DEPARTMENT OF WASTEWATER MANAGEMENT

CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET HONOLULU, HAWAII 96813

FRANK F. FASI MAYOR



KENNETH M. RAPPOLT DIRECTOR FELIX B. LIMTIACO

137

٠

August 19, 1993

DEPUTY DIRECTOR

WEP 93-385

Mr. Brian J. J. Choy, Director Office of Environmental Quality Control 220 South King Street, 4th Floor Honolulu, Hawaii 96813

Dear Mr. Choy:

Subject:

Final Environmental Assessment (EA) in Anticipation of a Negative Declaration for the Proposed Septage Handling Facilities at the Sand Island Wastewater Treatment Plant (WWTP) <u>Honolulu, Hawaii, Tax Map Key: 1-5-41:5</u>

This letter constitutes a notice of determination by this department after the potential impacts of the proposed project have been assessed according to Title 11, Chapter 200, Environmental Impact Statement Rules, and Chapter 343, of the Hawaii Revised Statues relating to Environmental Impact Statements. The determination has been made that an environmental impact statement is not required based on the environmental assessment prepared by our consultants, Parametrix, Inc.

Based on our determination, we are filing a Final EA in anticipation of a Negative Declaration. The department is submitting with this transmittal, four copies of the Final EA and an OEQC publication form for this project.

We are requesting publication in your OEQC Bulletin of September 8, 1993.

Should there be any questions, please have your staff contact Mr. Robert Ishida at 527-5847.

Very truly yours, KENNETHM, RAPPOLT Director

Attachments

1993-09-08-0A- FEA-Sand Island Wasternto Treatment Plait Septie Hardling Facilities FILE COPY

Final Environmental Assessment This Environmental Assessment prepared pursuant to Chapter 343, Hawaii Revised Statutes (HRS)

For The

Septage Facilities on Oahu

Sand Island WWTP Tributary Area

TMK: 1-5-41: 5 Honolulu, Hawaii

Proposing Agency:	
Department of Wastewater Management	
City and County of Honolulu	
650 S. King Street	
Honolulu, HI 96813	
Responsible Official:	8/18/93
Kenneth M. Rappolt, Director	Date:
Rrepared For:	

Department of Wastewater Management City & County of Honolulu

> Prepared By: Parametrix, Inc.

TABLE OF CONTENTS

• • *

1.1.1

<u>SECT</u>	<u>'ION</u>		<u>PAGE NUMBER</u>				
I.	SUM	MARY	1				
II.	PROJ	ECT DESCRIPTION	4				
ш.	AFFE	7					
IV.		11					
v.	ALTE	RNATIVES CONSIDERED	13				
VI. '	VI. DETERMINATION, FINDINGS, AND REASONS SUPPORTING DETERMINATION						
VII.	LIST	PROJECT DESCRIPTION 4 AFFECTED ENVIRONMENT 7 RUMMARY OF MAJOR IMPACTS 11 AND MITIGATED MEASURES 11 ALTERNATIVES CONSIDERED 13 DETERMINATION, FINDINGS, AND 14 LIST OF PREPARERS 15 FUNDING AND PHASING 16 LIST OF AGENCIES CONSULTED DURING 17 LIST OF FIGURES 17 LIST OF FIGURES 17 LIST OF FIGURES 17 LIST OF FIGURES 2					
VIII. FUNDING AND PHASING							
IX.	III. FUNDING AND PHASING		17				
		LIST OF FIGURES					
	ו במ	PROJECT I OCATION MAP					
FIGU	RE 2.	PROJECT SITE PLAN	8				

FIGURE 2.	PROJECT SITE PLAN	ð
FIGURE 3.	SMA BOUNDARY MAP	10
FIGURE 4.	SAND ISLAND WWTP SERVICE AREA	11
FIGURE 5.	PROPOSED SEPTAGE FACILITIES	12

I. SUMMARY

•

CHAPTER 343, HRS ENVIRONMENTAL ASSESSMENT (EA)

Proposing Agency:	Department of Public Works City & County of Honolulu				
Action:	Agency				
Project Name:	Sand Island Septage Handling Facilities				
Project Description:	The Sand Island Waste Water Treatment Plant (WWTP) is being evaluated to determine the potential impacts that septage handling and processing will have on the long range operations of the facility at Sand Island. Also, the corollary objectives include specific evaluation of alternative grease handling methods, assessment of DOH regulations on waste volumes and characteristics, and development of modifications to the septage handling facilities required.				
	Proposed improvements will include the following:				
	Two septage receiving stations which will include a coarse bar screen, a small sump for removing heavy objects, and quick disconnect receiving hose connections; Submersible septage pumps; Grease handling facilities consisting of a heated grease hopper, a duplex pump station and macerators and heated piping from the pump station to the existing sludge holding tanks; Odor control system using modular packaged single stage chemical oxidant odor scrubbing equipment; and Septage flow monitoring and sampling equipment.				
Project Location:	Sand Island WWTP, Sand Island, Oahu (See Figure 1)				
Tax Map Key:	1-5-41: 5				
Area:	29,150 square feet				
State Land Use Designation:	Urban				

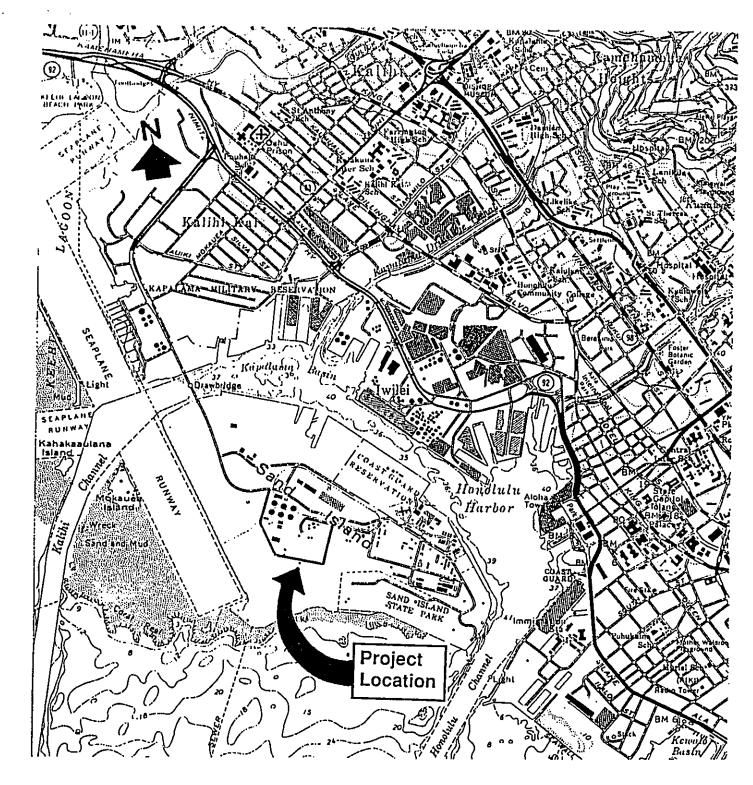
Sand Island Septage Handling Facilities

1

-

March 30, 1993





Parametrix, Inc.

Septage Facilities on Oahu, Sand Island

Location Map

PMX 22-2096-03

Figure 1 Page 2 Primary Urban Center Development Plan Land Use Map Designation:

County Zoning Designation:

Landowner:

City & County of Honolulu

Public Facility

I-3

Contact:

. '

.

.

.

F. J. Rodriguez c/o Parametrix, Inc. 1164 Bishop Street, Suite 1600 Honolulu, Hawaii 96813 Tel. (808) 524-0594

Sand Island Septage Handling Facilities

3

-

May 5, 1993

II. PROJECT DESCRIPTION

A. Technical Characteristics

- 1. The septage wastes generated within the Honolulu service area are primarily <u>cesspool</u> <u>septage</u>, <u>shipboard waste</u>, <u>chemical toilet waste</u>, <u>and grease trap waste</u>. The Hawaii Kai WWTP which is the only private treatment plant located within the service area, does not have a preloader and is scheduled to expand its solids handling facilities. Therefore no preloader wastes or waste activated sludge from private plants are expected to be discharged to the proposed septage handling facility except during emergency situations at the Hawaii Kai WWTP. Individually, each type of waste exhibits different characteristics; in general, however, the wastes are highly variable, anaerobic, high strength wastes.
- 2. Septage handling and treatment fall into three general categories: <u>land disposal</u>; <u>independent treatment facilities</u>; and handling at wastewater treatment plants. In a City & County conducted study, "Septage Facilities on Oahu, Sand Island WWTP Tributary Area, Parametrix, Inc., December, 1992", it was concluded that handling septage at the existing WWTP was the most economically cost effective and environmentally sound alternative. With the exception of grease trap waste, the treatment of septage at the existing WWTP is the preferred approach. The physical handling characteristics of grease trap waste place increased operating and maintenance burdens on the existing WWTP facility. This is due almost entirely to the typical characteristics of grease trap waste such as the formation of floating mats of putrescible substances. This leads to a reduction of the plant's treatment capacity, removal efficiency, and contributes to the increased operation and maintenance requirements. A highly concentrated wastewater, septage is traditionally treated by processes used at WWTPs. The treatment of septage however is markedly different from domestic sewage and requires special consideration for proper design of receiving and handling facilities. Considerations in treating septage at the WWTP include:
 - a. Ability of the plant to accommodate septage
 - b. Addition to liquid and solid waste handling stream
 - c. Mode of waste input
 - d. Receiving station Waste discharge station
 - e. Odor Control

Sand Island Septage Handling Facilities

4

March 30, 1993

- 3. Septage is a typically high organic strength, high solids content waste. Addition of a highly concentrated waste such as septage in relatively small quantities can substantially increase the organic and solids loading at a WWTP. The volume of septage that can be handled is generally dependent on three major factors:
 - a. The volume and nature of the waste flow
 - b. Biological oxidation capacity of the plant
 - c. Solids handling capacity of the plant

Because the Sand Island WWTP is a primary treatment facility, the ability to accommodate septage wastes is primarily determined by the volume and nature of the waste flow and the solids handling capacity of the plant. In addition to the high strength of the septage, the manner of receiving the various wastes into the WWTP requires consideration. These wastes are likely to be brought into the facility individually, i.e. a tank load of cesspool waste, a load of chemical toilet or shipboard toilet waste, or a grease trap load of septage. This is typical rather than the blend of the various wastes that comprise septage as defined for this project.

- 4. There are two methods of handling septage at a WWTP:
 - a. Addition to the liquid treatment stream
 - b. Addition to the solids handling stream

In general, septage input into the headworks of a treatment plant is desirable since the majority of the solids can be removed with the primary sludge. This is particularly true at plants with primary clarification. This is the method of septage handling at the SIWWTP.

At secondary treatment plants without primary sedimentation, addition of septage to the liquid stream can overload biological processes resulting in major process upsets and poor effluent quality. At these secondary treatment plants, addition to the solids handling stream would be desirable.

B. Social and Economic Characteristics

Septage as a category of liquid waste is considered a high strength contributor to the total liquid waste stream of the City & County of Honolulu. In the metropolitan area of the City, the preponderance of commercial oriented sources of liquid waste are still:

• commercial toilet waste;

Sand Island Septage Handling Facilities

5

- shipboard bilge and wastewater;
- and grease trap wastes.

Estimated septage quantity generated within the Honolulu service area through the year 2010 and the corresponding mass loading to the Sand Island WWTP were estimated as follows:

Septage Volume:971,000 gallons per monthBiochemical oxygen demand (5 day):5500 lbs/monthSuspended Solids:5800 lbs./month

Cesspool pumpage in metropolitan Honolulu is not as prevalent as it is on the North Shore or the windward side of Oahu, where cesspools are still in active use. The elimination of cesspool wastes are still a goal and objective of both the State Department of Health and also the Division of Wastewater Management, Department of Public Works and City & County of Honolulu. However, there will always be a need for septage handling and processing for chemical toilet use and grease trap pumpage.

C. Septage Characteristics

The total estimated septage flow of 971,000 gallons per month is equivalent to a flow of 0.032 MGD. This septage volume corresponds to approximately 0.04% of the design average daily flow of 82 MGD, and is an order of magnitude lower than the recommended limitation of 0.45 percent of plant design flow. The estimated mass BOD5 and suspended solids loading are also very small compared to the design loading for the WWTP. The plant influent characteristics would essentially remain unchanged by the addition of septage.

Based on the above considerations, controlled/uncontrolled discharge of septage wastes into the Sand Island WWTP is expected to have no significant impact to the performance of the treatment plant. A discharge station would be needed to facilitate waste transfer and to minimize release of odors, but additional pre-treatment of the wastes can be accomplished by the existing facilities at the WWTP. However, with past problems experienced with the handling of grease and other floating materials, special consideration must be given to grease trap wastes and floatable fractions of grease contained in other septage wastes.

Sand Island Septage Handling Facilities

August 13, 1993

6

III.AFFECTED ENVIRONMENT

- A. Geographical Characteristics
 - 1. Topography

.

The proposed Septage Handling Facility at the Sand Island WWTP is planned for the north-east corner of the plant site. At the present time, the planned expansion will consist of approximately 29,150 square feet of structural improvements. (See Figure 2)

2. Soils

Sand Island is considered as Fill Lands Mixed (FL), "a land type that occurs mostly near Pearl Harbor and in Honolulu, adjacent to the ocean. It consists of areas filled with materials dredged from the ocean or hauled from nearby areas, garbage, and general material from other sources." USDA/SCS 8/72 Soil Survey of Islands of Kauai, Oahu, Molokai, and Lanai, State of Hawaii.

3. Vegetation

At the proposed location for the septage handling facility improvements, there are no significant varieties of vegetation as the Sand Island WWTP is an existing industrial facility. There are introduced species of plant material on the total parcel, but not at the septage handling facility location.

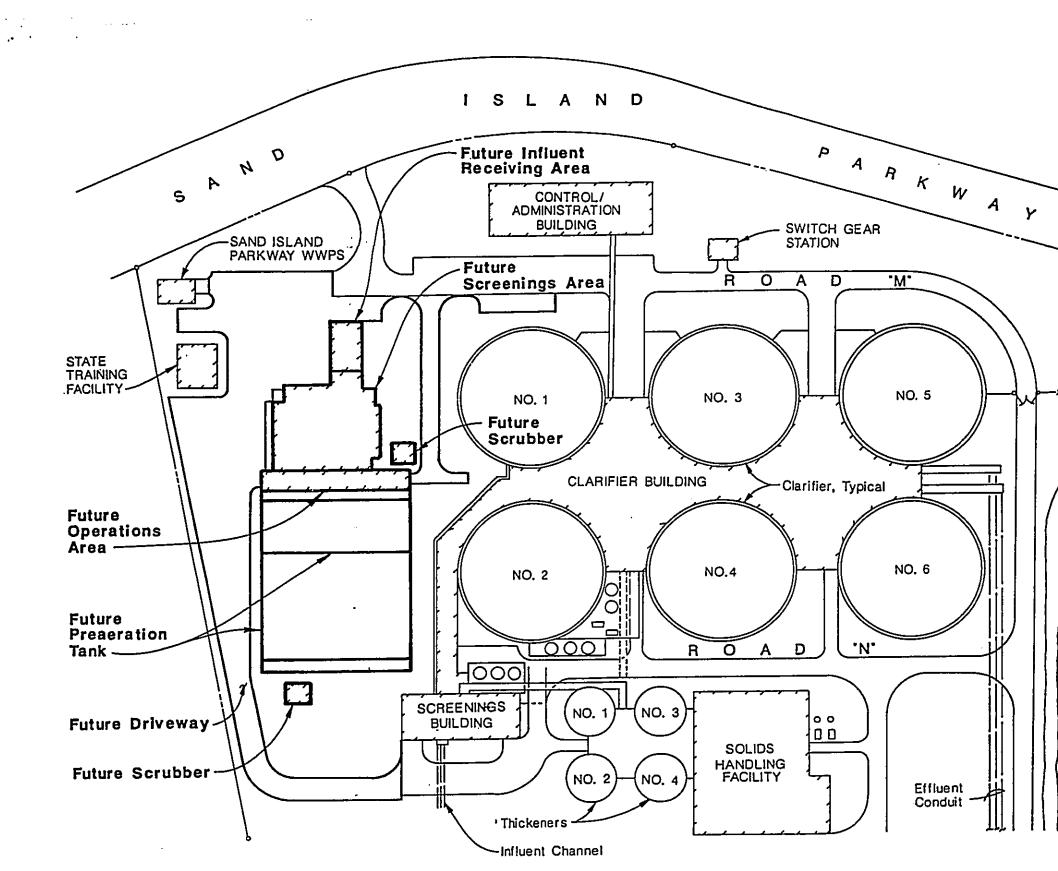
- B. Hydrological Characteristics
 - 1. Drainage

Onsite drainage will be provided with the existing system of drainage. The proposed improvements to provide septage handling will not increase drainage loading on the existing drainage system. In the event of accidental spills of the septage material, there are operational procedures that will mitigate the spillage and minimize the impacts into the adjacent coastal zone. All septage material that accidentally spills will be contained and returned to the wastewater collection/treatment system. Compliance with the Flood Insurance Rate map criteria for construction improvements will be a responsibility of the site design engineering firm and also the structural design engineer. The FIRM maps are for all existing and proposed land use impacts, and the Sand Island WWTP is in compliance with the FIRM maps.

Sand Island Septage Handling Facilities

7

March 30, 1993



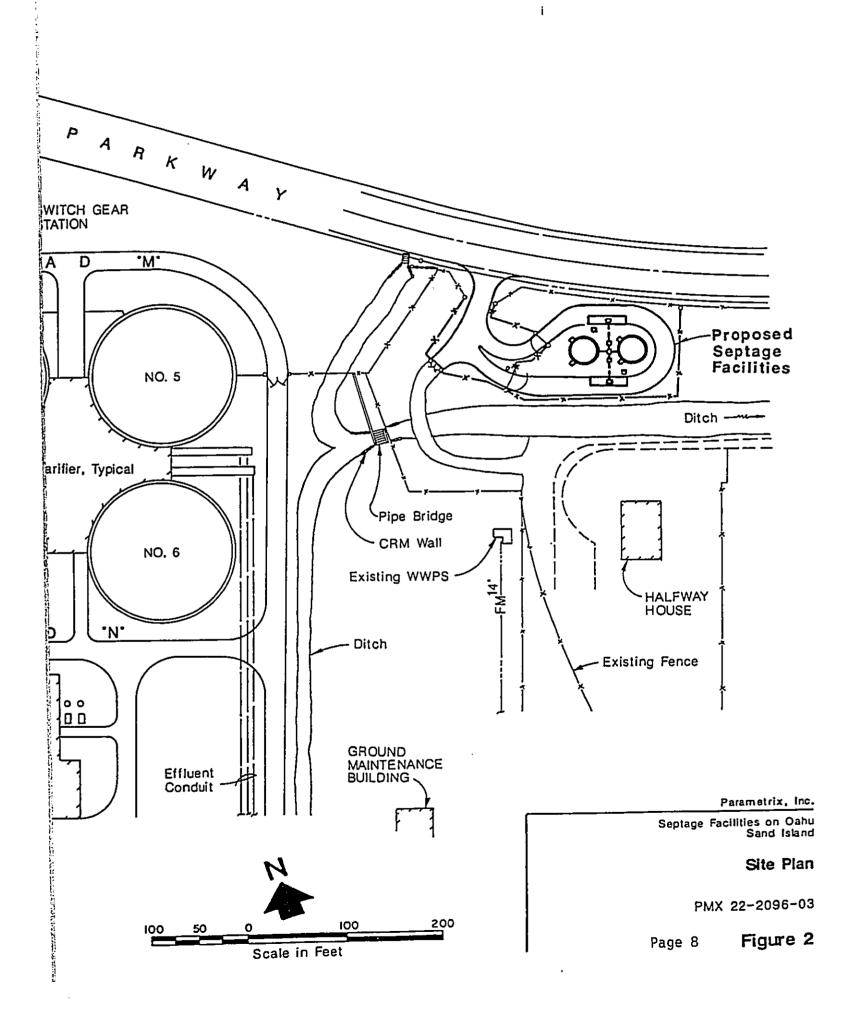
 Scale in

0

100

E

50



2. Coastal Zone Management Program/City & County of Honolulu Special Management Area (SMA) Use Permit

The proposed project is located in the Special Management Area Boundary (See Figure 3). A Special Management Area Permit (SMP) will be prepared and processed with the City Department of Land Utilization. Compliance with the Coastal Zone Management Act is under the review jurisdiction of the Office of State Planning, who will review this document as a routine evaluation.

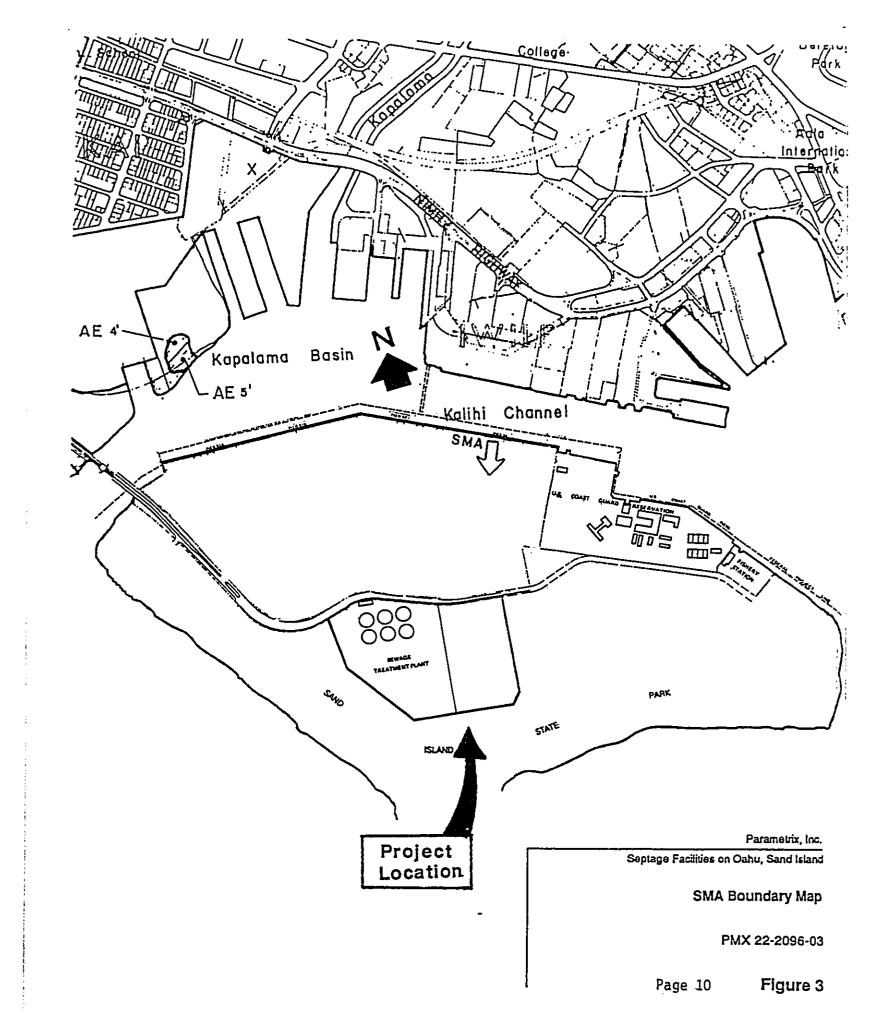
C. Biological Characteristics

The location of the proposed Septage Handling Facilities at the Sand Island Waste Water Treatment Plant is on fully improved and previously disturbed lands. There will be little if any impacts to the existing biota due to this proposed project. Plant and animal species prevalent at the Sand Island WWTP are exotic or introduced species and will not be affected by this project.

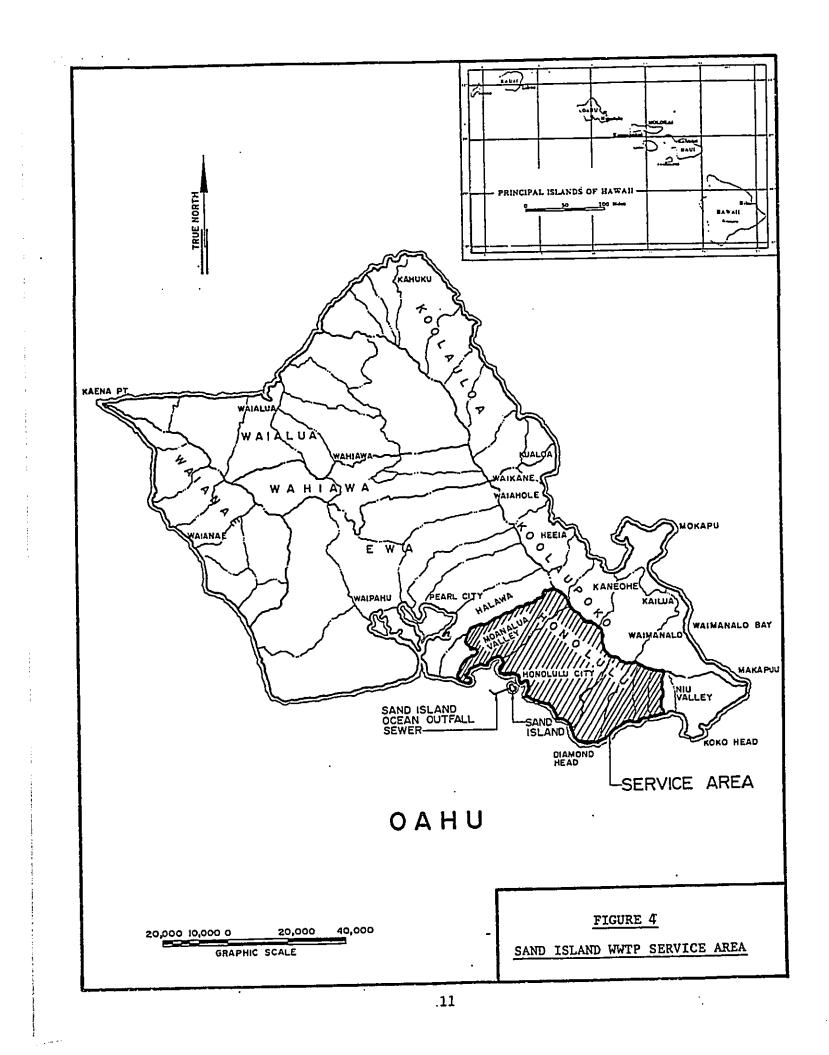
D. Historic and Archaeological Characteristics

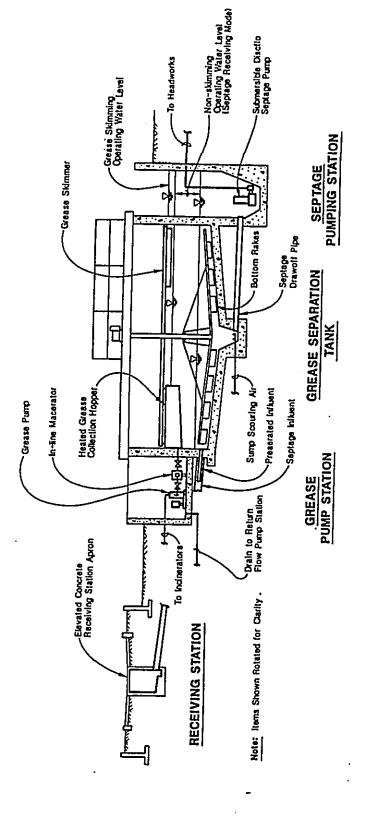
The previously disturbed nature of the proposed Septage Handling Facility site and the fact that the Sand Island WWTP is on Fill Land precludes the possibility of uncovering sites with historic or archaeological significance. In the event that sites are uncovered, construction work will be halted and the State Historic Preservation Division, Department of Land and Natural Resources will be advised.

9



DOCUMENT CAPTURED AS RECEIVED





í

:

÷.-



Perameiriz, Inc. Septepe Fectilies on Oehu Sand Island

Proposed Septage Facilities

Graphic Scale

12

IV. SUMMARY OF MAJOR IMPACTS AND MITIGATIVE MEASURES

A. Impacts

Impacts due to the implementation of the proposed project improvements can be viewed in two areas: short and long term. Short term impacts, beneficial and adverse, generally result from construction related activities. These are consequently of short duration and are related and limited to the construction phase of site improvements, i.e. on site and structural. Topographic alterations will result from the onsite grading necessary to provide an even and stable building platform for the structural improvements. Other onsite improvements will be to:

- provide ready access for the septage vehicles to reach the unloading ports;
- the connection of the utilities;
- the onsite drainage improvements to tie in with the drainage system;
- and the perimeter fencing to secure the facilities since the project location is adjacent to the Sand Island Parkway Road.

Long term impacts result from the implementation and operation of the proposed project.

These include the following:

- Increased commercial and municipal pump truck traffic;
- Odor Control due to the increased septage quantities to be handled at the Sand Island WWTP;
- and increased electrical consumption due to increased waste loading and treatment.
- B. Mitigative Measures

Short term or construction related impacts will be the responsibility of the contractor to adhere to the State Department of Health Regulations on Community Noise for Oahu. This will be done by avoiding the "gunning" of equipment; working only during the normal operating hours of 7:00 a.m. to 3:30 p.m.; and installing appropriate muffler noise abatement devices on all construction equipment. Fugitive Dust will be abated by adhering to the State Department of Health Regulations on Air Quality. Frequent street watering; lay on of dust control materials; and exposing only a minimum of earth at a time. Fortunately, the prevailing zoning is I-3 and there are no residential districts

Sand Island Septage Handling Facilities

13

V. ALTERNATIVES CONSIDERED

<u>Alternatives</u>

1 × 1

The selected site location took into consideration the existing operations at Sand Island WWTP. The decision to place the Septage Handling Facilities at the designated north-east corner was based on ready ingress and egress for septage vehicles. Other areas were evaluated and discarded due to the conflict with plant operations at those locations, and the distance for pumping grease to the sludge holding tanks was too far.

The continued practice of discharging septage into Sewer Manhole located near the Coast Guard Station was reviewed and ultimately rejected for primarily cost reasons.

Other Sand Island WWTP locations included a site on the east side of the Facility, but this was also rejected since future expansion of the Sand Island WWTP for secondary treatment of wastewater would require additional space.

A location near the Solids Handling Facility was also considered and rejected for cost benefit reasons and less than satisfactory traffic considerations.

The "No Action" alternative would have resulted in the selected site remaining unused and the volume of septage continuing to be a problem for treatment and disposal.

Sand Island Septage Handling Facilities

15

VI. DETERMINATION, FINDINGS, AND REASONS SUPPORTING DETERMINATION

After completing an assessment of the potential environmental effects of the proposed action, and consulting with other government agencies, it has been determined that a Notice of Negative Declaration can be anticipated. This will be completed after the pre-agency consultation period and Draft Environmental Assessment has been posted in the OEQC Bulletin. The policies, guidelines, and provisions of Chapters 342, 343, and 344 Hawaii Revised Statutes were consulted in the evaluation process.

- 1. The proposed project will not adversely affect the physical and social environment. There may be minor discomfort and annoyances to the Sand Island Parkway Road traffic during construction, but these will be mitigated by adherence to applicable City traffic control ordinances. Increased operational traffic once the Septage handling Facility is completed will also result.
- 2. There will be no permanent degradation of the existing ambient air quality and community noise levels. During the construction phase, the air and noise standards will be temporarily affected, but these effects will be temporary and short term in nature. Odor control will be managed by operational and maintenance staff.
- 3. No residences or businesses will be disrupted by the project. The site is part of the Sand Island WWTP and the Septage Facility is a consistent use and compatible with the overall WWTP.
- 4. There are no endangered plant species on the project site, and the prevailing flora and fauna are exotic or introduced species.
- 5. There are no known natural, historic, or archaeological sites within the project's metes and bounds.
- 6. The project will be consistent with the prevailing Land Use District Urban designation; the Development Plan Facilities Map; and the Zoning designation of I-3.
- 7. There are no significant adverse secondary effects on population, future development, and public facilities due to this project.

Sand Island Septage Handling Facilities

16

VII. LIST OF PREPARERS

ļ

Parametrix, Inc.

•

••

Hawaii Pacific Engineers, Inc.

Sand Island Septage Handling Facilities

17

VIII. FUNDING AND PHASING

This Project will be funded entirely by the applicant, the Department of Public Works, Division of Waste Water Management, City & County of Honolulu. All improvements will be designed and built to County Building code standards. Construction will commence after all required permits have been processed and completed. Construction costs are estimated to be \$1,770,000.00 and the work will be completed in one phase. Funding will be solely from the City & County of Honolulu.

Sand Island Septage Handling Facilities

ţ

18

IX. LIST OF AGENCIES CONSULTED DURING THE PREPARATION OF THE ENVIRONMENTAL ASSESSMENT

•

۰.

.

ORGANIZATIONS AND AGEN Agency	<u>VCIES</u> : Date of Consultation	Date Comment
<u>State of Hawaii</u> Mr. Harold Masumoto, Director		Received
Office of State Planning		5-3-93
Mr. Keith W. Ahue, Chair State Dept. of Land & Natural Re	esources	5-5-93
Dr. Bruce Anderson, Dep. Direct State Dept. of Health	tor	
Mr. T. Harano, Chief Highways Division		
State Dept. of Transportation		4-14-93
Mr. Mufi Hanneman, Director Department of Business & Econor	mic Development	4-27-93
City & County of Honolulu Mr. Robin Foster Dept. of General Planning		4-30-93
Mr. Donald A. Clegg, Director Dept. of Land Utilization		
Mr. C. Michael Street, Ch. Engr. Dept. of Public Works		
Mr. Joseph N. Magaldi, Director Dept. of Trans. Services		
Mr. Michael S. Nakamura, Chief Honolulu Police Department		4-19-93
Mr. Donald Chang, Chief Honolulu Fire Department		4-14-93
Sand Island		
Septage Handling Facilities	19	August 13, 1993

Agency

- -

Date of Consultation

Date Comment <u>Received</u>

4-27-93

Mr. Kazu Hayashida, Manager Board of Water Supply

Mr. Gary Gill City Council

Kalihi-Palama Neighborhood Board #15

Sand Island Septage Handling Facilities

20

-



1164 Bishop Street, Suite 1600 Honolulu, Hawaii 96813 Mr. F. J. Rodriguez Parametrix, Inc.

Dear Mr. Rodriguez:

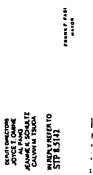
Subject: Environmental Assessment Pre-Agency Review Sand Island Septage Handling Facilities PMX Project No.: 22-2096-03

While we have no objections to the proposed expansion to the Sand Island Waste Water Treatment Plant, the developer should coordinate the access for the Septage facility area with our department. Construction plans for any work within the Sand Island Parkway right-of-way must be submitted for our review and approval. All cost for roadway improvements will be borne by the developer.

Thank you for the opportunity to provide comments.

(0+) Rex D. Johason Sincerely,

Director of Transportation



ل مارستارا \$ذوارار مارستارا \$ذوارار

CITY AND COUNTY OF HONOLULU

430 EOUTH EING STREET WONOLULUL MARIN 94613

DEPARTMENT OF PUBLIC WORKS

REED JOHGON

JOHN WINEE

.

FLIE L'47140

HEP 93-132

April 21, 1993

. • .

R ERENED

PARAMETRIX, INC.

Mr. Rex D. Johnson, Director State of Havaii Department of Transportation 869 Punchbowl Street Honolulu, Hawaii 96813

Dear Mr. Johnson:

Subject: Environmental Assessment Pre-Agency Review for the Sand Island Septage Handling Facilities <u>Sand Island Oahu, Havail TMK: 1-5-41: 5</u>

We have received your agency comments dated April 14, 1993 on the pre-agency draft Environmental Assessment for the above subject project and respond as follows:

- The existing ingress and egress vill be utilized for this facility operation. If any modifications to the existing access are necessary, we will coordinate our work with your department. :
 - The construction plans will be provided to the State Highways Division, Department of Transportation, for review and approval. 2.

Thank you for your timely comments and continuing cooperation.

Very truly yours,

all user cler c. MICHAEL STREET Multrector and chief Engineer

We have received your department comments dated April 14, 1993 for the subject project and respond as follows: The department position of no adverse impact in Fire Department facilities or services is duly noted. Thank you for your timely comments and continuing cooperation. All access for fire apparatus, water supply, and building construction shall be in conformance with existing codes and standards. ENVIRONMENTAL ASSESSMENTS PRE-AGENCY REVIEW FOR SAND_ISLAND_SEPTAGE HANDLING FACILITIES CITY AND COUNTY OF HONOLULU C. MICHAEL STREET, DIRECTOR AND CHIEF ENGINEER DEPARTMENT OF PUBLIC WORKS MR. DONALD S.M. CHANG, CHIEF FIRE DEPARTMENT MEMORANDUM SUBJECT: : 2. FROM: ë 10110 11100 ែង់ក្នុងសំរដ្ឋកិច្ចជំនួន ខ្មែរប្រុន អ្នកភ្នំទំណងម្នាមទេ សមានខេត ៩០១ មាលន Should you have any questions, please call Assistant Chief Attilio Leonardl of our Administrative Services Bureau at 831-7775. Access for fire apparatus, water supply and building construction shall be in conformance to existing codes and standards. We have reviewed the subject material provided and foresee no adverse impact in Fire Department facilities or services. SUBJECT: SAND ISLAND SEPTAGE HANDLNG FACILITIES Environmental Assessment Pre-Agency Review PMC Project No.: 22-2095-03 Very truly yours, April 14, 1993 Mr. F. J. Rodriguez Parametrix, Inc. 1164 Bishop Street, Suite 1600 Honolulu, Hawali 96813 Dear Mr. Rodriguez: ۰. PRIME FASI

C MCM45, \$74(F) MALERA NUB CIVE EVENUE FELIS & LANTIACO MPUTS BIOLOGO

530 5001M KMQ 518557 MOMOLULU MARAF5833

WEP 93-133

April 22, 1993

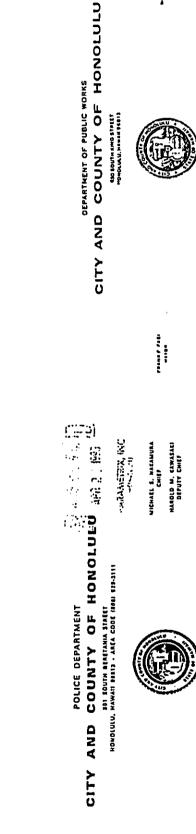
AKL:ny

2 monday

DONALD S. M. CHANG Fire Chief

C. HICHAEL STREET Director and Chief Engineer

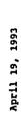
C. Uluchard Strint



į

OUN PEPERSON BS-LK

FAARE F. FAEI MATON



.

Mr. F. J. Rodriguez Parametrix, Inc. 1164 Bishop Street, Suite 1600 Honolulu, Havail 96813

Dear Mr. Rodriguez:

This is in response to your letter of March 30, 1993 about septage facilities at the Sand Island Waste Water Treatment Plant. The Honolulu Police Department notes that mitigative measures will be employed to minimize dust, noise, odor, and traffic problems, which would be our major concerns. We have no other comments at this time.

Thank you for the opportunity to review this document.

sincerely,

MICHAEL S. NAKAMURA Chief of Police By Contraction Defension Sector Sector Sector Sector Chief of Police Assistant Chief of Police Administrative Bureau

HEHORANDUH To: MICHAEL S. NAKAMURA, CHIEF OF POLICI

C '40'446, \$10667 \$065150 440 Cm(1 / 144416

-0.33+4+1.7+15 (3+1,+17) 0 1/111

861-66 GAW

April 23, 1993

•

MICHAEL S. NAKAMURA, CHIEF OF POLICE Honolulu Police Department

FROM: C. MICHAEL STREET DIRECTOR AND CHIEF ENGINEER SUBJECT: ENVIRONMENTAL ASSESSMENTS PRE-AGENCY REVIEW FOR SAND ISLAND SEPTAGE HANDLING FACILITIES We have received your department comments dated April 19, 1993 on the above project and respond as follows:

Mitigative measures will be employed to minimize dust, noise, odor and traffic problems. Thank you for your timely comments and continuing cooperation.

C. Uludul Struf

C. MICHAEL STREET Director and Chief Engineer

· · · •	DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU ADDANA AND STRUCTURES	1	WEP 93-162 Henorandum	TO: MR. ROBIN FOSTER, CHIEF PLANNING OFFICER Planning department	FROM: C. MICHAEL STREET, DIRECTOR AND CHIEF ENGINEER Department of public works	SUBJECT: PRE-AGENCY ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED Septage Handling Facilities at Sand Island Wastewater Treatment Plant. Tax Mar Key: 1-5-41: 5	We have received your department comments dated April 28, 1993 and we respond as follows: Inclusion of the Development blan test for the indication which is	Facility" has been made in the Summary section of the E.A. document. We have attached a copy for your files.	Thank you for your timely comments and conginuing cooperation. Rupping Congression Congression Congression Congression Congression Congression Congression Congression Congress	<pre> Directór and Chief Engineer Attachments </pre>		2	
		88446 C. 6454 44198				-							
	PLANNING DEPARTMENT COUNTY OF HONOLULU MANANAMANTAN MANANAMANTANANANANANANANANANANANANANANAN	STATE	April 28, 1993		te 1600		Preliminary Draft Environmental Assessment for the Septage Handling Facilities at the Sand Island Waste Water Treatment Plant Tax Map Kev: 1-5-41; 5	The Planning Department has reviewed the subject document offers the following comments:	The proposed project is designated "Public Facility" on the Primary Urban Center Development Plan (DP) Land Use Map. This designation should be included in the "Summary" section of the proposed project.	The Primary Urban Center Development Plan (DP) Public Facilities Map designates the subject site for Sewage Treatment Plant modification, within six years.	Thank you for the opportunity to comment. Should you have any questions, please contact Hel Murakami of our staff at 527-6020.	LL. L.L. ROBIN FOSTER Chief Planning Officer	
	•	APPENDING CONTRACTORS NOT		Mr. P. J. Rodrienaz	김희	Dear Mr. Rodriguez:	Preliminary for the at the Sand Is Ta	The Planning Depart and offers the follovin	1. The proposed the Primary U Map. This de: "Summary" sec	2. The Primary U Facilities May Treatment Pla	Thank you for the (have any questions, plee 527-6020.		



WALTER O WALSON AS COMMAN WARGEN AT ALWESTO VOO COMMAN SSEEN JANNIN HATCHCA OSF SSEEN JANNIN HATCHCA OSF REEL JONESON A REEL JONESON A C WOULL STREET MADUNAN AND CONFERIMENT

FRUM F FASI MUNO

Mr. F.J. Rodriguez Parametrix, Inc. 1164 Bishop Street, Suite 1600 Honolulu, Hawaii 96813

Dear Mr. Rodriguez:

Subject: Your Letter of March 30, 1993 Regarding the Environmental Assessment Pre-Agency Review for the Sand Island Septage Handling Facilities at the Sand Island Wastewater Treatment Plant (WWTP), PMX Project No. 22-2096-03. Honolulu. Oahu, TMK: 1-5-41: 05

Thank you for the opportunity to review and comment on the proposed project to construct septage handling facilities at the WWTP.

We have no objections to the proposed project and anticipate no adverse impacts to our water system facilities in the area.

If you have any questions, please contact Roy Doi at 527-5121.

Very truly yours,

leyon de

KAZU HAYASHIDA Manager and Chief Engineer

> cc: Robert Ishida (Department of Public Works)

••

DEFARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU CONVERTING



ل سارسال پهروز ۱۹۹۴ مه دسود در ساره ۱۹۹۴ په دستارون ۱۹۹۴ په موروزوه

WEP 93-154

May 6, 1993

HEHORANDUH

TO:

MR. KAZU HAYASHIDA, MANAGER AND CHIEF ENGINEER Board of Water Supply

FROM: C. MICHAEL STREET, DIRECTOR AND CHIEF ENGINEER Department of Public Works

SUBJECT: SEPTAGE HANDLING FACILITIES ON OAHU: SAND ISLAND MASTEMATER TREATHENT PLANT

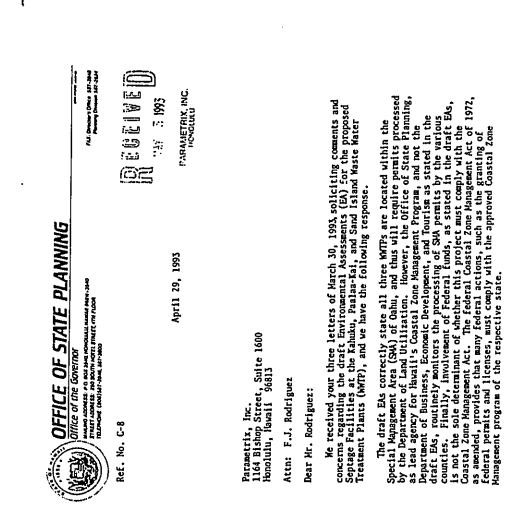
We have received your agency comments dated April 21, 1993 on the above proposed project and respond as follows:

We acknowledge the BWS position that states "The proposed project will have no adverse impacts to the BWS water system facilities, and there are no objections to the project."

Thank you for your timely comments and continuing cooperation.

Chief Engineer The start CEAL

Pare Water . Music Kenters need - we it whete



DEPARTMENT OF PUBLIC WORKS CITY AND COUNTY OF HONOLULU MUNITIVITY

.

C MCHALL STRICT

Mr. Harold S. Masumoto, Director Office of State Planning P. O. Box 3540 Honolulu, Hawaii 96811-3540

Dear Mr. Masumoto:

Subject: Pre-Agency Comments on Septage Handling Facilities At Sand Island Wastewater Treatment Plant

We have received your agency comments dated April 29, 1993 on the above proposed project and we respond as follows:

 Revisions to the Draft E.A. document will be made to correct the incorrect reference to the Coastal Zone Management Act review jurisdiction. We direct you to the revisions which are attached.

Thank you for your timely response and continuing cooperation.

••

and Chief Engineer CREET Ź ry truly yours ctor HICHA ة: م

Attachments

If you have any questions, please contact our Coastal Zone Management Program at 581–2876.

Sincerely,

..

Heals. New Italianto Itarold S. Hasumoto Director

Entropy Entropy	SUBJECT: Director's Referral No. 93-101-N Draft Environmental Assessment for Septage Facilities on Oahu: (Kahuku Septage Handling Facilities, Paalaa-Kai Septage Handling Facilities, Sand Island Septage Handling Facilities)	We have reviewed the subject draft environmental assessments and have the following comments to offer:	Kahuku Septage Handling Facilities	 The tax map key identification on page 1 of the Draft EA is in error. The current tax map key should read THK: <u>5</u>-6-2: por. 24. 	2) We confirm that the project location is within the State Land Use Agricultural District.	3) The existing sewage treatment plant was the subject of SP78-317/City and County of Honolulu, Department of Public Horks, approved by the LUC on January 11, 1979.	4) Based on Figure 2 of the respective Draft EA, it appears that the proposed septage handling facility involves TMK: 5-6-2: por. 1 (east of TMK: 5-6-2: 24). This should be clarified in the Final EA and amendments made accordingly. We also note that if expansion into TMK: 5-6-2: por. 1 is proposed, another Special Permit	5) The project site is nearby to an area recommended for reclassification from the Agricultural District to the Conservation District under the <u>Draft State Land Use</u> <u>District Boundary Review - Oabu, currently being</u> conducted by the Nil Unit of the James Campbell National Wildlife Preserve is a Priority 2 recommendation.
DEPARTMENT OF BUSINESS, APR 2.7 1933 APR 2.7 1934 APR 2	Mr. F. J. Rodriguez Parametrix, Inc. 1164 Bishop Street, Suite 1600 Honolulu, Hawaii 96813	Dear Mr. Rodriguez:	The Department of Business, Economic Development & Tourism is plassed to submit the applosed comments on the Draft Environmental	Assessment for Septage Facilities on Oahu: Kahuku Septage Handling Facilities, Paalaa-Kai Septage Handling Facilities, and Sand Island Septage Handling Facilities.	The comments were provided by the Land Use Commission. Quedtions regarding these comments may be directed to Esther Ueda. LUC		Sincerely, Wuf - Hannemen- Mulî Hannemenn	Bncloaure

•

Paalaa-Kai Septage Handling Facilities

ล

6

We confirm that the project location, identified as TMK: 6-6-34: 33 & 34, is within the State Land Use Urban District and not the Agricultural District as stated on page 1 of the respective Draft EA.

•B....

G Michael, Stater Meterae web could be during

11,11 8 LiwitaCO 41,141 8 LiwitaCO WEP 93-159

.

CITY AND COUNTY OF HONOLULU

430 5001H 2140 518117 HONOLULU HUNG 51812

Review of Figure 2 of the respective Draft EA indicates that proposed improvements are within TMK: 6-6-34: por. 33 and por. J5. It appears that no improvements are proposed within 6-6-34: 34. This should be clarified in the Final EA and references amended accordingly.

Sand Island Septage Handling Facilities

- We wish to note that because the proposed septage handling facility will not involve the total parcel, the TMK identification should read as TMK: 1-5-41: por. 5. **.**
- He confirm that the project location, identified as THK: 1-5-41: por. 5, is within the State Land Use Urban District. 5

We have no further comments to offer at this time.

EU:LRA:th -

-

May 12, 1993 Mr. Mufi Hanneman, Director Department of Business, Economic Development & Tourisn F. O. Box 2359 Honolulu, Hawaii 96804 Dear Mr. Hanneman:

Subject: Pre-Agency Comments on Septage Facilities at Sand Island Mastewater Treatment Plant

We have received your department comments dated April 16, 1993 on the proposed facilities and we respond as follows:

- We acknowledge that the correct TMK designation is 1-5-41: 5. 1.
- We acknowledge your confirmation of the Sand Island . Wastewater Treatment Plant being in the Urban District. ы.

Thank you for your timely comments and continuing cooperation.

٠

121

ector and chief Engineer 240 **FREET** Very truly yours HICHA <u>}</u>

FALME F FALL ASUCAL PART (2014) ASUCAL DATE: REVIEW (2014) RE יניוש אינע נאישנאנאנא Sunn Unoo We have reviewed the DEA information for the subject project transmitted by your letter dated March 30, 1993, and have the following comments: SUBJECT: Draft Drvironmental Assessment (DEA): Septage Facilities at the Sand Island Wastewater Treatment Plant, Horolulu, Oahu, TMK: 1-5-41; por. 5 FILE ND.: 93-525 DOC. ND.: 2710 DEPARTMENT OF LAND AND NATURAL RESOURCES '. . . P. O. BOX 621 HONOLULU, HAWAR 96809 STATE OF HAWAII MAY & 1993 Parametrix, Inc. 1164 Biahop Street, Suite 1600 Honolulu, Hawali 96813 Division of Aquatic Resources Dear Mr. Rodriguez: Mr. Fred Rodriguez REF: OCEA: SWK Julia mat

The Division of Aquatic Resources corrents that insufficient information was provided to determine the potential impacts that the proposed project could have on the marine environment. For example, the Final EA should address, whether the proposed plant improvements will be able to handle corrected, infunctial, and spricoultural mastes, and if not, what wittigative measures are planned to handle such wastes should they be accidentally or purposefully introduced.

Historic Preservation Division

records shows that there are no known historic sites at the proposed project location. The proposed project is located at the established wastewater treatment facility which was built on fill lands. HPD believes that it is unlikely that historic sites will be found in this situation. Therefore HPD believes that this project will have "no effect" on historic sites. The Historic Preservation Division (HPD) comments that a review of their

We have no other connents to offer at this time. Thank you for the opportunity to connent on this matter.

Please feel free to contact Steve Tagama at our Office of Conservation and Environmental Affairs, at 587-0377, should you have any questions.

Kule C. Alue Very truly yours

CITY AND COUNTY OF HONOLULU 430 \$00TH EMG \$7#[{T MONOLULU NANAN \$4813



FLIAB LIMITACO

WEP 93-169

C MUCHAEL STREET MOLEGN CORE COLET IN 20160

.

-

1111

;

1

Mr. Keith W. Ahue, Chair Department of Land and Natural Resources P. O. Box 621 Honolulu, Hawaii 96809

Dear Mr. Ahue:

Subject: Pre-Agency Comments on the Proposed Septage Handling Facilities at the Sand Island Wastewater Treatment Plant (WHTP), Honolulu, Oahu, THK: 1-5-41: por. 5

We have received your comments dated May 4, 1993, and we respond as follows:

- The proposed improvements at the Sand Island WMPP are to be designed solely for the accepting, processing, and disposing of septage wastes as part of the total WMTP operations. The proposed plant improvement will be capable of handling wastes as described in the Environmental Assessment. Furthermore, acceptance of wastes at the facilities is regulated by the City of dinances. All procedures in the correct processing of septage wastes are the Sand Island WMTP will be reviewed and approved by the State Department of Health. The facilities are required to meet the regulations that govern the protection of the coastal zone marine biota and environment. :
- The "no effect" comment from the Historic Preservation Division is duly noted. . N

Thank you for your continued cooperation.

C. Wicharl Shrif Very truly yours,

C. MICHAEL STREET Director and Chief Engineer

CITY AND COUNTY OF HONOLULU DEPARTMENT OF LAND UTILIZATION

F.J. Rodriguez Page 2 July 29, 1993

۰. .

Clarify what is meant by long term impacts of "increased commercial and municipal pump truck traffic" and "odor Control" found on page 8 of the preliminary EA. The EA should distinguish between increased pump truck traffic at the SIWHTP relative to general increases. Please clarify whether odor or odor control is a long term impact resulting from the project. •

Hater Cuality

- Describe impacts to water quality. Although not stated, we assume that the treatment of .032 million gallons per day (HGD) of septage at the SIWWTP may increase effluent volumes. If so, identify the anticipated increase. •
- Explain the "operational procedures", Page 6 of the preliminary EA, that will be used to control accidental spills. Is structural containment of spills also being considered? •

Septage. Processing

- Describe the proposed septage treatment process. A schematic diagram relating the proposed equipment or structure to the process that it performs, and further identifying the direction of flows, inputs and outputs would be helpful for agencies and the public who are reviewing this project.
- The second paragraph found on Fage 9 of the preliminary EA indicates that the SIMMTP will be expanded to a secondary treatment facility. Page 4 indicates that septage processing is different at primary and secondary plants. You should describe the processing of septage, when SIMMTP is upgraded to a secondary facility.
- Describe the proposed grease trap treatment process.

An explanation of the purpose and need for the project would make the document more comprehensible.

General Clarification

- provide a description or map identifying the service area. •
- Explain the current method used for septage disposal. Define "preloader waste" discussed on page 5 of the preliminary EA.
- Clarify whether the discharge station noted on page 5 of the preliminary EA is part of the proposed project. This facility does not appear to be identified in your project description described on page one.
- Describe the generation and disposal of solid waste that will be generated by the processing of the septage at the Sand Island Wastewater Treatment Plant (SIMMTP).
- the Identify the location and point of discharge for on-site drainage system.

July 29, 1993

10+11+4 - 1.7+44 93-02123 (ASK)

004410 4 C1160

Hr. F.J. Rodriguez Parametrix, Inc. 1164 Bishop Street, Suite 1600⁻ Honolulu, Hawali 96813

Dear Mr. Rodriguez:

He have reviewed the preliminary Draft Environmental Assessment (DEA) for the Sand Island Septage Handling Facility. As noted in that document, the project is within the Special Management Area, and will require a Special Management Area Use Permit (SHP) from the City Council. If the Final Environmental Assessment, prepared pursuant to Chapter 343, HRS, is intended to neet application requirements of the Special Management Area Use Permit application it must address the following, which are not included in the preliminary DEA:

F.J. Rodriguez Page J July 29, 1993

.

....

.

Our department has recently processed an SMP for the Interim Chemical Treatment Facility at the SIWMTP. We anticipate preparation of this preliminary EA precedes an SMP application for the septage facility, and are aware that there are future plans to upgrade and possibly expand the SIWMTP, construction of which will also require an SMP.

.

Chapter 25 ROH specifies that the evaluation of project impacts include "potential cumulative impacts of individual developments". While we recognize that these improvements may represent "separate" projects for your department, a comprehensive review is called for under Chapter 25. As such, we urge that to the extent possible, improvements and expansion of the SIWWTP be submitted under a single SMP application.

Should you have questions regarding the above, you may contact Ardis Shaw-Kim of our staff at 527-5349.

.

.

-

Very truly yours,

Denuel Clery DONALD A. CLEGG DIrector of Land Utilization

DAC:ask .cc:Robert Ishida, DP4

Gifred.ask Aifred.as5

•

.

.

CITY AND COUNTY OF HONOLULU



FRAME, 7480



Åugust 27, 1993

HEP 93-393

HEHORANDUM

- TO: MR. DONALD A. CLEGG, DIRECTOR DEPARTMENT OF LAND UTILIZATION
- FROM: KENNETH M. RAPPOLT, DIRECTOR DEPARTHENT OP WASTEWATER MANAGEMENT
- SUBJECT: DRAFT ENVIRONMENTAL ASSESSMENT (EA) FOR THE PROPOSED SEPTAGE FACILITIES ON OANU AT THE SAND ISLAND MASTEMATER TREATHENT PLANT (SIMWTP), 1-5-41:5

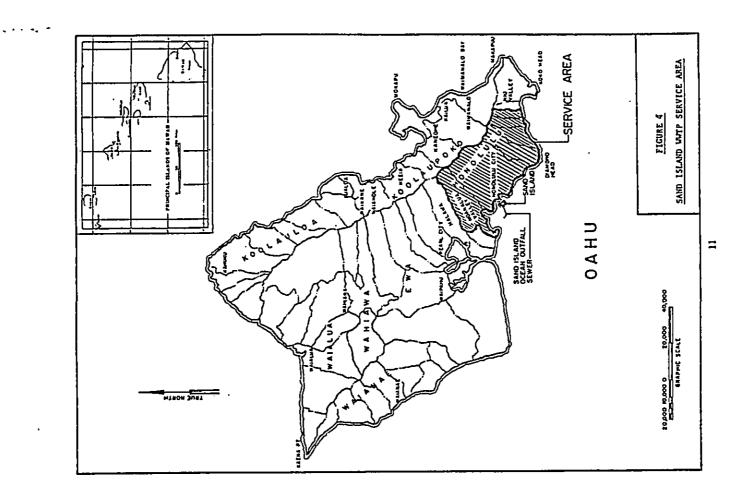
We have received your Department's comments dated July 29, 1993 on the above project and we respond as follows:

- A service area map will be included in the Final EA document. (See Figure 4).
- Under the current method for septage disposal, septage waste is combined and treated with domestic sewage flows at existing treatment plant. There is no separate or dedicated septage handling system.
- Preloader waste is the material initially separated by settling and floating in a private treatment system.
- 4. Depending on which side of the Receiving Station you are on, the terminology for vaste discharge/receiving is essentially the same. Trucks discharge septage where septage is <u>received</u> for the septage handling facilities. He are providing your Department with a schematic diagram of the proposed septage facilities.
- 5. Septage is generated from septic tanks, cesspools, grease traps, shipboard waste systems, and chemical toilets. Once the septage is collected and hauled by pumpers to be discharged into the receiving station at the septage handling facility, grease will be skimmed from the liquid. The liquid will be combined with the plant influent and grease will be combined with the plant siudge. The end grease will be combined with the plant siudge either to be incinerated and fills.

Hr. Donald A. Clegg ~ ~ 2 - August 27, 1993

.....

- 6. The finished grade will be kept as close as to that of the existing conditions and the surface drainage pattern will not change. There will be no additional on-site drainage loading due to the proposed septage facilities.
- 7. The previous practice of septage discharge via sever manholes will be replaced by the septage facilities upon project completion. All manhole discharge/receiving points will be discontinued. This will increase the commercial ville discontinued. This will increase the commercial septage hauling to the sever manholes designated for sepage discharge.
- 8. A long term impact of the odor control system is that it requires operation and maintenance. However, having the sever manhole discharge eliminated by the septage handling facilities, odor problems vill be dramatically reduced.
- 9. Section C on page 6 on the Draft EA describes the identified 0.032 HGD as corresponding to approximately 0.04% of the design average daily flow of 82 HGD. Impacts to vater quality from the increase in flow is not expected because of the small quantity.
- 10. Please refer to the schematic diagram (See Figure 5) which depicts the proposed septage facilities of the Receiving Station. A typical scenario would have the truck discharge valve (located at the bottom of the truck tank) centered over the opening in the elevated concrete receiving station apron before it is opened to discharge the septage. Spill containment will be provided in the receiving station's apron.
- Again, the septage process is explained via the schematic diagram of the proposed septage facilities.
- 12. If the SIWWTP is expanded to provide secondary treatment, the septage processing and handling will not change. See Item 5.
- Grease trap wastes are handled in the same way as all the other septage. See Item 5.
- 14. We recognize the intent and purpose of Chapter 25, ROH which requires the full discussion of anticipated impacts on a cumulative basis. At the present time, the East Manala Bay Facility Plan and the SIWMP Master Plan are being prepared. Mhen these planning documents are completed, they will comprise the Department policy guide for future planned improvements at the SIWMP. At that time, a single Master Plan SMP could be prepared and processed in compliance with Chapter 25.



- 3 - August 27, 1993 mments on the subject project and you vill

Mr. Donald A. Clegg

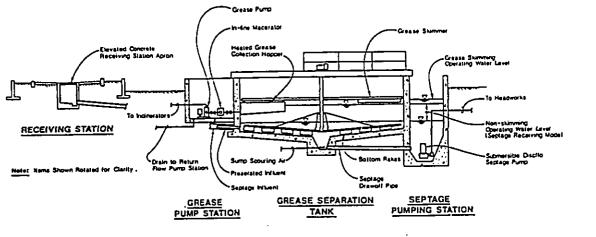
Thank you for your comments on the subject project and you will be pleased to note that in the 30 day review ending August 8, 1993, your comments were the only submittals received.

//////// h //29 KENHETH M. RAPP Director

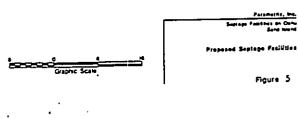
Attachment

cc: Parametrix (F. Rodriguez)

-



÷





.

••••