

ADDENDUM NO. 1
TO THE BID DOCUMENTS
TASMANIA COURT SEWER MAIN EXTENSION
CITY OF HOMER, ALASKA

Addendum Issue Date: October 26, 2021

Bid Submittal Date: November 30, 2021

Previous Addenda Issued: 0

Issued By: Janette Keiser, PE
Public Works Director
City of Homer

Notice to Bidders:

Bidders must **acknowledge receipt of this Addendum** by including the Addenda Acknowledgement Form with the bid.

Bidders are required to acknowledge each addenda separately on the Addenda Acknowledgement Form. Any bids received without acknowledgment of addenda may be rejected prior to evaluation.

The Bid Documents for the above project are amended as follows (all other terms and conditions remain unchanged):

1. A combined SWPPP for the Tasmania Ct Water and Sewer Main Extensions has been completed and is attached to this addendum.
2. New special provisions have been added providing specifications for construction of pressurized sewer services, E-One Grinder Pumps and a list of locations for septic tanks to be decommissioned. An updated bid form is also attached to reflect the new specifications.

CONSOLIDATED BID FORM

Tasmania Court Water & Sewer Main Extension

Scope A: Tasmania Ct. Water Main Extension

All of the following Bid Items are for the construction of the WATER MAIN & appurtenances.

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION – Water Main & Appurtenances	UNIT	QTY	UNIT BID PRICE	TOTAL BID PRICE
1	101	Mobilization/Demobilization	LS	1		
2	602	Install 8” HDPE SDR11 Water Pipe	LF	940		
3	603	Furnish & Install 8” Gate Valve	EA	3		
4	604	Furnish & Install Single Pumper Hydrant	EA	3		
5	606	Furnish & Install 1” Water Service Connection	EA	11		
6	207	Excavate & Backfill Structural Trench Section for water line	LF	593		
7	207	Excavate & Backfill Non-Structural Trench Section for water line	LF	752		
8	102	Construction Survey	LS	1		
9	221	SWPPP Implementation	LS	1		
10	702	Furnish & Install Geotextile Fabric	SY	600		
11	602	Furnish and install 12” HDPE SDR11 Water Pipe	LF	562		
12	603	Furnish and install 12” Gate Valve	EA	1		
13	503	Furnish and Install ARV Manhole	EA	1		
14	603	Furnish and Install 3” ARV Assembly	EA	1		
Total Bid for Scope A – Water Main						

Scope B-1: Tasmania Ct. Sanitary Sewer Main Extension

All of the following Bid Items are for the construction of the SEWER MAIN & appurtenances, but not including the installation of the E-One Grinder Pumps.

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION – Sewer Main & Appurtenances	UNIT	QUAN TITY	UNIT BID PRICE	TOTAL BID PRICE
1	101	Mobilization/Demobilization	LS	1		
2	502	Furnish & Install 8”DIP Class 50 Sewer Pipe	LF	1276		
3	518	Furnish & Install 16” HDPE SDR11 Casing	LF	49		
4	503	Furnish & Install Sewer Manhole	EA	2		
5	508	Furnish & Install Cleanout	EA	3		
6	510	Furnish & Install Sanitary Sewer Service Stub-out	EA	9		
7	518	Furnish & Install Pressurized Sewer Service Stub-out	EA	2		
8	207	Excavate & Backfill Structural Trench Section	LF	869		
9	207	Excavate & Backfill Non-Structural Trench Section	LF	723		
10	704	Furnish & Install 4” Thick Insulation	BOARD FOOT	48		
11	102	Construction Survey	LS	1		
12	221	SWPPP Implementation	LS	1		
13	103	Traffic Control	LS	1		
14	516	Remove & Dispose of Existing Septic Tank	EA	5		

Total Bid for Scope B-1 – Sewer Main: \$_____

Scope B-2: Tasmania Ct. Sewer Main E-One Service Connections

All of the following Bid Items are for the construction of the E-One Grinder Pumps on private property.

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION	UNIT	QUANTITY	UNIT BID PRICE	TOTAL BID PRICE
1	101	Mobilization/Demobilization	LS	1		
2	712	Furnish & Install E-One DH071 Grinder Pump	EA	2		
3	502	Furnish & Install 1.25" HDPE SDR11 sewer service pipe	LF	300		
4	220	Excavate & Backfill Asphalt Pavement Trench Section	LF	20		
5	207	Excavate & Backfill Non-Structural Trench Section	LF	280		
6	102	Construction Survey	LS	1		
7	516	Remove & Dispose of Existing Septic Tank	EA	2		

Total Scope B-2 – E-1 Grinder Pumps on Private Property: \$ _____

Consolidated Bid Amount – All Bid Items (Scope A + Scope B-1 + Scope B-2): \$ _____

Note: Basis of bid will be the Consolidated Bid Amount.

Name of Bidding Company _____

Address of Bidding Company _____

Signature of Company Representative _____ Date _____

Printed Name of Company Representative _____

Phone#/Email _____

SPECIAL PROVISIONS

Tasmania Court Sewer Main Extension

The construction contract for this project will be administered in accordance with the General Provisions of the City's Standard Construction Specifications (2011).

MODIFICATIONS TO GENERAL PROVISIONS

SP - 1: Section 10.02 - Add New Article 2.6 – Anti-Discrimination

The contractor shall not discriminate on the basis of race, color, national origin or sex in the performance of this contract. The contractor shall carry out applicable requirements of 40 CFR part 33 in the award and administration of contracts awarded under EPA financial assistance agreements. Failure by the contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies.

SP - 2: Section 10.04 – Add New Article 4.6 – Scope of Work

The Work included under this Contract consists of furnishing all labor, materials, equipment, supervision, and other facilities necessary to successfully complete the Work set forth in the drawings, specifications, and the terms of the Contract, including, but not limited to the following work:

- Excavation required to bury a new sewer main at the depth specified in the plans, including exposing an existing sewer main connection so that the new sewer main can be connected to it.
- Installation of 1276 feet of 8-inch DIP Class 50 sewer pipe.
- Installation of sewer service connections to 11 parcels, including 2 parcel connected through E-Ones Grinder Pumps.
- Installation of 2 manholes.
- Decommission 7 existing septic tanks.
- Excavation and backfill of structural and non-structural trench sections.
- All materials will be provided by the Contractor.
- Work required by the SWPPP
- Traffic control

SP – 3 Article 5.12 – Temporary Erosion Control During Construction

Add the following language:

“The City has prepared a Storm Water Pollution Prevention Plan (SWPPP), which will be included in an Addenda. The Contractor is required to implement the Best Management Practices in the SWPPP and otherwise comply with the terms of the SWPPP. Compensation will be paid under Bid Item #12 of Scope B-1, SWPPP Implementation.”

SP - 4: Article 5.19 - Easement and Rights-of-way

Add the following language:

“The Contractor will be provided access to a laydown area for material storage, job shack, and other uses. The location of this area will be shown in the site map.”

SP - 5: Article 5.25 - Unusual Work Hours

Add the following sentence:

“The noise level from work completed before 8:00 AM and after 8:00 PM cannot exceed 75 db at a distance of 50 feet.”

MODIFICATIONS TO STANDARD SPECIFICATIONS

DIVISION 100 GENERAL DIVISION

SECTION 102 CONSTRUCTION SURVEYING BY THE CONTRACTOR

SP - 7: 102.1 General

Add the following paragraph:

“The Contractor shall submit all survey data with each pay application; Field Books with sketches, professionally scaled plan set redlines and electronic survey coordinates. These items shall be submitted in entirety within 10 days of the project completion. In addition, the as-built information shall also be in NAD 83 datum, the City of Homer will provide the coordinate system at the time of contract award. All files submitted must be in PDF format.”

DIVISION 200 EARTHWORK

SECTION 208 COMPACTION CONTROL BY THE CONTRACTOR

SP - 8: Delete all text within section 208 and replace with:

“The City will provide field compaction testing for quality control.”

SP- 9: New Section 220 – Excavate and Backfill Asphalt Pavement Trench Section

220.1 General

The work under this section consists of performance of all operations pertaining to the trench excavation and backfill within areas containing asphalt concrete pavement in accordance with the limits shown on the drawings and as directed by the Engineer.

220.2 Construction

The contractor shall excavate trenches within areas containing asphalt concrete pavement per HSCS Section 207. Bedding material shall be Class “C” per HSCS Section 211 and backfilled in conformance with HSCS Section 207. Classified Fill Type III and Leveling Course shall be installed in conformance with HSCS Sections 205 and 206, respectively. Asphalt Concrete shall be installed in conformance with HSCS Division 400.

220.3 Method of Measurement

Excavate and Backfill Asphalt Pavement Trench Section shall be measured by the lineal foot (LF) with the dimensions shown on the drawings and these specifications. Payment for Excavate and Backfill Asphalt Pavement Trench Section includes all labor, materials, and incidentals for excavating, backfilling, and placing asphalt concrete surfacing.

220.4 Basis of Payment

Payment shall be made under the following unit:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
220	Excavate and Backfill Asphalt Pavement Trench Section	LF

SP- 10: New Section 221 – SWPPP Implementation

221.1 General

Work under this section consists of all activities related to implementing the requirements of the SWPPP for this project.

221.2 Construction

The contractor shall adhere to all terms and conditions and shall implement all BMPs as stated in the SWPPP.

221.3 Method of Measurement

SWPPP Implementation shall be measured by lump sum.

221.4 Basis of Payment

Payment shall be made under the following unit:

ITEM	DESCRIPTION	UNIT
221	SWPPP Implementation	LS

DIVISION 500 SEWER SYSTEMS

SP-11: Add New Section 515 Connection to Existing Sewer Main

515.1 General

There is an existing 8” sewer main running along the south side of South Slope Drive. The new 8” sewer main will be connected to this existing one. This item consists of furnishing all labor, equipment and materials necessary to expose the existing sewer main stub out, modify the end of the stub out as required and connect the new sewer main to the stub out.

515.2 Construction

- A. Rinse all pipe, fittings, and couplings to be used in the connection with a 5% solution of sodium hypochlorite or calcium hypochlorite immediately prior to installation.
- B. Leave the entire reconnection assembly exposed to view until sewage is flowing through the connection and all joints have been examined for leaks.

SP-12: New Section 516 – Decommission Existing Septic Tanks and Biocycle Units

516.1 General

The work under this section consists of performance of all operations pertaining to the removal, disposal, backfilling, and replacement and repair of landscaping as required to decommission existing septic tanks and biocycle units on properties connecting to the City of Homer sanitary sewer system shown on the drawings and as directed by the Engineer.

The following table itemizes the location and type of septic tank to be decommissioned a part of gravity sanitary sewer connection to the new sanitary sewer main:

Address	Tank Size and Material	Location Relative to Existing Cleanout
---------	------------------------	--

		Connection to New Service
786 W. Tasmania Court	1250 gallon, steel	10 feet +/- south of cleanout connection
814 W. Tasmania Court	1250 gallon, steel	20 feet +/- south of cleanout connection
825 W. Tasmania Court	1250 gallon, steel	30 feet +/- southwest of cleanout
842 W. Tasmania Court	1250 gallon, steel	30 feet +/- south of cleanout connection
4526 South Slope Drive	1000 gallon, steel	20 feet +/- south of cleanout connection

The following table itemizes the location and type of septic tank to be decommissioned and replaced with a pressurized sewer service connection:

Address	Tank Size and Material	Location Relative to Cleanout Connection to New Service
795 W. Tasmania Court	1250 gallon, steel & 1500 gallon, steel (Biocycle Unit)	6 feet +/- and 40 feet +/- west of cleanout connection
907 E. Tasmania Court	1500 gallon, steel	10 feet +/- south of cleanout connection

516.2 Construction

The contractor shall remove the wastewater from all compartments and dispose of wastewater per Alaska Department of Environmental Conservation (ADEC) regulations at an approved ADEC disposal site.

The septic tanks and biocycle units shall be removed and disposed of per ADEC regulations at an approved disposal site.

The resulting void after removal of the tanks and biocycle units shall be backfilled with Classified Fill Type IV, or material approved by the Engineer, per HSCS Section 205. The fill shall be compacted to 90% maximum relative density per HSCS Section 208 for every 10 cubic yards of fill placed. The final grade of the fill shall match the slope and grade of the surrounding existing ground but shall not allow surface water to be retained within the surface limits of the fill.

The surface shall be seeded with a lawn grass seed mix commercially available in South Central Alaska per the manufacturer's recommendations.

516.3 Method of Measurement

Decommission Existing Septic Tanks and Biocycle Units shall be paid for each unit decommissioned (EA). Payment for Decommission Existing Septic Tanks and Biocycle Units includes all labor, materials, and incidentals for removing wastewater, removal and disposal

of the septic tanks and biocycle units, backfill and compaction, and seeding the fill surface limits.

516.4 Basis of Payment

Payment shall be made under the following unit:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
516	Decommission Existing Septic Tanks and Biocycle Unit	EA

SP-13: New Section 517 – Furnish and Install 16” HDPE SDR 11 Casing

517.1 General

The work under this section consists of providing all operations pertaining to the furnishing and installation of 16” high density polyethylene casing around ductile iron pipe, where shown on the plans.

517.2 Construction

HDPE pipe material for casing shall be dimensioned for iron pipe sizing (IPS) and meet the maximum standard dimension ratio SDR of 11

517.3 Method of Measurement

Furnish and Install 16” HDPE SDR 11 Casing shall be measured by the lineal foot (LF) with the dimensions shown on the drawings and these specifications. Payment for Furnish and Install 16” HDPE SDR 11 Casing includes all labor, materials, and incidentals for placing the casing around ductile iron pipe.

517.4 Basis of Payment

Payment shall be made under the following unit:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
517	Furnish and Install 16” HDPE SDR 11 Casing	LF

SP-14: NEW SECTION 518 – PRESSURE SEWER SERVICE CONNECTIONS

518.1 General

The work under this section consists of providing all operations pertaining to the construction required for pressure sewer service connections.

518.2 Materials

All pressure sanitary sewer service connections shall be constructed with ductile iron with “Tyton” joints except where a mechanical joint is used to attach the short body plug.

All services with less than five feet (5') of cover shall be insulated with sufficient two-inch (2") DOW Styrofoam “HI” to provide an equivalent of five feet (5') of soil cover. The insulation shall be two feet (2') in width and shall be placed no closer than six inches (6") above the pipe and no further than one foot (1') above the pipe, centered. IFCO 725-P saddle or equal shall be secured with a double strap or a single stainless steel band of two and one-half inches (2-1/2") inches or more in width.

518.3 Construction

Excavation and backfill for sanitary sewer service connections shall be in accordance with HSCS Division 200, Standard Specifications for Earthwork, Section 207, Trench Excavation and Backfill, of these specifications.

The service connections shall be bedded with non-frost susceptible material, with a fine granular texture containing no material larger than one and one-half inches (1-1/2"). The bedding shall be laid the full extent of ditch and up to the spring line of the service connect. Piping may be bedded with native soils if approved in advance by the Engineer.

Saddles shall be placed over a hole sawed no larger than one-eighth inch (1/8") larger than the inside diameter of the service line. The strap(s) shall be tightened in accordance with the manufacturer’s instructions and centered over the hole sawed in the pipe being tapped. The hole shall be made above the spring line of the main being tapped.

Sanitary sewer service connections, shall be installed to the edge of right-of-way or the edge of the permanent easement of the lot being served and shall be permanently marked by means of a two by four (2" x 4") extending two feet (2') above grade, painted white and stenciled with the word “Sewer” in white, two-inch (2") high letters.

As-built measurements shall be the station of the service connection at the main plus a minimum of two (2) ties to prominent features and when possible ties to property corners. An as-built elevation of the stub end invert is required.

Minimum slopes for the 4" ductile iron pipe shall be 2.08%, (1/4" per foot) sloped down to the main

518.4 Method of Measurement

Pressure Sewer Service Connections shall be measured as completed units in place. This item will include all materials, excavation, installation, compaction, and installation of Class “B” bedding. Imported backfill will be paid separately as a bid item or by letter of agreement.

518.5 Basis of Payment

Payment shall not be made for any service which does not include the as-built stub end elevation and horizontal location as stipulated above.

Payment shall be made under the following unit:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
518	Pressure Sewer Service Connection	EA

DIVISION 700 MISCELLANEOUS CONSTRUCTION

SP-15: NEW SECTION 712 – FURNISH AND INSTALL E-ONE DH071 GRINDER PUMP

712.1 General

This specification covers the installation of E-One Sewer System’s E-One DH071 grinder pump as detailed and specified in the plans and these special provisions.

The contractor’s attention is directed to the following E-One System’s publications:

1. DH071/DR071 Drawings (Standard Details in PDF and Autocad format)
2. DH071/DR071 Installation Instructions (Manual in PDF format)

These publications are available at:

<https://eone.com/sewer-systems/products/grinder-pump-systems/d/dh071>

712.2 Construction

The contractor shall install the E-One DH071 grinder pumps per the manufacturer’s instructions and the construction notes shown in the plans.

The contractor shall locate all buried on-site utilities before any excavation work. Buried on-site utilities may include, gas, electric, telecommunications, boiler heat tubes between buildings, and sewer.

712.3 Method of Measurement

Furnish and Install E-One DH071 Grinder Pump shall be paid for by each unit (EA).

712.4 Basis of Payment

Payment for Furnish and Install E-One DH071 Grinder Pump includes all labor and incidentals for furnishing and installing the units, complete in place including all wiring and plumbing connections. Payment shall be made under the following unit:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
712	Furnish and Install E-One DH071 Grinder Pump	EA

Storm Water Pollution Prevention Plan For

South Slope Drive, West Tasmania Court, and East Tasmania Court
City of Homer Water and Sewer Main Extension
Within City of Homer Right-of-Way
Homer, Alaska 99603
(907) 235-3170

Operator(s)

City of Homer
Janette Keiser
3575 HEATH St
Homer, Alaska 99603
(907) 235-3170
jkeiser@ci.homer.ak.us

SWPPP Contact(s)

Bishop Engineering LLC
Shannon Cefalu
PO Box 2501
Homer, Alaska 99603
360-317-3975
scefalu@bishop-engineering.com

SWPPP Preparation Date

10/25/2021

Estimated Project Dates

Start of Construction	Completion of Construction
<u>12/24/2021</u>	<u>9/30/2022</u>

APDES Project or Permit Authorization Number:

Storm Water Pollution Prevention Plan (SWPPP)

OPERATOR PLAN AUTHORIZATION/CERTIFICATION/DELEGATION

(To be signed by Responsible Corporate Officer)

I state that based on my review this SWPPP meets the minimum requirements of the Construction General Permit and that **Janette Keiser** has day-to-day operational control of the project site. **Janette Keiser** is responsible for the maintenance and implementation of the SWPPP including inspections, documentation, and application of the Best Management Practices at the site. **Janette Keiser** will notify all subcontractors of the requirement of this SWPPP. **Janette Keiser** has operational control over the project specifications, including the ability to make changes to the project specifications.

I hereby designate _____, SWPPP Administrator as my authorized representative. This designee is responsible for the overall operations of the site and will be responsible for the implementation of the Storm Water Pollution Prevention Plan, compliance with the Construction General Permit, selecting and implementing additional Best Management Practices as conditions warrant, and signing all inspection reports required.

I certify under penalty of law that this document and all attachments were prepared under direction of **Janette Keiser** in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Janette Keiser

Signature

Date

Printed Name

Title

Storm Water Pollution Prevention Plan (SWPPP)

South Slope Drive, West Tasmania Court, and East Tasmania Court Water and Sewer Main Extension

DATE: 10/25/2021

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Storm Water Pollution Prevention Plan (SWPPP)

South Slope Drive, West Tasmania Court, and East Tasmania Court Water and Sewer Main Extension

DATE: 10/25/2021

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Storm Water Pollution Prevention Plan (SWPPP)

South Slope Drive, West Tasmania Court, and East Tasmania Court Water and Sewer Main Extension

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Storm Water Pollution Prevention Plan (SWPPP)

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- C. Project Schedule
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 - Endangered Species
 - Other Permits or Requirements
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- F. Permit Conditions:
 - Copy of Signed Notice of Intent
 - Copy of Letter from ADEC Authorizing Coverage, with ADEC NOI Tracking Number
 - Copy of 2021 Construction General Permit
- G. Grading and Stabilization Records
- H. Monitoring Plan (If Applicable) and Reports
- I. Training Records
- J. Corrective Action Log
- K. Inspection Records
- L. Rainfall Records

Storm Water Pollution Prevention Plan (SWPPP)

South Slope Drive, West Tasmania Court, and East Tasmania Court Water and Sewer Main Extension

DATE: **10/25/2021**

1.0 PERMITTEE (5.3.1)

1.1 Operator(s)/Contractor(s)

Operator Information			
Organization: City of Homer	Name: Janette Keiser	Title: Public Works Director	
Phone: 907-235-3170	Fax (optional):	Email: jkeiser@ci.homer.ak.us	
Mailing Address:	Street (PO Box): 3575 Heath St		
	City: Homer	State: Alaska	Zip: 99603
Area of Control	Day-to-day operational control of those activities at a site which are necessary to ensure compliance with a SWPPP or other permit conditions.		

Owner/Operator Information			
Organization: City of Homer	Name: Janette Keiser	Title: Public Works Director	
Phone: 907-235-3170	Fax (optional):	Email: jkeiser@ci.homer.ak.us	
Mailing Address:	Street (PO Box): 3575 Heath St		
	City: Homer	State: Alaska	Zip: 99603
Area of Control	Operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.		

1.2 Subcontractors

Subcontractor Information			
Organization: TBD	Name:	Title:	
Phone:	Fax (optional):	Email:	
Mailing Address:	Street (PO Box):		
	City:	State:	Zip:
Area of Control			

Storm Water Pollution Prevention Plan (SWPPP)

2.0 STORM WATER CONTACTS (5.3.2)

<u>Qualified Personnel</u>	<u>Responsibility</u>
<p>Storm Water Lead City of Homer Janette Keiser 3575 Heath St Homer, AK 99603 907-235-3170 jkeiser@ci.homer.ak.us</p>	<p>Authority to stop and/or modify construction activities as necessary to comply with the SWPPP and the terms and conditions of the permit.</p>
<p>SWPPP Preparer Bishop Engineering LLC Shannon Cefalu PO Box 2501 Homer, AK 99603 360-317-3975 scefalu@bishop-engineering.com</p>	<p>Possess the skills to assess conditions at the construction site that could impact storm water quality. Familiar with Part 5 as a means to implement the permit.</p>
<p>Storm Water Inspector City of Homer Janette Keiser 3575 Heath St Homer, AK 99603 907-235-3170 jkeiser@ci.homer.ak.us</p>	<p>Assess conditions at the construction site that could impact storm water quality. Assess the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharge, and familiar with Part 6 as a means to ensure compliance with the permit.</p>
<p>Monitoring Person</p>	<p>Knowledgeable in the principles and practices of water quality monitoring who is familiar with Part 7 and the monitoring plan for the site and how to conduct water quality sampling, testing, and reporting.</p>
<p>Active Treatment System Operator</p>	<p>Knowledgeable in the principles and practices of treatment systems that employs chemical coagulation, chemical flocculation or electrocoagulation to aid in the treatment of storm water runoff. Familiar with Part 4.5 as a means to implement and comply with the permit.</p>

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3.0 PROJECT INFORMATION (5.3.3)

3.1 Project Information

Project Name: SOUTH SLOPE DRIVE, WEST TASMANIA COURT, AND EAST TASMANIA COURT CITY OF HOMER WATER AND SEWER MAIN EXTENSION			
Location Address:	Street: SOUTH SLOPE DRIVE, WEST TASMANIA COURT, AND EAST TASMANIA COURT	Borough or similar government subdivision: Kenai Peninsula Borough	
	City: Homer	State: Alaska	Zip: 99603
	Latitude (decimal degree, 5 places): 59.65563 ° N	Longitude (decimal degree, 5 places): 151.52229 ° W	
	Determined By: <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Web Map: GIS Information <input type="checkbox"/> USGS Topo Map, Scale: Enter Text <input type="checkbox"/> Other: Enter Text		

3.2 Project Site Specific Conditions (5.3.3)

Mean annual precipitation based on nearest weather stations (inches): The project is located in Homer, Alaska nearest weather station 503664, Homer WSO Airport, Alaska. Homer has an annual mean precipitation of 24.64 inches and average total snowfall of 54.9 inches during months October through April.
(<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?akhome>)

Predicted rainfall intensity for 2-year 24-hour storm at the project latitude and longitude is 1.66 inches. Rainfall intensity information is from NOAA Atlas 14. NOAA link:
http://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_ak.html.

Soil Type(s) and Slopes (*describe soil type(s) and current slopes; note any changes due to grading or fill activities*): This project site consists of gravel roading and native soils. The native soil on the west portion of the property consists of Beluga Silt Loam, composed of moderately decomposed plant material from 0-5 inches, underlain by silt loam from 5-32 inches. The native soil on the east, and part of the south, portion of the property is Kachemak Silt Loam, consisting of slightly decomposed plant material from 0-3 inches, underlain with silt loam from 3-60 inches. The native soil on the remainder of property to the south consists of Beluga-Mutnala complex, composed of moderately decomposed plant material from 0-5 inches and silt loam from 5-32 inches down.

Trenching will take place through gravel road structural section and native soils. Trench backfill will consist of Class B Bedding around the water main and Type II Classified Fill for the remaining backfill per City Standard Construction Specifications.

<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

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The site slopes 6% to the SW along West Tasmania Court, 8% S along South Slope Drive, and 6-8% Slopes S along East Tasmania Court.

<https://gis.kpb.us/map/index.html?viewer=terrain>

Landscape Topography: Gently sloping to the south.

Drainage Patterns (*describe current drainage patterns and note any changes due to grading or fill activities*):

General drainage direction is to the south. Roadside ditch exists on the north side of Tasmania Courts and the west side of South Slope Drive. One cross-culvert directs roadside ditch runoff from the north side to the south side of West Tasmania Court roadway.

Approximate Growing Season: Cook Inlet Basin growing season lasts from May 8th through October 5th for. Grow season is per Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Alaska Region, September 2007. USACE

link: http://www.usace.army.mil/portals/2/docs/civilworks/regulatory/reg_supp/erdc-el_tr-07-24.pdf.

Type of Existing Vegetation: Herbaceous grasses, alders, spruce.

Historic site contamination evident from existing site features and known past usage of the site: A review of contaminated sites on the State's online map identified that no active sites are located within 200 feet of this project.

4.0 NATURE OF CONSTRUCTION ACTIVITY (5.3.4)

4.1 Scope of Work

The water main extension will consist of 940 feet of 8-inch HDPE pipe rated for 125 psi minimum service pressure. A hydrant will be installed within 4 feet of each of the two Tasmania Court terminations. The termination of the South Slope Drive leg will be 5 feet beyond the tee to the easterly leg of the main extending into East Tasmania Court. Each of the eleven parcels will be provided a 1-inch diameter copper service.

The sewer main extension will consist of 1,276 linear feet 8-inch DIP with two sewer manholes, one located at the intersection of Tasmania Courts and South Slope Drive, and the other located roughly 10 feet north of the beginning of the extension to connect the sewer main extension within the easement to the main trunk line along South Slope Drive. Both dead-ends with service connections will have a standard City sewer cleanout. An additional stubout extending north is being constructed to avoid future excavations within the congested intersection to extend the City main north under future extensions if and when the City wishes to do so. There will be no services connected to this stubout.

Trenching for both sewer and water will take place through gravel road structural section, native silty sands and sandy silt material. Trench backfill will consist of Class B Bedding around the water main and Type II Classified Fill for the remaining backfill per City Standard Construction Specifications.

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4.2 Project Function (5.3.4.1)

This project will provide water and sewer service to eleven parcels fronting both South Slope Drive, West and East Tasmania Courts.

4.3 Support Activities (As Applicable)

Support activities for this project are:

<u>Support Activity</u>	<u>Location</u>	<u>Dedicated</u>	
		<u>Yes</u>	<u>No</u>
Concrete Batch Plant		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Asphalt Batch Plant		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Equipment Staging Yards	Contractor's place of business, TBD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Material Storage Areas	Contractor's place of business, TBD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Excavated Material Disposal Areas	Contractor's place of business, TBD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Borrow Areas	TBD	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4.4 Sequence and Timing of Soil-disturbing Activities (5.3.4.2)

Period of construction is expected to take ten months starting in 2021, with excavation taking place in no more than 500 feet lengths with placement of pipe and backfill completed in that section before the next is started.

Size of property and total area expected to be disturbed (5.3.4.3)

The following are estimates of the construction site:

Total Project Area:.....	1.3	acres
Construction-site area to be disturbed:.....	0.8	acres
Percentage impervious area BEFORE construction:.....	43	%
Runoff coefficient BEFORE construction:.....	0.53	
Percentage impervious area AFTER construction:.....	48	%
Runoff coefficient AFTER construction:.....	0.53	

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4.5 Identification of All Potential Pollutant Sources (5.3.4.5)

Potential sources of sediment to storm water runoff:

Sediment Generating Activity	Location of Potential Discharge
Grubbing	Downhill swales and vegetation areas
Utility Excavation & Installation	Site exits, drainage outlet locations

4.6 Potential pollutants and sources, other than sediment, to storm water runoff:

Trade Name Material	Storm Water Pollutants	Location
Diesel	Hydrocarbon	Onsite equipment & Service truck
Gasoline	Hydrocarbon	Onsite equipment & Service truck
Lube Oil	Hydrocarbon	Onsite equipment & Service truck
Gear Lube	Hydrocarbon	Onsite equipment & Service truck
Hydraulic Fluid	Hydrocarbon	Onsite equipment & Service truck
Antifreeze	Glycol	Onsite equipment & Service truck

5.0 SITE MAPS (5.3.5)

Include a general location map in Appendix A of this SWPPP. (5.3.4.4)

General location map is included in Appendix A of this SWPPP.

Include site maps in Appendix A of this SWPPP. (5.3.5)

Site maps are included in Appendix A of this SWPPP.

6.0 DISCHARGES

6.1 Locations of Other Industrial Storm Water Discharges (5.3.8)

There are no other industrial storm water discharges within the project limits.

6.2 Allowable Non-Storm Water Discharges (1.4.3; 4.3.7; 5.3.9)

Allowable non-stormwater discharges on the project site may include water for dust control and landscape irrigation.

7.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO TOTAL MAXIMUM DAILY LOADS (3.2, 5.6)

7.1 Identify Receiving Waters (5.3.3.3)

Description of receiving waters:

Beluga Lake is approximately 4,185 feet southeast of southern boundary of project site.

Kachemak Bay is approximately 7,500 feet southwest of southern boundary of project site. East End Road and Kachemak Drive lie between the project site and Kachemak Bay.

Description of storm sewer and/or drainage systems:

No storm sewer on site.

General drainage direction is to the south. Roadside ditch exists on the north side of Tasmania Courts and the west side of South Slope Drive. One cross-culvert directs roadside ditch runoff from the north side to the south side of West Tasmania Court roadway.

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7.2 Identify TMDLs (5.6.1)

Is an EPA-established or approved TMDL published for the receiving water(s) listed in Section 7.1? Yes No.

TMDL: NA

Summary of consultation with state or federal TMDL authorities (5.6.2): NA

Measures taken to ensure compliance with TMDL (5.6.3): NA

8.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO ENDANGERED SPECIES (3.3, 5.7)

8.1 Information on Endangered or Threatened Species or Critical Habitat (5.7.1)

Are endangered or threatened species and critical habitats on or near the project area? Yes No.

Describe how this determination was made:

The U.S. Department of Interior Fish and Wildlife Service identifies threatened, endangered and proposed species, designated critical habitat and some candidate species within a proposed project limit through their iPAC system. This fulfills the requirements of the USFWS under Section 7(c) of the Endangered Species Act of 1973.

The U.S. Department of Interior Fish and Wildlife Service iPAC system identified no endangered species or critical habitats within the project region.

<https://ecos.fws.gov/ipac/location/index>

Will species or habitat be adversely affected by storm water discharge? Yes No.

NA

Include any agency correspondence in the SWPPP (5.7.4).

Correspondences included in Appendix D.

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Provide summary of necessary measures (5.7.5):

The U.S. Department of Interior Fish and Wildlife Service noted the possible presence of migratory birds on site property during construction time period. Per Nationwide Standard Conservation Measures:

- 1) Surveys will be conducted within 5 days prior to scheduled activity to determine if active nests are present within the area of impact and buffer any nesting locations found during surveys.
- 2) If active nests or breeding behavior (e.g., courtship, nest building, territorial defense, etc.) are detected during these surveys, no vegetation removal activities will be conducted until nestlings have fledged or the nest fails or breeding behaviors are no longer observed.
- 3) Any associated project activities that are inconsistent with the applicable conservation

measures, and activities that may result in the take of migratory birds will be immediately halted and reported to the appropriate Service office within 24 hours.

[nationwidestandardconservationmeasures.pdf \(fws.gov\)](#)

9.0 APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS (4.15)

This SWPPP was prepared in accordance with the Alaska Department of Environmental Conservation Alaska Pollutant Discharge Elimination System 2021 permit and 2021 SWPPP template.

The project Owner has not provided any permits for the project. A review of the requirements for federal, state, tribal and local regulations and permits deemed that there are no additional permits needed.

This SWPPP shall be updated as necessary to reflect any revisions to applicable federal, state, tribal and local regulations that would affect the storm water controls that were implemented at the site.

Control Measures

10.0 CONTROL MEASURES/BEST MANAGEMENT PRACTICES (4.0; 5.3.6)

10.1 Minimize Amount of Soil Exposed During Construction Activity (4.2.2)

Construction Sequence

BMP Description: Plan excavation and classified backfill to minimize silty soil exposure.

Source:	No BMP manual or publication was used for the design or selection of this BMP. SWPPP preparer recommendation.
Installation Schedule:	Plan prior to beginning excavation work.
Maintenance and Inspection:	The area will be inspected per the inspection schedule to ensure exposed silty soil is minimized, kept in depressed areas (tank basal area) and backfilled with a layer of clean gravel shortly after base compaction.
Responsible Staff:	Storm Water Lead

Preserve Existing Vegetation & Root Mat

BMP Description: Existing vegetation outside the work area will be preserved. Vegetation within the work limits will not be cleared until necessary. Preservation/work limits will be delineated by flagging. Vehicles and equipment will stay within the work area limits.

Source:	Alaska SWPPP Guide, DOT&PF, 2-2011, BMP AK-1
Installation Schedule:	Flagging prior to beginning piling, boring and excavation work.
Maintenance and Inspection:	The area will be inspected per the inspection schedule to ensure equipment or vehicles have not encroached on the preservation limits. If barrier has been damaged or removed, replace barrier so that visibility is restored. Repair or replace damaged vegetation.
Responsible Staff:	Storm Water Lead

10.2 Maintain Natural Buffer Areas (4.2.3)

Are stream crossings or waters of the U.S. located within or immediately adjacent to the property? Yes No.

10.3 Control Storm Water Discharges and Flow Rates (4.2.5)

Fiber Rolls

BMP Description: Fiber rolls (wattles) may be utilized on the down-grade side of areas to be disturbed or at project limits. Fiber rolls may be used for localized discharge and to protect excavation, ditches or slopes from sheet discharge.

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Fiber rolls consist of rolled tubes of erosion control blankets (8 inches in diameter minimum) and bound at each end with jute-type twine. Install fiber rolls in shallow trenches dug 3 to 5 inches deep for soft, loamy soils and 2 to 3 inches deep for hard, rocky soils. Fiber rolls will be staked at 3 foot (maximum) intervals. For design specifications and installation, see Appendix B.

Source:	Alaska SWPPP Guide, DOT&PF, 2-2011, BMP AK-8
Installation Schedule:	Fiber rolls will be installed as needed.
Maintenance and Inspection:	Fiber rolls will be inspected per the inspection schedule during construction activities for undercutting, sediment loading and proper seating flush with the ground until dense cover of vegetation had been established. Fiber rolls will be re-pinned flush to the grade if they come loose. If sediment load is greater than one-half the wattle height, the sediment will be removed for behind the wattle. If undercutting is noted, the location of failure will be re-graded, seeded and the fiber rolls re-installed.
Responsible Staff:	Storm Water Lead

Silt Fence

BMP Description: Silt fence may be utilized in lieu of fiber rolls on the downgrade side of grading and excavation areas or at project limits.

Silt fence will be installed by excavating 12-inch deep trench along the line of proposed installation. Wooden or metal posts supporting the silt fence will be spaced up to 8 feet apart and driven securely into the ground; a minimum of 18- inches deep. The silt fence will be fastened securely to the posts with wire ties spaced every 24 inches at the top, mid-section and bottom of the post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent storm water and sediment from discharging underneath the silt fence. Sand bags may be utilized in lieu of trenching.

Source:	Alaska SWPPP Guide, DOT&PF, 2-2011, BMP AK-18
Installation Schedule:	Silt fence will be installed as needed.
Maintenance and Inspection:	Silt fences will be inspected per the inspection schedule during construction activities to ensure it is intact and that there are no gaps where the fence meets the ground or tears are found during inspection, the fabric will be required or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled offsite for disposal. If accumulated sediment is creating noticeable strain on the fabric and the fence may fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed.
Responsible Staff:	Storm Water Lead

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10.3.1 Protect Steep Slopes (4.2.6)

Will steep slopes be present at the site during construction? Yes No.

NA

10.4 Storm Water Inlet Protection Measures (4.3.1)

NA

10.5 Water Body Protection Measures (4.3.2)

There are no water bodies located with or adjacent to the project site. There are seasonally drainages within the project limits. Construction sequencing (10.) will be utilized to minimize impacts in these areas.

10.6 Down-Slope Sediment Controls (4.3.3)

Fiber Rolls

BMP Description: Fiber rolls (wattles) may be utilized on the down-grade side of areas to be disturbed or at project limits. Fiber rolls may be used for localized discharge and to protect excavation, ditches or slopes from sheet discharge.

Fiber rolls consist of rolled tubes of erosion control blankets (8 inches in diameter minimum) and bound at each end with jute-type twine. Install fiber rolls in shallow trenches dug 3 to 5 inches deep for soft, loamy soils and 2 to 3 inches deep for hard, rocky soils. Fiber rolls will be staked at 3 foot (maximum) intervals. For design specifications and installation, see Appendix B.

Source:	Alaska SWPPP Guide, DOT&PF, 2-2011, BMP AK-8
Installation Schedule:	Fiber rolls will be installed as needed.
Maintenance and Inspection:	Fiber rolls will be inspected per the inspection schedule during construction activities for undercutting, sediment loading and proper seating flush with the ground until dense cover of vegetation had been established. Fiber rolls will be re-pinned flush to the grade if they come loose. If sediment load is greater than one-half the wattle height, the sediment will be removed for behind the wattle. If undercutting is noted, the location of failure will be re-graded, seeded and the fiber rolls re-installed.
Responsible Staff:	Storm Water Lead

Storm Water Pollution Prevention Plan (SWPPP)

Silt Fence

BMP Description: Silt fence may be utilized in lieu of fiber rolls on the downgrade side of grading and excavation areas or at project limits.

Silt fence will be installed by excavating 12-inch deep trench along the line of proposed installation. Wooden or metal posts supporting the silt fence will be spaced up to 8 feet apart and driven securely into the ground; a minimum of 18- inches deep. The silt fence will be fastened securely to the posts with wire ties spaced every 24 inches at the top, mid-section and bottom of the post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent storm water and sediment from discharging underneath the silt fence. Sand bags may be utilized in lieu of trenching.

Source:	Alaska SWPPP Guide, DOT&PF, 2-2011, BMP AK-18
Installation Schedule:	Silt fence will be installed as needed.
Maintenance and Inspection:	Silt fences will be inspected per the inspection schedule during construction activities to ensure it is intact and that there are no gaps where the fence meets the ground or tears are found during inspection, the fabric will be required or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled offsite for disposal. If accumulated sediment is creating noticeable strain on the fabric and the fence may fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed.
Responsible Staff:	Storm Water Lead

10.7 Stabilized Construction Vehicle Access and Exit Points (4.3.4)

NA

10.8 Dust Generation and Track-Out from Vehicles (4.3.5 and 4.3.6)

Dust Control

BMP Description: Dust from the site will be controlled using a mobile distribution truck to apply potable water to disturbed areas. The mobile unit will apply water at a minimum to prevent runoff and ponding.

Source:	IDEQ Storm Water BMP Catalog, BMP 7
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Installation Schedule:	Dust control will be implemented as needed once site grading has been initiated and during windy conditions while grading is occurring. Spraying potable water will be performed whenever the dryness of the soil warrants.
Maintenance and Inspection:	One mobile unit will be available at all times to distribute potable water to control dust on the project area. The mobile unit will be equipped with a positive shutoff valve to prevent over watering of the disturbed area.
Responsible Staff:	Storm Water Lead

10.9 Soil Management (4.3.7)

Will soil stockpiles be at the site during construction? Yes No.

Fiber Rolls

BMP Description: Fiber rolls (wattles) may be utilized on the down-grade side of areas to be disturbed or at project limits. Fiber rolls may be used for localized discharge and to protect excavation, ditches or slopes from sheet discharge.

Fiber rolls consist of rolled tubes of erosion control blankets (8 inches in diameter minimum) and bound at each end with jute-type twine. Install fiber rolls in shallow trenches dug 3 to 5 inches deep for soft, loamy soils and 2 to 3 inches deep for hard, rocky soils. Fiber rolls will be staked at 3 foot (maximum) intervals. For design specifications and installation, see Appendix B.

Source:	Alaska SWPPP Guide, DOT&PF, 2-2011, BMP AK-8
Installation Schedule:	Fiber rolls will be installed as needed.
Maintenance and Inspection:	Fiber rolls will be inspected per the inspection schedule during construction activities for undercutting, sediment loading and proper seating flush with the ground until dense cover of vegetation had been established. Fiber rolls will be re-pinned flush to the grade if they come loose. If sediment load is greater than one-half the wattle height, the sediment will be removed for behind the wattle. If undercutting is noted, the location of failure will be re-graded, seeded and the fiber rolls re-installed.
Responsible Staff:	Storm Water Lead

10.10 Authorized Non-Storm Water Discharges (4.3.8)

No non-storm water discharges are authorized.

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10.11 Sediment Basins (4.3.9)

Will a sediment basin be required during construction? Yes, No.

NA

10.12 Dewatering (4.4)

Will dewatering be conducted during construction? Yes, No.

Will excavation dewatering be conducted within 1,500 feet of a DEC mapped contaminated site found on the following website? Yes, No. <http://www.arcgis.com/home/item.html?id=315240bf84aa0b8272ad1cef3cad3>

Construction Sequence

BMP Description: Plan excavation and classified backfill to minimize silty soil exposure.

Source:	NS-2 Dewatering Operations, Idaho Department of Transportation.
Installation Schedule:	Install means to control dewatering discharges shall occur at project start.
Maintenance and Inspection:	Sediment traps will be inspected on a daily basis and sediment shall be removed when trap is 1/3 full of sediment.
Responsible Staff:	Storm Water Lead

10.13 Soil Stabilization (4.5, 5.3.6.3)

BMP Description:

Topsoil & Seeding

BMP Description: Topsoil and seeding will be applied for slope stabilization immediately after the final design grades are achieved on slope reconditioning section but no later than 14 days after construction in that work area ceases. Seed mix per the project specifications will be utilized to establish vegetative cover on exposed soils outside the road and pad surface.

	<input checked="" type="checkbox"/> Permanent	<input type="checkbox"/> Temporary
Source:	EPA Menu of BMPs	
Installation Schedule:	Seeding will be in conjunction with surface roughening.	

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<i>Maintenance and Inspection:</i>	All seeded areas will be inspected per the project schedule during construction activities for failure until 70% vegetative coverage has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final stabilization is reached.
<i>Responsible Staff:</i>	Storm Water Lead

10.14 Treatment Chemicals (4.6; 5.3.6.4)

Will treatment chemicals be used to control erosion and/or sediment during construction? Yes, No.

10.15 Treatment Chemicals (4.6.1)

NA

10.15.1 Treatment Chemical Use Procedures (4.6.2)

NA

10.15.2 Application of Treatment Chemicals (4.6.3)

NA

10.16 Active Treatment System Information or cationic treatment chemicals (4.6.7)

Will an ATS or cationic treatment chemicals be used as a control measure at the site? Yes, No.

NA

10.17 Good Housekeeping Measures (4.8)

10.17.1 Washing of Equipment and Vehicles (4.8.1)

Will equipment and vehicle washing and/or wheel wash-down be conducted at the site? Yes, No.

NA

10.17.2 Fueling and Maintenance Areas (4.8.2)

Will equipment and vehicle fueling or maintenance be conducted at the site? Yes, No.

NA

10.17.3 Staging and Material Storage Areas (4.8.3)

Designate areas to be used for staging and material storage areas. Locate such activities, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S.; and minimize the exposure to precipitation and storm water and vandalism for all chemicals, treatment chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment.

10.17.4 Washout of Applicators/Containers Used for Paint, Concrete, and Other Materials (4.8.4)

Will washout areas for trucks, applicators, or containers of concrete, paint, or other materials be used at the site? Yes, No.

NA

10.17.5 Fertilizer or Pesticide Use (4.8.5) (will there be any fertilizer used for seeding?)

Will fertilizers or pesticides be used at the site? Yes, No.

Material Name: NA

BMP Description: NA

Installation Schedule: NA

Maintenance and Inspection: NA

Responsible Staff: NA

10.18 Spill Notification (4.9)

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Spill prevention and control procedures shall be implemented once construction begins onsite. All personnel shall be instructed, during tailgate training sessions, regarding the correct procedures for spill prevention and control. Notices that state these practices shall be posted at the office and the individual who manages day-to-day site operations shall be responsible for seeing that these procedures are followed.

1. Employee Training: All employees shall be trained via weekly tailgate sessions.
2. Vehicle Maintenance: Major vehicles and equipment maintenance shall be conducted offsite. All vehicles and equipment, including subcontractor vehicles, shall be checked for leaking oil and fluids. Vehicles leaking fluids shall not be allowed onsite. Containment vessel shall be placed under vehicles and equipment while being serviced and while parked overnight.
3. Hazardous Material Storage: Hazardous materials shall be stored in accordance with federal, state and local regulations.
4. Spill Kits: Spill kits shall be kept onsite, in the maintenance shop, and service vehicle.
5. Spills: All spills shall be cleaned up immediately upon discovery. Spent absorbent materials shall be stored at the project staging area in sealed containers until they can be removed from site. Spills large enough to discharge to surface water shall be reported to the National Response Center at 1-800-424-8802.
6. Material safety data sheets, a material inventory and emergency contact information shall be maintained at the Contractor office.

In case of fuel spill, hazardous materials encounter or other contamination to soil or water, cease work in the area of contamination. The extent of the area of contamination will be determined and area will be isolated from the balance of the project with flagging and or barricades. A contamination clean-up contractor may be contacted at this point, depending on the extent of contamination and habitat impacted. A clean-up and disposal plan will be developed under the direction of the Contractor representative and regulatory agency representative. The plan shall be in compliance with Chapter 75 of Title 18 of the Alaska Administrative Code and Title 46 of the Alaska Statutes.

A licensed operator will do disposal of any contaminated material at an Alaska Department of Environmental Conservation approved facility. Small quantities of sorbent materials will be disposed of through the Kenai Peninsula Borough Solid Waste program.

ADEC placards on reportable quantities and notification are included in Appendix D.

10.19 Construction and Waste Materials (4.8.6, 5.3.7)

Waste Materials

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BMP Description: All trash and debris materials shall be collected and disposed of at the South Peninsula Landfill. No construction debris shall be buried onsite. All personnel shall be instructed regarding the correct disposal of trash, construction debris and waste materials.

<i>Source:</i>	No BMP manual or publication was used for the design or selection of this BMP. SWPPP preparer recommendation.
<i>Installation Schedule:</i>	Proper waste handling shall begin when the project begins.
<i>Maintenance and Inspection:</i>	Dumpsters, trashcans and other waste containment will be collected and disposed of on an as-needed basis. The project site will be inspected for improper waste management according to the inspection schedule during construction activities.
<i>Responsible Staff:</i>	Storm Water Lead

Storage and Labeling

BMP Description: Hazardous waste materials such as petroleum products and equipment maintenance fluids shall be labeled and stored at the project staging area in shipping containers or stored in a fuel and lubricant truck until prior to use onsite. No hazardous waste materials such as oil filters, petroleum products, paint and equipment maintenance fluids shall be stored onsite. Shipping containers and product containers shall be placarded for the products they contain.

<i>Source:</i>	No BMP manual or publication was used for the design or selection of this BMP. SWPPP preparer recommendation.
<i>Installation Schedule:</i>	Proper hazardous material storage and labeling shall begin prior to the project.
<i>Maintenance and Inspection:</i>	The project site shall be inspected according to inspection schedule during construction activities for potential hazardous waste.
<i>Responsible Staff:</i>	Storm Water Lead

Disposal

BMP Description: All hazardous waste shall be disposed of in accordance with local, state and federal regulations disposed of at the Homer Solid Waste Facility, which takes small quantities of hazardous waste. If quantities exceed these limitations, Emerald Alaska shall be utilized for disposal. All personnel shall be instructed regarding the correct procedures for hazardous waste disposal.

<i>Source:</i>	No BMP manual or publication was used for the design or selection of this BMP. SWPPP preparer recommendation.
<i>Installation Schedule:</i>	Proper hazardous waste material handling shall begin when the project begins.
<i>Maintenance and Inspection:</i>	The project site shall be inspected according to inspection schedule during construction activities for potential hazardous waste.
<i>Responsible Staff:</i>	Storm Water Lead

11.0 INSPECTIONS (5.4; 6.0)

11.1 Inspection Schedules (5.4.1.2; 6.1; 6.2)

Inspection frequency: Every 14 days and within 24 hours of the end of a storm event that results in a discharge from the site. Inspections shall verify that all BMPs required in the SWPPP are implemented, maintained and effectively minimizing erosion and preventing storm water contamination from construction materials.

Justification for reduction in inspection frequency, if applicable: If entire site is stabilized in accordance with Part 4.5, frequency of inspections may be reduced to at least once a month and within two business days of the end of a storm event.

If portions of the site have achieved final stabilization in accordance with Part 4.5 but construction remains active on the portions of the site, inspections may be suspended for those portions that have achieved final stabilization. However, if there is a discharge from that portion of the site previously considered finally stabilized, an inspection must be conducted within two business days of the end of a storm event resulting in the discharge.

Estimated date of winter shutdown: Not applicable.

11.2 Inspection Form or Checklist (5.4.1.3; 6.7)

See Table of Contents for Appendix location of form.

11.3 Corrective Action Procedures (5.4.1.4; 8.0)

If during inspections or investigations it is determined that the existing storm water controls are ineffective in eliminating or significantly minimizing pollutants in storm water discharges from the construction site the SWPPP shall be amended and BMPs shall be added to rectify the deficiency. The corrective action necessary will be logged on the Corrective Action Log along with a complete by date that is 6 days from the date of the inspection or before the next storm event, whichever is less. The next storm event will be estimated from the weather forecast.

Corrective Action Log

Corrective Action Log is included in Appendix J.

11.4 Inspection recordkeeping (5.4.2)

Records will be maintained for a minimum period of at least three (3) years after the permit is terminated.

12.0 MONITORING PLAN (If Applicable) (5.5; 7.0)

12.1 Determination of Need for Monitoring Plan

Is there an EPA-established or approved TMDL for **Insert Name of Receiving Water**? NA

Is the receiving water listed as impaired for turbidity and/or sediment? Yes, No.

What is the acreage of the disturbance in the proposed construction project? NA

Is the disturbed acreage equal to or greater than 20 acres? Yes, No.

12.2 Monitoring Plan Development

Monitoring schedules (5.5.1.2; 7.3.2): NA

Monitoring form or checklist (5.5.1.3; 7.3.9): NA

Corrective action procedures (5.5.1.4; 8.0): NA

12.3 Monitoring Considerations

- Locate upstream/upgradient sampling point(s) to determine background turbidity in the receiving water body. The location should be reasonably close to discharge but not so close as to experience increased turbidity from discharge. Clearly mark in field and on map in SWPPP.
- Sample the discharge where it enters the receiving water body or where it leaves the construction site. Clearly mark in field and on map in SWPPP.
- The discharge entering the water body impaired for turbidity or sediment must not exceed 5 nephelometric turbidity units (NTU) above natural conditions when the natural turbidity is 50 NTU or less, and may not have more than a 10-percent increase in turbidity when the natural turbidity is more than 50 NTU, not to exceed a maximum increase of 25 NTU.
- Correct control measures within seven (7) calendar days, update your SWPPP to reflect improvements, submit a Corrective Action Report consistent with the CGP, AND continue daily sampling until discharge meets allowable turbidity.

- If a specific waste-load allocation has been established for turbidity or sediment that would apply to the discharge of storm water from the construction site, the permittee must implement necessary steps to meet that allocation.
- If there is only a general waste-load allocation applicable to construction storm water discharges, the permittee must consult the ADEC to confirm consistency with approved TMDL.

13.0 POST-AUTHORIZATION RECORDS (5.8)

Copy of Permit Requirements (5.8.1)

The SWPPP must contain the following documents:

- copy of CGP (5.8.1.1);
- copy or signed and certified NOI form submitted to ADEC (5.8.1.2);
- upon receipt, a copy of letter from ADEC authorizing permit coverage, providing tracking number (5.8.1.3); and

These documents must be included in Appendix F.

13.1 Additional Documentation Requirements (5.8.2)

- Dates when grading activities occur (5.8.2.1; insert in Appendix G).
- Dates when construction activities temporarily or permanently cease on a portion of the site (5.8.2.1.3; insert in Appendix G).
- Dates when stabilization measures are initiated (5.8.2.1.4; insert in Appendix G).
- Date of beginning and ending period for winter shutdown (5.8.2.2; insert in Appendix G).
- Copies of inspection reports (5.4.2; 5.8.2.3; insert in Appendix K).
- Copies of monitoring reports, if applicable (5.8.2.4; insert in Appendix H).
- Documentation in support of chemical-treatment processes (4.6; 5.8.2.6; insert in Appendix H).
- Documentation of maintenance and repairs of control measures (5.8.2.8; 8.1; 8.2; insert in Appendix J).
- Documentation of any rainfall monitoring records (6.7.1.3)

13.1.1 Records of Employee Training (4.14; 5.8.2.7)

Describe Training Conducted: Training will consist of general stormwater and BMP awareness training and detailed training.

General storm water and BMP awareness training for staff and subcontractors:

Informal training and BMP awareness will be provided for all staff, including subcontractors, on the site. The training shall be conducted primarily via tailgate sessions and shall focus on avoiding damage to stormwater BMPs and preventing illicit discharges. The tailgate sessions shall be weekly and shall address the following topics: Erosion Control BMPs, Sediment Control BMPs, Non-Stormwater BMPs, Waste Management and Materials Storage BMPs, and Emergency Procedures specific to the site.

Detailed training for staff and subcontractors with specific storm water responsibilities:

Formal training will be provided to all staff and subcontractors with specific stormwater responsibilities, such as installing and maintaining BMPs. The formal training shall cover all design and construction specifications for installing the BMPs and proper procedures for maintaining each BMP. Formal training shall occur before any BMPs are installed onsite. See Appendix I – SWPPP Training Log.

Individual(s) Responsible for Training:

Storm Water Lead (see Section 2.0).

14.0 MAINTAINING AN UPDATED SWPPP (5.9)

The permittee must modify the SWPPP, including site map(s), in response to any of the following:

- whenever changes are made to construction plans, control measures, good housekeeping measures, monitoring plan (if applicable), or other activities at the site that are no longer accurately reflected in SWPPP (5.9.1.1);
- if inspections of site investigations by staff or by local, state, tribal, or federal officials determine SWPPP modifications are necessary for permit compliance (5.9.1.2); and

- to reflect any revisions to applicable federal, state, tribal, or local laws that affect control measures implemented at the construction site (5.9.1.3).

14.1 Log of SWPPP Modifications (5.9.2)

A permittee must keep a log showing dates, name of person authorizing the change, and a brief summary of changes for all significant SWPPP modifications (e.g., adding new control measures, changes in project design, or significant storm events that cause replacement of control measures). A form to document SWPPP amendments has been placed at the beginning of this template.

14.2 Deadlines for SWPPP Modifications (5.9.3)

Revisions to the SWPPP must be completed within seven days of the inspection that identified the need for a SWPPP modification or within seven days of substantial modifications to the construction plans or changes in site conditions.

15.0 ADDITIONAL SWPPP REQUIREMENTS (5.10)

15.1 Retention of SWPPP (5.10.1)

A copy of the SWPPP (including a copy of the permit), NOI, and acknowledgement letter from ADEC must be retained at the construction site.

15.2 Main Entrance Signage (5.10.2)

A sign or other notice must be posted conspicuously near the main entrance of the site. The sign or notice must include the permit authorization number assigned to the NOI, Operator Contact Name and phone number for obtaining additional construction site information, and location of the SWPP or name and telephone number of the contact person for scheduling SWPPP viewing times. If the location of the SWPPP or the name and telephone number of the contact person for scheduling SWPPP viewing times has changed (i.e., is different than that submitted to DEC in the NOI), the current location of the SWPPP or name and telephone number of a contact person for scheduling viewing times.

15.3 Availability of SWPPP (5.10.3)

The permittee must keep a current copy of the SWPPP at the site. The SWPPP must be made available to subcontractors, government and tribal agencies, and MS4 operators, upon request.

15.4 Signature and Certification (5.10.4)

The SWPPP must be signed and certified in accordance with the requirements of the CGP Appendix A, Part 1.12. The certification form on page ii of this template meets the requirements of this paragraph.

15.5 Submittal of a Modification to NOI (2.7)

Note: A permittee must file an NOI modification form to DEC (see Permit Part 2.3) to update or correct the following information on the original NOI within 30 calendar days of the change:

- Owner/Operator address and contact information;
- Site information;
- Estimated start or end dates;
- Number of acres to be disturbed; or
- SWPPP location and contact information.

APPENDICES

APPENDIX A – SITE MAPS AND DRAWINGS

APPENDIX B – BMP DETAILS

APPENDIX C – PROJECT SCHEDULE

APPENDIX D – SUPPORTING DOCUMENTATION:

- TMDL
- ENDANGERED SPECIES
- OTHER PERMITS

APPENDIX E – DELEGATION OF AUTHORITY, SUBCONTRACTOR CERTIFICATIONS

APPENDIX F – PERMIT CONDITIONS:

- COPY OF SIGNED NOTICE OF INTENT
- COPY OF LETTER FROM ADEC AUTHORIZING COVERAGE
- ADEC NOI TRACKING NUMBER
- COPY OF ALASKA CONSTRUCTION GENERAL PERMIT

APPENDIX G – GRADING AND STABILIZATION RECORDS

APPENDIX H – MONITORING PLAN (IF APPLICABLE) AND REPORTS

APPENDIX I – TRAINING RECORDS

APPENDIX J – CORRECTIVE ACTION LOG

APPENDIX K – INSPECTION RECORDS

APPEDIX L – RAINFALL RECORDS

Storm Water Pollution Prevention Plan (SWPPP)

South Slope Drive, West Tasmania Court, and East Tasmania Court Water Main Extension

DATE: 7/9/2021
