CWA 401 Water Quality Certification - Modification

version 2.11

(Submission #: HQB-JTJZ-C57PX, version 2)

Details

Site: Seawater Treatment Plant Annual dredging and screeding

Submission ID HQB-JTJZ-C57PX

Form Input

Form Instructions

Form Instructions

Instructions for filling out the 401 Water Quality Certification Request - Modification Form are located on the Alaska DEC website at the link below.
401 Prefiling Meeting Request Form Instructions

Agents: For Delegation of Authority to act on behalf of the applicant in processing the application, use the following form, have signed, and upload with application.

- Delegation of Authority - 401 Application

Modification Reason

Permit Number
POA-2020-066

Are you modifying any of the following things for this permit?
NONE PROVIDED

Modification Description or Section Changes

- If you have a quick description that explains your modification you can add it below.
- Please check any section boxes below if you've made any additional changes in those sections as well.

If changing contact details for anyone associated with the permit or application, please add a note in the Modification Description box below.

Modification Description
CPAI requests to modify the duration of this authorization for an additional five years as dredging and screeding are anticipated to remain a required maintenance activity for the Seawater Treatment Plant. We also request to modify the planned areas of dredging activities, to encompass the outfall line that extends just outside the original areas of activity; however, the authorized amount of dredge material to be discharged will not change. In addition, the previously authorized Coast 1 area that spoils from dredging activities will be placed has been reduced due to natural coastline change. We also request to modify the attachments to this permit with an updated Plan View diagram and a cross-section diagram showing how the spoils are planned to be placed in the upland areas.

Modified Sections
Permit Information
Discharge Information
Attachments
Contact Information

Instructions for filling out the 401 Certification Form are located on the Alaska DEC website at the link below.
401 Certification Form Instructions

Permit Information

Federal Permit License Number
US-POA-2020-00066

Contact Information (1 of 4)

Required Contacts

The following **Contact Roles are *REQUIRED***. Please select the appropriate role(s) for each contact and complete the contact details. Multiple role(s) may be assigned to each unique individual.

- **Applicant** (Responsible Party)
- **Billing Contact**

Edit the contact roles and details as needed. If the contact is no longer active, please remove all roles for the assigned person and indicate the contact is In-Active, and add a new contact with the appropriate roles versus writing over the previous one.

Contact Role(s)
Application Preparer
Billing Contact

Is this contact In-Active?
No

Contact

Prefix
NONE PROVIDED

First Name	Last Name
Terence	Dalton

Title
Environmental Advisor

Organization Name
ConocoPhillips Alaska Inc

Phone Type	Number	Extension
Business	9072634557	

Email
gkaenvpermitting@conocophillips.com

Mailing Address

700 G St

Anchorage, AK 99501

USA

Contact Information (2 of 4)

Required Contacts

The following **Contact Roles are *REQUIRED***. Please select the appropriate role(s) for each contact and complete the contact details. Multiple role(s) may be assigned to each unique individual.

- **Applicant** (Responsible Party)
- **Billing Contact**

Edit the contact roles and details as needed. If the contact is no longer active, please remove all roles for the assigned person and indicate the contact is In-Active, and add a new contact with the appropriate roles versus writing over the previous one.

Contact Role(s)
Applicant

Is this contact In-Active?
No

Contact

Prefix
NONE PROVIDED

First Name	Last Name
Jason	Charton

Title
HSE Manager - Alaska

Organization Name
ConocoPhillips Alaska Inc

Phone Type	Number	Extension
Business	9072634682	

Email
jason.t.charton@cop.com

Mailing Address

700 G St

Anchorage, AK 99501

United States

Contact Information (3 of 4)

Required Contacts

The following **Contact Roles are *REQUIRED***. Please select the appropriate role(s) for each contact and complete the contact details. Multiple role(s) may be assigned to each unique individual.

- **Applicant** (Responsible Party)
- **Billing Contact**

Edit the contact roles and details as needed. If the contact is no longer active, please remove all roles for the assigned person and indicate the contact is In-Active, and add a new contact with the appropriate roles versus writing over the previous one.

Contact Role(s)
Onsite Contact

Is this contact In-Active?
No

Contact

Prefix
NONE PROVIDED

First Name	Last Name
Wendy	Mahan

Title
Kuparuk Field Environmental Coordinator

Organization Name
ConocoPhillips Alaska Inc

Phone Type	Number	Extension
Business	9076597212	

Email
n1438@conocophillips.com

Mailing Address

700 G St

Anchorage, AK 99501

United States

Contact Information (4 of 4)

Required Contacts

The following **Contact Roles are *REQUIRED***. Please select the appropriate role(s) for each contact and complete the contact details. Multiple role(s) may be assigned to each unique individual.

- **Applicant** (Responsible Party)
- **Billing Contact**

Edit the contact roles and details as needed. If the contact is no longer active, please remove all roles for the assigned person and indicate the contact is In-Active, and add a new contact with the appropriate roles versus writing over the previous one.

Contact Role(s)
Agent

Is this contact In-Active?
No

Contact

Prefix
NONE PROVIDED

First Name **Last Name**
Jeanie Shifflett

Title
Staff Environmental Advisor

Organization Name
ConocoPhillips Alaska, Inc.

Phone Type **Number** **Extension**
Business 907-265-6488

Email
jeanie.m.shifflett@conocophillips.com

Mailing Address

PO Box 100360

Anchorage, AK 99510

United States

Project / Facility Site Info

Identify the applicable federal license or permit

A copy of the federal permit or license application is required to be submitted with the request for the water quality certification. (18 AAC 15.130, 18 AAC 15.180)

Federal Agency
Army Corps of Engineers (USACE)

Permit License Number (ex. USACE: POA-XXXX-XXXX; FERC: FERC-xxxx-xxxx; EPA: AK########)
POA-2020-00066

Project Name or Title
Seawater Treatment Plant Annual dredging and screeding

Primary Receiving Waterbody Name
Simpson Lagoon

Estimated Project Dates (+/- 30 days)

Project Estimated Start Date	Project Estimated End/Completion Date
06/18/2025	06/18/2030

Approximate date(s) when any Discharge(s) may commence (+/- 30 days)

Description	Discharge Estimated Start Date	Discharge Estimated End Date
Discharge of spoils from dredging	05/01/2025	10/31/2025
Discharge of spoils from dredging	05/01/2026	10/31/2026
Discharge of spoils from dredging	05/01/2027	10/31/2027
Discharge of spoils from dredging	05/01/2028	10/31/2028
Discharge of spoils from dredging	05/01/2029	10/31/2029

Project Description (Nature of Activity, include all features)
Annual screeding 2.5 acres in the Simpson Lagoon to provide vessels access to Oliktok Dock. Annual dredging within an area of approximately 5.85 acres in the Simpson Lagoon to allow for continued seawater flow at the Seawater Treatment Plant intake bays with annual removal of up to 10,000 cubic yards of material that will be discharged in 5 upland locations above the high tide line for erosion control.

Project Purpose (Describe the reason(s) for discharge)
The intake bays at STP must remain clear in order to maintain proper function. In order for large vessels to access Oliktok Dock, maintenance dredging and screeding must occur in the area identified.

Is any portion of the work already complete?
No

Description of current activity site conditions
The Kuparuk STP plans to conduct maintenance dredging during the May-October window annually due to decreased water flow in the Marine Life Return system. Disposal area Coast 1 has been updated in the permit plan to remove the western portion of the upland disposal area from use as it is separated from the rest of the area by a channel that has formed since the permit authorization in 2020. Coast 1 is also the site of an improper placement of spoils which was reported to USACE by CPAI and a plan for the removal and proper placement of that fill is being developed.

Relevant Site Data, Photographs that Represent Current Site Conditions, or other Relevant Documentation
Oliktok_Point_STP_Screeding_PlanView_TDL_SA_2025.pdf - 04/03/2025 09:49 AM
Comment
NONE PROVIDED

Is this a linear project? (i.e., utility line, road, etc.)
No

Project Address
Seawater Treatment Plant/Oliktok Dock
Kuparuk River Unit
Kuparuk, AK 99734

Visit the link below to help with conversion between DMS and Latitude/Longitude
DSM - Lat/Long converter

Project Location
70.51099948119452,-149.86426714918954

Visit the following link if you need to convert the lat/long to get the **PLSS information**

Converter for Section, Township, and Range

PLSS Location (Public Land Survey System)

State Tax Parcel ID	Borough/Municipality	Meridian	Section	Township	Range
NONE PROVIDED	North Slope Borough	Umiat	5	13N	R9E

Directions to Site
Travel north on Dalton Highway. Travel 34 Miles west of Deadhorse through Milne Point Access point. From Kuparuk Operations Center, take infield road North past CPF3 to Oliktok Dock access road.

Federal Agency Contact (1 of 1)

Have you been working with anyone in the Federal Agency?
Yes

Federal Contact Role
USACE

Federal Agency Contact

First Name	Last Name
Heidi	Zimmer

Title
Regulatory Specialist

Organization Name
U.S. Army Corps of Engineers - Alaska

Phone Type	Number	Extension
Business	907-753-5509	
Mobile	907-229-4435	

Email
heidi.zimmer@usace.army.mil

Dredge Material to be Discharged

Is dredging involved?
Yes

How many acres?
5.85

How much volume? (Cubic Yards)
10,000.00

Is the dredging considered a new project, or maintenance?
Maintenance

If maintenance, how frequent?
Annually

Tier Analysis

A tier analysis is comprised of a layered approach to determine the need for testing the dredge material to aid in generating physical, chemical, toxicity and bioaccumulation information, but not more information than is necessary to make factual determinations.
The tier analysis is a series of tiers (I – IV) or levels of intensity (and cost) of investigation. It is necessary to proceed through the tiers only until information is sufficient to make factual determinations, no further testing is required.

- **Tier I - Site Evaluation and History**. The initial tier (Tier I) uses readily available, existing information (including all previous testing). For certain dredge materials with readily apparent potential for environmental impact (or lack thereof), information collected in Tier I may be sufficient for making factual determinations.
- **Tier II - Chemical Testing** is concerned solely with sediment and water chemistry.
- **Tier III - Biological Testing (bioassay and/or bioaccumulation testing)** is concerned with well-defined, nationally accepte toxicity and bioaccumulation testing procedures.
- **Tier IV - Special Studies** allows for case-specific laboratory and field testing, and is intended to for use in unusual circumstances.

For more information regarding a Tier analysis, see below references

- EPA Inland Testing Manual
- USACE Seattle District Civil Works DMMP User Manual

Has a Tier analysis been conducted of the dredged prism?
No

Note, if marked NO; A Tier analysis may be required later upon review of the request.

For more information regarding a Tier analysis, see below references

- **EPA Inland Testing Manual**
- **USACE Seattle District Civil Works DMMP User Manual**

Fill Material to be Discharged

Will Fill Material be Discharged?
Yes

For fill material, identify the material source
Sediment from the Simpson Lagoon seafloor.

Types of material being discharged and the amount of each type (cubic yards)

Type	Cubic Yards
Dredged sediment	10,000

Surface area in (acres or linear feet) of wetlands or other waters filled

Surface Area	Units
0	Acres

Discharge Location Information (1 of 5)

Identify the location and nature of any potential discharge that may result from the proposed project and the location of receiving waters

Discharge Location ID (001, 002, 003, - increment by one)
001

Location Description
Dock 2

Placement of Dredged/Fill material discharge
Uplands

NOTE: if you have a receiving water that is Wetlands, just enter the generic term "Wetlands". Do not enter "Wetlands of Tanana River", for example.

Please select 'Other' if your waterbody is not in the list below.
You can start typing the name of the waterbody to filter the list.

Receiving Waterbody / Wetlands Name
NA

Discharge Location
70.50838149703772,-149.86619903249684

Discharge Location Information (2 of 5)

Identify the location and nature of any potential discharge that may result from the proposed project and the location of receiving waters

Discharge Location ID (001, 002, 003, - increment by one)
002

Location Description
Dock 1

Placement of Dredged/Fill material discharge
Uplands

NOTE: if you have a receiving water that is Wetlands, just enter the generic term "Wetlands". Do not enter "Wetlands of Tanana River", for example.

Please select 'Other' if your waterbody is not in the list below.
You can start typing the name of the waterbody to filter the list.

Receiving Waterbody / Wetlands Name
NA

Discharge Location
70.5109344885782,-149.86427923877505

Discharge Location Information (3 of 5)

Identify the location and nature of any potential discharge that may result from the proposed project and the location of receiving waters

Discharge Location ID (001, 002, 003, - increment by one)
003

Location Description
Coast 3

Placement of Dredged/Fill material discharge
Uplands

NOTE: if you have a receiving water that is Wetlands, just enter the generic term "Wetlands". Do not enter "Wetlands of Tanana River", for example.

Please select 'Other' if your waterbody is not in the list below.
You can start typing the name of the waterbody to filter the list.

Receiving Waterbody / Wetlands Name
NA

Discharge Location
70.50398919256534,-149.85150574260874

Discharge Location Information (4 of 5)

Identify the location and nature of any potential discharge that may result from the proposed project and the location of receiving waters

Discharge Location ID (001, 002, 003, - increment by one)
004

Location Description
Coast 1

Placement of Dredged/Fill material discharge
Uplands

NOTE: if you have a receiving water that is Wetlands, just enter the generic term "Wetlands". Do not enter "Wetlands of Tanana River", for example.

Please select 'Other' if your waterbody is not in the list below.
You can start typing the name of the waterbody to filter the list.

Receiving Waterbody / Wetlands Name
NA

Discharge Location
70.50031452463683,-149.835661860218

Discharge Location Information (5 of 5)

Identify the location and nature of any potential discharge that may result from the proposed project and the location of receiving waters

Discharge Location ID (001, 002, 003, - increment by one)
005

Location Description
Coast 2

Placement of Dredged/Fill material discharge
Uplands

NOTE: if you have a receiving water that is Wetlands, just enter the generic term "Wetlands". Do not enter "Wetlands of Tanana River", for example.

Please select 'Other' if your waterbody is not in the list below.
You can start typing the name of the waterbody to filter the list.

Receiving Waterbody / Wetlands Name
NA

Discharge Location
70.50135009342091,-149.8446168655416

Other Pollutant Sources

Contaminated Site Information

Determine if your project is **within 1,500 feet** of a known Alaska DEC Contaminated Site. See the *Alaska DEC Contaminated Web Map* below. This will help you to identify if any potential pollutants/parameters of concern may be present on your project

site., see DEC's website:

- Contaminated Sites Web Map
- Contaminated Sites Database Search website

Is the project within 1,500 feet of a known contaminated site?
Yes

Contaminated Sites

Hazard ID#	Contaminated Site Name	Contaminant Type	Latitude	Longitude	In soil or groundwater?	CS Staff Contact
25996	Oliktok DEW Fuel Tank Farm (Fuel Storage Area) SS009b	Unknown	70.5120	-149.8686	Unknown	No Longer Assigned

Describe the identified contaminated site(s) or groundwater plume within 1,500 feet
Cleanup is complete, but there is a site within 1,500 feet.

Oliktok DEW Fuel Tank Farm (Fuel Storage Area) SS009b

Parameters of Concern that may be present in discharge

Parameter(s) of Concern

Identify the parameters of concern that may be present in your discharge from the dredge and/or fill material.

Note, **TURBIDITY** and **SEDIMENT** are routine parameters associated with dredge and/or fill activities.

Consider if other parameters may be present from past activities in the area such as contamianted site data, impaired waters or other relevant water quality data, or other parameters of concern identified during the application process.

Parameter(s)
Turbidity
Sediment

If known, describe respective concentrations, persistence, and potential impacts to the receiving water and data on parameters that may alter the effects of the discharge to the receiving water
There is a chance of minor increased turbidity and sedimentation during dredging and screeding activities, however the project area is in a location with regular wave action so any increase in turbidity or sedimentation is expected to be minimal.

Impaired Waters

An ***impaired waterbody*** are those listed as a **Category 4 [304(b)] or Category 5 [303(d)]** in the current EPA approved *Alaska's Integrated Water Quality Monitoring and Assessment Report.*

For the most recently *Approved Integrated Water Quality Monitoring And Assessment Report (Integrated Report)*, see DEC's website:

- **Integrated Water Quality Monitoring And Assessment Report** https://dec.alaska.gov/water/water-quality/integrated-report

Does a discharge of any parameter identified above occur to an impaired waterbody?
No

If determined necessary and requested by the Department, submit sufficient and credible baseline water quality information for the receiving water which meets the requirements of 18 AAC 70.016(a)(6)(A-C).

Avoidance & Minimization BMPs and Mitigation Measures

Describe how impacts are being avoided and minimized on the project site. Include best management practices (BMPs) for sediment and erosion controls that will be implemented to minimize environmental impacts, and any methods and means proposed to monitor the discharge and the equipment or measures planned to treat, control, or manage the discharge.

Include a description of any methods and means proposed to monitor the discharge and the equipment or measures planned to treat, control, or manage the discharge
Sediment removed during dredging activities will only be deposited in approved upland sites and will be placed to avoid erosion.

Avoidance Measures
There are no practicable alternatives to the project, given the intake bays at STP must remain clear in order to maintain proper function and in order for large vessels to access Oliktok Dock, maintenance dredging and screeding must occur in the area identified. The quality of existing water uses will not be diminished. Furthermore, similar activities have been conducted at STP for the past 35 years. Dredging and screeding activities are temporary and discrete in nature. There is potential for minor and temporary water quality impacts from increased turbidity on waters in the immediate vicinity of dredging and screeding activities in the Beaufort Sea. However, the proposed activities will occur in an area where wave action and other natural processes already contribute to increased turbidity.

Minimization Measures
Dredging and screeding will only be conducted to the extent necessary to ensure function of systems within the STP and access to the Oliktok Dock.

Mitigation Measures
Sediment removed during dredging activities will only be deposited in approved upland sites and will be placed to avoid erosion.

Social / Economic Importance

Social or Economic Importance

(18 AAC 70.016(c)(5): Provide information that demonstrates the accommodation of important social or economic development. The applicant shall complete either a social OR economic importance analysis (or both) for each affected community in the area where the receiving water for the proposed discharge is located.

Social Importance Analysis
Infrastructure improvements

Economic Importance Analysis
Employment, job availability, and salary impacts
Access to a transportation network

Describe Social and/or Economic Importance of the project
The Kuparuk Seawater Treatment plant is a vital piece of infrastructure in the Kuparuk River Unit for Oil and Gas production. The intake bays at STP must remain clear in order to maintain proper function and in order for large vessels to access Oliktok Dock, maintenance dredging and screeding must occur in the area identified. Similar activities have been conducted at STP and the dock for the past 35 years throughout the life of the Kuparuk River Unit oil field. A small portion of the jobs related to this activity may be filled by residents of the North Slope Borough. The continued activity in this project supports continued access to the Oliktok Dock, which is a vital portion of the north slope transportation network.

Description of Social or Economic Importance, if needed
NONE PROVIDED
Comment
NONE PROVIDED

List of Other Permits or Certificates

*Would include but is not restricted to zoning, building, and flood plain permits.

Include a list of all other federal, interstate, tribal, state, territorial, or local agency authorizations required for the proposed project, including all approvals or denials already received.

Agency	Type of Approval*	Identification Number	Date Applied	Date Approved	Date Denied
North Slope Borough	Administrative Approval	20-312	12/09/2019	12/17/2019	*NONE PROVIDED*
USACE	POA-2020-00066	POA-2020-00066	12/09/2019	06/15/2020	*NONE PROVIDED*

Other Agency or Local Contacts (1 of 1)

Contact Role
OTHER_REG_CNTCT

Other Agency and or Local Contacts

First Name **Last Name**
Tyler Marye

Title
Project Manager

Organization Name
US Army Corps of Engineers, Alaska District

Phone Type **Number** **Extension**
Business 907-753-5778

Email
Tyler.J.Marye@usace.army.mil

Attachments

Copy of Federal Application (USACE, EPA, or FERC, etc.)
20250204 CPAI Submittal - Modification Request POA_2020_00066_Time Extension.pdf - 04/03/2025 11:49 AM
Comment
NONE PROVIDED

Figures and/or Drawings/Plan Sets. To include a map or diagram of the proposed activity site, including the proposed activity boundaries in relation to local streets, roads, and highways.
Oliktok_Dock_STP_UPDATE_Plan_View_CPAI_2025.pdf - 04/03/2025 11:48 AM
Oliktok_Dock_STP_Mainenance Dredging Placement_Exhibit.pdf - 04/03/2025 11:50 AM
Comment
NONE PROVIDED

Document Attachments
NONE PROVIDED
Comment
NONE PROVIDED

Delegation of Authority for Submission of Application
Delegation of Signature Authority.pdf - 04/03/2025 03:32 PM
Comment
NONE PROVIDED

As per 18 AAC 15.030 signing of applications, all permit or approval applications must be signed as follows:
1) in the case of corporations, by a principal executive officer of at least the level of vice president or his duly authorized representative, if the representative is responsible for the overall management of the project or operation;
2) in the case of a partnership, by a general partner;
3) in the case of a sole proprietorship, by the proprietor; and
4) in the case of a municipal, state, federal or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Revisions

Revision	Revision Date	Revision By
Revision 1	4/3/2025 9:27 AM	terence.dalton@conocophillips.com terence.dalton@conocophillips.com
Revision 2	5/8/2025 3:39 PM	jeanie.m.shifflett@conocophillips.com jeanie.m.shifflett@conocophillips.com

Agreements and Signature(s)

As per 18 AAC 15.030 signing of applications, all permit or approval applications must be signed as follows:
1) in the case of corporations, by a principal executive officer of at least the level of vice president or his duly authorized representative, if the representative is responsible for the overall management of the project or operation;
2) in the case of a partnership, by a general partner;
3) in the case of a sole proprietorship, by the proprietor; and
4) in the case of a municipal, state, federal or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.
The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Signed By jeanie.m.shifflett@conocophillips.com jeanie.m.shifflett@conocophillips.com on 05/08/2025 at 4:05 PM