

British Columbia energy Regulator

6534 100th Ave, Fort St. John, B.C
V1J 8C5

APPROVAL
AA-111548

Under the Provisions of the Environmental Management Act

Coastal GasLink Pipeline Ltd.
450 1st Street SW,
Calgary, Alberta
T2P 5H1

is authorized to discharge contaminants to the environment from burn piles located along the pipeline corridor of sections 3 & 4 of the Coastal GasLink Pipeline project, subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

1. DEFINITIONS

For the purpose of this approval, the following definitions apply:

- 1.1. **Act** means the *Environmental Management Act*.
- 1.2. **Discharge** means the total mass of a solid, liquid or gaseous material introduced into the environment.
- 1.3. **Manager** means a BCER employee authorized to exercise the powers of the BCER under Section 15 of the *Environmental Management Act*.
- 1.4. **BCER** means the British Columbia Energy Regulator.
- 1.5. **Approval Holder** means Coastal GasLink Pipeline Ltd.
- 1.6. **Ventilation Forecast** means the afternoon ventilation index forecast issued by Environment Canada for a geographic area.
- 1.7. **Custom Ventilation Forecast** means a forecast of the atmosphere's ability in a geographic area to disperse smoke in accordance with section 16 of the Open Burning Smoke Control Regulation.



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Supervisor, Environmental Stewardship

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- 1.8. **Custom Ventilation Forecaster** means a person who a) is a meteorologist employed by Environment Canada and classified as a Meteorologist 3 or above, b) is a Weather Forecaster, a Fire Weather Forecaster, an Air Quality Meteorologist or an Air Quality Science Specialist employed by or under contract with the government, or c) has similar knowledge and experience as described in a) or b) and is approved in writing by a director to conduct custom ventilation forecasts for the purposes of the Open Burning Smoke Control Regulation.

2. **AUTHORIZED DISCHARGES**

- 2.1. This subsection applies to the discharge of air contaminants from **THIRTY-NINE (39) BURN PILES WITHIN LOW SMOKE SENSITIVITY ZONE**. The site reference number for this discharge is E331171.

- 2.1.1. The authorized works are thirty-nine (39) burn piles and ancillary equipment. Authorized burn pile locations, authorized load and authorized burn days are as follows:

Burn Pile ID	Burn Pile Location (Lat./Long)	Average Authorized Load (tonnes)	Authorized Burn Days
SF-61	55.018807/ - 122.154096	298	9
SF-62-US	55.010705/ - 122.159157	298	9
SF-62-DS	55.010026/ - 122.159794	298	9
SF-63	54.987781/ - 122.177571	298	9
SF-64	54.986201/ - 122.177342	298	9
SF-1	54.979513/- 122.175712	298	9
155+250-(HILLTOP)	54.977666/- 122.174354	298	9
SF1-A	54.972816/-	298	9



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	122.177827		
SF-2	54.956468/- 122.187096	298	9
SF-2-A	54.95274/- 122.187269	298	9
158+850	54.947728/- 122.187881	298	9
SF-3	54.93398/- 122.195845	298	9
SF-4	54.929071/- 122.197408	298	9
SF-5	54.92688/- 122.198273	298	9
SF-5-A	54.925346/- 122.20221	298	9
SF-5-B	54.923648/- 122.209845	298	9
MT-BRACEY	54.917718/- 122.224649	1192	15
SF-6A	54.911253/- 122.232504	298	9
SF-7A	54.896297/- 122.243692	1192	15
Pipe Yard	54.896/-122.242	596	12
SF-7	54.908103/- 122.237079	298	9
SF-8	54.902772/- 122.242237	298	9
168+000	54.895132/-	298	9



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	122.273075		
169+500	54.889592/- 122.29352	298	9
SF-9	54.877356/- 122.312037	596	12
LAYDOWN 16	54.8738/- 122.323089	1192	15
SF-10-A	54.867649/- 122.346965	298	9
SF-10-B	54.850737/- 122.386118	298	9
178+750	54.840887/- 122.400378	298	9
SF-11	54.835593/- 122.408684	298	9
SF-12	54.831288/- 122.417534	298	9
SF-14	54.828439/- 122.424151	298	9
182+500	54.817583/- 122.437697	298	9
SF-15-A-1	54.797936/- 122.470249	596	12
SF-15-A-2	54.796617/- 122.468614	596	12
SF-16-EAST	54.775114/- 122.48479	298	9
SF-16-WEST	54.774495/- 122.488105	298	9



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SF-17B	54.765/-122.509	2384	20
SF-18	54.706/-122.631	298	9

- 2.1.2. Burning is restricted to 6 days of consecutive burning, burning ends by 4 pm of the sixth day.
- 2.1.3. Each pile will be limited to a maximum width of 10 meters and a maximum height of 5 meters.
- 2.1.4. The pile may only be ignited if the ventilation forecast for that area, obtained on the day, but before, the open burning starts is “good” or “fair” for the day the open burning starts and is “good” or “fair” for the second day of the open burning. If a custom ventilation forecast is used, the custom ventilation forecast for that area is obtained on the day before or on the day, but before, the open burning starts, and is “good” or “fair” for the day the open burning starts and is “good” or “fair” for the second day of the open burning.
- 2.1.5. The authorized material to be combusted is wood based materials, untreated SPF construction wood debris consisting of damaged skids, beams, blocks, wooden spools, pallets, access mats and rig mats.
- 2.1.6. Waste which is defined in section 2 of Schedule 1 of the *Waste Discharge Regulation* is prohibited from being burned.
- 2.1.7. The location from which the discharge originates is within Section 3 & 4 of the certified pipeline project boundary.

2.2. This subsection applies to the discharge of air contaminants from **TWO (2) BURN PILES WITHIN MEDIUM SMOKE SENSITIVITY ZONE**. The site reference number for this discharge is E331172.

- 2.2.1. The authorized works are two (2) burn piles and ancillary equipment. Authorized burn pile locations, authorized load and authorized burn days are as follows:

Burn Pile ID	Burn Pile Location (Lat./Long)	Average Authorized Load	Authorized Burn Days
SF-20	54.654/ -122.752	298	9



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SF-21A	54.652/ -122.760	596	12
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- 2.2.2. Burning is restricted to 4 days of consecutive burning, burning ends by 4 pm of the fourth day.
- 2.2.3. Each pile will be limited to a maximum width of 10 meters and a maximum height of 5 meters.
- 2.2.4. The pile may only be ignited if the ventilation forecast for that area, obtained on the day, but before, the open burning starts is “good” for the day the open burning starts and is “good” or “fair” for the second day of the open burning. If a custom ventilation forecast is used, the custom ventilation forecast for that area is obtained on the day before or on the day, but before, the open burning starts, and is “good” for the day the open burning starts and is “good” or “fair” for the second day of the open burning.
- 2.2.5. Ignition occurs only during the period that starts one hour after sunrise and ends 2 hours before sunset.
- 2.2.6. Material added to the ignited pile is done only during the period that starts one hour after sunrise and ends 2 hours before sunset.
- 2.2.7. The authorized material to be combusted is wood based materials, untreated SPF construction wood debris consisting of damaged skids, beams, blocks, wooden spools, pallets, access mats and rig mats.
- 2.2.8. Waste which is defined in section 2 of Schedule 1 of the *Waste Discharge Regulation* is prohibited from being burned.
- 2.2.9. The location from which the discharge originates is within Section 3 & 4 of the certified pipeline project boundary.
- 2.3.** This subsection applies to the discharge of ash produced from the combustion of wood waste authorized under this Approval.
- 2.3.1. The authorized discharge period is continuous.
- 2.3.2. The ash may be disposed of at a suitable disposal facility which has been authorized under the Environmental Management Act to receive industrial waste including ash from the combustion of wood waste.



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- 2.3.3. Alternatively, the ash may be disposed of on-site. The ash will be swept with a magnet to remove the metal. Once the metal is removed and the ash is cooled, the ash may be covered/buried with mineral soil. Soil handling and restoration measures will be adhered as outlined within Coastal Gaslink's Environmental Management Plan.
- 2.3.4. On-site disposal of ash shall not occur within 100 m of a stream or permanent waterbody.
- 2.3.5. The waste that may be discharged is the ash generated from the combustion of the authorized materials specified within Section 2.1 & 2.2.

3.0 **GENERAL REQUIREMENTS**

3.1 **General Requirements**

3.1.1 Nothing in the Approval authorizes an open fire that is:

(a) prohibited by a ban on igniting open fires imposed by

- (i) a fire department, as defined in the Fire Services Act,
- (ii) a local government, or
- (iii) an improvement district, as defined in the Local Government Act, or

(b) contrary to the Wildfire Act or any other enactment.

3.1.2 Despite this Approval, the Approval Holder must not start open burning or add material to the ignited piles if the local air flow or atmospheric mixing is likely to cause the smoke emitted by the open burning to

- (a) negatively impact a nearby population centre or work camp,
- (b) be a navigation hazard at nearby airports or on nearby highways by significantly reducing visibility.

3.1.3 Setbacks for open burning

With the exception of burn pile SF-17B, the Approval Holder must ensure that open burning is carried out at least

- (a) 500 m from all neighboring buildings that



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- (i) are residences, or
 - (ii) contain businesses in which persons carry on the business during regular business hours, and
- (b) 1000 m from the nearest property line of all schools, hospitals and community care facilities.

3.1.4 Strategies and techniques to minimize smoke

All reasonable efforts are to be taken to minimize the amount of smoke emitted by the open burning including, but not limited to;

- (a) minimizing the soil content that may be mixed in with the wood
- (b) construct each pile in a way that maximizes air flow
- (c) use air via compressor(s) or fans to promote an efficient burn

3.1.5 Fire Protection

The burn activity will be monitored at all times until the burning is complete. Adequate fire protection equipment will be maintained on site to extinguish any fires that may ignite outside of the burn pile.

3.1.6 Cessation of Fire Feeding and Burning

The Manager may require the Approval Holder to cease the addition of material to the burn pile at any time if the Manager has reason to believe that emissions from the open burning are impacting the receiving environment or when complaints are received regarding local ambient air quality.

3.1.7 Environmental Impact

Inspections of the authorized works and discharge may be carried out by BCER personnel as part of the routine inspection procedure. Based on these inspections and any other information available to the Manager on the effect of the discharge on the receiving environment, the Approval Holder may be required to undertake monitoring, additional studies, change the method of operation or shutdown the operations.

3.1.8 Disposal of Ash

The Approval Holder must take the necessary precautions for avoiding aerial dispersion of ash and the risk of ash leachate at all times.



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3.1.9 Maintenance of Works and Emergency Procedures

The Approval Holder must inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Approval Holder which prevents effective operation of the approved method of pollution control, the Approval Holder must notify the Manager immediately, and take appropriate remedial action. The Manager may reduce or suspend the operation of the Approval Holder to protect the environment until the approved method of pollution control has been restored.

Instances of approval non-compliance shall be self-disclosed upon discovery, as outlined within Chapter 3 of the BCER Compliance and Enforcement Manual; Waste.Management@bc-er.ca shall also be informed of the self-disclosure.

For spills which meet the Spill Reporting Regulation reporting criteria, a report shall be made immediately to the Provincial Emergency Program telephone 1-800-663-3456.

3.1.10 Submission of Custom Ventilation Forecast

The Approval Holder must ensure that the custom ventilation forecast is submitted by email to the Ministry of Environment & Climate Change Strategy, using the email address made known by the ministry & to Waste.Management@bc-er.ca before starting the open burning.

4.0 **MONITORING AND REPORTING REQUIREMENTS**

4.1 **Discharge Monitoring**

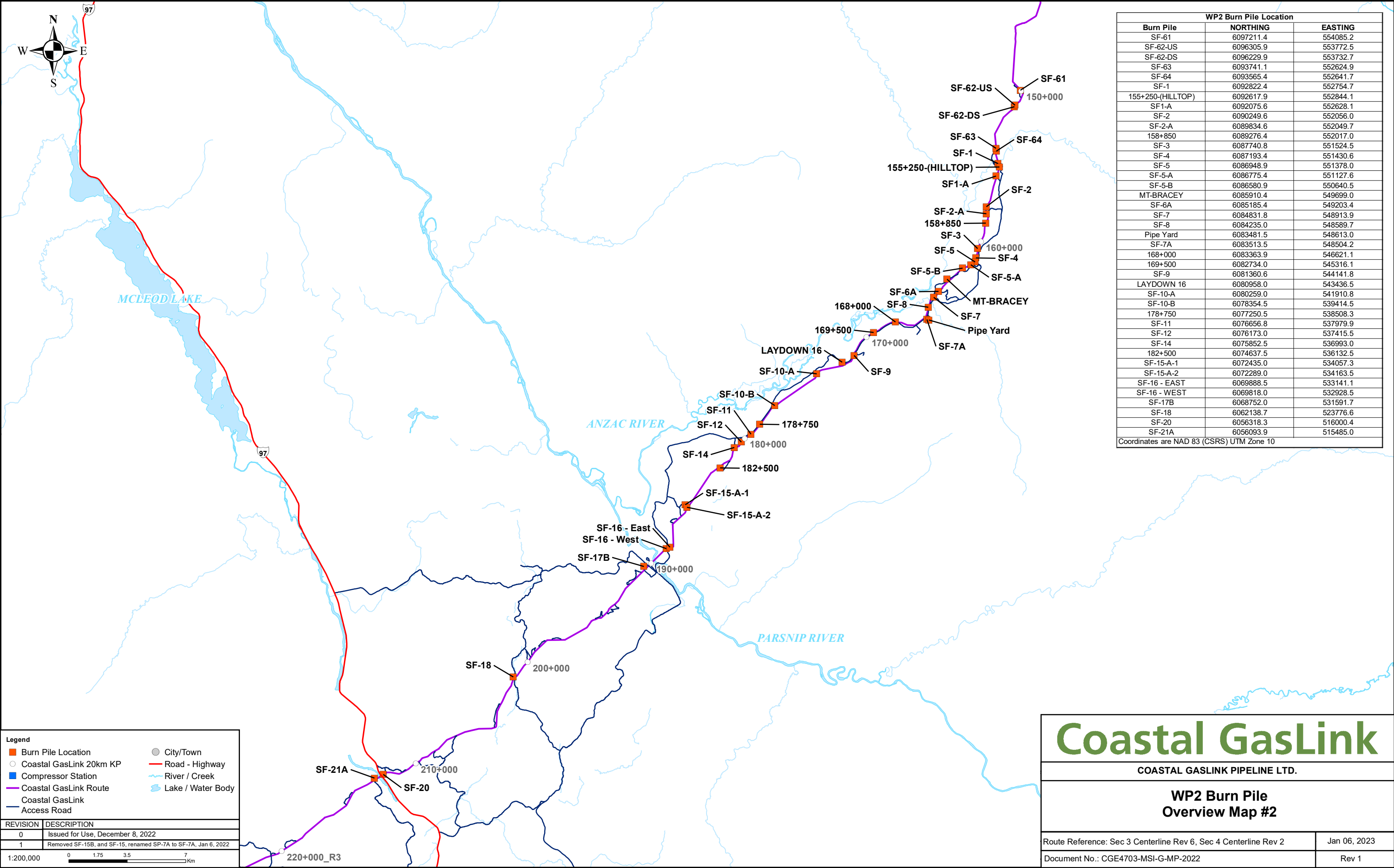
The Approval Holder must track the status of the open burning operation including the ventilation forecast or custom ventilation forecasts obtained in respect to open burning, operational hours, load frequency, approximate tonnage of material burned per day, and any fumigation issues. Daily records must be compiled and analyzed.

4.2 **Discharge Reporting**

A final report of the discharge monitoring must be submitted within 30 days after the completion of the authorized works or upon request from the BCER. Submission shall be made to Waste.Management@bc-er.ca.



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WP2 Burn Pile Location		
Burn Pile	NORTHING	EASTING
SF-61	6097211.4	554085.2
SF-62-US	6096305.9	553772.5
SF-62-DS	6096229.9	553732.7
SF-63	6093741.1	552624.9
SF-64	6093565.4	552641.7
SF-1	6092822.4	552754.7
155+250-(HILLTOP)	6092617.9	552844.1
SF1-A	6092075.6	552628.1
SF-2	6090249.6	552056.0
SF-2-A	6089834.6	552049.7
158+850	6089276.4	552017.0
SF-3	6087740.8	551524.5
SF-4	6087193.4	551430.6
SF-5	6086948.9	551378.0
SF-5-A	6086775.4	551127.6
SF-5-B	6086580.9	550640.5
MT-BRACEY	6085910.4	549699.0
SF-6A	6085185.4	549203.4
SF-7	6084831.8	548913.9
SF-8	6084235.0	548589.7
Pipe Yard	6083481.5	548613.0
SF-7A	6083513.5	548504.2
168+000	6083363.9	546621.1
169+500	6082734.0	545316.1
SF-9	6081360.6	544141.8
LAYDOWN 16	6080958.0	543436.5
SF-10-A	6080259.0	541910.8
SF-10-B	6078354.5	539414.5
178+750	6077250.5	538508.3
SF-11	6076656.8	537979.9
SF-12	6076173.0	537415.5
SF-14	6075852.5	536993.0
182+500	6074637.5	536132.5
SF-15-A-1	6072435.0	534057.3
SF-15-A-2	6072289.0	534163.5
SF-16 - EAST	6069888.5	533141.1
SF-16 - WEST	6069818.0	532928.5
SF-17B	6068752.0	531591.7
SF-18	6062138.7	523776.6
SF-20	6056318.3	516000.4
SF-21A	6056093.9	515485.0
Coordinates are NAD 83 (CSRS) UTM Zone 10		

Coastal GasLink

COASTAL GASLINK PIPELINE LTD.

WP2 Burn Pile Overview Map #2

Route Reference: Sec 3 Centerline Rev 6, Sec 4 Centerline Rev 2

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Rev 1