be deemed to have failed the seepage pit percolation test. The accurate location(s) of all failed seepage pit percolation test boreholes must be provided on a map included as part of the percolation test report.

9.10. A 1-1/2 inch diameter water hose shall be the minimum size hose acceptable for use in filling boreholes for presoaking and percolation testing. A totalizing flow meter shall be used to record the quantities of water introduced into each borehole. For each test borehole, an initial meter reading shall be recorded prior to any water additions. Thereafter, the borehole shall be filled with clear water up to the capping depth/elevation recommended by the project geologist. Subsequently, the test borehole may be refilled with clear water (not to exceed the cap depth), as necessary, for a period not to exceed 8 hours beyond the initial filling. A meter reading and the time of day shall be recorded after each refill. The borehole total depth, and the minimum depth to the free water surface maintained in the borehole during the test, shall be reported. All depths shall be reported as depth below ground surface referenced to the ground surface elevation existing at the time of the test.

~~10~~11. On the third day of the percolation test, the final depth/elevation of the free water surface remaining in all percolation test boreholes must be recorded. This final water level recovery measurement shall be taken no more than 24 hours after the beginning of the second day of testing. At this time the amount of water remaining in each borehole shall be recorded as both: (a) the depth below existing grade to the free water surface and (b) the water column height above the bottom of the borehole. Any borehole where, during this final recovery period, the water surface does not drop at least 10 feet below the capping depth/elevation recommended by the project geologist shall be deemed to have failed the seepage pit percolation test. The accurate location(s) of all failed seepage pit percolation test boreholes must be provided on a map that is included as part of the percolation test report.

~~11~~12. For purposes of calculating daily water absorption capacity, the water volume remaining in the test boring (i.e., difference between the beginning water volume and a larger water volume remaining at the end of the presoak period, if any) shall be deducted from the water volume metered into the boreholes during the percolation test period. The net water volume absorbed between the beginning of metered water additions (on the second day) and the conclusion of the final recovery period (on the third day) shall be used to calculate the daily water absorption capacity in gallons per day and in gallons per square foot per day.

~~12~~13. For purposes of private sewage disposal system design, it normally is acceptable to the City of Malibu Environmental Health office for the percolation test professional and/or system designer to mathematically scale the daily water absorption capacity obtained in a 2 foot diameter test borehole by the ratio of surface areas of a design seepage pit and the test borehole. [Note: the constructed seepage pit must use the same total depth/elevation, and same cap depth/elevation, as the corresponding test borehole.]

~~13~~14. The percolation test report shall communicate the percolation test data in a manner easily understood by any reader. The percolation test report shall contain the following information:

- a. The dates on which the percolation test was conducted, i.e. the presoak date, the test date, and the final observation date.
- b. A map showing where the percolation test boreholes and the groundwater excavation(s) were located on subject property. The map shall be to scale, and easily readable; locations of the test borings on subject property may be determined by survey, GPS, or other means of reasonably accurate location.
- c. The dimensions of each percolation test borehole (i.e. the total depth/elevation of each borehole and the capping depth/elevation used for testing each borehole).
- d. If any percolation test borehole was backfilled prior to percolation testing, then the backfilling shall be noted, and the method of backfilling shall be noted.
- e. The percolation test data, including the times of day the percolation test holes were filled, and refilled, and the volume of water used for each fill, and refill.
- f. The observation of any groundwater level in any groundwater excavation.
- g. The percolation rate expressed in both gallons per day, and in gallons per square foot per day.

- h. Any other information deemed appropriate by the professional conducting the percolation test, or requested by the City of Malibu.

15. Variations to these guidelines may be approved on a case-by-case basis by City of Malibu Environmental Health as warranted by particular site conditions.

16. Alternative testing by falling head performance test will be allowed using the following procedures:

- Backfill the boring to the effective depth of the proposed seepage pit.
- Presaturate the test boring by filling it to the top of the effective pit depth with clear water maintaining this head for one hour.
- No less than 24 hours after presaturation, refill the test boring to the top of the effective pit depth, and then measure the change in time and depth as the water column drops. No less than six measurements shall be taken with data collected for each five-foot section of the test boring.
- A final time and depth measurement shall be taken 24 hours from the start of the performance test.
- Record percolation rate in both gallons per day and gallons/ft²/day.