

CLALLAM BAY/SEKIU SEWER SYSTEMS

(Last Updated January 2023)

Description

The two adjacent unincorporated communities of Clallam Bay and Sekiu are part of the ~ 1,386-acre Clallam Bay-Sekiu Urban Growth Area (UGA). Due to topography, the two communities are served by separate wastewater treatment plants (WWTP) and sewer service areas (see attached maps). Both the Clallam Bay and Sekiu WWTP's became operational in 1977, with treated wastewater discharged by separate outfalls into the marine waters of Clallam Bay. The two sewer systems have a combined total of 328 connections--259 residential, 53 commercial, and 16 public. The state Clallam Bay Corrections Facility located in the UGA has its own WWTP, which discharges into a shared outfall pipe with the Sekiu WWTP. More information at: www.clallamcountywa.gov/630/Clallam-Bay-Sekiu-Sewer-System

Project Team

Team Lead:	Steve Gray, Deputy Public Works Director
Project Manager:	Ron Garcelon, Utility Program Management
Operations/Maintenance:	Kim Malakoff, Senior Wastewater Treatment Operator Cole Dustin, Wastewater Treatment Plant Operator To Be Filled in 2023: Third Wastewater Treatment Operator
Legal:	Dee Boughton, Deputy Prosecuting Attorney
Engineering:	Joe Donisi, County Engineer, and Public Works Engineering Team
Finance:	Hilary Steeby, Public Works Accountant Mark Lane, County Chief Financial Officer
Other Support:	Linda Capps, Lead Right-of-Way Agent (Utility Easements) Administrative: Public Works Administrative Staff
Consultant:	Wilson Engineering, LLC (Value Planning Project)
Advisory Committee:	Clallam Bay/Sekiu Sewer Advisory Committee

Current Projects/Timeline

Projects	Description	Timeline
General Operations and Sewer System Planning		
Operations	The County Public Works Department is responsible for accounting, office administration, public information, operations, maintenance, and capital projects for the Clallam Bay and Sekiu Sewer Systems.	Ongoing
Ordinance Update	Update Clallam Bay-Sekiu Sewer System Regulations under Chapter 13.04, Clallam County Code.	1 st Quarter 2023
Value Planning	Grant funded project to conduct a value planning analysis of alternatives for providing sewer service and wastewater treatment considering affordability and sustainability, and life cycle cost comparisons of the alternatives. It also includes a review of sewer rate structure and revenue planning. Recommended updates to the 2018 Clallam Bay-Sekiu General Sewer and Facilities Plan will be prepared.	2021-2023
Nutrient Reduction	Grant funded project to prepare and plan for future treatment facility upgrades and implement operational modifications necessary to maximize nutrient removal from existing treatment processes to address the Puget Sound Nutrient General Permit requirements.	TBD

Capital Improvement Projects		
Sewer Collection Facility Improvements	Grant/loan funded project to improve water quality in the lower Clallam River and marine habitat in Clallam Bay/Strait of Juan de Fuca through the design and construction of wastewater collection facilities. Additional project benefits include elimination of infiltration/inflow (I/I) sources that contribute to NPDES permit violations and limit available treatment capacity at the Clallam Bay and Sekiu WWTP's. The project will replace approximately 240 feet of 6-inch and 12,300 feet of 8-inch diameter sanitary sewer, 75 manholes, and 71 side sewer connections. 5-Year construction window with projects prioritized based on I/I contribution and schedule reassessed as each project completed.	2020-2025
WWTP Improvements	Bearing replacements for rotating biological contactors at both the Clallam Bay and Sekiu WWTP's.	2022-2023
Pump Station Repairs	Seven sewer pump station repair and replacement projects.	2022-2026

Project Funding

Funding Source	Award	Match	Comments
Ecology Value Planning Grant	\$100,000	N/A	Expect planning report deliverable from consultant in January 2023.
Ecology Puget Sound Nutrient Reduction Grant	\$367,770	N/A	Awaiting contract. Sewer nutrient sampling/analysis efforts underway.
Ecology Sewer Collection Facilities Grant/Loan	\$6,242,000	See Comment	70% Grant or Forgivable Loan 30% Standard Loan (2%/20-years)
Clallam County REET/REET2	\$1,113,215	N/A	Budgeted to support 2023 capital projects.
Utility Billings & Permit Fees	N/A	N/A	Projected to generate ~ \$389,000. Utility billings in 2022 generated ~ \$308,000.
County General Fund	N/A	N/A	2023 budget approved \$140,000 general fund transfer to support O&M and projects.

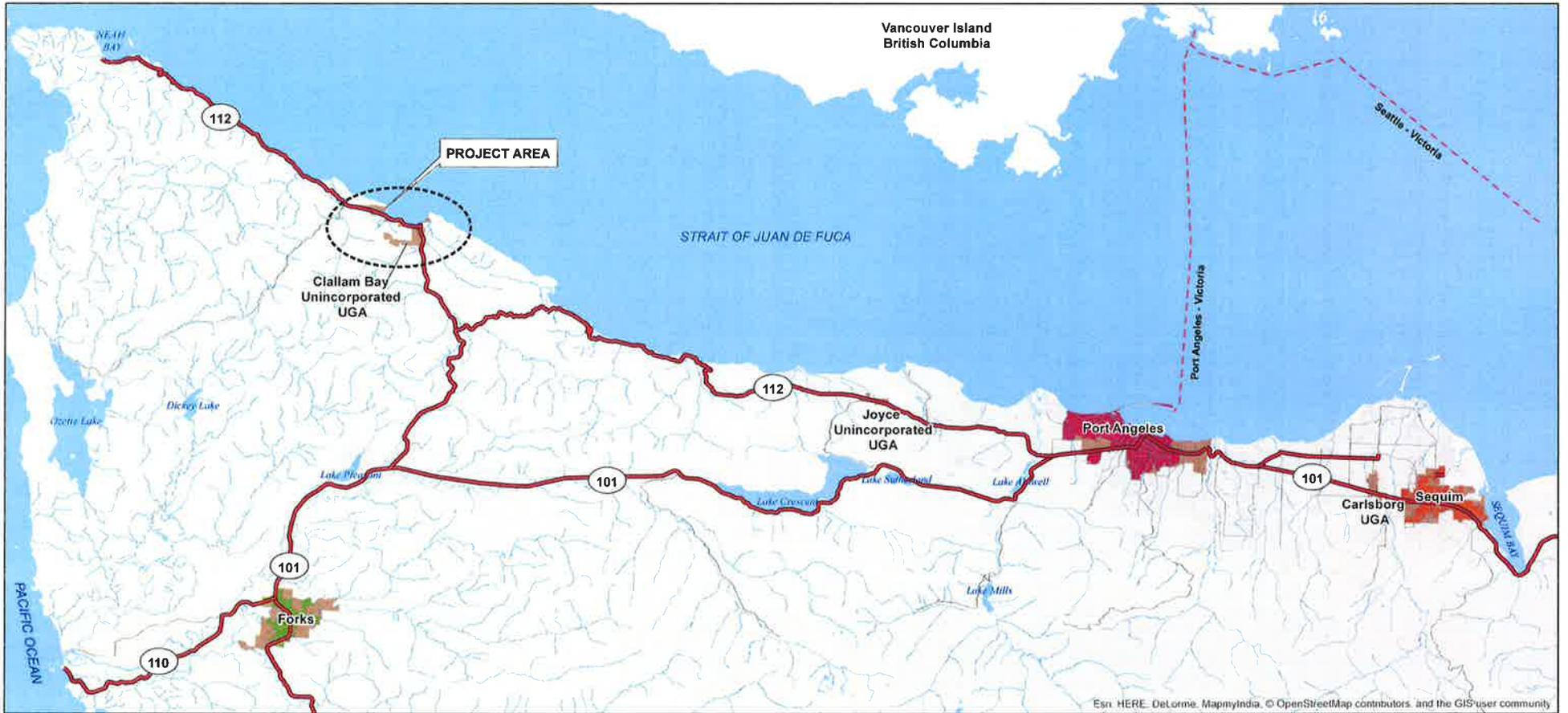
Key Recent Milestones and Next-Steps

- Clallam Bay/Sekiu General Sewer/Wastewater Facilities Plan (October 2018).
- Technical Memorandum: Wastewater Alternatives for Clallam Bay/Sekiu Sewer Systems (May 2019)
- Completed construction in 2021 of the Sekiu Airport Road area sewer collection system improvements that included replacement of 1,650 feet of 8-inch diameter sewer pipe and 6 manholes at a cost of ~ \$450,000 under the ~ \$6.2 million Ecology grant/loan award.
- Installed driveshaft bearing replacements for the two rotating biological contractors at the Sekiu WWTP in 2022. Scheduled in 2023 to purchase and install driveshaft bearing for the two rotating biological contactors at the Clallam Bay WWTP.
- Completed Sekiu Pump Station replacement/repair project. The targeted schedule for replacement / repairs of the remaining pump stations includes two planned in 2023 and four planned over the 2024-2026 period.
- Completed review by the Sewer Advisory Committee in 2022 of recommended updates to the Clallam Bay-Sekiu Sewer System regulations. The next step in first quarter of 2023 is to complete legal review and schedule for County Commissioner review and action following a public hearing.
- Initiated in 2022 sewer nutrient sampling/analysis efforts underway to address Puget Sound Nutrient General Permit requirements.

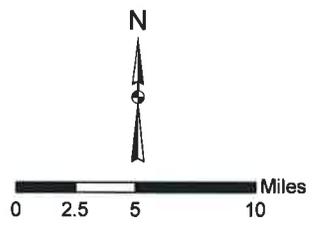
- Completed 90% design for downtown Seiku sewer collection system improvements. Preliminary estimated cost for construction is \$2.0 million to be funded under the ~ \$6.2 million Ecology grant/loan award. Anticipate completing design and going out to bid for construction in 2023.
- In 2023, re-evaluate remaining funding, project priorities, and schedule under the ~ \$6.2 million Ecology grant/loan award to determine next project phases and to guide amendment to project completion date.
- Approved in 2023 budget to hire a needed third wastewater treatment operator.

Challenges

- The Clallam Bay and Sekiu Sewer Systems and WWTPs built in 1977 still rely mostly on the original sewer infrastructure that is now over 45-years old and most of which is past useful service life.
- Compliance of 45-year sewer systems with current state and federal regulations, including the County's National Pollutant Discharge Elimination System (NPDES) Permit and recent Puget Sound Nutrient General Permit requirements.
- Limited current customer base and new UGA development make it challenging to generate sufficient revenue to fully cover general operation and maintenance costs or to build any significant revenue for needed capital improvements. Only two new connections occurred in 2022.
- Addressing infiltration/inflow sources from private property impacting available treatment capacity.
- Public Works Department staffing changes, including recent departure of project engineer for design of sewer collection system improvements.
- Timing and phasing of sewer system collection system improvement projects to minimize impacts during times of significant tourism and fishing season visitation.



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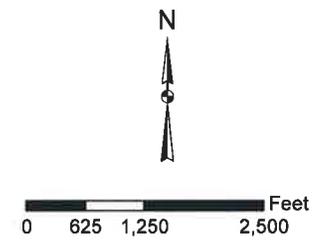
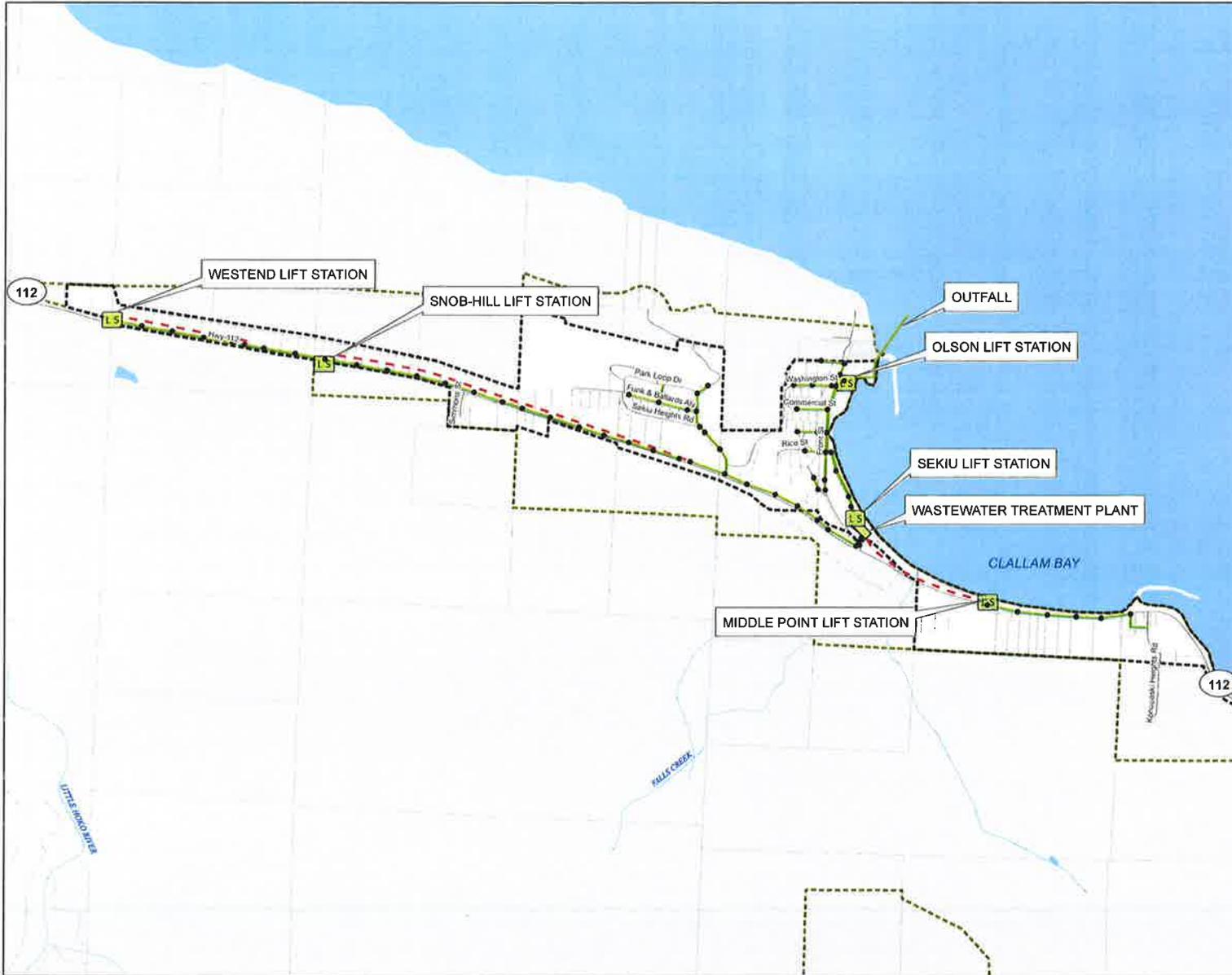
- REGIONAL HIGHWAY
- MAJOR ROAD
- RIVER
- WATERBODY
- PARCEL
- FORKS
- PORT ANGELES
- SEQUIM
- UNINCORPORATED URBAN GROWTH AREA

**CLALLAM BAY/SEKIU
GENERAL SEWER/WASTEWATER
FACILITIES PLAN**

FIGURE 1-1
VICINITY MAP


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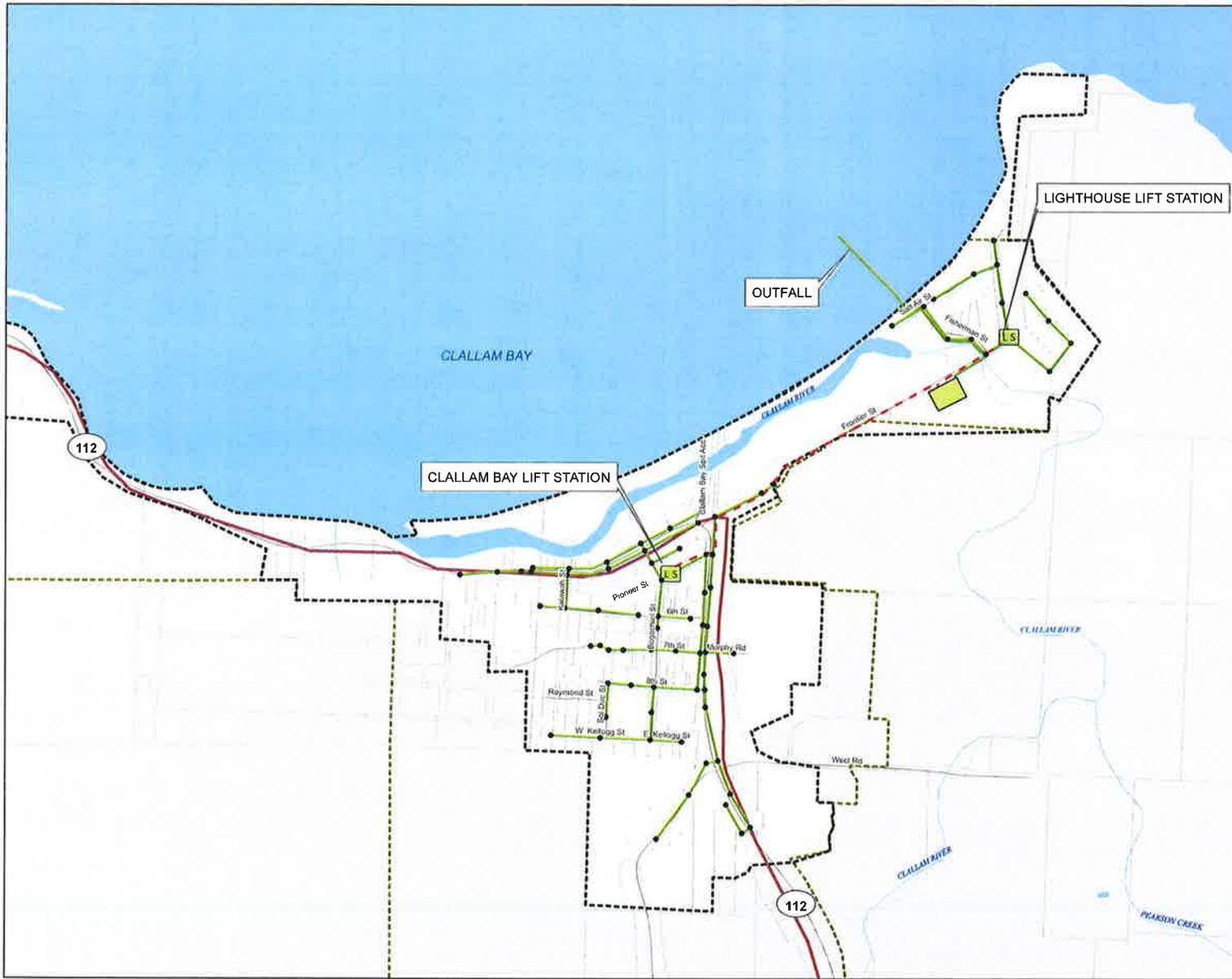
- LEGEND**
- SEWER MANHOLE
 - GRAVITY SEWER PIPE
 - - - FORCE MAIN
 - LS LIFT STATION
 - WASTEWATER TREATMENT PLANT
 - - - CURRENT SEWER SERVICE AREA
 - - - UGA BOUNDARY
 - PARCEL
 - WATERBODY

**CLALLAM BAY/SEKIU
 GENERAL SEWER/WASTEWATER
 FACILITIES PLAN**

 FIGURE 2-1
 SEWER SERVICE AREA (SEKIU)


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LEGEND

- SEWER MANHOLE
- GRAVITY SEWER PIPE
- - - FORCE MAIN
- REGIONAL HIGHWAY
- L.S. LIFT STATION
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**CLALLAM BAY/SEKIU
GENERAL SEWER/WASTEWATER
FACILITIES PLAN**

FIGURE 2-2
SEWER SERVICE AREA (CLALLAM BAY)


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