

# Cost Analysis and Reporting Enhancement (CARE)

Prepared by Alberta Energy for  
Oil Sands Royalty Business Training  
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# Why CARE?

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## Key Reasons for Information Reporting

### Policy Development and Forecasting

- Assists Alberta Energy in assessing effectiveness of the Royalty Regime.
- Supports policy development, strategic planning and forecasting processes.

### Project Assessment and Tracking

- Provides Alberta Energy an understanding and assessment of new OSR projects and project amendment applications.
- Tracks the evolution of approved OSR projects to ensure their implementation is progressing according to the original Project Approval.

### Royalty Collection and Verification

- Ensures that oil sands royalties are collected in a timely and accurate manner in accordance with the Oil Sands Royalty Regulations, OSR Guidelines and each OSR Project Approval's descriptions and conditions.
- Ensures the information claimed on Project revenues, costs and other information are appropriate and verifiable.

# Cost Analysis and Reporting Enhancement (CARE)

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CARE Reports	Data Collected
CARE Revenue	Stream Information for bitumen and blended bitumen
CARE WCS Sales	WCS Sales Volume, Prices and stream contribution to WCS
CARE Cost	CAPEX, OPEX and Volumetric
CARE Subsurface	Reservoir and Reserves Information

# Cost Analysis and Reporting Enhancement (CARE)

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## **CARE Revenue and WCS Sales Reports**

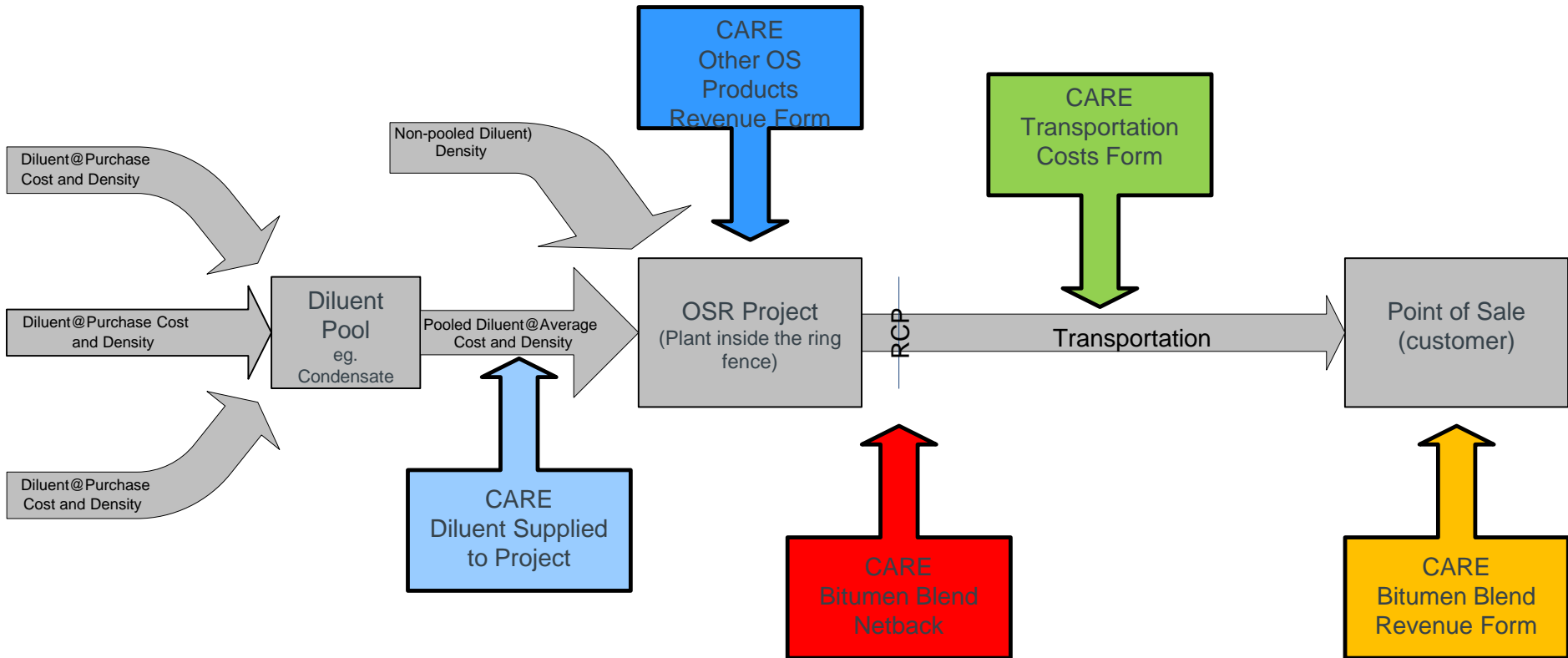
# CARE Revenue Report

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- **Reporting is stream based – one workbook for each stream.**
- **Submitted quarterly, on a cumulative basis.**
- **CARE Revenue Reporting Workbook Tabs:**
  - Cover Page (REVCOVER)
  - Bitumen/Blended Bitumen Revenue (BLENDREV)
  - Bitumen Blend Netback Calculation (NETBCALC)
  - Diluent Supplied to a Stream (DILUENT)
  - Transportation Costs (TRANSCST)
  - Other Oil Sands Product Revenue (OOSPREV)
  - Summary (SUMMARY)
- **CARE Revenue Reporting applies to all OSR Projects (including Mines if they have AL sales).**

# CARE Revenue Report

One OSR Project contributing to One Stream



# CARE Revenue Report - REVCOVER



## Cost Analysis and Reporting Enhancement (CARE) Revenue Forms - Filed Quarterly

Form Id: CARE\_REVENUE  
Version #: 3.00

Stream: LLB - Lloyd Blend

Operator Name: ABC LTD

If Other Stream: \_\_\_\_\_

Operator ID: 1598

Current Reporting Period: Q1 2015

Product Type: Dilbit

If Other Product Type: \_\_\_\_\_

### List of Projects in Stream:

OSR Number	Project Name	Q1			Q2			Q3			Q4		
		Density (CCB) in kg/m3	TAN (CCB) in mg KOH/g	Sulphur (CCB)	Density (CCB) in kg/m3	TAN (CCB) in mg KOH/g	Sulphur (CCB)	Density (CCB) in kg/m3	TAN (CCB) in mg KOH/g	Sulphur (CCB)	Density (CCB) in kg/m3	TAN (CCB) in mg KOH/g	Sulphur (CCB)
OSR 00A	Project AAA	1015.0	2.40	4.90%	1015.0	2.40	4.90%						

Contact Name: \_\_\_\_\_  
Company Title: \_\_\_\_\_  
Date Prepared: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_

- **Stream selected from a drop down list**
  - ✓ All streams currently reported on CARE forms are included in the drop down list.
  - ✓ If a new stream is created or does not appear in the list, the stream can be entered in the “If Other Stream” cell.





# REVCOVER (Cont'd)

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- **Product Type selected from a dropdown list**
  - Product types include: Dilbit, Railbit, Synbit, Syndilbit and Bitumen.
  - If a new product type does not appear in the list, it can be entered in the “If Other Product Type” cell.
  - If more than one product type is sold, each product will have their own stream and the operator will have to report separate CARE Revenue forms.
- **Quarterly quality measures (data validation ensures that data is submitted in a uniform fashion across industry)**
  - Density (Kg/m<sup>3</sup>)
  - TAN (single number – ranges will be rejected)
  - Sulphur (percentage)
- **Minimizes/facilitate data entry:**
  - Stream, Operator Name, Operator ID, Current Reporting Period and Product Type flow to each subsequent tab.
  - Entry fields in blue while calculated fields in black.
  - Contact information is also required.

# CARE Revenue Report - BLENDREV



## Cost Analysis and Reporting Enhancement (CARE) Bitumen/Bitumen Blend Revenue

Form Id: CARE\_REVENUE  
Version #: 3

**Stream:** LLB - Lloyd Blend **Product Type:** Dilbit  
**Operator Name:** ABC LTD  
**Operator ID:** 1598  
**For the Period:** 2015 01 01 to 2015 03 31

Month of Sale	Point of Sale	POS Facility Type	Arms Length Product Volume (m3)	Arms Length Product Price (C\$/m3)	Arms Length Handling Charge as Reported (C\$)	Non-Arms Length Product Volume (m3)
January 2014	Edmonton	Pipeline Terminal	100,000.0	\$ 415.18	\$ 2,075,700.00	
January 2014	Hardisty	Pipeline Terminal	300,000.0	\$ 400.00	\$ 6,227,100.00	
January 2014	Edmonton	Pipeline Terminal	500,000.0	\$ 350.00	\$ 10,378,500.00	
January 2014	Hardisty	Rail Terminal	200,000.0	\$ 315.18	\$ 4,151,400.00	
January 2014	Edmonton	Rail Terminal				250,000.0
January 2014	Hardisty	Rail Terminal				250,000.0
January 2014	Texas, PADD III	Refinery Terminal	250,000.0	\$ 500.00	\$ 31,135,500.00	
January 2014	Illinois, PADD II	Rail Terminal	250,000.0	\$ 400.00	\$ 32,689,250.00	
January 2014	Ohio, PADD II	Pipeline Terminal	200,000.0	\$ 450.00	\$ 11,070,400.00	

**Notes:**



# BLENDREV (Cont'd)

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- **Month selected from a drop down list**
  - ✓ Use 'Notes' section if product type does not appear in list
- **Point of Sale**
  - ✓ The location where the title transfer of the product occurs.
  - ✓ If the transfer occurs in Canada, identify the hub or terminal.
    - For instance, if the transfer occurs in Alberta, identify Edmonton or Hardisty.
    - If the transfer is not at the Albertan hub, identify the location/terminal.
  - ✓ If title transfer occurs in the US, identify the State and Petroleum Administration Defense District (PADD).
- **Point of Sale (POS) Facility Type**
  - ✓ Indicates if the sales point is at a pipeline terminal, rail terminal, refinery terminal, trucking terminal, or other.
- **NAL and AL sales**
  - ✓ Volumes (AL and NAL), handling charges (AL) and unit prices (AL).
  - ✓ Handling charges may be reported in a monthly basis for AL.

# CARE Revenue Report - NETBKCAL



## Cost Analysis and Reporting Enhancement (CARE) Bitumen Blend Netback Calculation

Form Id: CARE\_REVENUE

Version #: 3

Stream: LLB - Lloyd Blend

Product Type: Dilbit

Operator Name: ABC LTD

Operator ID: 1598

For the Period: 2015 01 01 to 2015 03 31

Month of Sale	Blend Volume (m3)	Diluent Type	Diluent Volume (m3) (Per Type)	Diluent Price (C\$/m3) (Per Type)	Shrinkage Volume (m3)	Diluent Sent Back to Project (Yes/No)
January 2014	1,350,000.0	condensate	405,000.0	\$ 600.00	3,375.0	No
January 2014	950,000.0	butane	285,000.0	\$ 500.00	2,375.0	No

**Notes:**



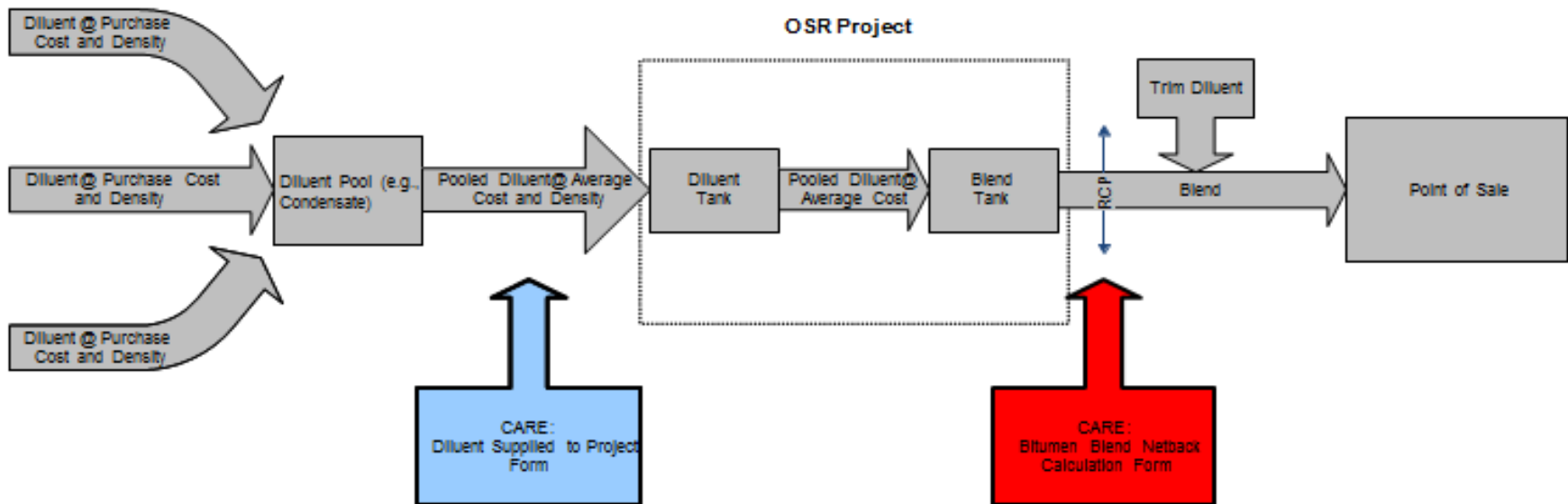
# NETBKCAL (Cont'd)

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- **Month selected from a drop down list**
- **Blend Volume at the RCP.**
- **Diluent volume reported reflects the diluent contained in the bitumen blend at the RCP.**
- **Diluent Type selected from a drop down list.**
  - ✓ Use 'Notes' section if 'Diluent Type' does not appear in the list.

# CARE Revenue Report - DILUENT

## Diluent Flow



# DILUENT (Cont'd)



## Cost Analysis and Reporting Enhancement (CARE) Diluent Supplied to a Stream

Form Id: CARE\_REVENUE

Version #: 3

Stream: LLB - Lloyd Blend Product Type: Dilbit

Operator Name: ABC LTD

Operator ID: 1598

For the Period: 2015 01 01 to 2015 03 31

Month of Supply	Diluent Type	Diluent Density (kg/m3)	Diluent Pool Location	Volume (m3)	Price (C\$/m3)	Arms Length Transaction (%)	Mode of Transportation	Transportation Cost in the Price (Yes/No)	Transportation Cost (C\$)
January 2014	condensate	691.5	Edmonton	405,000.0	\$ 600.00	100.0%	Pipeline	No	\$ 1,500,000.00
January 2014	butane	695.1	Edmonton	285,000.0	\$ 500.00	0.0%	Pipeline	No	\$ 1,055,555.56

**Notes:**



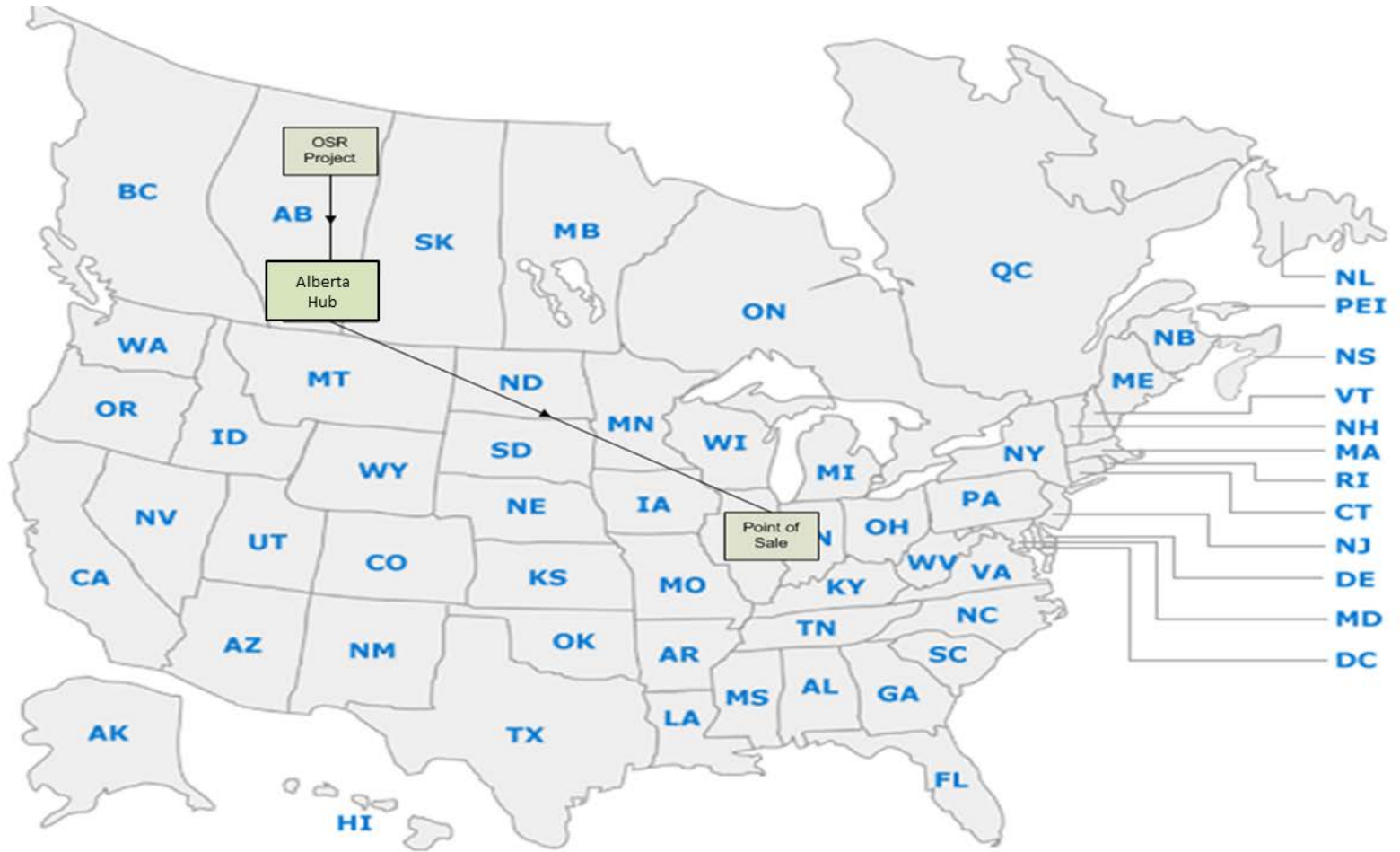
# DILUENT (Cont'd)

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- **Month and Diluent Type chosen from drop down list**
  - ✓ Use 'Notes' section if 'Diluent Type' does not appear in the list.
- **Mode of Transportation chosen from drop down list**
  - ✓ Indicate if the diluent is transported by pipeline, rail, truck, or other.
- **Transportation Cost in the Price (Yes/No)**
  - ✓ Indicate if the transportation cost was included in the reported price. If not, the transportation cost is required.
- **Diluent Volume reported is actual purchases or diluent supplied from internal diluent pool to the OSR project(s) for stream blending purposes**
  - ✓ This diluent volume does not necessarily equate the diluent contained in the bitumen blend at RCP.



# CARE Revenue Report - TRANSCST



# TRANSCST (Cont'd)



## Cost Analysis and Reporting Enhancement (CARE) Transportation Costs

Form Id: CARE\_REVENUE

Version #: 3

Stream: LLB - Lloyd Blend Product Type: Dilbit  
 Operator Name: ABC LTD  
 Operator ID: 1598  
 For the Period: 2015 01 01 to 2015 03 31

Month	Origin	Destination	Mode of Transportation	Pipeline Name(s) (If Using Pipeline)	Total Transported Volume (m3)	Transportation Costs (C\$)	Transportation Cost per m3	If Using Rail, Committed? (Yes/No)	Includes Diluent Return? (Yes/No)
January 2014	Project AAA	Edmonton	Pipeline	Pipeline A	700,000.0	\$ 13,209,000.00	\$ 18.87		No
January 2014	Project AAA	Hardisty	Pipeline	Pipeline B	400,000.0	\$ 7,548,000.00	\$ 18.87		No
January 2014	Project AAA	Hardisty	Pipeline	Pipeline C	600,000.0	\$ 11,322,000.00	\$ 18.87		No
January 2014	Project AAA	Edmonton	Pipeline	Pipeline D	600,000.0	\$ 6,604,500.00	\$ 11.01		No
January 2014	Edmonton	Texas, PADD III	Rail		250,000.0	\$ 28,305,000.00	\$ 113.22	Yes	No
January 2014	Hardisty	Illinois, PADD II	Rail		250,000.0	\$ 25,000,000.00	\$ 100.00	Yes	No
January 2014	Edmonton	Ohio, PADD II	Pipeline	Pipeline E	200,000.0	\$ 6,290,000.00	\$ 31.45		No

Notes:



# TRANSCST (Cont'd)

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- **Month and mode of transportation are selected from a drop down list**
- **Pipeline Name (if using pipeline) and If Using Rail, Committed? (Yes/No) columns are required**
  - ✓ For rail, indicate yes, if the pay or take contract is at least for 12 months.
- **Origin (for initial transportation, identify the OSR Project) and Destination (the point where the product was unloaded)**
  - ✓ For Canadian destinations, identify the hub or terminal.
    - For instance, if the transfer occurs in Alberta, identify Edmonton or Hardisty.
    - If the transfer is not at the Albertan hub, identify the location/terminal.
  - ✓ For US destinations, identify State and Petroleum Administration Defense District (PADD).
- **Transportation Costs refers invoiced amount for transportation for that month (\*)**
  - ✓ Does not necessarily equate to the handling charge reported in the GFE / MRC.

# CARE Revenue Report - OOSPREV

## Cost Analysis and Reporting Enhancement (CARE) Other Oil Sands Products Revenue

Form Id: CARE\_REVENUE

Version #: 3



Stream: LLB - Lloyd Blend

Product Type: Dilbit

Operator Name: ABC LTD

Operator ID: 1598

For the Period: 2015 01 01 to 2015 03 31

Month of Sale	Product	Volume	Price (C\$/unit)	Arms Length Transaction (Yes/No)	Mode of Transportation	Origin	Destination (Title Transfer)	Transportation Costs (C\$)	Other Handling Costs (C\$)

Notes:



# CARE Revenue Report - SUMMARY



## Cost Analysis and Reporting Enhancement (CARE) Revenue Forms Summary

Form Id: CARE\_REVENUE

Version #: 3

**Stream Name:** LLB - Lloyd Blend

**Reporting Period:** Q1 2015

**Product Type:** Dilbit

**Operator Name:** ABC LTD

**Operator ID:** 1598

### Bitumen Netback Calculator for Arms Length Transaction

Month	Total Consideration	Handling Charge	Total Disposition	Unit Price	Weighted Average Diluent Price	Diluent Volume	Diluent Value	Netback Price
January 2015	\$ 714,554,000	\$ 97,727,850	1,800,000	\$ 342.68	\$ 558.70	540,000	\$ 301,695,652	\$ 250.10
February 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
March 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
April 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
May 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
June 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
July 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
August 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
September 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
October 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
November 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A
December 2015	\$ -	\$ -	0	#N/A	#N/A	#N/A	#N/A	#N/A

### Diluent Ratio Calculator

Month	Diluent Volume	Blend Volume	Diluent Ratio
January 2015	690,000	2,300,000	30.00%
February 2015	0	0	#N/A
March 2015	0	0	#N/A
April 2015	0	0	#N/A
May 2015	0	0	#N/A
June 2015	0	0	#N/A
July 2015	0	0	#N/A
August 2015	0	0	#N/A
September 2015	0	0	#N/A
October 2015	0	0	#N/A
November 2015	0	0	#N/A
December 2015	0	0	#N/A

### Transportation Cost Calculator

Month	Volume	Monthly Cost	Cost per m3
January 2015	3,000,000	\$ 98,278,500	\$ 32.76
February 2015	0	\$ -	#N/A
March 2015	0	\$ -	#N/A
April 2015	0	\$ -	#N/A
May 2015	0	\$ -	#N/A
June 2015	0	\$ -	#N/A
July 2015	0	\$ -	#N/A
August 2015	0	\$ -	#N/A
September 2015	0	\$ -	#N/A
October 2015	0	\$ -	#N/A
November 2015	0	\$ -	#N/A
December 2015	0	\$ -	#N/A

# SUMMARY (Cont'd)



## Cost Analysis and Reporting Enhancement (CARE) Revenue Forms Summary

Form Id: CARE\_REVENUE  
Version #: 3

**Stream Name:** LLB - Lloyd Blend

**Reporting Period:** Q1 2015

**Product Type:** Dilbit

**Operator Name:** ABC LTD

**Operator ID:** 1598

### Pipeline Transportation Cost Calculator

Month	Volume	Monthly Cost	Cost per m3
January 2015	2,500,000	\$ 44,973,500	\$ 17.99
February 2015	0	\$ -	#N/A
March 2015	0	\$ -	#N/A
April 2015	0	\$ -	#N/A
May 2015	0	\$ -	#N/A
June 2015	0	\$ -	#N/A
July 2015	0	\$ -	#N/A
August 2015	0	\$ -	#N/A
September 2015	0	\$ -	#N/A
October 2015	0	\$ -	#N/A
November 2015	0	\$ -	#N/A
December 2015	0	\$ -	#N/A

### Rail Transportation Cost Calculator

Month	Volume	Monthly Cost	Cost per m3
January 2015	500,000	\$ 53,305,000	\$ 106.61
February 2015	0	\$ -	#N/A
March 2015	0	\$ -	#N/A
April 2015	0	\$ -	#N/A
May 2015	0	\$ -	#N/A
June 2015	0	\$ -	#N/A
July 2015	0	\$ -	#N/A
August 2015	0	\$ -	#N/A
September 2015	0	\$ -	#N/A
October 2015	0	\$ -	#N/A
November 2015	0	\$ -	#N/A
December 2015	0	\$ -	#N/A

### Truck Transportation Cost Calculator

Month	Volume	Monthly Cost	Cost per m3
January 2015	0	\$ -	#N/A
February 2015	0	\$ -	#N/A
March 2015	0	\$ -	#N/A
April 2015	0	\$ -	#N/A
May 2015	0	\$ -	#N/A
June 2015	0	\$ -	#N/A
July 2015	0	\$ -	#N/A
August 2015	0	\$ -	#N/A
September 2015	0	\$ -	#N/A
October 2015	0	\$ -	#N/A
November 2015	0	\$ -	#N/A
December 2015	0	\$ -	#N/A

### Other Transportation Cost Calculator

Month	Volume	Monthly Cost	Cost per m3
January 2015	0	\$ -	#N/A
February 2015	0	\$ -	#N/A
March 2015	0	\$ -	#N/A
April 2015	0	\$ -	#N/A
May 2015	0	\$ -	#N/A
June 2015	0	\$ -	#N/A
July 2015	0	\$ -	#N/A
August 2015	0	\$ -	#N/A
September 2015	0	\$ -	#N/A
October 2015	0	\$ -	#N/A
November 2015	0	\$ -	#N/A
December 2015	0	\$ -	#N/A

# SUMMARY (Cont'd)

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- **No inputs required**
  - Uses data from other tabs in workbook
- **Calculates Bitumen Netback Price**
- **Calculates Diluent Ratio for blends**
- **Calculates per unit Transportation Cost**

# WCS Sales Report

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- **Reporting includes WCS Sales Volume, Prices and stream contribution to WCS.**
- **Submitted quarterly, on a cumulative basis.**
- **WCS Sales Reporting Workbook Tabs:**
  - Cover Page
  - Monthly Information (12 tabs)
- **WCS Sales Reporting applies only to OSR Operators that produce WCS by contributing stream volumes to it.**



# WCS Sales Report - Cover Page

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**Cost Analysis and Reporting Enhancement (CARE)**  
**Western Canadian Select (WCS) Sales**  
Filed Quarterly

Form Id: CARE\_WCS  
Version #: 7.00

Operator: ABC LTD

Operator ID: 1598

Current Reporting Period: Q1 2015

Contact Name: \_\_\_\_\_  
Company Title: \_\_\_\_\_  
Date Prepared: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_

- **Minimizes/facilitate data entry:**
  - ✓ Operator Name, Operator ID, and Current Reporting Period flow to each monthly tab.
  - ✓ Entry fields in blue while calculated fields in black.
  - ✓ Contact information is also required.



# WCS Sales Report - Monthly Information



**Cost Analysis and Reporting Enhancement (CARE)**  
**Western Canadian Select (WCS) Sales**  
 Filed Quarterly

Form Id: CARE\_WCS  
 Version #: 7.00

Operator: ABC LTD  
 Operator ID: 1598

Sales Month: January  
 Current Reporting Period: Q1 2015

Western Canadian Select (WCS) Sales Summary - (Company Basis)							
WCS Sales Point	WCS Sales Volumes - (m <sup>3</sup> )	WCS Sales Value at Sales Point - (\$)	WCS Sales Price at Sales Point - (\$/m <sup>3</sup> )	Handling Cost - Hardisty Terminal to Sales Point - (\$)	Handling Cost - Hardisty Terminal to Sales Point - (\$/m <sup>3</sup> )	WCS Sales Value at Hardisty Terminal - (\$)	WCS Sales Price at Hardisty Terminal - (\$/m <sup>3</sup> )
Hardisty	993,510.57	\$ 482,527,366.80	\$ 485.68	\$ -	\$ -	\$ 482,527,366.80	\$ 485.68
Enbridge	430.33	\$ 245,051.43	\$ 569.45	\$ 30,000.00	\$ 69.71	\$ 215,051.43	\$ 499.74
			#N/A		#N/A	\$ -	#N/A
<b>Total WCS Sales</b>	<b>993,940.90</b>	<b>\$ 482,772,418.23</b>		<b>\$ 30,000.00</b>		<b>\$ 482,742,418.23</b>	
<b>Weighted Average WCS Price at Hardisty Terminal</b>							<b>\$ 485.69</b>

- **WCS Sales point from a drop down list**
  - ✓ Use 'Notes' section if your sales point does not appear in the list.
- **WCS Sales Volume (m3), WCS Sales Value (\$) and Handling Costs (\$) from Hardisty to the Sales Point (if the Sales Point is different than Hardisty) are required**
  - ✓ The goal is to obtain the Weighted Average WCS Price at Hardisty.

[https://www.alberta.ca/assets/documents/care\\_WCS\\_sales\\_example.pdf](https://www.alberta.ca/assets/documents/care_WCS_sales_example.pdf)



# Monthly Information (Cont'd)



Cost Analysis and Reporting Enhancement (CARE)  
Western Canadian Select (WCS) Sales  
Filed Quarterly

Form Id: CARE\_WCS  
Version #: 7.00

Operator: ABC LTD  
Operator ID: 1598

Sales Month: January  
Current Reporting Period: Q1 2015

WCS Component Stream	WCS Sales Volume - (m <sup>3</sup> )	WCS Sales Value at Hardisty Terminal - (\$)	WCS Component Stream Equalization - (\$)	WCS Component Stream Revenue - (\$)	Hardisty Terminal Diluent Volume - (m <sup>3</sup> )	Hardisty Terminal Diluent and Handling Cost - (\$)	WCS Receipts at Hardisty Terminal Net of Hardisty Diluent - (m <sup>3</sup> )	WCS Receipts Revenue Net of Hardisty Diluent - (\$)	WCS Receipts Revenue Net of Hardisty Diluent - (\$/m <sup>3</sup> )	WCS Sales % of Total Component Stream Sales - (%)	Weighted Average Component Stream Revenue - (\$/m <sup>3</sup> )
CLB - Cold Lake Blend	180,670.90	\$ 87,749,188.28	\$ 1,198,480.90	\$ 86,550,707.38	10,324.00	\$ 7,630,099.20	170,346.90	\$ 78,920,608.18	\$ 463.29	50.4%	\$ 363.60
LLB - Lloyd Blend	813,270.00	\$ 394,993,229.95	\$ 6,303,502.32	\$ 401,296,732.27	-	\$ 324,412.80	813,270.00	\$ 400,972,319.48	\$ 493.04	95.5%	\$ 370.00
			\$ -	\$ -		\$ -		\$ -		#N/A	
<b>Total Component Stream</b>	<b>993,940.90</b>	<b>\$ 482,742,418.23</b>	<b>\$ 5,105,021.42</b>	<b>\$ 487,847,439.65</b>	<b>10,324.00</b>	<b>\$ 7,954,512.00</b>	<b>983,616.90</b>	<b>\$ 479,892,927.65</b>			

Notes:

- WCS Component Stream from a drop down list**
  - ✓ Indicate 'Other' and use the 'Notes' section if your stream does not appear in the list.
- Total WCS Sales Volume (m3) and WCS Sales Value at Hardisty (\$) should reconcile with the information reported in the previous section.**
- WCS Component Stream Equalization (\$), Hardisty Terminal Diluent Volume (m3), Hardisty Terminal Diluent and Handling Cost (\$), WCS Sales % of Total Component Stream Sales (%), and Weighted Average Component Stream Revenue (\$/m3) are also required.**

# Cost Analysis and Reporting Enhancement (CARE)

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## **CARE Cost and Subsurface Reports**

# CARE Cost Reports

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- Reported on OSR Project level basis: one cost report for each OSR Project.
- Separate cost report templates for In-Situ and Mining Projects.
- Contains annual costs and volumes from year start (Jan 1st) to year end (Dec 31st).
- Comprises of “Allowed Costs” only (as defined in Oil Sands Allowed Costs Regulation).
- CARE Cost Tabs:
  - EOPS & CARE Recon
  - CAPEX
  - OPEX
  - Volumetric

# CARE Cost Reports:

Header: EOPS and CARE Recon Tab

Government of Alberta ■

Energy

## Cost Analysis and Reporting Enhancement (CARE) CARE Allowed Cost / End of Period Statement Reconciliation

Filed Annually

OSR Project Number:

OSR###

Project Name:

Project Name

Operator Name:

Operator Name

Operator ID:

Operator ID

Year to Date as at:

YYYY/MM/DD

Contact Name:

Contact Name

Company Title:

Company Title

Date Prepared:

YYYY/MM/DD

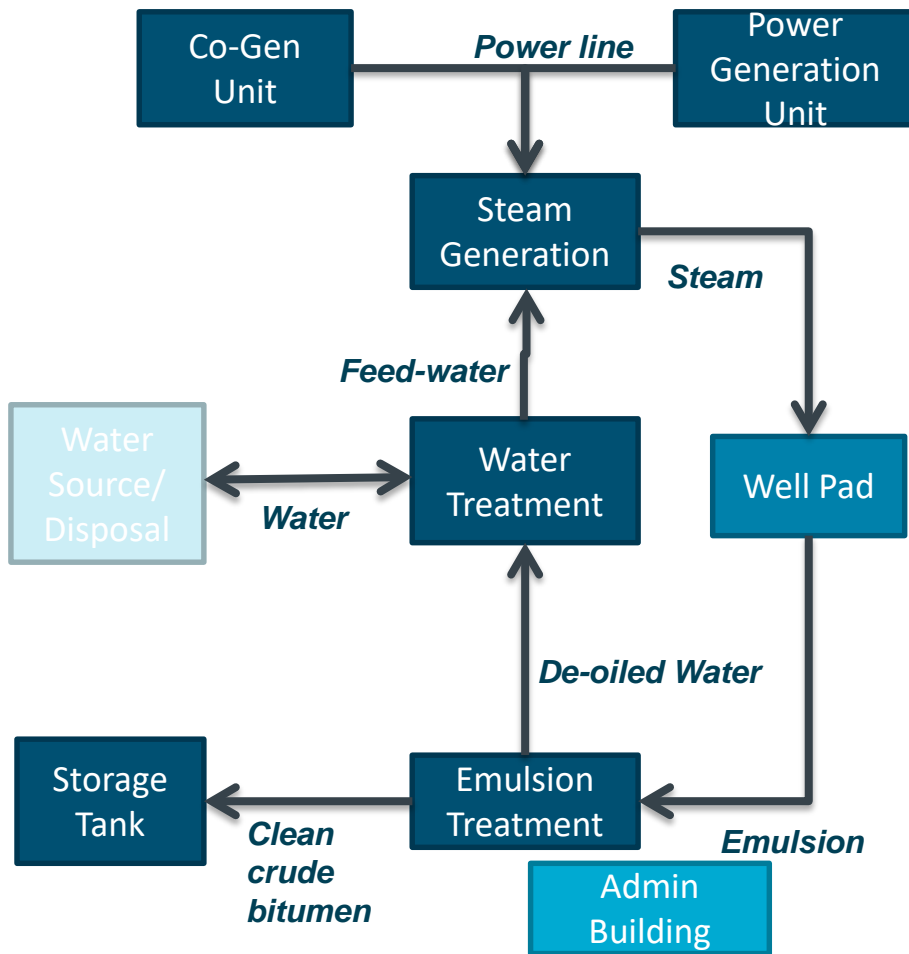
Phone Number:

Phone Number

E-Mail Address:

E-Mail Address

# CARE Cost Reports : CAPEX In-Situ



<u>Location</u>	<u>Cost Categories</u>
Well Pad , Field work	Delineation and Exploration; Development; Bitumen Production Facilities and Equipment
Steam Generation, steam	Steam Gen and Distribution
Emulsion, CCB, Storage Tank, Power Line	Gathering Distribution and Storage
Emulsion Treatment, De-oiled Water, Water Treatment, Feed Water, Water, Water Source and Disposal	Emulsion Treating & Cleaning (including Water Treatment)
Admin Bldg.	Administrative and Support Facilities

# CARE Cost Reports:

## CAPEX Tab : In-Situ

### In-Situ Project

	PNCB		CAPEX			TOTAL	
	Strategic	Sustaining	Strategic	Sustaining	Reclamation / Abandonment	Total CAPEX	Total CAPEX (inc. PNCB)
<b>Delineation &amp; Exploration</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Development</b>							
Development Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Well Re-completion/ Workover Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Gathering, Distribution and Storage</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Transportation Infrastructure</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Co-Generation Plants</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Bitumen Production Facilities &amp; Equipment</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Emulsion Treating &amp; Cleaning (including Water Treatment)</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Steam Generation and Distribution</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Upgrading Facilities</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Environmental Compliance Costs</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Research</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Administrative and Support Facilities</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Other (Please specify)*</b>							
Other Field 1	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 2	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 3	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 4	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 5	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Capital Costs</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

\*Costs not associated with a specific category must be included here to ensure the Total Capital Costs reconcile to the End of Period Statements.

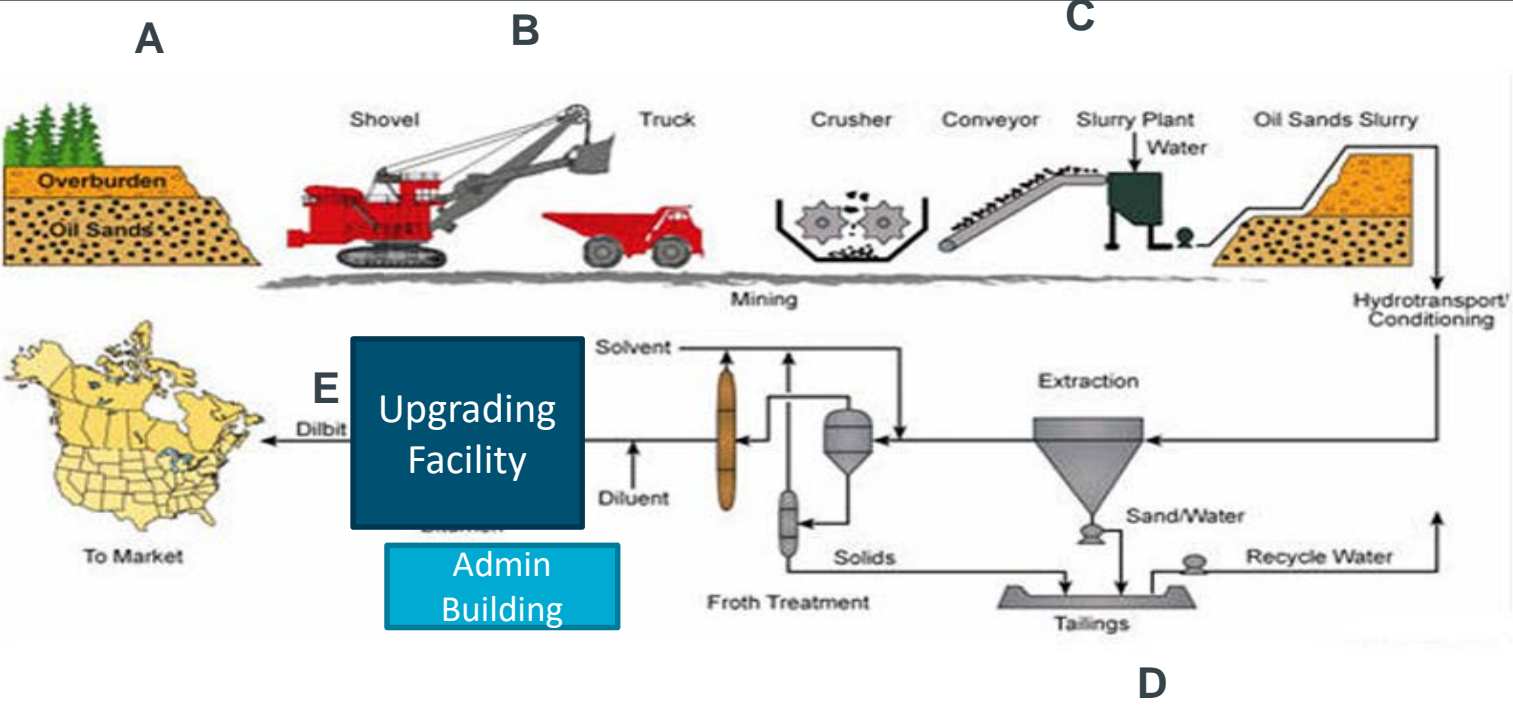
#### Capitalization Methodology:

(e.g. Dollar Threshold, Useful Life Measurement)

[Enter capitalization methodology](#)



# CARE Cost Reports : CAPEX Mining



Location

Cost Categories

A,B	Delineation and Exploration
B,C	Mining Equipment and Activities
D	Extraction and Tailings
E	Upgrading
Admin Building	Administrative and Support Facilities

# CARE Cost Reports:

## CAPEX Tab : Mining

### Mining

	PNCB		CAPEX			TOTAL	
	Strategic	Sustaining	Strategic	Sustaining	Reclamation / Abandonment	Total CAPEX	Total CAPEX (inc. PNCB)
Delineation & Exploration	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Mining Equipment and Activities	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Utility Plants	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Co-Generation Plants	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Extraction / Tailings	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Upgrading Facilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Environmental Compliance Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Research	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Administrative and Support Facilities	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other (Please specify)*							
Other Field 1	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 2	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 3	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 4	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other Field 5	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total Capital Costs</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

\*Costs not associated with a specific category must be included here to ensure the Total Capital Costs reconcile to the End of Period Statements.

**Capitalization Methodology:** [Enter capitalization methodology](#)  
 (e.g. Dollar Threshold, Useful Life Measurement)

# CARE Cost Reports:

## *OPEX Tab (In-Situ and Mining)*

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	January	February
<b>No. of On-Site Employees (Annual)</b>	N/A	N/A
<b>Labour Compensation - On Site</b>	\$0	\$0
<b>Labour Compensation - Off Site</b>	\$0	\$0
<b>Contract Service &amp; Equipment Rent:</b>	\$0	\$0
<b>Purchased Energy</b>		
Gas	\$0	\$0
Electricity	\$0	\$0
<b>Subtotal</b>	<b>\$0</b>	<b>\$0</b>
<b>Energy - Other</b>	\$0	\$0
<b>Processing Fees - AL and NAL</b>	\$0	\$0
<b>Purchased Feedstock - AL and NAL</b>	\$0	\$0
<b>Municipal / Provincial Taxes &amp; Fees</b>	\$0	\$0
<b>Environmental Compliance Costs</b>	\$0	\$0
<b>Insurance</b>	\$0	\$0
<b>Research</b>	\$0	\$0
<b>Supplies and Materials</b>	\$0	\$0
<b>Other (please specify) *</b>		
Other Field 1	\$0	\$0
Other Field 2	\$0	\$0
Other Field 3	\$0	\$0
Other Field 4	\$0	\$0
Other Field 5	\$0	\$0
<b>Total Operating Costs</b>	<b>\$0</b>	<b>\$0</b>

\* Costs not associated with a specific category must be included here to ensure the Total O

# CARE Cost Reports:

## *EOPS and CARE Recon Tab*

	<u>\$</u>
<b>CARE - Capital Costs</b>	\$0.00
<b>CARE - Operating Costs</b>	\$0.00
<b>CARE - PNCB CAPEX Costs</b>	\$0.00
<b>Subtotal of CARE Costs</b>	<u>\$0.00</u>

### **Other Reconciling Costs**

Operating Costs in PNCB	\$0.00
Royalty Paid under NPR in PNCB	\$0.00
Revenue in PNCB	\$0.00
Diluent Costs	\$0.00
Previous Period's Net Loss	\$0.00
Return Allowance Earned on Previous Period's Net Loss	\$0.00
Excess of Previous Period's Gross Revenue Royalty Over Net Revenue Royalty	\$0.00

<b>End of Period Statement Total Costs</b>	<u>\$0.00</u>
--------------------------------------------	---------------

**Other Net Proceeds**

Must Reconcile with EOPS

\$0.00

# CARE Cost Reports:

## *Volumetric Tab (In-Situ and Mining)*

	Bitumen (m <sup>3</sup> )		Synthetic Crude Oil (m <sup>3</sup> )		Sulphur (tonnes)	Coke (tonnes)	Natural Gas (10 <sup>3</sup> m <sup>3</sup> )	Diluent (m <sup>3</sup> )	Tailings (m <sup>3</sup> )	Solvent (m <sup>3</sup> )	Steam (m <sup>3</sup> )	Electricity KWh	Water (m <sup>3</sup> )
	Proprietary	3rd Party	Proprietary	3rd Party									
<b>In - Situ Operations</b>													
Produced	0.0	N/A	N/A	N/A	0.0	N/A	0.0	N/A	N/A	N/A	0.0	0.0	0.0
Purchased	0.0	0.0	N/A	N/A	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	0.0
Processed	0.0	0.0	N/A	N/A	0.0	N/A	0.0	N/A	N/A	N/A	0.0	N/A	0.0
Consumed	0.0	0.0	N/A	N/A	N/A	0.0	0.0	0.0	N/A	0.0	0.0	0.0	0.0
Delivered to RCP	0.0	0.0	N/A	N/A	0.0	N/A	0.0	0.0	N/A	0.0	0.0	0.0	N/A
<b>Upgrading Operations (for Integrated Operations)</b>													
Produced	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	0.0	0.0	0.0
Purchased	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	0.0	0.0	0.0
Processed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	0.0	N/A	0.0
Consumed	0.0	0.0	0.0	0.0	N/A	0.0	0.0	0.0	N/A	N/A	0.0	0.0	0.0
Delivered to RCP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	0.0	0.0	N/A

# CARE Subsurface Reports

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- Reported on OSR Project level basis: one workbook for each OSR Project.
- Contains annual reserves and reservoir information from year start (Jan 1st) to year end (Dec 31st).
- Separate sections for Mining and In-Situ Projects
- Data Required:
  - Reservoir Properties (Ranges and Weighted Averages)
  - Initial and Remaining Proven and Probable Reserves
  - Methodology used in determining Reserves
  - Supplement information required to validate Reserves (e.g. price forecasts, plat maps, etc.)
- The Reserves section must be filled and signed - off by a Qualified Reserves Evaluator as defined in COGEH

# CARE Subsurface Reports:

## Reservoir and Reserves (In-Situ and Mining)

Reservoir Area (m<sup>2</sup>)  
 Reservoir Thickness (m)  
 Depth to Top of Reservoir (m)  
 Reservoir Net Pay (m)  
 Original Bitumen in Place (10<sup>3</sup>m<sup>3</sup>)  
 Estimated Ultimate Recovery (10<sup>3</sup>m<sup>3</sup>)  
 Oil Saturation (%)  
 Bitumen Density (kg/m<sup>3</sup>)  
 Bitumen Viscosity (cPs)  
 Porosity (%)  
 Vertical Permeability (mD)  
 Horizontal Permeability (mD)  
 Initial Reservoir Temperature (°C)  
 Initial Reservoir Pressure (kPa)

In-Situ Operations (Approved OSR Project to date)		
Minimum	Maximum	Average*
0	0	0
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.000	0.000	0.000
0.000	0.000	0.000
0%	0%	0%
0	0	0
0	0	0
0%	0%	0%
0	0	0
0	0	0
0.0	0.0	0.0
0	0	0

Mine Area (m<sup>2</sup>)  
 Deposit Thickness (m)  
 Depth to Top of Deposit (m)  
 Original Bitumen in Place (10<sup>3</sup>m<sup>3</sup>)  
 Oil Saturation (%)  
 Ore Grade<sup>1</sup> (%)  
 Bitumen Density (kg/m<sup>3</sup>)  
 Bitumen Viscosity (cPs)

Mining Operations (Approved OSR Project to date)		
Minimum	Maximum	Average*
0	0	0
0.00	0.00	0.00
0.00	0.00	0.00
0.000	0.000	0.000
0%	0%	0%
0%	0%	0%
0	0	0
0	0	0

<sup>1</sup> Ore Grade: Measures percentage of bitumen in oil sands.

\* Averages are weighted averages.

# CARE Subsurface Reports:

## Reservoir and Reserves (In-Situ and Mining)

### Reserves

Initial Proven Reserves ( $10^6\text{m}^3$ ) As at:

Initial Proven + Probable Reserves ( $10^6\text{m}^3$ ) As at:

Remaining Proven Reserves ( $10^6\text{m}^3$ )

Remaining Proven + Probable Reserves ( $10^6\text{m}^3$ )

In-Situ Projects Bitumen*	Mining Projects Bitumen*
0	0
0	0
0	0
0	0

Methodology Used to Determine Reserves:

\*If reserves are calculated on a synthetic crude oil (SCO) basis, report estimated bitumen volumes based on SCO reserves calculated.

#### Comments:

Pricing assumptions (attach spreadsheet if pricing information is not a constant price)  
Any other information the operator may report to clarify the reserves calculation.

Comment on Plat Maps!

The information on this form was prepared in accordance with Canadian Oil & Gas Evaluation Handbook (COGEH) or with the Petroleum Resources Management System by the Society of Petroleum Engineers (SPE), American Association of Petroleum Geologists (AAPG), World Petroleum Council (WPC) and Society of Petroleum Evaluation Engineers (SPEE). The underlying data is consistent with reserves data provided to the corporate reserves committee or person(s) responsible for corporate reserves reporting for the project and represents a good faith estimate of the reserves for the area identified in the attached plat map.

Submitted by: \_\_\_\_\_

Title: \_\_\_\_\_

Forms with missing sign-offs will be deemed incomplete



# References

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- Alberta Energy Website
- <https://www.alberta.ca/oil-sands-forms.aspx>
- CARE Workbooks
  - CARE Presentations
  - CARE FAQ
  - Timetable (Filing deadlines)
  - Glossary (Definitions)
- Information Bulletins
- <https://open.alberta.ca/publications/oil-sands-information-bulletin>
- IB 2015-03

# Contact Information

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# Questions?

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**Thank you!**

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# BACK-UP SLIDES

# Summary of Recent Updates - IB 2015-03

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## **CARE Cost Report**

- Due Annually commencing with 2015 Period
- Volumetric data moved from CARE Project to CARE Cost
- Updated fields; removed redundancy and streamlined workbooks
- Added “Other” cost category for user to define

## **CARE Subsurface Report**

- Previously called CARE Project Report
- Streamlined – includes only Reserves and Reservoir information
- No longer requires reporting on the initial Project. Only requires reporting on the approved project to date.