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DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

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OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

September 12, 2001

Ms. Genevieve Salmonson, Director
Office of Environmental Quality Control
235 S. Beretania Street
State Office Tower, Suite 702
Honolulu, HI 96813

Dear Ms. Salmonson:

Subject: Finding of No Significant Impact
Ala Moana Wastewater Pump Station (WWPS) Modification,
TMK: 2-1-15: 22 & 23, Kakaako, Honolulu, Oahu, Hawaii

The City and County of Honolulu, Department of Design and Construction has assessed the potential effects of the proposed project based on the significance criteria in Hawaii Administrative Rules (1996 revised) Section 11-200-12, and has reviewed the comments received during the 30-day public comment period which began October 23, 2000. The following is a summary of the potential effects of the action.

Section 11-200-12 Significance Criteria:

- (1) *Involves an irrevocable commitment to loss or destruction of any natural or cultural resource:*
Development of the project will involve the irrevocable loss of certain environmental and financial resources. However, the costs associated with the use of these resources should be evaluated in light of recurring benefits gained through the increased capacity and reliability of the upgraded wastewater pumping facility.
- (2) *Curtails the range of beneficial uses of the environment:*
The project will not curtail the range of beneficial uses of the environment. The project will take place within the existing WWPS property.

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- (3) *Conflicts with the state's long-term environmental policies or goals and guidelines as expressed in Chapter 344, HRS:*

The project would be in conformance with Chapter 344, HRS, State Environmental Policy. The proposed project will increase the pumping capacity of the Ala Moana WWPS and enable it to accommodate projected increases in flow and the additional head requirements of the future expansion of the Sand Island WWTP. By increasing pumping capacity and improving station reliability, the project will reduce the risk of wastewater spills.

- (4) *Substantially affects the economic or social welfare of the community or State:*

The proposed modifications to the Ala Moana WWPS are not anticipated to have significant effects on the area's economic activities or the social welfare of the community or state.

- (5) *Substantially affects public health:*

The existing WWPS cannot handle current projected peak flows without using the standby pump. The proposed project will increase the pumping capacity of the Ala Moana WWPS and enable it to accommodate projected increases in flow and the additional head requirements of the future expansion of the Sand Island WWTP. The proposed project is not anticipated to have substantial adverse effects on public health. The facilities to be constructed at the Ala Moana WWPS will reduce the risk of wastewater spills.

- (6) *Involves substantial secondary impacts, such as population changes or effects on public facilities:*

The project is not anticipated to result in substantial secondary impacts, such as population changes or effects on public facilities.

- (7) *Involves a substantial degradation of environmental quality:*

The proposed project is not anticipated to involve a substantial degradation of environmental quality. The project requires very minimum clearing and grubbing. In addition, the site has been disturbed for the construction and operation of the existing facilities, and the surrounding area has been highly modified.

- (8) *Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions:*

The project is not anticipated to result in cumulative effects; therefore, it would not involve a commitment to larger actions.

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- (9) *Substantially affects a rare, threatened, or endangered species, or its habitat:*
The proposed project is not anticipated to have substantial effects on rare, threatened, or endangered species, or their habitats. Since the area has been modified over time, it is not likely that rare, threatened, or endangered species will be encountered.
- (10) *Detrimentially affects air or water quality or ambient noise levels:*
The project is not anticipated to result in significant adverse effects on the area's long-term air or water quality or ambient noise levels.
- (11) *Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters:*
The project site is not in the 500-year flood plain and is not in a tsunami evacuation zone. The proposed improvements will not alter existing drainage patterns or shoreline configurations.
- (12) *Substantially affects scenic vistas and viewplanes identified in county or states plans or studies:*
The Ala Moana WWPS modification will not significantly affect the area's visual resources.
- (13) *Requires substantial energy consumption:*
The proposed ventilation and air conditioning system in WWPS #1 will increase power use at the facility, but will not result in a substantial increase in energy consumption. The HECO system has adequate service capacity to meet projected power requirements.

The chief issues raised during the comment period are discussed below:

Odor Control

The proposed project includes new odor control systems utilizing activated carbon absorption. Activated carbon absorbs a variety of odorous compounds including hydrogen sulfide (H₂S), the most common odorous gas found in wastewater collection and treatment systems. Wastewater entering the pump station will be collected in a sealed, lined, wet-well. Exhaust fans will draw the foul air out of the air space in the wet-well and discharge it into the activated carbon units for treatment. The treated air is then released to the atmosphere.

Emission rates from the odor control system will be kept below the exempt amounts established in HAR, Chapter 11-60, "Air Pollution Control". The Department of Health will verify emission rates when an application is made to obtain an air pollution permit for the project. It should be noted that the risk of odors can be minimized but not eliminated.

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Noise

The contractor will mitigate construction related noise impacts by complying with Department of Health regulations on community and vehicular noise control. Long-term noise impacts related to operation of the pump facility will be mitigated by housing generators, fans, and pumps in acoustically treated enclosures. Acoustical treatments will include silenced inlet and discharge air openings, interior wall and ceiling finish insulation, sound rated door assemblies, and exhaust mufflers.

Storm Water Discharge

The proposed project is not expected to have any impact on nearshore waters. The pump station is approximately 1,500 feet away from the nearest shoreline. Storm water runoff from the site will enter the City's separate storm sewer system on Keawe Street. In order to minimize the potential for contamination of storm water runoff, the pump station site will be kept in a neat, orderly manner in accordance with good housekeeping practices. Fuels, oils, solvents, and other materials used on site will be stored under cover in proper containers. Further, the Ala Moana WWPS is a closed system. All pipes, pumps, and well spaces are contained in sealed environments where they will not come into contact with rainfall or storm water runoff.

During construction, the project contractor will employ best management practices to divert, contain, and treat storm water flows to ensure that storm water runoff does not discharge pollution to near shore waters.

Service Area Demand

The Ala Moana WWPS serves most of eastern Honolulu, including Kakaako. Wastewater from the service area is conveyed to the Ala Moana WWPS and pumped through two force mains to the Sand Island Wastewater Treatment Plant (WWTP) for treatment and disposal. Design flows for the Ala Moana WWPS were obtained from the Force Majeure Report (Fukunaga and Associates, Inc. October 1997). The design flows were based on available Traffic Analysis Zone (TAZ) population projections for 1995 and 2020. Proposed improvements to the Ala Moana WWPS are designed to meet the service demands of projected population growth in Eastern Honolulu to the year 2020. Although wastewater flows are not calculated specifically for the proposed development in Kakaako, future service demand in Kakaako is accounted for in the general population growth projections.

No other significant concerns were raised during the review period.

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Best Management Practices and mitigation measures described in the Final EA will ensure that no significant negative impacts to the natural, built, or social environment will result from the proposed action. The DDC has therefore determined that this project will not have significant environmental effects and hereby issues a finding of no significant impact. Please publish this notice in the September 23, 2001 Environmental Notice.

We have enclosed a completed OEQC Environmental Notice Publication Form, project summary, and four copies of the final EA. Please contact Mr. Carl Arakaki at 523-4671 if you have any questions.

Very truly yours,



RAE M. LOUI, P.E.
Director

Enclosure

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SEP 23 2001

2001-09-23-0A-~~FEA~~-

FILE COPY

Final

ENVIRONMENTAL ASSESSMENT

Prepared in Accordance with Requirements of Chapter 343, Hawaii Revised Statutes

**ALA MOANA WASTEWATER PUMP STATION
(WWPS) MODIFICATION**

Kakaako, Honolulu, Oahu, Hawaii

September 2001

Prepared For:

Department of Design and Construction
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Prepared By:

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(Ref: 1-17701-1E)

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

FINAL

ENVIRONMENTAL ASSESSMENT

**ALA MOANA WASTEWATER PUMP STATION (WWPS)
MODIFICATION**

AT
KAKAAKO, HONOLULU, OAHU, HAWAII
TMKs: 2-1-15: 22 & 23

SEPTEMBER 2001

PROPOSING AGENCY:	DEPARTMENT OF DESIGN AND CONSTRUCTION CITY AND COUNTY OF HONOLULU 650 SOUTH KING STREET HONOLULU, HAWAII
RESPONSIBLE OFFICIAL:	RAE M. LOUI, PE, DIRECTOR
PREPARED BY:	R. M. TOWILL CORPORATION 420 WAIKAMILO ROAD, SUITE 411 HONOLULU, HAWAII 96817-4941

THIS ENVIRONMENTAL DOCUMENT IS SUBMITTED PURSUANT TO CHAPTER 343, HRS.

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SECTION 1 Introduction

1.1 BACKGROUND

The Department of Design and Construction, City and County of Honolulu (DDC) proposes to upgrade the Ala Moana WWPS to increase the pumping capacity and overall reliability of the facility. The existing facility cannot handle future estimated peak wet weather flows.

The Ala Moana Wastewater Pump Station (WWPS) is located in Kakaako on the south coast of the island of Oahu (see **Figures 1.1-1 & 1.1-2**). The pump station serves most of eastern Honolulu. Wastewater from the service area is conveyed to the Ala Moana WWPS and pumped through two force mains to the Sand Island Wastewater Treatment Plant (WWTP) for treatment and disposal.

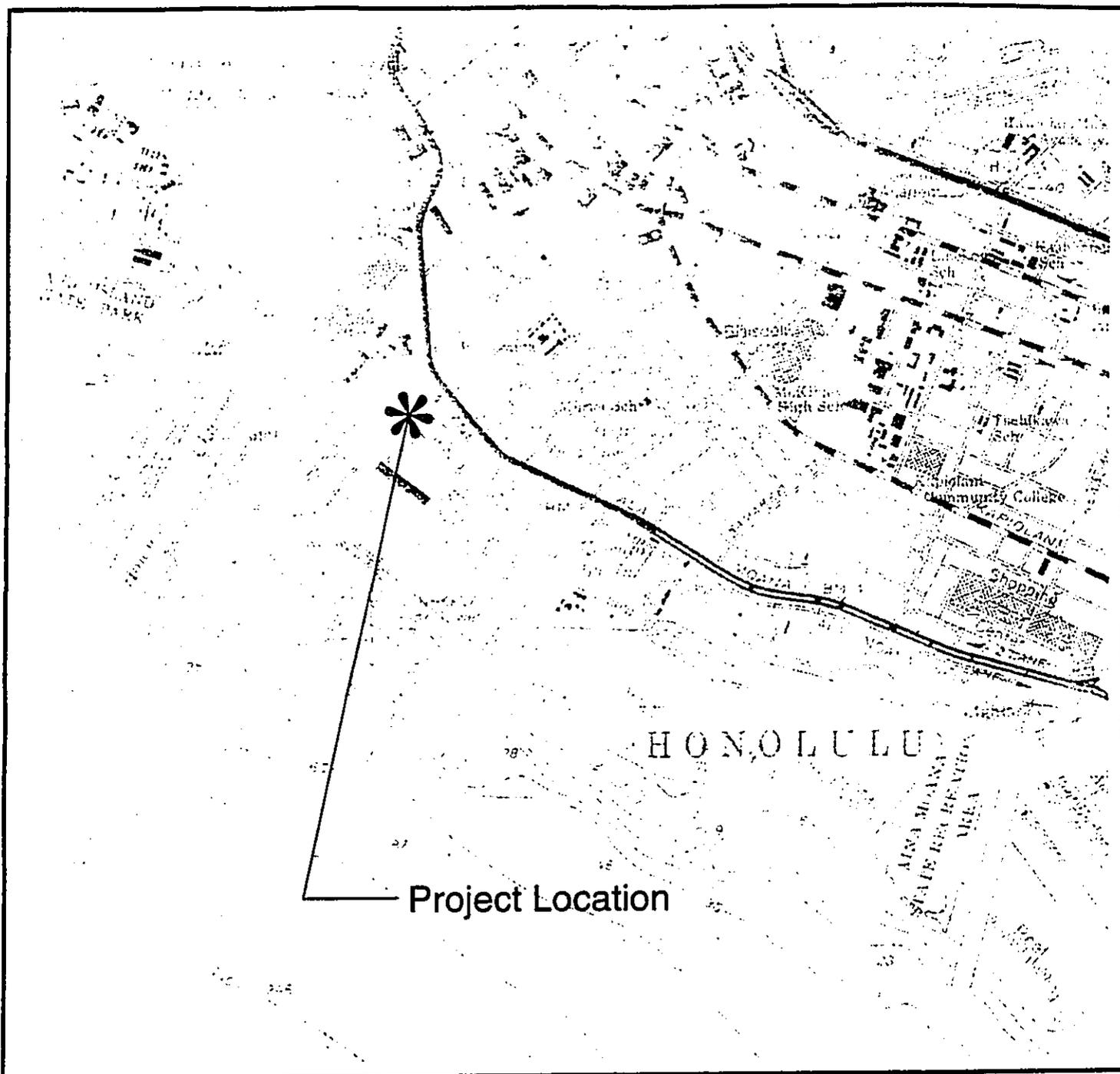
A site plan of the existing facility is presented in **Figure 1.1-3**. The Ala Moana WWPS consists of two separate pump stations:

- WWPS #1 was constructed in 1954 and serves as a standby to WWPS #2. The station has three pumps with an estimated pumping capacity of 54 million gallons per day (mgd) through force main (FM) #1.
- WWPS #2 was constructed in 1983 and is the primary pump station. The station has three pumps with a fourth pump as a standby. The station's estimated pumping capacity with three pumps in operation is 109 mgd through FM #2. With the standby pump operating, the pumping capacity through FM #2 increases to 133 mgd.

The project site is within the Special Management Area (SMA) of the Kakaako Community Development District and requires an SMA permit from the Office of Planning, Department of Business, Economic Development and Tourism, State of Hawaii. The DDC will be applying for a SMA Use Permit. Due to the proposed use of State lands and City and County funds for development, this project is subject to Chapter 343, Hawaii Revised Statutes, pursuant to Chapter 200, Title 11, Hawaii Administrative Rules, as amended. This Environmental Assessment is being prepared to address the environmental impacts anticipated for this project.

1.2 PROJECT LOCATION AND OWNERSHIP

The Ala Moana WWPS is located on Keawe Street approximately 300 feet south of Ala Moana Boulevard. The WWPS site is in the Honolulu judicial district and occupies two parcels. The parcels are identified as Tax Map Key (TMK) 2-1-15:22 and 2-1-15:23 with land areas of 1,133 and 30,390 square feet, respectively. The properties are owned by the State of Hawaii and leased to the City and County of Honolulu.

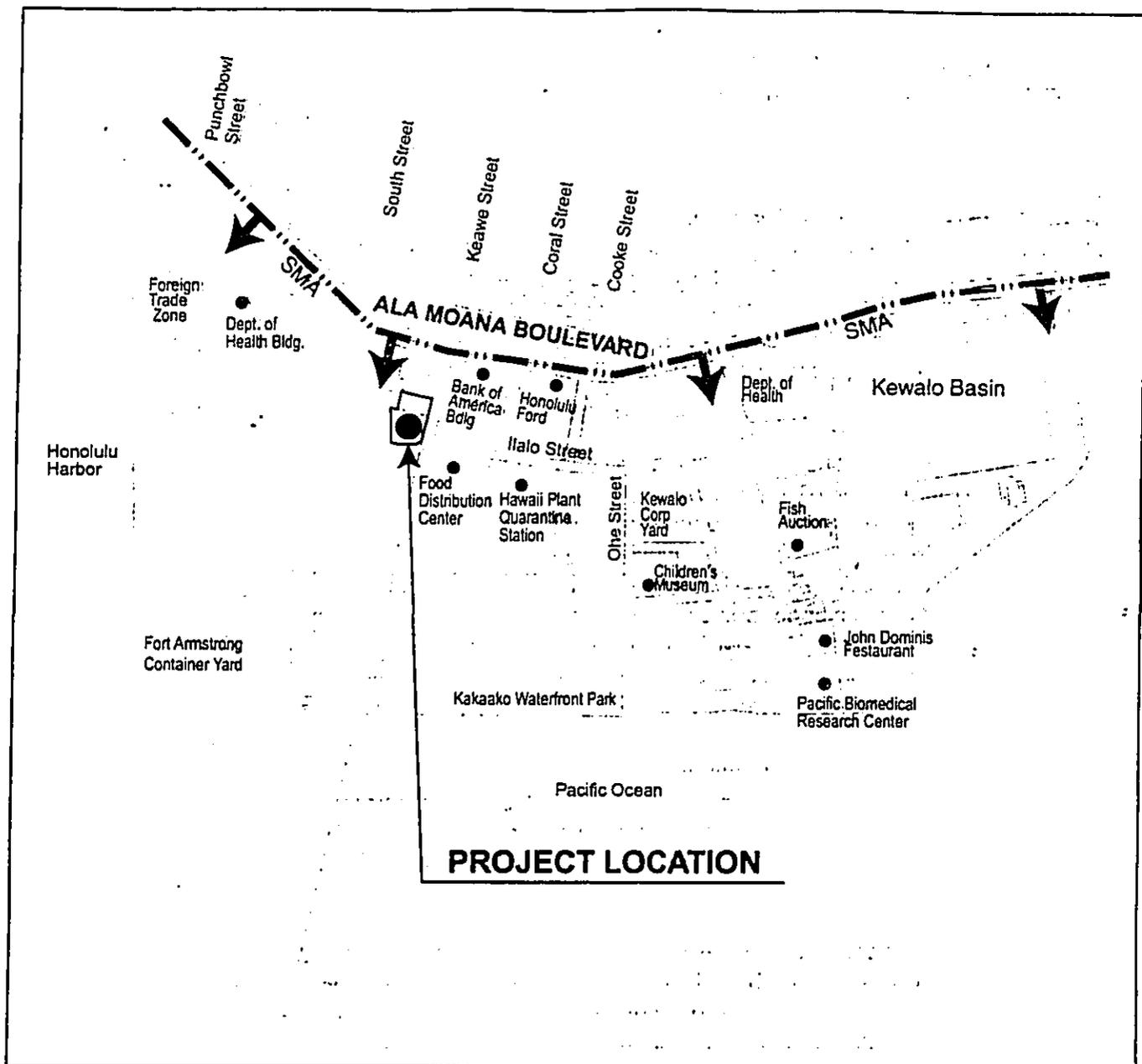


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DEPARTMENT OF DESIGN AND CONSTRUCTION



Ala Moana WWFS
Modifications
Figure 1.1.-1
LOCATION MAP
Kakaako, Honolulu, Oahu

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Legend

--- SMA Boundary

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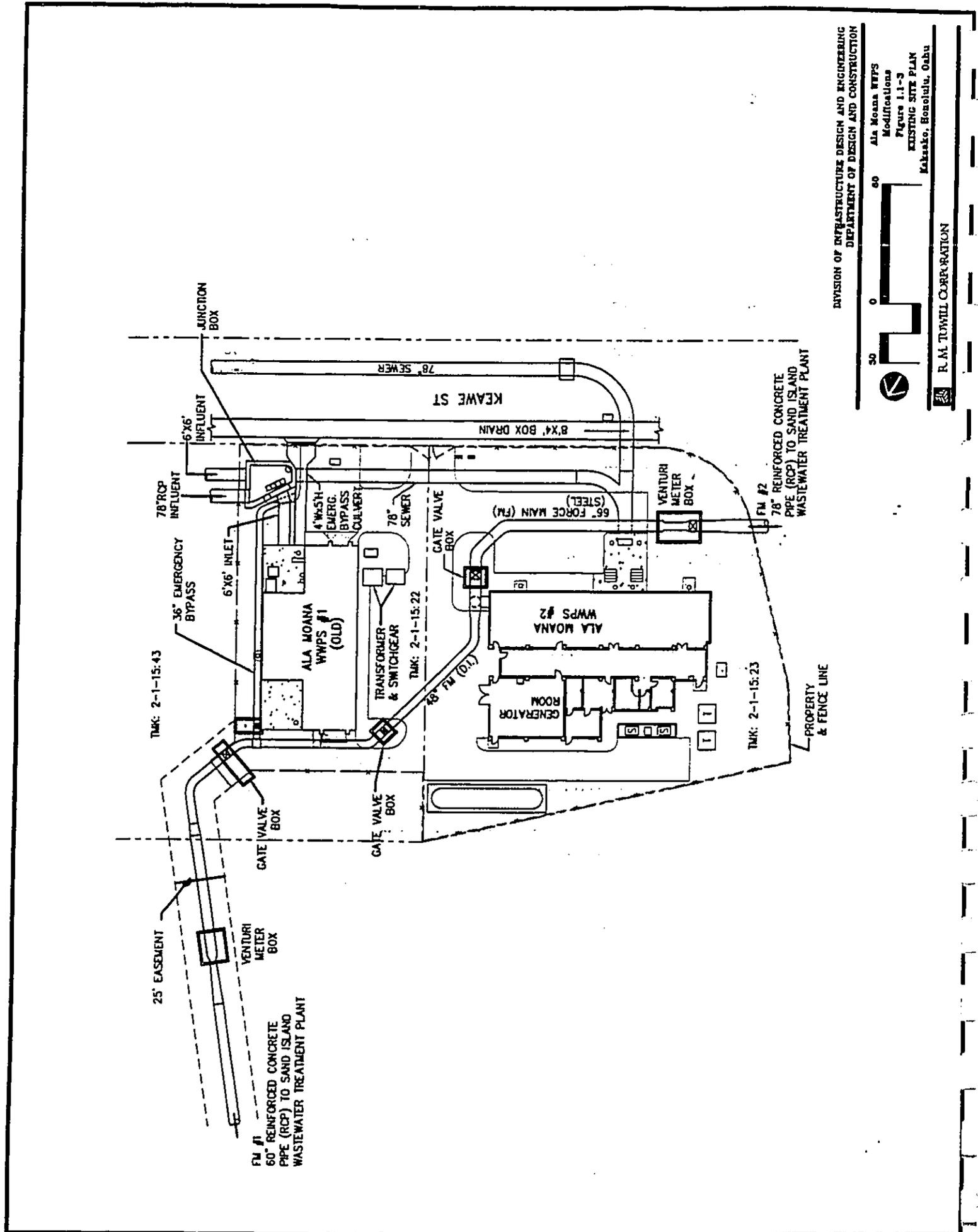
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FEET

Ala Moana WWPS
Modifications
Figure 1.1.-2
VICINITY AND SMA MAP
Kakaako, Honolulu, Oahu

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 DEPARTMENT OF DESIGN AND CONSTRUCTION

Ala Moana WWS
 Modifications
 Figure 1.1-3
 EXISTING SITE PLAN
 Kalaheo, Honolulu, Oahu



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SECTION 2

Description of Project

2.1 PROJECT PURPOSE AND NEED

The majority of the proposed modifications to the Ala Moana WWPS will address projected increases in flow to the facility and the additional head requirements of the future expansion of the Sand Island WWTP.

A summary of the projected wastewater flows and station pumping capacities are presented in Table 2.1-1. Design flows for the Ala Moana WWPS were obtained from the Force Majeure Report (Fukunaga and Associates, Inc. October 1997). Population projections were based on available projections for traffic analysis zones (TAZ) for 1995 and future (2020) conditions and include future development in Kakaako. Peak wet weather flow projections were based on a 2-year, 6-hour design storm.

The existing WWPS cannot handle current modeled peak flows without using the standby pump. The increase in head requirements associated with the upcoming Sand Island WWTP expansion will result in a reduction in the pumping capacity of the existing pump station.

	1995 Conditions	2020 Conditions
PROJECTED FLOWS, MGD		
Peak Wet Weather Flow	173	189
PUMPING CAPACITY, MGD		
Existing WWPS	163	151
Existing WWPS w/ standby operating	187	171
Upgraded WWPS	205	189

2.2 TECHNICAL CONSIDERATIONS

2.2.1 WASTEWATER PUMP STATION MODIFICATIONS

The proposed wastewater pump station modifications focus on the following items:

- Meeting new pumping capacity and head requirements
- Modernizing the electrical power system
- Upgrading the odor control system.

Upgrade of the wastewater pump station will be done in two phases to allow for testing of alternate solutions to the ongoing pump clogging problem at WWPS #2. The majority of the facility upgrades will be done in the Phase 1 modification. The Phase 2 modification consists primarily of pump and surge control upgrades at WWPS #2.

The Phase 1 modification will increase the facility's pumping capacity from 157 mgd to roughly 169 mgd. The Phase 2 modification will increase the facility's pumping capacity from 169 mgd to 189 mgd.

Proposed Phase 1 upgrades to WWPS #1 include the following:

- 4 new pumps, motors, pump controllers and appurtenant piping
- Surge control measures
- Refurbishment of wet well
- Expansion of the MCC Room
- New ventilation system meeting NFPA 820 criteria
- Removal and disposal of asbestos containing materials
- Upgrade of interior architectural items
- Refurbishment of building exterior
- Upgrade of electrical power systems
- New odor control unit
- Air conditioning for the MCC Room and offices

Proposed Phase 1 upgrades to WWPS #2 include the following:

- New impeller(s) for existing pump(s)
- Interim surge control measures
- New odor control unit
- New emergency generator with acoustical treatment

The following site modifications have been identified and will be included in the Phase 1 upgrades:

- Replace on-site 48" FM #1 with 54" pipe
- New on-site venturi flow meter and box for FM #1
- Remove old 36" bypass
- New 54" gate valves and valve boxes
- New 250 gallon day tank

SECTION 2 - Description of Project

- New 10,000 gallon underground diesel fuel storage tank
- Landscaping and irrigation system

The Phase 2 modification will involve the following upgrades at WWPS #2:

- 1 new pump, motor, pump controller and appurtenant piping
- Upgrade or replacement of the 4 existing pumps
- Permanent surge control measures

The proposed site plan of the upgraded facility is shown on **Figure 2.2-1**.

2.2.2 FORCE MAIN MODIFICATIONS

The following force main modifications will be done as part of the Phase 1 upgrade:

- Replace approximately 150 feet of the off-site portion of Force Main #1 (FM #1) with 54-inch pipe
- Remove off-site venturi flow meter and meter box

The existing air release valves and valve boxes on FM #1 will be replaced as part of a separate project.

2.3 PROJECT SCHEDULE AND COSTS

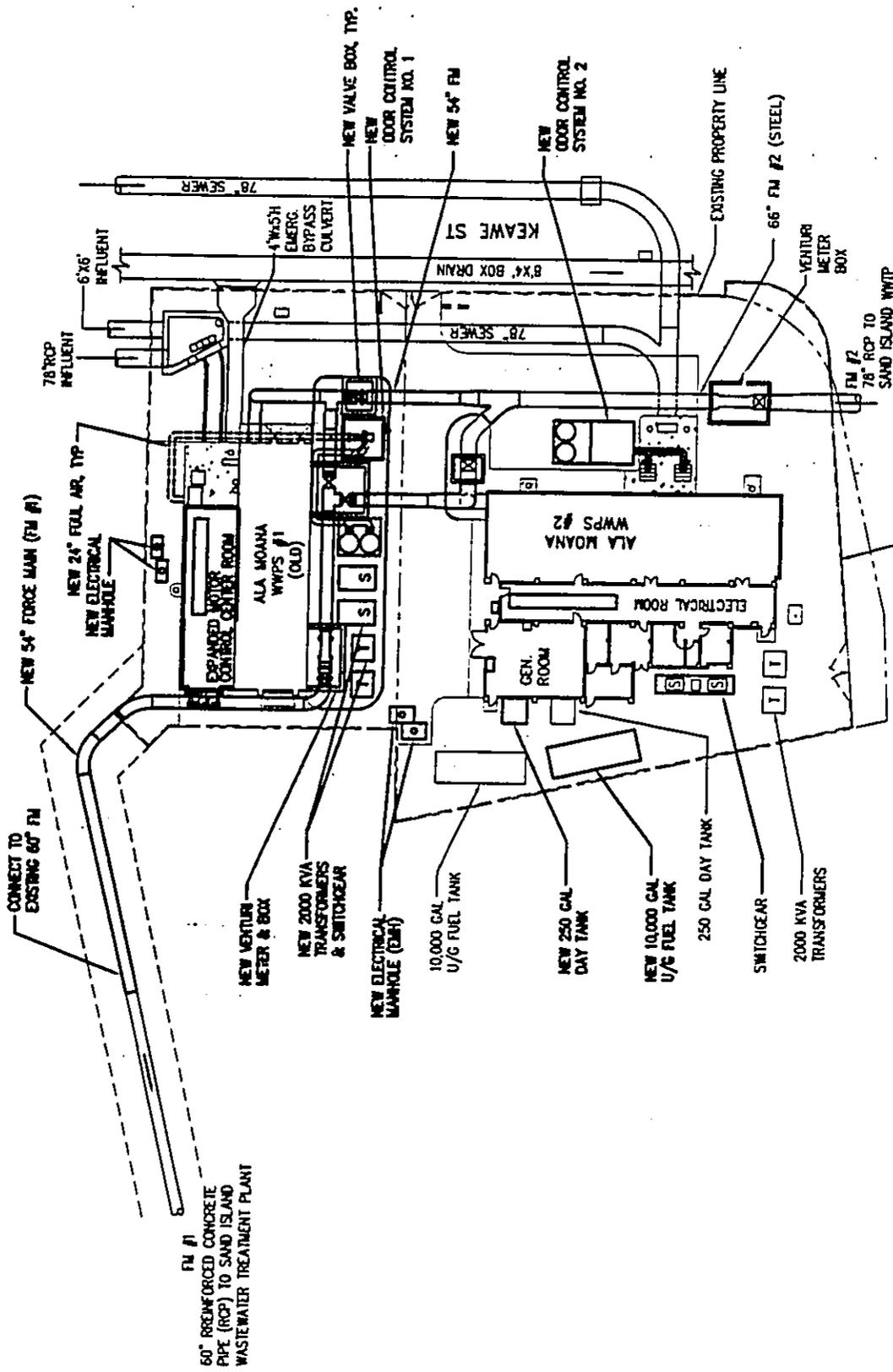
2.3.1 PROJECT SCHEDULE

Phase 1 of the project is expected to proceed in accordance with the following schedule:

Completion of design phase	March 2002
Start of construction	October 2002
Completion of construction	October 2004

2.3.2 ESTIMATED COSTS

The estimated construction cost for Phase 1 of the proposed project is \$18,000,000. Annual operation and maintenance costs are estimated to be \$1,600,000.



PROPOSED PROPERTY LINE (APPROX)
FOR ILAO STREET EXTENSION

DIVISION OF INFRASTRUCTURE DESIGN AND ENGINEERING
DEPARTMENT OF DESIGN AND CONSTRUCTION

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Ala Moana WWS
Modifications
Figure 2.2-1
PROPOSED SITE PLAN
Kakaako, Honolulu, Oahu

R. M. TOWELL CORPORATION

SECTION 3 Description of Affected Environment

3.1 PHYSICAL ENVIRONMENT

3.1.1 CLIMATE

The climate in the general area is characterized by abundant sunshine, relatively constant temperatures, persistent trade winds, and moderate humidity. Temperatures range from 73 degrees Fahrenheit (° F) in the winter to 81° F in the summer. Annual rainfall averages approximately 23 inches with the greatest amount occurring between the months of November and April. Trade winds from the northeast prevail throughout most of the year. Relative humidity ranges from 56 to 72 percent.

3.1.2 TOPOGRAPHY

The project site is virtually flat with ground elevations ranging from 5 to 6 feet mean sea level (msl). The site has been previously modified for construction of the existing facilities.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on the topography of the area. Minimal earthwork will be required to accommodate the proposed facilities.

3.1.3 SOILS AND GEOLOGY

The project site is classified as "Fill land, mixed (FL)" by the U.S. Department of Agriculture, Soil Conservation Service (USDA, 1972). This land type consists of areas filled with material dredged from the ocean or hauled from nearby areas, garbage, and general material from other sources. The site is underlain by a layer of soft lagoonal deposits made of sand, silt, and clay. These deposits cover a coral layer occurring between -5 and -20 feet msl.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on soils and geology. The proposed project will involve very little grading as the site is relatively flat. Erosion control programming will minimize the erosion potential of areas disturbed during construction.

3.1.4 HYDROLOGY

South Oahu's coastal plain is underlain by sedimentary deposits that extend 800 to 900 feet below sea level. These deposits form a caprock which retards the seaward movement of fresh groundwater. Groundwater occurs at mean sea level with some tidal fluctuation. The underlying groundwater is not considered a drinking water source. The site is on the ocean side (makai) of the Underground Injection Control line. There are no perennial streams or well-defined water courses in the area.

SECTION 3 - Description of Affected Environment

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on hydrology. Implementation of appropriate Best Management Practices (BMPs) will minimize the impacts of construction dewatering and disposal of hydrotesting water. Drainage patterns will not change substantially as the majority of the proposed improvements will be modifications to existing facilities.

FLOODS AND TSUNAMI

Flood Insurance Map (September 1990) shows that the project site is situated in Special Hazard Area Zone X. Areas designated as Zone X are determined to be outside the 500-foot flood plain. The project site is not in a tsunami evacuation zone (Oahu Civil Defense Evacuation Zone Maps, 1997-1998).

Impacts and Mitigative Measures

The project site is not in an area that is prone to flooding or in a tsunami evacuation zone.

1.6 FLORA AND FAUNA

The project is located in a highly altered urban environment. No rare or endangered flora and fauna are known to inhabit the project site. Existing flora at the site consists of introduced species.

Impacts and Mitigative Measures

No adverse impacts on flora and fauna are anticipated. No rare or endangered flora and fauna are known to inhabit the project site.

3.1.7 WATER QUALITY

Nearshore coastal waters from Ala Moana Beach to the east entrance channel of Honolulu Harbor are designated as "Class A" by the Department of Health, State of Hawaii (DOH) while Honolulu Harbor is designated a "Class A" embayment. Waters designated "Class A" are to be protected for recreational uses, aesthetic enjoyment, and propagation of marine life. The proposed project does not involve discharge of wastewater into nearshore waters.

Impacts and Mitigative Measures

No adverse impacts on water quality are anticipated. The project site is approximately 1,500 feet from nearshore waters. The proposed project will reduce the potential for wastewater spills by increasing the pumping capacity of the facility. Implementation of appropriate Best Management Practices (BMPs) will minimize the impacts of construction dewatering and disposal of hydrotesting water. Good housekeeping practices will be followed during construction activities and during normal pump station operations to minimize the potential for storm water runoff becoming contaminated by sewage or other substances. Storm water management measures will include:

- maintaining a clean and orderly facility including designated storage and vehicle areas;
- maintaining a materials management plan including labeling, inventory, and material information; and,

SECTION 3 - Description of Affected Environment

- maintaining a spill response plan and on-site containment and clean-up materials.

3.1.8 AIR QUALITY

Automobile emissions from traffic along Ala Moana Boulevard are the major source of air pollution in the area. Despite the urban/industrial character of the Kakaako Community District and Honolulu Harbor, the present ambient air quality in the project area is generally considered good due to the prevailing northeasterly tradewinds and the absence of "heavy" industries. However, during Kona (southerly and southwesterly) wind conditions, a buildup of particles could occur in the general project area.

Facilities exposed to wastewater are currently sealed to prevent the escape of odors. Foul air within these spaces is removed and treated before being released to the atmosphere. There have been two recorded odor complaints. The first occurred in 1988, and the second occurred in 1992. Both were attributed to manholes that had been opened for maintenance.

The proposed project will be equipped with two diesel-powered generators capable of automatically providing back-up power during a commercial power outage. These generators are operated and tested periodically.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on air quality. Construction activities may result in short-term air quality impacts. To mitigate these impacts, the Contractor will be required to follow State and City dust control regulations.

Long-term impacts are a result of wastewater's potential for generating odors. The proposed project includes new odor control systems utilizing activated carbon absorption. Wastewater entering the pump station will be collected in a sealed, lined, wet-well. Exhaust fans will draw the foul air out of the air space in the wet-well and discharge it into the activated carbon units for treatment. The treated air is then released to the atmosphere.

The proposed odor control system will use four vessels each containing roughly 3,800 pounds of activated carbon. The system will maintain a negative pressure differential to prevent the escape of fugitive emissions. Activated carbon absorbs a variety of odorous compounds including hydrogen sulfide (H₂S), the most common odorous gas found in wastewater collection and treatment systems. It is estimated that the carbon will require regeneration twice a year by means of a water wash, and replacement every two years.

The new odor control systems will provide a significant increase in treatment capacity relative to the existing system and will minimize long-term impacts on air quality. Emission rates from the odor control system will be kept below the exempt amounts established in HAR, Chapter 11-60, "Air Pollution Control". The Department of Health will verify emission rates when an application is made to obtain an air pollution permit for the project. It should be noted that the risk of odors can be minimized but not eliminated.

SECTION 3 - Description of Affected Environment

Prior to the installation of the underground fuel tank for the diesel-powered generators, a "Flammable/Combustible" tank permit application will be submitted to the City and County Fire Prevention Bureau to ensure that the installation is in compliance with Article 79 of the Fire Code.

The generators will be used only during power outages or equipment maintenance and testing. The generators will be tested weekly with each test lasting approximately 2 hours. If operated only during power outages or equipment maintenance and testing, the generators will be exempt from the requirements of Hawaii Administrative Rules (HAR), Chapter 11-60, "Air Pollution Control".

3.1.9 NOISE

Background ambient noise was measured in October 1994 at various locations around the perimeter of the project site. The daytime noise measurements indicated that background ambient noise ranged from 55 to 62 dBA. Specific sources of background noise were not identified. DOH allowable noise levels for apartment and business land uses are 60 dBA and 50 dBA for daytime and nighttime periods, respectively.

Impacts and Mitigative Measures

Short-term noise impacts are related primarily to construction activities. To mitigate short-term construction related impacts, compliance with the provisions of HAR, Chapter 11-46, "Community Noise Control", and Chapter 11-42, "Vehicular Noise Control for Oahu" will be required. Noise abatement measures will include equipping all internal combustion engines with muffling devices. The contractor will obtain a noise permit from the Department of Health if noise levels from construction activities are expected to exceed the allowable levels.

Long-term noise impacts would generally be attributed to operation of the wastewater pumps, the odor control systems, and the emergency generators. Potential adverse noise impacts will be minimized by housing the odor control fans in acoustically treated enclosures and acoustically treating the generator room. Acoustical treatments will include the following: silenced inlet and discharge air openings, interior wall and ceiling finish insulation, sound rated door assemblies, and two exhaust mufflers installed in series. Further details on noise mitigation measures will be developed during detailed design.

3.2 SOCIO-ECONOMIC ENVIRONMENT

3.2.1 LAND USE

The present general mix of land uses in the area consists of: maritime uses, car dealerships, light industrial, public facilities, commercial office, and parks.

The project site lies within the State jurisdictional boundary of the Makai Area of the Kakaako Community Development District (KCDD). Planning and redevelopment in the KCDD is initiated and guided by the Hawaii Community Development Authority (HCDA). The Makai Area Plan shows that the project site is zoned "Public (PU)". The surrounding area is zoned "Commercial (C)".

SECTION 3 - Description of Affected Environment

Planned development in the area surrounding the pump station includes the new University of Hawaii Medical School and Cancer Research Center, the Bishop Museum Science and Technology Center, and a new aquarium to be developed at Point Panic. These developments are planned as generators to attract private biomedical and high-tech companies to establish operations at Kakaako.

Impacts and Mitigative Measures

Construction activities will have short-term impacts on surrounding land uses. A portion of the force main will be replaced and an off-site flow meter relocated to the project site. DDC will obtain approval and right-of-entry from HCDA for access to its lands. To mitigate short-term construction related impacts, the Contractor will be required to follow applicable State and City erosion, dust, odor, spill bypass, and noise control regulations and implement appropriate BMPs. Relocation of the flow meter will be a benefit to the adjacent property.

The proposed WWPS improvements are not planned to be an impetus to growth and are not expected to have significant long-term adverse impacts on current or future land uses in the area. Rather, the expanded capacity of the pump station will help ensure that the City is able to provide adequate wastewater service to meet increased demand from a growing population. Proposed improvements to the Ala Moana WWPS are designed to meet the service demands of projected population growth in Eastern Honolulu to the year 2020. Although wastewater flows were not calculated specifically for the proposed development in Kakaako, future service demand in Kakaako is accounted for in the general population growth projections.

Mitigative measures will be taken to minimize potential odor, noise, and visual impacts. New odor control systems will significantly reduce the risk of odor nuisance. Extensive acoustical treatments will minimize noise levels at the property lines. Landscaping and the refurbishment of the exterior of WWPS #1 will minimize adverse visual impacts on surrounding areas.

Should the adjacent historic site (Site no. 80-14-9710) be leased from the State of Hawaii, the Lessee(s) will be made aware that the adjacent Ala Moana Wastewater Pump Station may emit fugitive odors and noise which could adversely impact operations. In addition to the mitigative measures being adopted for the proposed project, the lessee will be encouraged to take appropriate measures, as needed, such as enclosing the building and providing air conditioning to mitigate potential adverse odor and noise impacts.

3.2.2 CULTURAL, HISTORIC AND ARCHAEOLOGICAL RESOURCES

Proposed modifications will occur within the existing WWPS facility which is intensively developed and located atop a coral landfill. The project site is not used for resource gathering for cultural purposes. No native flora or fauna are known to exist at the project site. Proposed structures do not intrude on any existing view plains, are not visible from the ocean, and do not obstruct any natural features or landmarks. There are no known archaeological sites within the proposed project site. The project site has been previously disturbed for construction of the existing Ala Moana WWPS.

SECTION 3 - Description of Affected Environment

There are two buildings to the northeast (mauka) of the project site that are identified on the Hawaii and National Register of Historic Places (Site No. 80-14-9710). Both structures were used for housing wastewater pumping machinery. The buildings are associated with Honolulu's first professionally designed sewage disposal system. According to the Kakaako Community Development District Makai Area Plan, these historic buildings are considered to have "high" preservation potential, historic significance and can be feasibly maintained and sustained in their present condition.

Impacts and Mitigative Measures

No cultural impacts are anticipated from the proposed project.

The function of the historic structures were replaced by this project's existing City and County of Honolulu Ala Moana WWPS. The proposed expansion to the existing facility is consistent with preserving the original pump station's cultural significance and role in the historic development of the Honolulu Waterfront.

The proposed project is not expected to have a significant impact on the two historic structures. In the event that evidence of cultural remains are uncovered during the course of the proposed project, work in the immediate area will cease and the appropriate government agencies contacted for further instructions.

3.2.3 SCENIC AND VISUAL RESOURCES

The surrounding structures and flat topography limit views from the project site. There are limited mountain views and no ocean view.

Impacts and Mitigative Measures

There will be no significant visual impacts associated with the proposed WWPS modifications. The project will take place within the existing WWPS property. The architectural and landscaping features of the proposed facilities will be designed to minimize visual impacts and blend in with the surrounding area.

3.2.4 RECREATIONAL FACILITIES

There are no recreational facilities in the vicinity of the proposed project site.

3.2.5 ACCESS FOR PERSONS WITH DISABILITIES

The Americans with Disabilities Act (ADA) is a wide-ranging civil rights statute that prohibits discrimination against people with disabilities.

Impacts and Mitigative Measures

General areas will be designed for accessibility in accordance with Americans with Disabilities Act Accessibility Guidelines (ADAAG). However, mechanical areas will not be made accessible for the handicapped as the project will be staffed by only able bodied personnel. The construction documents will be submitted to the Commission on Persons with Disabilities for review and comments.

SECTION 3 - Description of Affected Environment

3.2.6 ECONOMY

The Kakaako area is undergoing redevelopment to upgrade aging streets, utilities and buildings. Redevelopment of the area is proceeding under the direction of HCDA. The principles guiding the redevelopment of Kakaako are reflected in the following excerpts from the Makai Area Plan:

- "The overall vision for the Makai Area is to create an active, vibrant area through a variety of new developments ..."
- "The Makai Area of Kakaako has the potential to generate tremendous public benefits for the community."
- "The Makai Area must be seen as an opportunity to lead the State in new economic directions."

Impacts and Mitigative Measures

The proposed project is not expected to have adverse economic impacts. In the short term, construction activities will stimulate jobs and generate revenue in the community. In the long-term, the proposed infrastructure improvements will provide one of the basic services needed to support development efforts in the area. The pump station will not adversely effect the proposed development of the University of Hawaii Medical School and high-tech park at Fort Armstrong.

3.2.7 POPULATION

The study area is located within the Primary Urban Center district and the Kakaako Community Development District on the Island of Oahu. According to the State of Hawaii, Department of Business, Economic Development and Tourism, the 1990 residential and de facto populations of the City and County of Honolulu were 838,200 and 912,100, respectively, and are projected to increase to 1,050,600 and 1,130,600, respectively, by the year 2010 (The State of Hawaii 1996 Data Book, Statistical Abstract).

Impacts and Mitigative Measures

The proposed project is not expected to have significant adverse impacts on population. The proposed infrastructure improvements provide one of the basic services needed to support the planned development efforts in the area.

3.3 INFRASTRUCTURE SYSTEMS AND SERVICES

3.3.1 TRAFFIC AND TRANSPORTATION SYSTEMS

The project site is accessed via Keawe Street and is approximately 300 feet south (makai) of Ala Moana Boulevard. Keawe Street is one of several streets which convey north-south traffic in the Kakaako area. Ala Moana Boulevard provides the primary regional access to Kakaako.

The Honolulu Community Development Authority Makai Area Plan includes transportation system improvements for cars and public transportation, bicycles, and pedestrians. Ilalo Street is proposed as the principal collector street for the Makai Area. The west extension of Ilalo Street begins at the Punchbowl Street-Ala Moana Boulevard intersection and connects to the existing Keawe Street-Ilalo Street intersection. Keawe Street will be realigned to match the northern (mauka) intersection of Keawe Street and Ala Moana Boulevard.

SECTION 3 - Description of Affected Environment

Impacts and Mitigative Measures

The proposed project is not expected to have significant adverse impacts on traffic. This project will add an insignificant number of vehicular trips and will not change the existing traffic system. However, construction related activities may have short-term traffic impacts. To mitigate these impacts, the Contractor will be required to follow State and City traffic control regulations. The proposed Ilalo Street extension is reflected in the site layout. Construction and traffic control plans for all work within the City's right-of-way will be submitted to the City Department of Planning and Permitting for review and approval.

3.3.2 POTABLE WATER SYSTEM

Potable water is provided to the project site by a 4-inch lateral from an 8-inch Board of Water Supply (BWS) water line in Keawe Street. Daily water usage consists of sanitary fixtures, landscape irrigation, washdown and other maintenance purposes. Additional water is needed on an intermittent basis for wet well cleaning and maintenance of the odor control system.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on the potable water system. Daily water demands are not expected to increase significantly. Continued availability of potable water is anticipated.

3.3.3 DRAINAGE SYSTEM

Runoff from the project site flows toward a drain inlet on the Keawe Street side of the site. The drain inlet is connected to the 8-ft by 4-ft box drain in Keawe Street. The box drain conveys runoff to the ocean. Drainage system improvements for the Makai Area include an 8-ft by 2.5-ft box drain in Keawe Street.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on the drainage system. Drainage patterns will not change substantially as the majority of the proposed improvements will be modifications to existing facilities. Implementation of appropriate Best Management Practices (BMPs) will minimize the impacts of construction dewatering and disposal of hydrotesting water.

3.3.4 WASTEWATER SYSTEM

Wastewater from the service area is conveyed to the Ala Moana WWPS and pumped through two force mains to the Sand Island WWTP for treatment and disposal. Should incoming wastewater flows exceed the pumping capacity of the WWPS, the excess flow would be diverted to a 4-ft by 5-ft emergency bypass culvert connected to the box drain in Keawe Street and discharged into the ocean. Any unintentional or intentional discharge of wastewater from the wastewater system at any point other than the predetermined discharge point is considered a wastewater spill. Depending on quantity and location, a wastewater spill may have to be reported to the Department of Health, Clean Water Branch.

Impacts and Mitigative Measures

The proposed project will reduce the potential for wastewater spills by increasing pumping capacity and improving station reliability. Facility upgrades include: installation

SECTION 3 - Description of Affected Environment

of higher capacity pumping units, an additional emergency generator, and improvements to the electrical system.

3.3.5 ELECTRICAL AND COMMUNICATIONS SYSTEMS

The electrical power and communications utilities which serve Kakaako are privately owned by Hawaiian Electric Company and Verizon Hawaii Incorporated. Electrical power is supplied to the project site by overhead service lines along Keawe Street. Pad-mounted transformers step down HECO's 11.5 KV power to 480/277V power. In event of a commercial power outage, emergency generators will start and essential loads automatically transferred to emergency power.

A new electrical system will serve the renovated WWPS #1. Two pad-mounted transformers will be served by two sets of underground cables run from two separate riser poles. The existing 2,000 KW generator will be disconnected from WWPS #2 and connected to WWPS #1.

The principal upgrade to the electrical system of WWPS #2 will be installation of a 2,200 KW generator. The two existing pad-mounted transformers have adequate capacity to support the modifications to WWPS #2.

Impacts and Mitigative Measures

The HECO system has adequate service capacity to meet the projected power requirements of the proposed project. Input line reactors and filters will be installed if required to limit harmonic distortion imposed on the HECO system and the pump station's electrical system. The proposed electrical system and generator upgrades will improve station reliability and reduce the risk of wastewater spills.

3.3.6 SOLID WASTE DISPOSAL SYSTEM

Solid waste generated at the project site is collected by the Department of Environmental Services, City and County of Honolulu and transported to the City's H-Power facility for disposal.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on the solid waste disposal system. The proposed improvements should not have a significant effect on the amount of solid waste generated at the facility.

3.3.7 FIRE, POLICE AND MEDICAL SERVICES

Police protection services are provided by the Honolulu Police Department. Fire protection service is provided through the Honolulu Fire Department's Kakaako, Pawaa, and Central stations. Major medical services in the vicinity of Kakaako include the Queen's Medical Center on Punchbowl Street, Straub Clinic and Hospital at the intersection of King Street and Ward Avenue, and the Kaiser Permanente Medical Center on Kapiolani Boulevard.

Impacts and Mitigative Measures

The proposed project is not expected to have a significant impact on fire, police and medical services.

SECTION 4 Relationship to State and County Land Use Plans and Policies

4.1 HAWAII STATE PLAN

The Hawaii State Plan, Chapter 226, Hawaii Revised Statutes, serves as a written guide for the future long range development of the State. The Plan identifies statewide goals, objectives, policies, and priorities.

The proposed project would be in conformance with the State Plan's objectives and policies for facility systems. According to Section 226-14, Objectives and policies for facility systems-in general, and Section 226-15, Objectives and policies for facility systems-solid and liquid wastes, the following policies would apply to the proposed project:

- §226-14 Objectives and policies for facility systems-in general:
- (a) Planning for the State's facility systems in general shall be directed towards achievement of the objective of water, transportation, waste disposal, and energy and telecommunication systems that support statewide social, economic, and physical objectives.
- §226-15 Objectives and policies for facility systems-solid and liquid wastes:
- (a)(1) Maintenance of basic public health and sanitation standards relating to treatment and disposal of solid and liquid wastes.
- (2) Provision of adequate sewerage facilities for physical and economic activities that alleviate problems in housing, employment, mobility, and other areas.

4.2 STATE LAND USE LAW

The project site lies within the state land use category "urban".

4.3 KAKAAKO COMMUNITY DEVELOPMENT PLAN

The Hawaii Community Development Authority (HCDA) was established in 1976 by the State Legislature to initiate and guide the revitalization of urban communities in the State. Kakaako was selected as the first HCDA community development district. Development guidance policies were established by the State Legislature to provide the planning basis for the Kakaako District and the Makai Area. The proposed modifications to the existing wastewater pump station will be in compliance with the land use plan of the community development district.

**SECTION 4 - Relationship to State & County Land
Use Plans and Policies**

4.4 CITY AND COUNTY ZONING

The proposed site is located within the Kakaako Community Development District (KCDD) and is not zoned by the City and County of Honolulu.

4.5 CITY AND COUNTY GENERAL PLAN & DEVELOPMENT PLAN

The General Plan identifies the long-range planning goals and objectives which the City and County of Honolulu attempts to accomplish in the interest of Oahu residents. The proposed project is in conformance with the General Plan's objectives and policies for Transportation and Utilities:

Objective B: To meet the needs of the people of Oahu for an adequate supply of water and for environmentally sound systems of waste disposal.

Policy 5: Provide safe, efficient, and environmentally sensitive waste-collection and waste-disposal services.

The Development Plan Land Use Designation is Public Facility.

4.6 SPECIAL MANAGEMENT AREA (SMA) RULES AND REGULATIONS

The project site is within the Special Management Area (SMA). SMA areas are defined as sensitive environments that should be protected in accordance with the State's coastal zone management policies. Since the project lies in the SMA of the KCDD and has a total construction cost in excess of \$125,000.00, approval of a SMA Use Permit (SMP) is required from the Office of Planning, Department of Business, Economic Development and Tourism, State of Hawaii.

SECTION 5 Alternatives to Proposed Action

5.1 NO ACTION

"No action" is not considered a feasible alternative. The "no action" alternative will increase the risk of spills from the wastewater system. The existing WWPS cannot handle current projected peak flows without using the standby pump. The increase in head requirements associated with the upcoming Sand Island WWTP expansion will result in a reduction in the pumping capacity of the existing pump station. The proposed project will increase the pumping capacity of the Ala Moana WWPS and enable it to accommodate projected increases in flow and the additional head requirements of future expansions to Sand Island WWTP.

5.2 DEMOLISH WWPS #1, CONSTRUCT NEW WWPS #3

The principal components of this alternative are as follows:

- Demolish existing WWPS #1
- Construct new WWPS #3
- Replace or modify pumps in existing WWPS #2
- WWPS #2 and WWPS #3 operate as primary facilities together

WWPS #1 must be demolished before construction begins on WWPS #3 as no land is available for siting WWPS #3 other than the area currently occupied by WWPS #1. An upgraded WWPS #2 cannot convey the projected peak flows by itself. The Ala Moana WWPS would have a significant capacity deficiency for the estimated two-year period needed to construct the new WWPS #3. This is not desirable as WWPS #1 has been required to supplement WWPS #2 during wet weather conditions.

5.3 DEMOLISH WWPS #1, UPGRADE WWPS #2

The principal components of this alternative are as follows:

- Replace pumps in existing WWPS #2
- Demolish existing WWPS #1
- WWPS #2 operate as primary facility

This is not a feasible alternative as the pumps needed to convey the projected peak flows will not fit in the dry well of the existing WWPS #2.

SECTION 6 Necessary Permits and Approvals

6.1 CITY AND COUNTY OF HONOLULU

The following permits are required by the City and County of Honolulu:

- *Building Permit* - Department of Design and Construction
- *Construction Dewatering Permit* - Department of Design and Construction
- *Combustible and Flammable Liquids Tank Installation Permit* - Honolulu Fire Department
- *Grading, Grubbing, Excavation and Stockpiling Permits* - Department of Design and Construction
- *Street Usage Permit* - Department of Planning and Permitting

The following approvals are required by the City and County of Honolulu:

- *Flood Determination in General Flood Plain District* - Department of Planning and Permitting
- *Work Within City Right-of-Way* - Department of Planning and Permitting
- *Landscaping Plan* - Department of Planning and Permitting
- *Board of Water Supply*
- *Infrastructure Design and Approval* - Department of Transportation Services

6.2 STATE OF HAWAII

The following permits are required by the State of Hawaii:

- *Kakaako Community Development District* - Hawaii Community Development Authority
- *NPDES Permit for Construction Related Discharges* - Department of Health
- *Special Management Area (SMA) Use Permit* - Office of State Planning

The following approvals/review are required by the State of Hawaii:

- *Air Pollution Control* - Department of Health
- *Archaeological Review* - Department of Land and Natural Resources
- *Community Noise Control* - Department of Health
- *Wastewater Systems* - Department of Health
- *Commission on Persons with Disabilities*

6.3 FEDERAL AGENCIES

The proposed action does not require Federal permits or approvals.

SECTION 6 - Necessary Permits and Approvals

6.4 UTILITY COMPANIES

Construction documents will be reviewed by the following utility companies:

- Hawaiian Electric Company
- Verizon Hawaii Incorporated

SECTION 7

Organizations and Agencies Consulted During the EA Preparation Period

A pre-assessment review of the project was solicited. The organizations and agencies contacted are listed below and their comments are included in Appendix A. Since the pre-assessment review of this project, significant changes have been made to the design of this project. This document has been revised in accordance with these changes in design and the comments received during the pre-assessment review.

7.1 CITY AND COUNTY OF HONOLULU

- Board of Water Supply
- Department of Environmental Services
- Department of Planning and Permitting
- Department of Transportation Services
- Fire Department
- Police Department

7.2 STATE OF HAWAII

- Disability and Communication Access Board
- Department of Accounting and General Services
- Department of Business, Economic Development and Tourism
 - Office of Planning
- Department of Hawaiian Home Lands
- Department of Health
 - Environmental Planning Office
 - Office of Environmental Quality Control
- Department of Land and Natural Resources
 - Historic Preservation Division
 - Land Division
- Department of Transportation – Harbors Division
- Hawaii Community Development Agency
- University of Hawaii
 - Environmental Center
 - Water Resources Research Center

7.3 FEDERAL AGENCIES

- Department of the Army, Corps of Engineers

**SECTION 7 - Organizations and Agencies Consulted
During the EA Preparation Period**

7.4 GOVERNMENT OFFICIALS

Representative Kenneth T. Hiraki
Senator Rod Tam
The Honorable Andy Mirikitani
The Honorable Jon Yoshimura

7.5 UTILITY COMPANIES

Verizon Hawaii Incorporated
Hawaiian Electric Company, Inc.

7.6 PRIVATE ORGANIZATIONS / INDIVIDUALS

Ala Moana / Kakaako Neighborhood Board No. 11
Life of the Land
Sierra Club

SECTION 8 Determination

The potential effects of the proposed project are evaluated based on the significance criteria in section 11-200-12 (Hawaii Administrative Rules, revised in 1996). The following is a summary of the potential effects of the action.

- (1) **Involves an irrevocable commitment to loss or destruction of any natural or cultural resource:**

Development of the project will involve the irrevocable loss of certain environmental and financial resources. However, the costs associated with the use of these resources should be evaluated in light of recurring benefits gained through the increased capacity and reliability of the upgraded wastewater pumping facility.

- (2) **Curtails the range of beneficial uses of the environment:**

The project will not curtail the range of beneficial uses of the environment. The project will take place within the existing WWPS property.

- (3) **Conflicts with the state's long-term environmental policies or goals and guidelines as expressed in chapter 344, HRS:**

The project would be in conformance with Chapter 344, HRS, State Environmental Policy. The proposed project will increase the pumping capacity of the Ala Moana WWPS and enable it to accommodate projected increases in flow and the additional head requirements of the future expansion of the Sand Island WWTP. By increasing pumping capacity and improving station reliability, the project will reduce the risk of wastewater spills.

- (4) **Substantially affects the economic or social welfare of the community or State:**

The proposed modifications to the Ala Moana WWPS are not anticipated to have significant effects on the area's economic activities or the social welfare of the community or state.

- (5) **Substantially affects public health:**

The existing WWPS cannot handle current projected peak flows without using the standby pump. The proposed project will increase the pumping capacity of the Ala Moana WWPS and enable it to accommodate projected increases in flow and the additional head requirements of the future expansion of the Sand Island WWTP. The proposed project is not anticipated to have substantial adverse effects on public health. The facilities to be constructed at the Ala Moana WWPS will reduce the risk of wastewater spills.

SECTION 8 - Determination

- (6) **Involves substantial secondary impacts, such as population changes or effects on public facilities:**
- The project is not anticipated to result in substantial secondary impacts, such as population changes or effects on public facilities.
- (7) **Involves a substantial degradation of environmental quality:**
- The proposed project is not anticipated to involve a substantial degradation of environmental quality. The project requires very minimum clearing and grubbing. In addition, the site has been disturbed for the construction and operation of the existing facilities, and the surrounding area has been highly modified.
- (8) **Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions:**
- The project is not anticipated to result in cumulative effects; therefore, it would not involve a commitment to larger actions.
- (9) **Substantially affects a rare, threatened, or endangered species, or its habitat:**
- The proposed project is not anticipated to have substantial effects on rare, threatened, or endangered species, or their habitats. Since the area has been modified over time, it is not likely that rare, threatened, or endangered species will be encountered.
- (10) **Detrimentially affects air or water quality or ambient noise levels:**
- The project is not anticipated to result in significant adverse effects on the area's long-term air or water quality or ambient noise levels.
- (11) **Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters:**
- The project site is not in the 500-year flood plain and is not in a tsunami evacuation zone. The proposed improvements will not alter existing drainage patterns or shoreline configurations.
- (12) **Substantially affects scenic vistas and viewplanes identified in county or states plans or studies:**
- The Ala Moana WWPS modification will not significantly affect the area's visual resources.
- (13) **Requires substantial energy consumption:**
- The proposed ventilation and air conditioning system in WWPS #1 will increase power use at the facility, but will not result in a substantial increase in energy consumption. The HECO system has adequate service capacity to meet projected power requirements.

SECTION 8 - Determination

In accordance with the provisions set forth in Chapter 343, Hawaii Revised Statutes, this Environmental Assessment has determined that the project will not have significant adverse impacts to the natural, built, or social environment. Therefore, it is recommended that an Environmental Impact Statement (EIS) not be required and a Finding of No Significant Impact (FONSI) be issued for this project.

APPENDIX A

**COMMENTS AND RESPONSES TO THE
DRAFT ENVIRONMENTAL ASSESSMENT**



DEPARTMENT OF THE ARMY
U. S. ARMY ENGINEER DISTRICT, HONOLULU
FT. SHAFTER, HAWAII 96858-5440

00-2362

REPLY TO
ATTENTION OF

November 14, 2000

NOV 16 0

Regulatory Branch

Mr. Edmund Lung
Wastewater Design & Engineering Division
Department of Design & Construction
City and County of Honolulu
650 South King Street, 14th Floor
Honolulu, Hawaii 96813

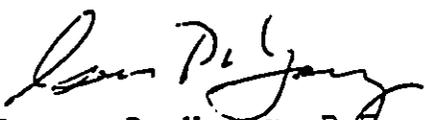
Dear Mr. Lung:

This responds to your request for review of the Draft Environmental Assessment (DEA) for the proposed Ala Moana Wastewater Pump Station Modification, Kakaako, Honolulu, Hawaii (TMK 2-1-15: 22, 23).

As noted in our previous comments which are included in the DEA (letter dated March 5, 1997), a Department of the Army permit is not required.

Should you have any questions regarding this response, please contact Peter Galloway of my staff (telephone 438-8416; fax 438-4060). File number 200100024 has been assigned to this project.

Sincerely,


George P. Young, P.E.
Chief, Regulatory Branch

Copies Furnished:
Clean Water Branch, State of Hawaii Department of Health,
P.O. Box 3378, Honolulu, HI 96801-3386
State of Hawaii, Department of Land and Natural Resources,
Commission on Water Resource Management, P.O. Box 621,
Honolulu, HI 96809

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



R. M. TOWILL CORPORATION
SINCE 1930

Planning
Engineering
Environmental Services
Photogrammetry
Surveying
Construction Management

September 6, 2001

ACOE File No. 200100024
RMTC File No. 1-17701-4E

Mr. George P. Young, P.E., Chief
Regulatory Branch
Department of the Army
Honolulu District, Corps of Engineers
Fort Shafter, HI 96858

Dear Mr. Young:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 14, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification.

We note your comment that a Department of the Army permit is not required for this project.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HAWAII 96843



November 17, 2000

JEREMY HARRIS, Mayor

EDDIE FLORES, JR., Chairman
CHARLES A. STED, Vice Chairman
JAN M.L.Y. AMI
HERBERT S.K. KAOPUA, SR.
BARBARA KIM STANTON.

KAZU HAYASHIDA, Ex-Officio
ROSS S. SAGAMURA, Ex-Officio

CLIFFORD S. JAMILE
Manager and Chief Engineer

TO: GARY YEE, DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTN: EDMUND LUNG

FROM: FOR CLIFFORD S. JAMILE

SUBJECT: YOUR TRANSMITTAL OF OCTOBER 23, 2000 REGARDING THE DRAFT ENVIRONMENTAL ASSESSMENT FOR THE ALA MOANA WASTEWATER PUMP STATION MODIFICATION, TMK: 2-1-15: 22 AND 23

Thank you for the opportunity to review and comment on the Draft Environmental Assessment for the proposed modifications to the Ala Moana Wastewater Pump Station.

We have the following comments to offer:

1. The existing water system is presently adequate to accommodate the proposed wastewater pump station improvements.
2. There is an existing 2-inch water meter currently serving the Ala Moana Wastewater Pump Station. A Board of Water Supply (BWS) approved Reduced Pressure Principle Backflow Prevention Assembly is installed on this meter in accordance with BWS standards.
3. The availability of water will be confirmed when the building permit application is submitted for our review and approval. If water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.
4. If a three-inch or larger meter is required, the construction drawings showing the installation of the meter should be submitted for our review and approval.
5. A BWS approved Reduce Pressure Principle Backflow Prevention Assembly will be required to be installed after any new domestic water meter serving the Ala Moana Wastewater Pump Station site.

If you have any questions, please contact Scot Muraoka at 527-5221.

cc: Leighton Lum, R.M. Towill Corporation

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
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eMail rmtowill@hawaii.rr.com



Planning
Engineering
Environmental Services
Photogrammetry
Surveying
Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Mr. Clifford S. Jamile, Chief Engineer
Board of Water Supply
City & County of Honolulu
630 S. Beretania Street
Honolulu, HI 96813

Dear Mr. Jamile:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 17, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. The Department of Design and Construction will ensure that project design and pump station operation following project completion comply with all Board of Water Supply requirements, as noted in your letter, for water system facilities usage.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D.; P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

00-2261
12



BENJAMIN J. CAYETANO
GOVERNOR

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810

NOV -1 2000 (P) 1664.0
LETTER NO

OCT 31 2000

Mr. Edmund Lung
Wastewater Design & Engineering Division
Department of Design & Construction
City & County of Honolulu
650 S. King St., 14th floor
Honolulu, Hawaii 96813

Dear Mr. Lung:

Subject: Public Review of Draft Environmental Assessment
(DEA) for Ala Moana Wastewater Pump Station
Modification

Thank you for the opportunity to review the Draft EA for the
subject project.

The proposed project does not impact any of our facilities,
therefore, we have no comments to offer.

Should you have further questions regarding the above,
please have your staff call Mr. Bruce Bennett of the Planning
Branch at 586-0491.

Sincerely,

GORDON MATSUOKA
Public Works Administrator

BB:mo
c: R.M. Towill Corp
OEQC

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



R. M. TOWILL CORPORATION
SINCE 1930.

Planning
Engineering
Environmental Services
Photogrammetry
Surveying
Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Mr. Gordon Matsuoka
Public Works Administrator
Dept. of Accounting and General Services
State of Hawaii
P. O. Box 119
Honolulu, HI 96813

Dear Mr. Matsuoka:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated October 31, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification.

We note that you have no comments to offer at this time.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3378
HONOLULU, HAWAII 96801

BRUCE S. ANDERSON, Ph.D., M.P.H.
DIRECTOR OF HEALTH

In reply, please refer to:
File:

97-042A/epo

November 27, 2000

Mr. Gary Q.L. Yee
Department of Design and Construction
City and County of Honolulu
650 South King Street, 14th Floor
Honolulu, Hawaii 96813

Dear Mr. Yee:

Subject: Draft Environmental Assessment (DEA)
Project: Ala Moana Wastewater Pump Station (WWPS)
Modification
Location: Kakaako, Honolulu, Oahu, Hawaii
TMK: 2-1-15:22, 23

Thank you for allowing us to review and comment on the subject project. We have the following comments to offer:

Air Pollution

1. The following new equipment may require an air pollution permit, depending on the emissions and usage:
 - a. One (1) 2250 kW emergency generator; and
 - b. Two (2) odor control units, one each for WWPS #1 and WWPS #2.
2. The Final Environmental Assessment should address in more detail the mitigative measures that will be used to control odors.

If you have any questions regarding this matter, please contact the Clean Air Branch at 586-4200.

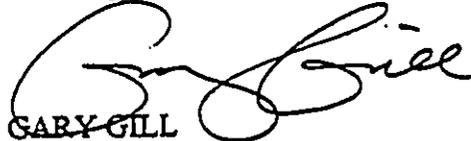
Mr. Gary Q.L. Yee
November 27, 2000
Page 2

Noise

1. Mitigative measures to reduce potential noise impacts from equipment such as Pumps, air conditioning systems and the 2250 kW emergency generator at the subject facility should be addressed in greater detail in the Final Environmental Assessment.
2. Construction activities must comply with the provisions of Hawaii Administrative Rules (HAR), Chapter 11-46, "Community Noise Control."
 - a. The contractor must obtain a noise permit if the noise levels from the Construction activities are expected to exceed the allowable levels of the regulations as stated in Section 11-46-6(a).
 - b. Construction equipment and on-site vehicles requiring an exhaust of gas or air must be equipped with mufflers as stated in Section 11-46-6(b)(1)(A).
 - c. The contractor must comply with the conditional use of the permit as specified in the regulations and conditions issued with the permit as stated in Section 11-46-7(d)(4).

Should there be any questions regarding these comments, please call Mr. Russell Takata, Environmental Health Program Manager of the Noise, Radiation and Indoor Air Quality Branch at 586-4701.

Sincerely,


GARY GILL
Deputy Director
Environmental Health Administration

c: CAB
NR&IAQB
R.M. Towill Corp.

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Mr. Gary Gill, Deputy Director
Environmental Health Administration
Department of Health, State of Hawaii
P.O. Box 3378
Honolulu, HI 96801

Dear Mr. Gill:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 27, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments we offer the following information:

Air Pollution

1. Operation of the proposed 2250 kW emergency generator and the two odor control units proposed for pump stations 1 and 2 will comply with all Department of Health air pollution regulations and permit requirements.
2. The Final EA, Section 3.1.8, Air Quality, will be revised to provide more detail about the mitigative measures that will be used in odor control.

Noise

1. The Final EA, Section 3.1.9, Noise, will be revised to provide more detail about the mitigative measures that will be used to control noise impacts.
2. Construction activities will comply with the provisions of Hawaii Administrative Rules (HAR), Chapter 11-46, "Community Noise Control".

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jnk\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

BENJAMIN J. CAYETANO
GOVERNOR



BRUCE S. ANDERSON, Ph.D., M.P.H.
DIRECTOR OF HEALTH

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. BOX 3378
HONOLULU, HAWAII 96801-3378

In reply, please refer to:
EMDC/CWB

11011PKP.00

November 6, 2000

Mr. Leighton W.K. Lum, Ph.D., P.E.
Chief Environmental Engineer
R.M. Towill Corporation
420 Waiakamilo Road, Suite 411
Honolulu, HI 96817-4941

Dear Mr. Lum:

Subject: Draft Environmental Assessment
Ala Moana Wastewater Pump Station Modification

The Department of Health, Clean Water Branch has reviewed your submittal dated October 2000 and has the following comments:

1. If the project involves any of the following discharges into State waters, a National Pollutant Discharge Elimination System (NPDES) general permit coverage is required for each activity:
 - a. Storm water runoff associated with construction activities, including clearing, grading, and excavation, that result in the disturbance of one acre or more but less than five acres if construction begins or continues after March 10, 2003;
 - b. Hydrotesting water; and
 - c. Construction dewatering effluent.
2. Precautions should be taken to prevent wastewater spills from occurring during construction.

The Department requires that Notices of Intent (NOI) for NPDES general permits be submitted thirty days before the discharge is to occur. NOI and instructions can be picked up at our office or downloaded from our website at <http://www.state.hi.us/doh/eh/cwb/forms/>.

Should you have any questions, please contact Ms. Kris Poentis, Engineering Section of the Clean Water Branch, at 586-4309.

Sincerely,

A handwritten signature in black ink, appearing to read "Denis R. Lau".

DENIS R. LAU, P.E. CHIEF
Clean Water Branch

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Mr. Dennis Lau, P.E. Chief
Clean Water Branch
Department of Health
State of Hawaii
P.O. Box 3378
Honolulu, HI 96801

Dear Mr. Lau:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 6, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments we offer the following information:

1. A National Pollutant Discharge Elimination System (NPDES) general permit will be obtained for any project-related discharges of storm water, hydrotesting water, and construction dewatering effluent into State waters.
2. Precautions will be taken to prevent wastewater spills from occurring during construction.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction

BENJAMIN J. CAYETANO
GOVERNOR



STATE OF HAWAII 00 DEC 12 2013
DEPARTMENT OF TRANSPORTATION
869 PUNCHBOWL STREET
HONOLULU, HAWAII 96813-5097



KAZU HAYASHIDA
DIRECTOR

DEPUTY DIRECTORS
BRIAN K. MINAII
GLENN M. OKIMOTO

IN REPLY REFER TO:

HWY-PS
2.1017

Mr. Edmund Lung
Wastewater Design & Engineering
Division
Department of Design & Construction
City and County of Honolulu
650 South King Street, 14th Floor
Honolulu, Hawaii 96813

Dear Mr. Lung:

Subject: Public Review of Draft Environmental Assessment for Ala Moana
Wastewater pump Station Modification

We have the following comments:

1. Applicant should coordinate this project with the Hawaii Community Development Authority (HCDA) Ilalo Street extension project.
2. If structures and other facilities occupied by our Harbors Division's tenants are affected in the area, our Harbors Division should be consulted at 587-1883.
3. Submittal of construction plans to our Highways division is required for any work done within Ala Moana Boulevard right-of-way.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Kazu Hayashida".

KAZU HAYASHIDA
Director of Transportation

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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September 6, 2001

RMTC File No. 1-17701-4E

Mr. Kazu Hayashida, Director
Department of Transportation
State of Hawaii
869 Punchbowl Street
Honolulu, HI 96813

Dear Mr. Hayashida:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated December 12, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments, we offer the following information:

1. The proposed modifications to the Ala Moana Wastewater Pump Station will be developed in compliance with the land use plan of the Kakaako Community Development District. Project activities will be coordinated with the Hawaii Community Development Authority Ilalo Street Extension Project.
2. Harbors Division will be consulted if structures or facilities occupied by Harbors Division's tenants are affected by the project.
3. Construction plans will be submitted to the Highways Division if any work is performed within the Ala Moana Boulevard right-of-way.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET • HONOLULU, HAWAII 96813
TELEPHONE: (808) 523-4414 • FAX: (808) 527-6743 • INTERNET: www.co.honolulu,hi.us

60-239
C

JEREMY HARRIS
MAYOR

NOV 21 2000



RANDALL K. FUJIKI
DIRECTOR
LORETTA K.C. CHEI
DEPUTY DIRECTOR

2000/CLOG-5690

November 20, 2000

MEMORANDUM

TO: GARY Q. L. YEE, DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTN: EDMUND LUNG
WASTEWATER DESIGN AND ENGINEERING DIVISION

FROM: *RK* RANDALL K. FUJIKI, AIA, DIRECTOR *Loretta Chei*
DEPARTMENT OF PLANNING AND PERMITTING

SUBJECT: ALA MOANA WASTEWATER PUMP STATION MODIFICATION DRAFT
ENVIRONMENTAL ASSESSMENT, KAKAAKO, HONOLULU, OAHU
TAX MAP KEY 2-1-15: 22 AND 23

00 NOV 21 PM 12:20

DEPT OF DESIGN & CONSTRUCTION
CITY AND COUNTY OF HONOLULU

The site is located within the Kakaako Community Development District and within the Special Management Area. Accordingly, City zoning codes are not applicable to the site and the Special Management Area Use Permit is determined by the State. For your information, the project is included in the Primary Urban Center Development Plan Public Facilities Map under Ordinance 93-40 which added a Sewage Pump Station Modification symbol, publicly funded, site determined, within six years.

Thank you for the opportunity to comment. If you have any questions, please contact Raymond Young of my staff at 527-5839.

RKF:lh
Doc 63975

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Mr. Randall K. Fujiki, Director
Dept. of Planning & Permitting
City & County of Honolulu
650 S. King Street
Honolulu, HI 96813

Dear Mr. Fujiki:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 20, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification.

We note your comment that City zoning codes are not applicable to the project site because the project is located within the Kakaako Community Development District and within the Special Management Area.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction

00-247

DEPARTMENT OF TRANSPORTATION SERVICES
CITY AND COUNTY OF HONOLULU

PACIFIC PARK PLAZA • 711 KAPIOLANI BOULEVARD, SUITE 1200 • HONOLULU, HAWAII 96813
PHONE: (808) 523-4529 • FAX: (808) 523-4730

NOV 24 2000

JEREMY HARRIS
MAYOR



CHERYL D. SOON
DIRECTOR

JOSEPH M. MAGALDI, JR.
DEPUTY DIRECTOR

TP10/00-05188R

November 21, 2000

MEMORANDUM

TO: EDMUND LUNG
WASTEWATER DESIGN AND ENGINEERING DIVISION
DEPARTMENT OF DESIGN AND CONSTRUCTION

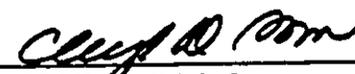
FROM: CHERYL D. SOON, DIRECTOR

SUBJECT: ALA MOANA WASTEWATER PUMP STATION MODIFICATION

In response to the October 23, 2000 letter from R.M. Towill Corporation, the draft environmental assessment for the subject project was reviewed. The following comments are the result of this review:

1. In our March 12, 1997 pre-assessment review letter, the comment was made that construction and traffic control plans for all work within the City's right-of-way should be submitted to this department for review and approval. As a result of the subsequent reorganization of City departments, those plans should now be submitted to the Department of Planning and Permitting for review and approval. Subsection 3.3.1 TRAFFIC AND TRANSPORTATION SYSTEMS (Page 3-6) should be corrected to reflect this change.
2. Subsection 6.1 (Page 6-1), regarding City and County of Honolulu permits and approvals, should be corrected to reflect that Street Usage Permits are issued by this department.

Should you have any questions regarding these comments, please contact Faith Miyamoto of the Transportation Planning Division at Local 6976.


CHERYL D. SOON

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Ms. Cheryl Soon, Director
Dept. of Transportation Services
City & County of Honolulu
711 Kapiolani Blvd...
Honolulu, HI 96813

Dear Ms. Soon:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 21, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments, we offer the following information:

1. Construction and traffic control plans for all work within the City's right-of-way will be submitted to the Department of Planning and Permitting for review and approval. The Final EA, subsection 3.3.1 TRAFFIC AND TRANSPORTATION SYSTEMS will be revised to include this information.
2. The Final EA, subsection 6.1 will be revised to reflect that Street Usage Permits are issued by the Department of Transportation Services.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

00-2393

FIRE DEPARTMENT
CITY AND COUNTY OF HONOLULU

3375 KOAPAKA STREET, SUITE H425 • HONOLULU, HAWAII 96819-1869
TELEPHONE: (808) 831-7761 • FAX: (808) 831-7750 • INTERNET: www.cc.honolulu.hi.us

NOV 16 09:51
JEREMY HARRIS
MAYOR

DESIGN
DIVISION
DEC 1



ATTILIO K. LEONARDI
FIRE CHIEF

JOHN CLARK
DEPUTY FIRE CHIEF

November 14, 2000

**TO: GARY Q. L. YEE, DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION**

**ATTN: EDMUND LUNG
WASTEWATER DESIGN AND ENGINEERING DIVISION**

FROM: ATTILIO K. LEONARDI, FIRE CHIEF

**SUBJECT: PUBLIC REVIEW OF DRAFT ENVIRONMENTAL ASSESSMENT (DEA)
FOR ALA MOANA WASTEWATER PUMP STATION MODIFICATION**

We received a letter dated October 23, 2000, from Leighton W. K. Lum, Chief Environmental Engineer, of R. M. Towill Corporation, regarding the Public Review of Draft Environmental Assessment (DEA) for the Ala Moana Wastewater Pump Station modification. This project will not have an adverse impact on the services provided by the Honolulu Fire Department.

Should you have any questions, please call Battalion Chief Kenneth Silva of our Fire Prevention Bureau at 831-7778.

Handwritten signature of Attilio K. Leonard in black ink.

ATTILIO K. LEONARDI
Fire Chief

AKL/KS:jo

cc: Leighton W. K. Lum, R. M. Towill Corporation

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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September 6, 2001

RMTC File No. 1-17701-4E

Mr. Attilio Leonardi, Chief
Fire Department
City & County of Honolulu
3375 Koapaka Street
Honolulu, HI 96819

Dear Mr. Leonardi:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 14, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification.

We note your comment that the project will not have an adverse impact on the services provided by the Honolulu Fire Department.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

POLICE DEPARTMENT
CITY AND COUNTY OF HONOLULU

801 SOUTH BERETANIA STREET
HONOLULU, HAWAII 96813 - AREA CODE (808) 529-3111

<http://www.honolulu.org>

www.co.honolulu.hawaii.gov

NOV 17 2000

JEREMY HARRIS
MAYOR



LEE D. DONOHUE
CHIEF

MICHAEL CARVALHO
ROBERT AU
DEPUTY CHIEFS

OUR REFERENCE CS-LS

November 15, 2000

TO: GARY Q. L. YEE, AIA, DIRECTOR
DEPARTMENT OF DESIGN AND CONSTRUCTION

ATTENTION: EDMUND LUNG
WASTEWATER DESIGN AND ENGINEERING DIVISION

FROM: LEE D. DONOHUE, CHIEF OF POLICE
HONOLULU POLICE DEPARTMENT

SUBJECT: PUBLIC REVIEW OF DRAFT ENVIRONMENTAL ASSESSMENT FOR
ALA MOANA WASTEWATER PUMP STATION MODIFICATION

Thank you for the opportunity to review and comment on the subject document.

We do not anticipate any additional impact on police services once the proposed project is completed. However, there may be calls for police service during the construction phase since dust, noise, and traffic problems are inevitable during any construction project.

Further, we would like to recommend that the concept of Crime Prevention Through Environmental Design be applied in designing the project as a means of minimizing any potential criminal activity in the area.

If there are any questions, please call Carol Sodetani of the Support Services Bureau at 529-3658.

LEE D. DONOHUE
Chief of Police

A handwritten signature in black ink, appearing to read "Eugene Uemura".

By
EUGENE UEMURA, Assistant Chief
Support Services Bureau

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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September 6, 2001

RMTC File No. 1-17701-4E

Mr. Lee Donohue, Chief
Police Department
City & County of Honolulu
801 S. Beretania Street
Honolulu, HI 96813

Dear Mr. Donohue:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 15, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification.

We note that dust, noise, and traffic problems related to construction activities typically result in increased calls for police services. We further note that you do not anticipate any additional impact on police services following completion of the proposed project. The Department of Design and Construction and the project contractor will work in cooperation with the Police Department to address any problems or complaints that might result from project activities.

Additionally, the concept of Crime Prevention Through Environmental Design be applied to project design where possible as a means of minimizing potential criminal activity in the area. Where

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

LL:jn:k\ww\17701\doc\SMA and EA documents\Correspondence\DEA response letters\

cc: Department of Design & Construction

BENJAMIN J. CAYETANO
GOVERNOR



STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL

235 SOUTH BERETANIA STREET
SUITE 702
HONOLULU, HAWAII 96813
TELEPHONE (808) 586-4185
FACSIMILE (808) 586-4186

RTT	NM	RE
REC'D NOV 24 2000		
GENEVIEVE SALMONSON DIRECTOR		

November 21, 2000

Mr. Gary Yee, Director
Department of Design and Construction
City and County of Honolulu
650 South King Street, 11th Floor
Honolulu, Hawaii 96813

Dear Mr. Yee:

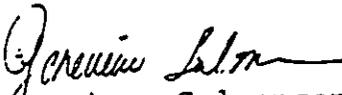
Subject: Draft EA for the Ala Moana Wastewater Pump Station
Modification, Honolulu

Thank you for the opportunity to review the subject document. We have the following comments.

1. Please respond in writing to the written comments received during the pre-assessment consultation phase.
2. Please describe whether the proposed modifications will be able to accommodate all future development plans for Kakaako. Please consult with the Hawaii Community Development Authority regarding this issue.

Should you have any questions, please call Jeyan Thirugnanam at 586-4185. Mahalo.

Sincerely,


Genevieve Salmonson
Director

c: R.M. Towill Corporation

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rm.com



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Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Ms. Genevieve Salmonson, Director
Office of Environmental Quality Control
235 S. Beretania Street
State Office Tower, Suite 702
Honolulu, HI 96813

Dear Ms. Salmonson:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 21, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments (*in italic*) we offer the following:

1. *Please respond in writing to the written comments received during the pre-assessment consultation phase.*

Comments received during the 1997 pre-assessment consultation were incorporated into the Draft EA where appropriate. The agencies that responded in 1997 to the request for pre-assessment comments have had the opportunity to review the current proposed project design and assessment of environmental impacts during the Draft EA public review period. Written responses to their comments on the Draft EA are included in the Final EA.

2. *Please describe whether the proposed modifications will be able to accommodate all future development plans for Kakaako. Please consult with the Hawaii Community Development Authority regarding this issue.*

The Ala Moana Wastewater Pump Station (WWPS) serves most of eastern Honolulu, including Kakaako. Wastewater from the service area is conveyed to the Ala Moana WWPS and pumped through two force mains to the Sand Island Wastewater Treatment Plant (WWTP) for treatment and disposal. Design flows for the Ala Moana WWPS were obtained from the Force Majeure Report (Fukunaga and Associates, Inc. October 1997). The design flows were based on available Traffic Analysis Zone (TAZ) population projections for 1995 and 2020. Proposed improvements to the Ala Moana WWPS are designed to meet the service demands of projected population growth in Eastern Honolulu to the year 2020. Although wastewater flows are not calculated specifically for the proposed development in Kakaako, future service demand in Kakaako is accounted for in the general population growth projections.

Ms. Genevieve Salmonson
September 6, 2001
Page 2

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,



Leighton W. K. Lam, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction

BENJAMIN J. CAYetano
GOVERNOR OF HAWAII



TIMOTHY E. JOHNS, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

DEPUTIES
JANET E. KAWALO
LINNEL NISHIOKA

STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

HISTORIC PRESERVATION DIVISION
Kakuhihewa Building, Room 555
601 Kamehaha Boulevard
Kapolei, Hawaii 96707

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
CONSERVATION AND RESOURCES
ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
LAND
STATE PARKS
WATER RESOURCE MANAGEMENT

November 28, 2000

Mr. Edmund Lung
Wastewater Design and Engineering Division
Department of Design and Construction
City & County of Honolulu
650 S. King St. 14th Floor
Honolulu, Hawaii 96813

LOG NO: 26499 ✓
DOC NO: 0011EJ07

Dear Mr. Lung:

**SUBJECT: Chapter 6E-8 Historic Preservation Review – Draft Environmental Assessment (DEA) for the Ala Moana Wastewater Pump Station Modification Kakaako (Honolulu), Kona, O`ahu
TMK: 2-1-015:022, 023**

Thank you for the opportunity to comment on the DEA for the proposed improvements to the Ala Moana Wastewater Pump Station (WWPS). Our review is based on historic reports, maps, and aerial photographs maintained at the State Historic Preservation Division; no field inspection was made of the project areas.

The City & County of Honolulu proposed improvements to the Ala Moana Wastewater Pump Station are to address increases in flow to the facility and additional requirements of the future expansion of the Sand Island WWTP. A review of our records shows that there are no known historic sites at this location, which has been extensively disturbed during the construction of the station. According to the DEA, the Kakaako Pumping Station, a significant historic site listed on the Hawaii and National Register of Historic Places (Site 50-80-14-9710), is located to the northeast of the project site. The proposed improvements are limited to the existing facility and will not impact the historic Kakaako Pump station. Because improvements will take place within the existing facility we believe that the proposed modifications listed in the DEA will have "no effect" on significant historic sites.

Should you have any questions, please feel free to call Sara Collins at 692-8026 or Elaine Jourdane at 692-8027:

Aloha,

A handwritten signature in black ink, appearing to read "Don Hibbard".

Don Hibbard, Administrator
State Historic Preservation Division

EJ:jk

c: Leighton W. K. Lum, Chief Environmental Engineer, R. M. Towill Corporation, 420
Waiakamilo Road, Ste. 411, Honolulu, HI 96817-4941

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



R. M. TOWILL CORPORATION
SINCE 1930

Planning
Engineering
Environmental Services
Photogrammetry
Surveying
Construction Management

September 6, 2001

RMTC File No. 1-17701-4E

Mr. Don Hibbard, Administrator
Historic Preservation Division
DLNR, State of Hawaii
601 Kamokila Blvd, Room 555
Kapolei, Hawaii 96707

Dear Mr. Hibbard:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 28, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification.

We note your determination that the proposed modifications described in the DEA will have "no effect" on significant historic sites.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction



00-2459

RECEIVED

University of Hawai'i at Mānoa

Environmental Center
 A Unit of Water Resources Research Center
 2550 Campus Road • Crawford 317 • Honolulu, Hawai'i 96822
 Telephone: (808) 956-7361 • Facsimile: (808) 956-3900

NOV 29 2000

DESIGN & CONSTRUCTION
 DIV OF INFRASTRUCTURE
 November 22, 2000
 EA:0248

Mr. Carl Arakaki
 City and County of Honolulu
 Department of Design and Construction
 650 South King Street, 11th floor
 Honolulu, Hawaii 96813

Dear Mr. Arakaki:

Draft Environmental Assessment
 Ala Moana Wastewater Pump Station Modification
 Honolulu, Oahu

The Department of Design and Construction of the City and County of Honolulu, proposes to upgrade the Ala Moana Wastewater Pump Station (WWPS) to increase the overall pumping capacity of the facility. The project calls for new pumps, motors, expansion of MCC room, asbestos removal, and new odor control units. The project is expected to be completed within a two year period of an estimated cost of \$17,400,000. The proposed upgrade projected to the year 2020 of the WWPS is to accommodate an increase in flow.

This Review was prepared with the assistance of Roger Babcock, Civil Engineering; and Renee Thompson, Environmental Center

General Comments

In general, the need for the upgrade is justified by the projected 2020 flow. In many places, most notably on page 3-7 the draft environmental assessment (DEA) justifies the upgrade by stating that it will reduce the risk of wastewater spills. There is no evidence, however, provided in the DEA to support this assertion. What is the history of spills from this station? What will be the projected number of spills with versus without the proposed upgrades? Was some sort of risk analysis conducted? If not, then it may be advisable to remove the work 'risk' (which implies that a statistically based study was conducted) with some other work such as 'potential.'

Water Quality

Section 3.1.7: What are the stormwater runoff impacts on the nearshore waters? Is there any chance of runoff being contaminated by either sewage or contaminants (fuel, oil, etc.) at this site?

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DOCUMENT CAPTURED AS RECEIVED

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P. 11

Mr. Arakaki
November 22, 2000
Page 2

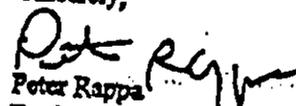
Air Quality

Section 3.1.7: What are the impacts of the used activated carbon? Is the carbon used once and then discarded or is it cleaned? Are chemicals used in the cleaning? What is the frequency, mass, and location of carbon disposal?

Noise

Section 3.1.7: When were the background noise measurements taken (day/night, dates, etc.)? It seems that the background exceeds the DOH allowable levels already.

Sincerely,


Peter Rappa
Environmental Review Coordinator

cc: OEQC
Randall Fujiki, DPP
James Moncur, WRRRC
Roger Babcock
Renee Thompson

TOTAL P.03

420 Waiakamilo Road
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Honolulu Hawaii 96817-4941
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September 6, 2001

RMTC File No. 1-17701-4E

Mr. Peter Rappa
Environmental Review Coordinator
Environmental Center, University of Hawaii
2550 Campus Road, Crawford 317
Honolulu, HI 96822

Dear Mr. Rappa:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 22, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments (*in italic*), we offer the following information:

1. *...Was some sort of risk analysis conducted? If not, then it may be advisable to remove the work (sic) 'risk' (which implies that a statistically based study was conducted) with some other work (sic) such as 'potential'.*

The word 'risk' has been changed to 'potential'.

2. *Section 3.1.7: What are the stormwater runoff impacts on the nearshore waters? Is there any chance of runoff being contaminated by either sewage or contaminants (fuel, oil, etc.) at this site?*

The proposed project is not expected to have any impact on nearshore waters. The pump station is approximately 1,500 feet away from the nearest shoreline. Storm water runoff from the site will enter the City's separate storm sewer system on Keawe Street. In order to minimize the potential for contamination of storm water runoff, the pump station site will be kept in a neat, orderly manner in accordance with good housekeeping practices. Fuels, oils, solvents, and other materials used on site will be stored under cover in proper containers. Further, the Ala Moana WWPS is a closed system. All pipes, pumps, and well spaces are contained in sealed environments where they will not come into contact with rainfall or storm water runoff.

During construction, the project contractor will employ best management practices to divert, contain, and treat storm water flows to ensure that storm water runoff does not discharge pollution to near shore waters.

Mr. Peter Rappa
September 6, 2001
Page 2

3. *Section 3.1.7: What are the impacts of the used activated carbon? Is the carbon used once and then discarded or is it cleaned? Are chemicals used in the cleaning? What is the frequency, mass, and location of carbon disposal?*

The proposed odor control system consists of four vessels each containing roughly 3,800 pounds of activated carbon. It is estimated that the carbon will require regeneration twice a year, by means of a water wash, and replacement every two years. When activated carbon becomes "fully used" it is tested for toxicity before disposal. Carbon that tests within safe parameters is disposed of in the Waimanalo Gulch Landfill. The cost of removing and disposing the carbon is \$160 per ton. To date, DDC has never had a situation where spent carbon has tested positive for excessive levels of hazardous contaminants.

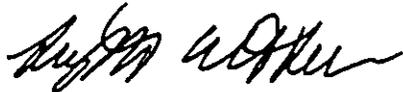
4. *Section 3.1.7: When were the background noise measurements taken (day/night, dates, etc.)? It seems that the background exceeds the DOH allowable levels already.*

The 1994 noise study was prepared for the Final Environmental Assessment for the Emergency Generator Upgrade project dated May 1996, and is published as Appendix A in that document. Existing background ambient noise levels were measured during the morning of October 7, 1994 at sixteen different locations near the perimeter fence of the existing station. In some locations, the existing ambient background noise level exceeded DOH's allowable levels. Specific sources of ambient background noise were not identified.

As stated in the EA, noise impacts from the pump station will be mitigated by acoustically treating the generator room and odor control fan room. Acoustical treatments will include silenced inlet and discharge air openings, interior wall and ceiling finish insulation, sound rated door assemblies, and two exhaust mufflers installed in series.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,



Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction

EIS/EA

00-2607



Scott W.H. Seu, P.E.
Manager
Environmental Department

TO: SEE 20 72 113
December 18, 2000

Mr. Edmund Lung
Wastewater Design & Engineering Division
Department of Design & Construction
City and County of Honolulu
650 South King Street, 14th Floor
Honolulu, HI 96813

Dear Mr. Lung:

Subject: Ala Moana Wastewater Pump Station Modification

Thank you for the opportunity to comment on the October 2000 Draft EA for the Ala Moana Wastewater Pump Station Modification, as proposed by the Department of Design and Construction, City and County of Honolulu. We have reviewed the subject document and have no comments at this time.

HECO shall reserve further comments pertaining to the protection of existing powerlines bordering the project area until construction plans are finalized. Again, thank you for the opportunity to comment on this Draft EA.

Sincerely,

WINNER OF THE EDISON AWARD
FOR DISTINGUISHED INDUSTRY LEADERSHIP



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September 6, 2001

RMTC File No. 1-17701-4E

Mr. Scott W. H. Seu, PE
Manager
Environmental Department
Hawaiian Electric Company
P. O. Box 2750
Honolulu, HI 96840

Dear Mr. Seu:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated December 18, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. We acknowledge that you have no comments to offer at this time.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction

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12



Verizon Hawaii Inc.
P.O. Box 2200
Honolulu, HI 96841

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DESIGN
DIV.

November 8, 2000

Mr. Edmund Lung
Wastewater Design & Engineering Division
Department of Design & Construction
City & County of Honolulu
650 S. King Street, 14th floor
Honolulu, Hawaii 96813

Subject: PUBLIC REVIEW OF DRAFT ENVIRONMENTAL ASSESSMENT (DEA) FOR
ALA MOANA WASTEWATER PUMP STATION MODIFICATION

Dear Mr. Lung:

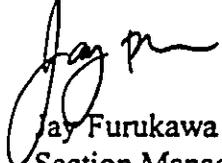
Thank you for providing Verizon Hawaii Incorporated, the opportunity to comment on the Draft Environmental Assessment for the Ala Moana Wastewater Pump Station modification.

Please have the changes below made to the following sections of the DEA:

- Section 3.3.5 – 1st paragraph – Change Hawaiian Telephone Company to Verizon Hawaii Incorporated
- Section 6.4 – Change GTE Hawaiian Telephone Company Incorporated to Verizon Hawaii Incorporated

If there are any questions, please call Glenn Morita at 840-5838.

Sincerely Yours,


Jay Furukawa
Section Manager –
Access Design and Construction

c: File
G. Morita

420 Waiakamilo Road
Suite 411
Honolulu Hawaii 96817-4941
Telephone 808 842 1133
Fax 808 842 1937
eMail rmtowill@hawaii.rr.com



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September 6, 2001

RMTC File No. 1-17701-4E

Mr. Jay Furukawa
Section Manager
Access Design & Construction
Verizon Hawaii, Inc.
P. O. Box 2200
Honolulu, HI 96841

Dear Mr. Furukawa:

**Comments on the Draft Environmental Assessment (DEA) for
Ala Moana Wastewater Pump Station Modification**

Thank you for your letter dated November 8, 2000 responding to requests for comments on the DEA for the proposed Ala Moana Wastewater Pump Station Modification. In response to your comments we offer the following information:

"Hawaiian Telephone Company" will be changed to "Verizon Hawaii Incorporated" throughout the Final EA.

Should you have questions or require additional information, please do not hesitate to contact Mr. Doug Yamamoto of R. M. Towill Corporation at 842-1133.

Very truly yours,

Leighton W. K. Lum, Ph.D., P.E.
Chief Environmental Engineer

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cc: Department of Design & Construction