

## **Part G – EPEA Application**

**TABLE OF CONTENTS**

**G. APPROVAL AMENDMENT APPLICATION..... 1**

G.1 APPLICATION ..... 1

G.2 PROJECT DESCRIPTION..... 1

G.3 ENERGY RESOURCES CONSERVATION BOARD APPROVAL..... 1

G.4 ENVIRONMENTAL ASSESSMENT ..... 2

G.5 EXISTING APPROVALS..... 2

G.6 PROJECT SCHEDULE..... 2

G.7 EMISSIONS AND CONTROL..... 3

G.8 ENVIRONMENTAL MONITORING SUMMARY ..... 3

G.9 EMISSION CONTROL PERFORMANCE ..... 3

G.10 EMISSIONS JUSTIFICATION AND CONTROL..... 4

G.11 WASTE MANAGEMENT ..... 4

G.12 ENVIRONMENTAL IMPACTS ..... 4

G.13 EMERGENCY RESPONSE ..... 4

G.14 ACCIDENTAL RELEASE CONTINGENCY PLANS..... 5

G.15 CONSERVATION AND RECLAMATION ..... 5

G.16 PUBLIC CONSULTATION ..... 5

G.17 SUPPLEMENTARY SUBMISSIONS..... 5

G.18 ADDITIONAL INFORMATION..... 6

## **G. APPROVAL AMENDMENT APPLICATION**

### **G.1 APPLICATION**

#### Requirement

*AR 113/93 reference: 3(1)(a) the name and address of the applicant;*

#### Provided

Connacher Oil and Gas Limited (Connacher) makes application under Part 2, Division 2 of the *Environmental Protection and Enhancement Act* (EPEA) for approval to construct and operate the Great Divide SAGD Expansion Project. The information provided in this application is in compliance with the requirements of Alberta Regulation 113/1993. Each sub-section in the regulation is cross-referenced to the relevant section in the preceding documentation to facilitate the review process. The name and address of the applicant is provided in [Section A.4.1](#) and below.

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### **G.2 PROJECT DESCRIPTION**

#### Requirement

*AR 113/93 reference: 3(1)(b) the location, capacity and size of the activity to which the application relates;*

*AR 113/93 reference: 3(1)(c) the nature of the activity, the change to the activity or the amendment, addition or deletion, as the case may be;*

#### Provided

The location and description of the Great Divide SAGD Expansion Project is provided in [Section A.1](#), [Figure A.1-1](#) and [Figure A.1-2](#), and [Section B.1](#).

### **G.3 ENERGY RESOURCES CONSERVATION BOARD APPROVAL**

#### Requirement

*AR113/93 reference: 3(1)(d) where the applicant requires an approval from the Energy Resources Conservation Board or the Natural Resources Conservation Board in relation to the activity, the date of the written decision in respect of the application;*

#### Provided

An application to the Energy Resources Conservation Board (ERCB) is included in [Parts A to H](#) of this integrated application document. Connacher is requesting the following approvals from ERCB (refer to [Section A.4.3](#)):

- amend ERCB Scheme Approval - No. 11253 and 11253A to expand the Algar CPF by an additional 3,800 m<sup>3</sup> (24,000 barrels) of bitumen per day, pursuant to Sections 10 and 11 of *the Oil Sands Conservation Act* and Sections 3 and 33 of the Oil Sands Conservation Regulations;
- amend ERCB Scheme Approval - No. 10587 (Great Divide) and 11253 (Algar) to amalgamate the bitumen recovery Project Areas to include the entire Great Divide Lease area ([Table A.4.3.1](#)) that includes 40 well pads and infrastructure encompassing approximately 521 ha over three phases of development;
- construct and operate additional distribution and gathering pipeline systems within the Project Area, pursuant to Section 4 of the *Pipeline Act*; and
- amend ERCB Scheme Approval - No. 11253A to construct and operate an additional cogeneration unit which requires approval from the Alberta Utilities Commission (AUC), pursuant to Section 4 of the *Hydro and Electric Energy Act*.

Existing approvals for the Great Divide (Pod One) Project and the Algar SAGD Project are in [Appendix 6](#).

## G.4 ENVIRONMENTAL ASSESSMENT

### Requirement

*AR 113/93 reference: 3(1)(e) an indication of whether an environmental impact assessment report has been required;*

### Provided

As per Schedule 1 of AR 111/93 an Environmental Impact Assessment is required for this Project. Summaries of relevant environmental information are included in [Part D](#) of this integrated application. Specialized consultants have been hired to complete reports related to the Great Divide SAGD Expansion Project. These reports are included in the application as [Consultant Reports \(CR\) #1 to #11](#).

## G.5 EXISTING APPROVALS

### Requirement

*AR 113/93 reference: 3(1) (f) copies of existing approvals or registrations that were issued to the applicant in respect of the activity under this Act or a predecessor of this Act;*

### Provided

Copies of the existing EPEA, *Water Act* and ERCB Approvals for the existing Great Divide (Pod One) Project and Algar Project are included in [Appendix 6](#).

## G.6 PROJECT SCHEDULE

### Required

*AR 113/93 reference: 3(1)(g) the proposed or actual dates for construction commencement, construction completion and commencement of operation;*

### Provided

A project schedule is provided in [Section A.6](#) and [Table A.6.0.1](#).

## G.7 EMISSIONS AND CONTROL

### Required

*AR 113/93 reference: 3(1)(h) a list of substances, the sources of the substances and the amount of each substance that will be released into the environment as a result of the activity, the change to the activity or the amendment, addition or deletion, as the case may be, the method by which the substances will be released and the steps taken to reduce the amount of the substances released;*

### Provided

The primary emissions from the Great Divide SAGD Expansion Project are related to air. A description of the predicted air emissions, from the Project plant site is found in [Section D.1](#) and [CR #1, Section 4.0](#). An additional assessment has been conducted for noise ([Section D.7](#) and [CR#7, Section 5.0](#))

A description of wastewater disposal is included in [Section B.7.5](#). Drilling fluid and solid waste disposal is discussed in [Section B.4.2](#). Surface runoff from the plant site is discussed in [Section B.7.4](#).

A summary of Great Divide SAGD Expansion Project waste management program is included in [Section B.9.2.4](#)

## G.8 ENVIRONMENTAL MONITORING SUMMARY

### Required

*AR 113/93 reference: 3(1)(i) a summary of the environmental monitoring information gathered during the previous approval or registration period;*

### Provided

A considerable amount of baseline data and monitoring was completed in the preparation of this application. This information has been provided in [CR #1 to CR #11](#).

Regular surface and groundwater monitoring was completed for the Great Divide (Pod One) Project and the Algar Project ([Section D.2.3.3, D.3.4.2](#) and [D.3.2; CR#3, Section 2.2](#) and [3.0](#)).

Regular wildlife monitoring has been completed for the Algar Project and Great Divide SAGD Expansion Project ([CR #11a and b](#)).

## G.9 EMISSION CONTROL PERFORMANCE

### Required

*AR 113/93 reference: 3(1)(j) a summary of the performance of substance release control systems used for the activity during the previous approval or registration period;*

### Provided

Regular water monitoring has been performed for the Great Divide (Pod One) Project and the Algar Project and is discussed in [Section D.3, and CR#3, Section 2.2, 3.0 \(3.3.2\),and 6.0](#).

A description of the predicted air emissions is found in [Section D.1](#) and [CR#1, Section 3.0 and 4.0](#); the proposed mitigation measures are included in [Section 5.0](#).

The materials, energy, and water balance is included in [Section B.6](#) and the water management program in [Section B.7](#).

## **G.10 EMISSIONS JUSTIFICATION AND CONTROL**

### Required

*AR 113/93 reference: 3(1)(k) the justification for the release of substances into the environment as a result of the activity, the change to the activity or the amendment, addition or deletion, as the case may be;*

### Provided

Air emissions are discussed in [Section D.1.4](#) and [CR# 1, Section 5.0](#) and [6.0](#). Noise emissions are discussed in [Section D.8.3](#) and [CR# 8, Section 6.0](#)

## **G.11 WASTE MANAGEMENT**

### Required

*AR 113/93 reference: 3(1)(l) the measures that will be implemented to minimize the amount of waste produced, including a list of the wastes that will or may be produced, the quantities and the method of final disposition of them;*

### Provided

Waste generated from the construction and operation of the Great Divide (Pod One) Project will be minimal. The measures that will be implemented to minimize the amount of waste produced and a list of the wastes, including the disposal methods, is provided in [Section B.9.2](#).

## **G.12 ENVIRONMENTAL IMPACTS**

### Required

*AR 113/93 reference: 3(1)(m) any impact, including surface disturbance, that may or will result from the activity, the change to the activity or the amendment, addition or deletion, as the case may be;*

### Provided

Baseline studies have been updated and impact assessments completed for the Project. These have been summarized in [Section D](#) and included in [CR# 1 to 11](#).

## **G.13 EMERGENCY RESPONSE**

### Required

*AR 113/93 reference: 3(1)(n) confirmation that any emergency response plans that are required to be filed with the local authority of the municipality in which the activity is or is to be carried on or with Alberta Public Safety Services have been so filed;*

### Provided

An Emergency Response Plan (ERP) has been filed with the Regional Municipality of Wood Buffalo (RMWB) for the Connacher SAGD development. The existing ERP will be updated to include the

expansion activities. A description of the emergency response plan to be developed for the Project is included in [Section B.9.2.3](#).

## **G.14 ACCIDENTAL RELEASE CONTINGENCY PLANS**

### Required

*AR 113/93 reference: 3(1)(o) confirmation that there are contingency plans in place to deal with any unforeseen sudden or gradual releases of substances to the environment;*

### Provided

Connacher already has in place an Environmental Management Program for the existing Great Divide (Pod One) Project and the Algar Project and already has or will have programs in place for the Great Divide SAGD Expansion Project. Connacher's Environmental Management Program is summarized in [Section B.9](#).

## **G.15 CONSERVATION AND RECLAMATION**

### Required

*AR 113/93 reference: 3(1)(p) the conservation and reclamation plan for the activity;*

### Provided

The conceptual reclamation and reclamation activities are discussed in [Part E](#) of the Application.

## **G.16 PUBLIC CONSULTATION**

### Required

*AR 113/93 reference: 3(1)(q) a description of the public consultation undertaken or proposed by the applicant;*

### Provided

A summary of the Stakeholder Consultation Program that was undertaken is included in [Part F](#). A traditional land use report is provided in [Appendix 7](#).

## **G.17 SUPPLEMENTARY SUBMISSIONS**

### Required

*AR 113/93 reference: 3(1)(r) information required under any other regulation under the Act to be submitted as part of or in support of the application;*

### Provided

No other submissions are being made under EPEA with respect to the Project.

## **G.18 ADDITIONAL INFORMATION**

### Required

AR 113/93 reference: 3(1)(s) *any other information required by the Director, including information that is addressed in a standard, code of practice or guideline in respect of the activity that is published or adopted by the Department.*

### Provided

There is no other information required by the Director with respect to the Project. Connacher is also applying for approvals in accordance with the *Oil Sands Conservation Act* and *Water Act*.