

**ENGINEERING COMMITTEE
REGULAR COMMITTEE MEETING
AGENDA**

Thursday, January 16, 2020
10:00 AM



Action may be taken on any item listed on the agenda.

1. CALL TO ORDER

2. ROLL CALL

3. PUBLIC COMMENT

This is the opportunity for members of the public to address the committee on matters within the Committee's jurisdiction. Please limit comments to three (3) minutes or less. State law prohibits Committee members from discussing or taking action on items not included on the agenda.

4. DEPARTMENT ITEMS

4.A. UPDATE ON FLOOR DRAIN INSTALL AT FINE SCREEN BUILDING

Staff to provide the committee with an update on corrections to a design error of the floor drain at the Wastewater Facility Fine Screen Building.

4.B. SHOP BUILDING FOR THE VAC-TRUCK STORAGE AND MAINTENANCE

Staff to discuss with committee the request of bids for the purchase of a steel building to house the vac-truck and the waste water service truck.

4.C. VAC-TRUCK DUMPSITE

Staff to discuss the Vac-truck dump site at the plant.

[COR DD - Vactor Site at WWTP.pdf](#)

5. DIRECTORS' REPORTS/COMMENTS

For information purposes only on subjects not covered by the agenda and no action to be taken.

6. MANAGERS' REPORTS/COMMENTS

For information purposes only on subjects not covered by the agenda and no action to be taken.

7. FUTURE ITEMS FOR DISCUSSION

8. ADJOURNMENT

Materials related to any item on this Agenda submitted to the Board of Directors or Committee Members after distribution of the agenda packet are available for public inspection in the Hi-Desert Water District office at 55439 29 Palms Hwy, Yucca Valley, California during normal business hours. All documents supporting this agenda are available on the District website at subject to staff's ability to post the documents before the meeting.

Reasonable Accommodation: *Upon request, this notice will be made available in appropriate alternative formats to persons with disabilities. Any person with a disability, who requires a modification or accommodation to view the agenda or to participate in the public comment portion of the Board meeting, should direct such a request to Ed Muzik, Secretary of the Board of Directors, at 760-365-8333 or edm@hdwd.com. Please allow two business days for your request to be processed.*

Disruptive Conduct: *If any meeting of the District is willfully disrupted by a person or by a group of persons so as to render the orderly conduct of the meeting impossible, a meeting may be recessed or the person or persons willfully disrupting the meeting may be ordered to leave the meeting. Disruptive conduct includes addressing the Board or Committee without first being recognized, not addressing the subject before the Board or Committee, repetitively addressing the same subject, failing to relinquish the podium when requested to do so, or otherwise preventing the Board or Committee from conducting its meeting in an orderly manner. Your cooperation is appreciated.*



Engineering Committee Staff Report

Meeting Date: January 16, 2020

Submitted by: Doug Culbert

Presented by: Doug Culbert, Chief Plant Operator

Agenda Section:

Subject:

UPDATE ON FLOOR DRAIN INSTALL AT FINE SCREEN BUILDING

Recommendation:

Staff to provide the committee with an update on corrections to a design error of the floor drain at the Wastewater Facility Fine Screen Building.

Fiscal Impact:

None

Background:

A design flaw was missed in the overall review of the project. Floor drains in the room that houses the collection of the fine and grit screenings were overlooked. Typically, there would be drains in this type of location due to the high potential for water to accumulate on the floor whether it be to periodic overflows of the collection basins and for washing down the equipment. This flaw was called to the attention of all the parties involved and after discussion with WML Lyles, the District, KJ and Carollo it was agreed that drains should have been installed and WML agreed to bear the expense of installing a drain in the building.

The original plan was to construct a sump and the plumbing at the desired location in the building so that the water would drain by gravity to the equalization basin. After a site visit by WML they realized this would be a large safety issue for their crew since sewage has been introduced into the equalization basin and will not be empty for several months. In order to install the drain line WML would need to make a confined space entry and also core into a live tank which has the potential for an explosion etc. due to the atmospheric conditions with sewage in the tank. Installing the drain line would also require tunneling underneath the building which is another safety issue, as well as the potential to compromise the structural integrity of the building.

In order to aid HDWD operations with this problem and keep the WML crew safe they proposed the installation of a sump inside the building, as originally planned, with a submersible pump installed inside the sump. The pump would be piped into the existing overflow of the fine screens equipment and have a float to automatically run and shutdown when operations is washing into the sump. WML would also provide a spare pump in the event of any mechanical issues. While not the best solution overall, it is believed that this option is suitable and will work well for the operations staff.

Grooves will be cut into the concrete in different locations where most of the water accumulates in order to funnel the water to the sump. The locations of those grooves will be discussed and decided on when the project is completed.

Attachments:



Engineering Committee Staff Report

Meeting Date: January 16, 2020

Submitted by: Tony Culver

Presented by: Tony Culver, Director of Water Operations

Agenda Section:

Subject:

SHOP BUILDING FOR THE VAC-TRUCK STORAGE AND MAINTENANCE

Recommendation:

Staff to discuss with committee the request of bids for the purchase of a steel building to house the vac-truck and the waste water service truck.

Fiscal Impact:

\$150,000.00

Background:

When the wastewater plant was designed the maintenance building was not designed large enough to house the Vac-truck.

Staff would like to purchase a building large enough to house the Vac-truck and the service truck. The work to construct the building will be performed in-house by District crews.

Attachments:



Engineering Committee Staff Report

Meeting Date: January 16, 2020

Submitted by: Tony Culver

Presented by: Tony Culver, Director of Water Operations

Agenda Section:

Subject:

VAC-TRUCK DUMPSITE

Recommendation:

Staff to discuss the Vac-truck dump site at the plant.

Fiscal Impact:

47,604.00

Background:

When the Wastewater Plant was designed and constructed, a place to dump the Vac-truck was not included. Staff had Carollo Engineers design one and had Sukut Construction provide an estimate. Staff is requesting input and suggestions from the Committee.

Attachments:

[COR DD - Vactor Site at WWTP.pdf](#)



January 10, 2020

Hi-Desert Water District
55439 29 Palms Hwy
Yucca Valley, CA 92284

Attention: Tony Culver
Director of Water Operations

Reference: Phase 1 Collection System

Subject: Vactor Site at WWTP

Dear Sir,

Please see the attached cost proposal for the installation of the Vactor truck dump site per drawings VD-01 and VD-01 provided by Andrew Frost on 1-7. This proposal includes the purchase of the Armorock manhole as well as all other necessary labor, equipment and materials to complete the work as shown on the drawings.

Total: \$47,604

Respectfully,

Sukut Construction

Nick Osborne, P.E.
Project Manager

