



# OCEANOGRAPHIC TEAM

*C & C of Honolulu, Environmental Services, Environmental Quality Division*

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17<sup>TH</sup> SEPTEMBER 2024

## MEMORANDUM

TO: ZHIJUN ZHOU BRANCH HEAD  
MONITORING AND COMPLIANCE BRANCH

FROM: KEVIN WALTON  
OCEANOGRAPHIC TEAM SUPERVISOR

SUBJECT: SUBMITTAL OF OUTFALL INSPECTION USING DEEPTREKKER  
REMOTELY OPERATED VEHICLE (ROV)

OUTFALL: MOKAPU OUTFALL

SAMPLING DATE: 09<sup>TH</sup> SEPTEMBER 2024

RESEARCH VESSEL: 25- Boston Whaler (Environmental Services, Environmental  
Quality, Oceanographic team)

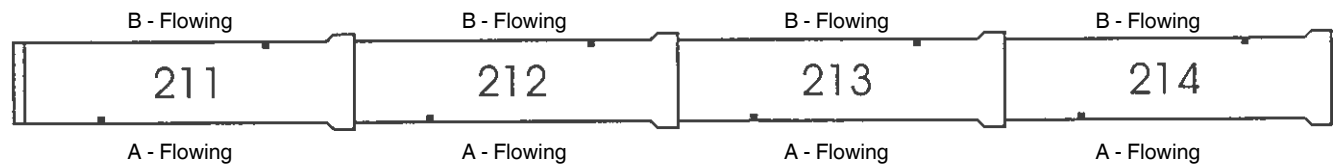
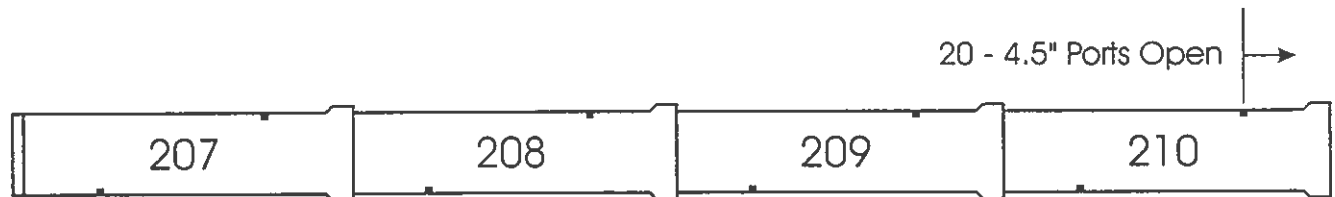
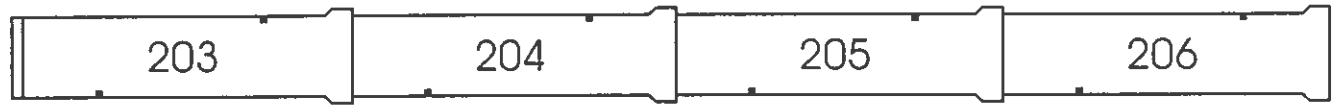
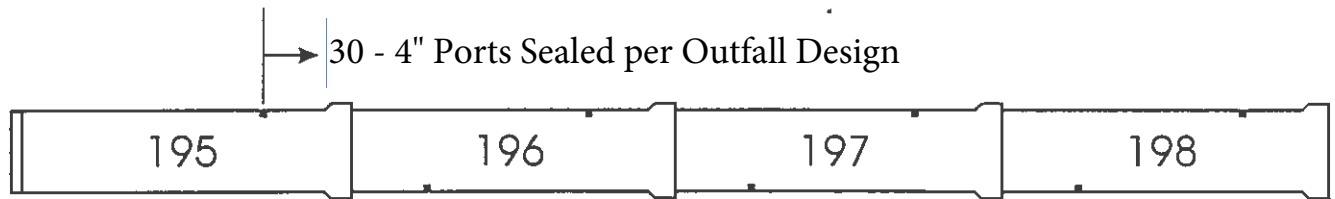
OCEANOGRAPHIC TEAM: Kevin Walton, Scott Miyahara, Kayla Racanelli, Paige  
Cloninger, Rebecca Black

### DIFFUSER INSPECTION:

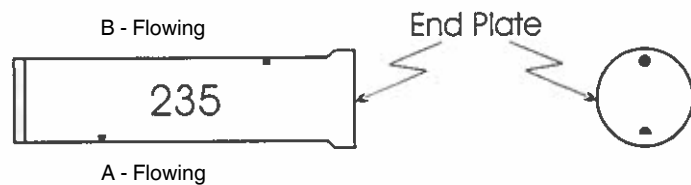
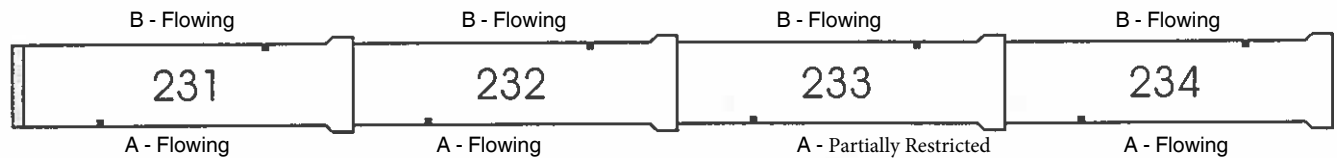
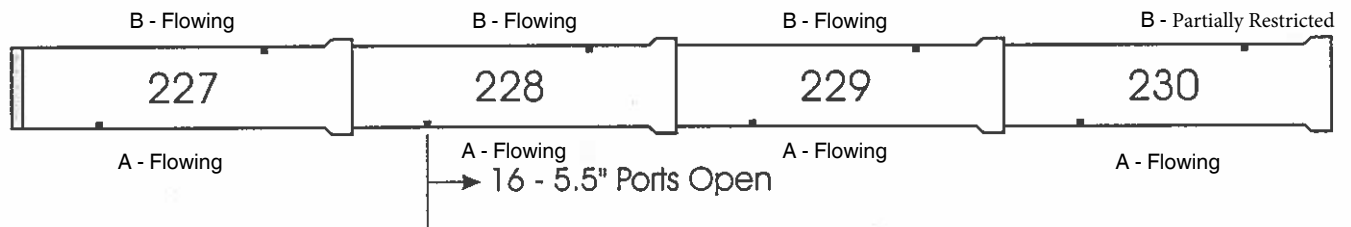
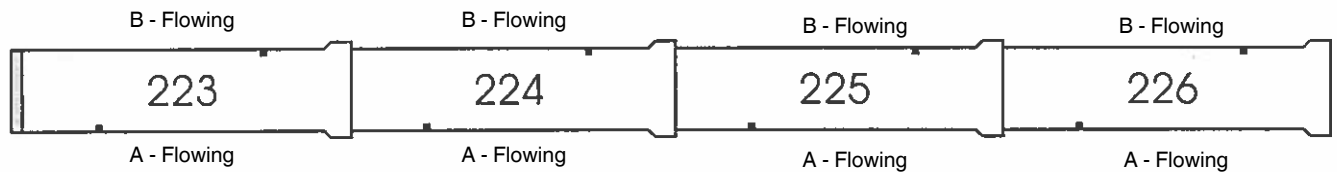
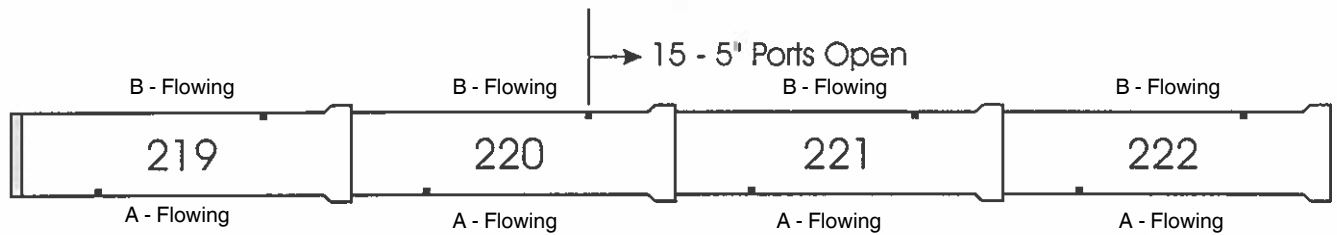
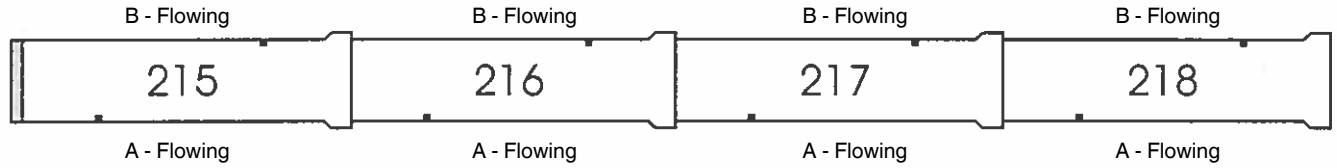
1. Ocean Team's DeepTrekker ROV was used to record the inspection.
2. The Tremie concrete covering the pipe on the inside section and armor stone appears to be in good condition.
3. The pipe is flowing in diffuser port segments 210-235 on both shoreward and seaward ports, with the following exceptions: Per the outfall design, the shoreward (A) port of segment 210 is sealed, while the seaward (B) port is flowing. The seaward (B) port of segment 230 is partially restricted, while the shoreward (A) port is flowing. The seaward (B) port of segment 233 is flowing, but the shoreward (A) port is partially restricted.
4. No evidence of effluent flow is observable from segments 195 to 209, as these segments are sealed per the outfall design. Coral growth was observed on these segments.

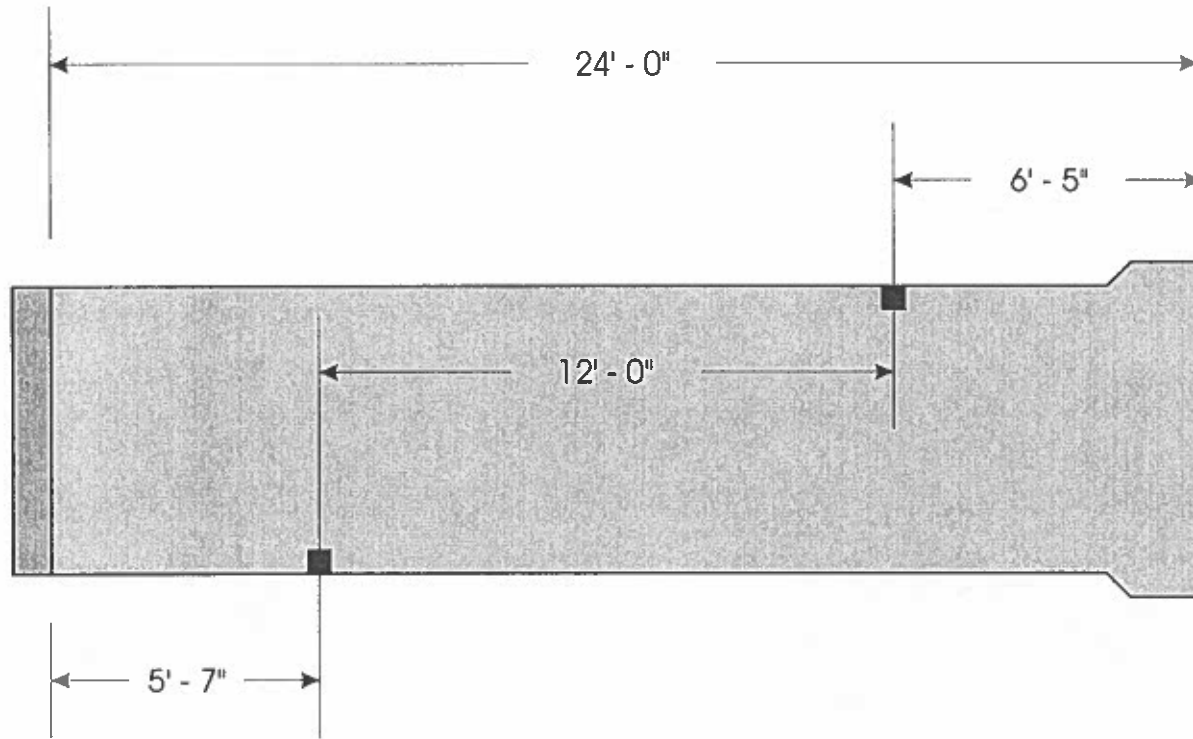
Kevin Walton

# Mokapu Outfall Diffuser (1 of 2)



# Mokapu Outfall Diffuser (2 of 2)





## TYPICAL PIPE SECTION

Mokapu Outfall Diffuser