Teck

Energy Projects

March 30, 2016 Ray Reipas, Senior Vice President, Energy Tim Watson, Senior Vice President, Project Development



Energy Projects Forward Looking Information

Both these slides and the accompanying oral presentation contain certain forward-looking statements within the meaning of the United States Private Securities Litigation Reform Act of 1995 and forward-looking information within the meaning of the Securities Act (Ontario) and comparable legislation in other provinces. Forward-looking statements can be identified by the use of words such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variation of such words and phrases or state that certain actions, events or results "may", "could", "should", "would", "might" or "will" be taken, occur or be achieved. Forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of Teck to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. These forward-looking statements include statements relating to management's expectations regarding future oil prices, statements that Fort Hills economics are robust, expectation of significant free cash flow from Fort hills, Teck's projected 2016 capital spend and remaining commitment, Fort Hills operating and sustaining costs, sustaining capital costs, and other statements regarding our Fort Hills project, including mine life, projected revenues and economics, cash flow potential, future production targets, availability and sufficiency of logistics solutions, diluent blending requirements and our market access options.

These forward-looking statements involve numerous assumptions, risks and uncertainties and actual results may vary materially. Management's expectations of mine life are based on the current planned production rate and assume that all resources described in this presentation are developed. Certain forward-looking statements are based on assumptions regarding the price for Fort Hills product, operating costs, WTI prices, export market premiums, exchange rates and the expenses for the project. In addition, certain statements are based on assumptions set out in the presentation slides or oral presentation or assumptions regarding general business and economic conditions, market competition, availability of market access options described in this presentation, our ongoing relations with our partners, performance by customers and counterparties of their contractual obligations, and the future operational and financial performance of the company generally. The foregoing list of assumptions is not exhaustive.

Events or circumstances could cause actual results to differ materially. Factors that may cause actual results to vary include, but are not limited to: unanticipated developments in business and economic conditions in the oil market, changes in interest or currency exchange rates, changes in taxation laws or tax authority assessing practices, legal disputes or unanticipated outcomes of legal proceedings, unanticipated operational or development difficulties (including failure of plant, equipment or processes to operate in accordance with specifications or expectations, cost escalation, unavailability of materials and equipment, industrial disturbances or other job action, and unanticipated events related to health, safety and environmental matters), assumptions used to generate our economic analysis, decisions made by our partners, political events, social unrest, lack of available financing for Teck or its partners or co-venturers, and changes in general economic conditions or conditions in the financial markets. Our Fort Hills project is not controlled by us and construction and production schedules may be adjusted by our partners.

Certain of these risks are described in more detail in Teck's annual information form available at <u>www.sedar.com</u> and in public filings with the SEC at <u>www.sec.gov</u>. Teck does not assume the obligation to revise or update these forward-looking statements after the date of this document or to revise them to reflect the occurrence of future unanticipated events, except as may be required under applicable securities laws.





Energy Business

Fort Hills

Energy Business Building A Valuable Energy Business

Market strategy and market access are progressing

Teck

Fort Hills economics are robust

Significant free cash flow over 50 year project life at expected long term oil price

Energy Business **Progress in Implementing Our Diversified Marketing Strategy**



Agreements for pipelines to Hardisty in place

Agreement for Hardisty product storage in place

Monitoring production vs market access balance

Developing a portfolio of pipeline capacity opportunities, to enable access to diversified markets

Evaluating opportunities in the secondary market for pipeline capacity

Developing a diversified customer base

Teck can enter into long-term take or pay contracts

Market Access Options for Teck's 50 kbbls/day of Fort Hills Diluted Bitumen Blend



Energy Business Committed Logistics Solutions in Alberta



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Energy Business Northern Courier Bitumen Pipeline Progress **Teck**



Pipeline construction

Pipeline start at the Fort Hills tank farm

Energy Business East Tank Farm Progress





Energy Business Wood Buffalo Extension Pipeline Progress



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Energy Business Norlite Diluent Pipeline Progress





Energy Business Gibson's Tank at Hardisty Progress





Energy Business Fort Hills Project Economics Are Robust¹



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The Fort Hills project is expected to have significant free cash flow yield across a range of WTI prices

Source: Teck

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- 1. Estimates are based on exchange rates as shown, expected bitumen netbacks, and operating costs of C\$25 per barrel (including sustaining capital of C\$3-5 per barrel).
- 2. Per barrel of bitumen.
- 3. Sanction capex is the go-forward amount from the date of the Fort Hills sanction decision (October 30, 2013), denominated in Canadian dollars and on a fully-escalated basis.
- 4. Pre-tax free cash flow yield during pre and post capital recovery periods.
- 5. Post-payout estimated net margin includes C\$1.50 export market premium.

Energy Business Building A Valuable Energy Business

Market strategy and market access are progressing

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Fort Hills economics are robust

Significant free cash flow over 50 year project life at expected long term oil price





Energy Business

Fort Hills

Fort Hills Fort Hills Project On Track



On schedule, with construction >53% complete¹ On budget, with significant contingency remaining

Commissioning starting in 15 months

1. As at February 29, 2016. Photo Source: Suncor

Fort Hills Project Status & Progress



Project Progress

construction has surpassed the midway point and the project continues to track positively within schedule expectations >95% >53% **Engineering complete**

approximate as at February 29, 2016

Construction complete

approximate as at February 29, 2016

Safety and Environment

continued positive performance

~28M 0.45-0.55

Construction hours

2 reportable environmental; 0 regulatory non-compliance

Recordable injury frequency per 200,000 exposure hours



Global fabrication, module and logistics program performing well to date, delivering positive results

All critical schedule milestones have been achieved to date supporting target 2017 first oil



Fort Hills Key Numbers¹

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bitumen barrels per year

Teck's Sanction Capital ²	Teck's Estimated 2016 Spend	Teck's Remaining Capital ³
~\$2.94	\$960	~\$1.2
billion	million	billion
Operating & Sustaining Costs ⁴	Sustaining Capital ⁴	Teck's Share of Production
\$25-28	\$3-5	13,000,000

per barrel of bitumen

Mine life: **50** years

per barrel of bitumen

- 1. All costs and capital are based on Suncor's estimates.
- 2. Sanction capital is the go-forward amount from the date of the Fort Hills sanction decision (October 30, 2013), denominated in Canadian dollars and on a fully-escalated basis. Includes earn-in of \$240M.
- 3. As of February 10, 2016.

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4. Sustaining capital is included in operating & sustaining costs.

Fort Hills Bitumen Production & Blend Supply



Fort Hills

• Teck Share: 20%, or 36 kbpd of bitumen

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- Start-up: December 2017
- 90% production after 12 months
- Production varies based on operating conditions and throughput

Diluent Blending Required

- Diluent required to meet pipeline viscosity specifications
- Typical barrel of blended bitumen: 75% bitumen and 25% diluent
- Blend requirements depend on bitumen density, diluent quality and seasonality

Total blend for Teck: 45-50 kbpd

Fort Hills Site Overview

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Source: Suncor

Fort Hills Ore Preparation Plant MSE Wall & Crusher





Fort Hills Ore Preparation Plant

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Source: Suncor

Fort Hills Ore Preparation Plant One of Two Crusher Stations





Fort Hills Ore Preparation Plant One of Two Crusher Stations





Source: Suncor

Fort Hills Ore Preparation Plant Surge Bin, Conveyors, Rotary Breaker Building





Fort Hills **Extraction & Tailings**





Fort Hills Extraction & Tailings Primary Separation Cells, Flotation & Tailings Buildings





Fort Hills Extraction & Tailings Primary Separation Cells, Flotation & Tailings Buildings





Fort Hills Secondary Extraction

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Fort Hills Secondary Extraction

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Source: Suncor

Fort Hills Secondary Extraction





Fort Hills Solvent Bullets Installed





Fort Hills River Water Intake Coffer Dam



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Fort Hills River Water Intake

Mechanical Installation of Pumphouse





Fort Hills Utilities & Offsites





Fort Hills Utilities & Offsites

Boiler Installation





Fort Hills **Utilities & Offsites**

Storage Tanks





Fort Hills Fort Hills Project On Track



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1. As at February 29, 2016. Photo Source: Suncor

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Appendix



Energy Business Fort Hills Bitumen Netback Calculation Model **Teck**

Cash Margin¹ Calculation Example: Prior to Capital Recovery \$70 \$14.75 \$1.25 \$7-9 \$13.50 \$60 \$58.75 \$10 \$60 \$50 \$22 \$40 \$40 \$30 \$3 \$1.50 \$13.50 \$1-2 \$15 \$20 \$10 Tidawater Caen Margin per Bilumen bol Fort HIIS BIUMEN Netback (SCADIDAN \$-Exchange Rate \$1.30 USDICAD Caen Margin per Bitumen bol WTIMCS Differential (SUSIDDIT WCS @Hardisty (SCADIbbi) Pipelines and Terminaling wire Operating Costs Nine Sustaining Cepital Fort Hills Blend Quality Export Market Pranium*

Royalties based on pre-capital payout.

* WTI/WCS Differential based on Lee & Doma 2016-2020 forecast average.

** Export Premium based on average premium pricing for USGC market via Keystone and Flanagan South Pipelines. Source: Alberta Energy bitumen valuation methodology (http://www.energy.alberta.ca/OilSands/1542.asp)

40 1. Estimates are based on C\$/US\$ exchange rates as shown, expected bitumen netbacks, operating costs of C\$25 per barrel (including sustaining capital of C\$3-5 per barrel) and Phase 1 (pre-capital payout) royalties.

Energy Business Fort Hills Bitumen Netback Calculation Model **Teck**



Royalties based on pre-capital payout.

* WTI/WCS Differential based on Lee & Doma 2021-2030 forecast average.

** Export Premium based on average premium pricing for USGC market via Keystone and Flanagan South Pipelines. Source: Alberta Energy bitumen valuation methodology (http://www.energy.alberta.ca/OilSands/1542.asp)

1. Estimates are based on C\$/US\$ exchange rates as shown, expected bitumen netbacks, operating costs of C\$25 per barrel (including sustaining capital of C\$3-5 per barrel) and post payout royalties.