

## Honouliuli/Waipahu/Pearl City Wastewater Facilities Plan

### Honouliuli Wastewater Treatment Plant (WWTP)

#### Secondary Treatment and Support Facilities Draft EIS

Announcing a Public Meeting June 14, 2016 at Kapolei Middle School, 91-5335 Kapolei Pkwy, Kapolei, HI 96707, from 7PM to 8:30PM

#### Project Description

The upgrade to full secondary treatment is required by consent decree (CD) between the City and County of Honolulu, State of Hawaii Department of Health and the U.S. Environmental Protection Agency to be completed by June 1, 2024. The project proposes to upgrade the existing Honouliuli Wastewater Treatment Plant (WWTP) to full secondary treatment and accommodate projected wastewater flows. The estimated Average Daily Flow (ADF) in 2035 is 40 MGD, currently the WWTP treats an ADF of 27.5 MGD.

Various support facilities are also planned for the Honouliuli WWTP site and are covered in this Draft EIS. These include a new central laboratory building, ocean team facilities, administration building, operations building, maintenance shops and warehouse, septage receiving facility, and central supervisory control and data acquisition operations facility.

Previous public meetings addressed both the wastewater conveyance system and WWTP. This Draft Environmental Impact Statement (DEIS) only covers the WWTP since it has the consent decree deadlines. Planning for wastewater conveyance system projects is ongoing. Improvements to the Honouliuli major sewer conveyance system will be the subject of separate subsequent environmental review documents.

#### Wastewater Treatment Alternatives Considered

- Option 1 – Expand Existing Trickling Filter/Solids Contact (TF/SC) Process to Full Capacity
- Option 2 – Replace Existing TF/SC Process with Activated Sludge (AS) to Full Capacity
- Option 3 – Add to Existing TF/SC Process with AS to Full Capacity

These secondary treatment process options were reviewed, plus the “No Action” alternative. The preferred option is option 2.

#### Key Dates

DEIS Publication Date	May 8, 2016
End of DEIS Comment Period	June 22, 2016
Final EIS Publication	September 2016 (tentative)
Begin Secondary Treatment Construction	Jan 1, 2019 (tentative)
Completion of Secondary Treatment Upgrades	June 1, 2024 (set by consent decree, to be completed in phases)

#### For More Information

The DEIS is available for review at the Regional Libraries or via the following link:

[http://oeqc.doh.hawaii.gov/Shared%20Documents/EA and EIS Online Library/Oahu/2010s/2016-05-08-OA-5B-DEIS-Honouliuli-Wastewater-Treatment-Plant-Secondary-Treatment-Improvements.pdf](http://oeqc.doh.hawaii.gov/Shared%20Documents/EA_and_EIS_Online_Library/Oahu/2010s/2016-05-08-OA-5B-DEIS-Honouliuli-Wastewater-Treatment-Plant-Secondary-Treatment-Improvements.pdf)

#### Send Comments or Questions to:

AECOM  
Attn: Anne Symonds, P.E.  
1001 Bishop Street, Suite 1600  
Honolulu, HI 96813

City & County of Honolulu  
Department of Environmental Services  
Attn: Marisol Olaes  
1000 Uluohia Street, Suite 308  
Kapolei, HI 96707



Owner: C & C of Honolulu  
 TMK: 91017069  
 Area: 65.0 acres

TMK: 91017068  
 Area: 25.2 acres

Coral Creek Golf Course  
 Owner: Coral Creek Golf Inc.  
 TMK: 91069010  
 Area: 57.9 acres

FRANKLIN D ROOSEVELT AVE

Kapolei Interceptor Sewer (42")

Makakilo Interceptor Sewer (30")

Honouliuli Water Recycling Facility (BWS)

Ford Island Ventures  
 Owner: USA  
 TMK: 91013016  
 Area: 69.6 acres

Honouliuli Interceptor Sewer (84")

Honouliuli WWTP Influent WWPS  
 Force Main (42")

Sewer Main (21")

Barber's Point Ocean Outfall (84")

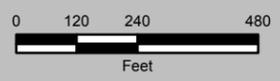
STA 3R WWPS  
 Force Main (18")

Golf Course  
 Owner: USA  
 TMK: 91013018  
 Area: 346.2 acres

Owner: Gentry Investment Properties  
 TMK: 91069021,22,23  
 Area: 29.3, 11.7, 67.8 acres

EXISTING AND PROPOSED FACILITIES		
1	IPS	033I Pump and Blower Building
2	Grit Tanks	34 Wet Weather Storage Basin
3	Preaeration Tanks	034A Aeration Tank No 1
4	Primary Clarifier	034B Aeration Tank No 2
4	Primary Clarifier	034C Aeration Tank No 3
4	Primary Clarifier	21E Rehabilitate Primary Sludge Pump Station No 1
4	Primary Clarifier	051I BioFilter (Central) Cells 4-14
4	Primary Clarifier	013B Rehabilitate Preaeration Tanks No 1-4
5	Gravity Thickener	013A Rehabilitate Aerated Grit Chambers No 1-4
5	Gravity Thickener	201F Grit/Primary Electrical Building
6	Blower Building	013C Blower Building No 1 (Primary)
7	Anaerobic Digester	013L Grit Building
7	Anaerobic Digester	062 Upgrade Secondary Sludge Gravity Belt Thickeners
7	Anaerobic Digester	063B Sludge Blend Tanks No 5-8
8	Secondary Sludge Thickening	012 Rehabilitate Influent Pump Station
9	Blend Tanks	011 Replace Influent Screens
5	Gravity Thickener	001A Modified Septage Receiving Station
5	Gravity Thickener	CG5 Cogeneration
10	Dewatering	071G Digester Control Building No 2
11	Incinerator (Out of Service)	071D Anaerobic Digester No 4
12	Thermal Conditioning (Out of Service)	071H Sludge and FOG Receiving Station
13	Hydroclear Sand Filter	035C Final Effluent Flow Meter
14	Microfiltration/RO Building	041 UV Disinfection
15	RO Storage Tank	035D Final Effluent Channel
16	Reuse Pump Station	033G Secondary Clarifier No 7
17	R1 Storage Tank	033H Secondary Clarifier No 8
17	R1 Storage Tank	034g Wet Weather Storage Basin
18	R1 Transfer PS/UV Channel	034D Aeration Tank No 3
19	R1 Product Delivery PS	034E Aeration Tank No 3
20	Septage Receiving Station	071I Anaerobic Digester No 6 (Future)
21	Effluent Channels (Out of Service)	033K Expansion Pump and Blower Building (Future)
22	Chlorination Building	093 Warehouse Building
23	Maintenance Building	094C Maintenance Building
23	Maintenance Building	096 Covered Truck Parking
24	Control Building	098 Laboratory Building
25	Digester Control Building	099 Ocean Team Building
26	Biotower PS	097 Administration Building
27	Biotower	E1 Mailio Street to Renton Road
27	Biotower	E2 Franklin Roosevelt Ave
28	Emergency Generator	E3 Convience Center
29	Solids Contact/Sludge Reaeration Tanks	034F Aeration Tank No 3
30	Secondary Clarifier	022 Wet Weather Storage Basins
30	Secondary Clarifier	051J BioFilter (Central) Cell 15
31	Primary Effluent Screens	013D Grit/Preaeration No 5
32	Parshal Flume Box	071E Anaerobic Digester No 5
33	Effluent Screens	081B Upgrade Dewatering Building
201E	Main Electrical Building	033L Secondary Clarifier No 9 (Future)
201B	Utility Heco Substation	033M Secondary Clarifier No 10 (Future)
091B	Operation Building	103A Biosolids Dryer
033J	Flow Distribution Structure to Secondary Clarifiers	102A Biosolids Handling Building
033F	Secondary Clarifier No 6	102 Thermal Drying Building
033E	Secondary Clarifier No 5	E5 Geiger Road Entrance
033D	Secondary Clarifier No 4	E4 Current Entrance
033C	Secondary Clarifier No 3	21D Rehabilitate Primary Clarifier No 4

- Phase 1
- Phase 2
- Support Facilities
- Future Design
- Walking/Bike Path
- Sewer Main



**HONOULIULI WWTP  
 SITE MAP  
 AND  
 PHASING PLAN**  
 May 26, 2016



1001 Bishop St. STE 1600  
 Honolulu, HI 96813

KEY MAP