Corporate Update July 2022

Powering PEOPLE, PARTNERSHIPS AND PASSION.

enison Mines Uranium Development & Exploration

0 0

The Athabasca Basin, Northern Saskatchewan

Cautionary Statements & References



This presentation and the information contained herein is designed to help you understand management's current views, and may not be appropriate for other purposes. This presentation contains information relating to the uranium market, third party and provincial infrastructure, and the plans and availability thereof, derived from third-party publications and reports which Denison believes are reliable but have not been independently verified by the Company.

Certain information contained in this presentation constitutes "forward-looking information", within the meaning of the United States Private Securities Litigation Reform Act of 1995 and similar Canadian legislation concerning the business, operations and financial performance and condition of Denison. Generally, these forward-looking statements can be identified by the use of forward-looking terminology such as "plans", "expects", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or the negatives and / or variations of such words and phrases, or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur", "be achieved" or "has the potential to". In particular, this presentation contains forward-looking information pertaining to the results of, and estimates, assumptions regarding Denison's ability to obtain all necessary regulatory approvals to commence development methods and plans, market prices, costs and capital expenditures; de-risking and project assessment activities, plans and objectives; assumptions regarding Denison's ability to obtain all necessary regulatory approvals to commence development at Wheeler; Denison's percentage interest in its projects and assumed continuity of its agreements with its joint venture partners and other third parties; production and SABRE development outlook for McClean Lake; and estimates of uranium industry factors, including physical uranium supply and demand. Statements relating to "mineral resources" are deemed to be forward-looking information, as they involve the implied assessment, based on certain estimates and assumptions that the mineral resources described can be profitably produced in the future.

Forward looking statements are based on the opinions and estimates of management as of the date such statements are made, and they are subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of Denison to be materially different from those expressed or implied by such forward-looking statements. Denison faces certain risks, including the current and potential impacts of the COVID-19 pandemic, use of mining methods which are novel and untested in the Athabasca basin, the inability to permit or develop its projects as currently planned, the inability to secure sufficient financing to pursue its business objectives, the unpredictability of market prices, events that could materially increase costs, changes in the regulatory environment governing the project lands, and unanticipated claims against title and rights to the project. Denison believes that the expectations reflected in this forward-looking information are reasonable but there can be no assurance that such statements will prove to be accurate and may differ materially from those anticipated in this forward looking information. For a discussion in respect of risks and other factors that could influence forward-looking events, please refer to the "Risk Factors" in Denison's Annual Information Form dated March 25, 2022 available under its profile at www.sedar.com and its Form 40-F available at www.sec.gov/edgar.shtml. These factors are not, and should not be construed as being exhaustive.

Readers should not place undue reliance on forward-looking statements. The forward-looking information contained in this presentation is expressly qualified by this cautionary statement. Any forward-looking information and the assumptions made with respect thereto speaks only to the effective date of this presentation. Denison does not undertake any obligation to publicly update or revise any forward-looking information after such date to conform such information to actual results or to changes in its expectations except as otherwise required by applicable legislation.

Cautionary Note to United States Investors Concerning Estimates of Mineral Resources and Mineral Reserves: This presentation may use terms such as "measured", "indicated" and/or "inferred" mineral resources and "proven" or "probable" mineral reserves, which are terms defined with reference to the guidelines set out in the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") CIM Definition Standards on Mineral Resources and Mineral Reserves ("CIM Standards"). The Company's descriptions of its projects may not be comparable to similar information made public by U.S. companies subject to the reporting and disclosure requirements under the United States federal securities laws and the rules and regulations thereunder.

Qualified Persons

The disclosure of a scientific or technical nature within this presentation, including the disclosure of mineral resources, mineral reserves, as well as the results of the Wheeler PFS and Waterbury PEA, was reviewed and approved by David Bronkhorst, P.Eng. and Andy Yackulic, P.Geo, each of whom is a Qualified Person in accordance with the requirements of NI 43-101.

Technical Reports

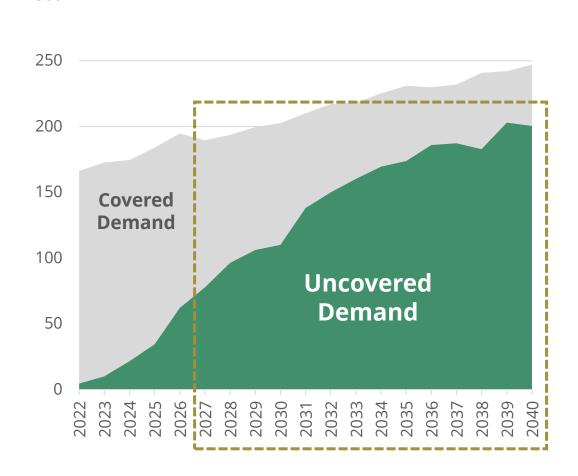
- For further details regarding the Wheeler River project, please refer to the Company's press release dated September 24, 2018 and the technical report titled "Prefeasibility Study for the Wheeler River Uranium Project, Saskatchewan, Canada" with an effective date of September 24, 2018 ("Wheeler PFS").
- For further details regarding the Waterbury Lake project, please refer to the Company's press release dated November 17, 2020 and the technical report *titled "Preliminary Economic Assessment for the The Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada"* with an effective date of October 30, 2020 ("Waterbury PEA"). The PEA is a preliminary analysis of the potential viability of the Project's mineral resources, and should not be considered the same as a Pre-Feasibility Study, as various factors are preliminary in nature. There is no certainty that the results from the PEA will be realized. Mineral resources are not mineral reserves and do not have demonstrated economic viability. Scheduled tonnes and grade do not represent an estimate of mineral reserves.

For a description of the data verification, assay procedures and the quality assurance program and quality control measures applied by Denison, please see Denison's Annual Information Form dated March 25, 2022. A copy of the foregoing is available on Denison's website and under its profile on SEDAR at www.sedar.com and on EDGAR at www.sec.gov/edgar.shtml.

The Uranium Investment Thesis: Fundamentals progressing towards a positive new uranium cycle

Annual Utility Uranium Requirements ⁽¹⁾ (million pounds U_3O_8 - per UxC Q1'22)

300



Key Market Themes:

- 1. Demand story is positive exceeding pre-Fukushima levels + realization of the critical role of nuclear as key to a **clean-energy transition**.
- 2. Recent curtailments + COVID-19 related supply disruptions created significant primary production deficit and accelerated the drawdown of surplus inventories.
- 3. Long-term contracts from previous cycle are ending with **significant uncovered utility requirements emerging / approaching.**
- 4. Recent + significant **increase in long-term contracting activity** reported amidst supply threats from geopolitical events – pointing to security of supply concerns.
- 5. Sustained period of low prices means project pipeline may be inadequate to deliver new production in time to replace aging mines.
- 6. Investor interest in uranium market has increased, with holdings of **physical uranium** gaining in popularity and testing the depth of discretionary supplies.

NOTES:

(1) Data in this slide has been derived from UxC's Uranium Market Outlook dated Q1'2022, including UxC's estimates of uncovered requirements and the URM "Base Demand No Inventory Build" requirements forecast to estimate covered demand.

Diversified Athabasca Basin asset base with superior development leverage

95%⁽¹⁾

effective interest in Flagship Wheeler River project

PFS stage development project⁽²⁾

Largest undeveloped uranium project in the infrastructure rich eastern Athabasca Basin

Environmental Assessment ("EA") and Feasibility Study initiated⁽³⁾

22.5% interest in Strategic McClean Lake

Uranium Mill

Strategic regional asset

+11% of global uranium production

Excess licensed annual capacity

Licenced for expansion of tailings management facility ("TMF")⁽⁴⁾

66.9% interest in Emerging

Waterbury Lake project

PEA stage development project⁽⁵⁾

Tthe Heldeth Túé ("THT") deposit (formerly J Zone) highlights potential for future development project pipeline

Participating interests in key developmentstage assets operated by uranium "majors"

Includes 22.5% in McClean Lake (Orano), 25.17% in Midwest (Orano), and an effective 15% in Millennium (Cameco) through 50% ownership of JCU⁽⁶⁾

~300,000 hectares of exploration ground

22.5% owned McClean Lake mill facility NOTES: (1) Denison increased its effective interest in Wheeler River as part of the acquisition of 50% of JCU (Canada) Exploration Company, Limited. See Denison's news release

PHOTO:

(2) Refer to the Wheeler River Technical Report titled "Pre-feasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada" dated September 24, 2018.

dated August. 3, 2021.

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Aerial view of Denison's

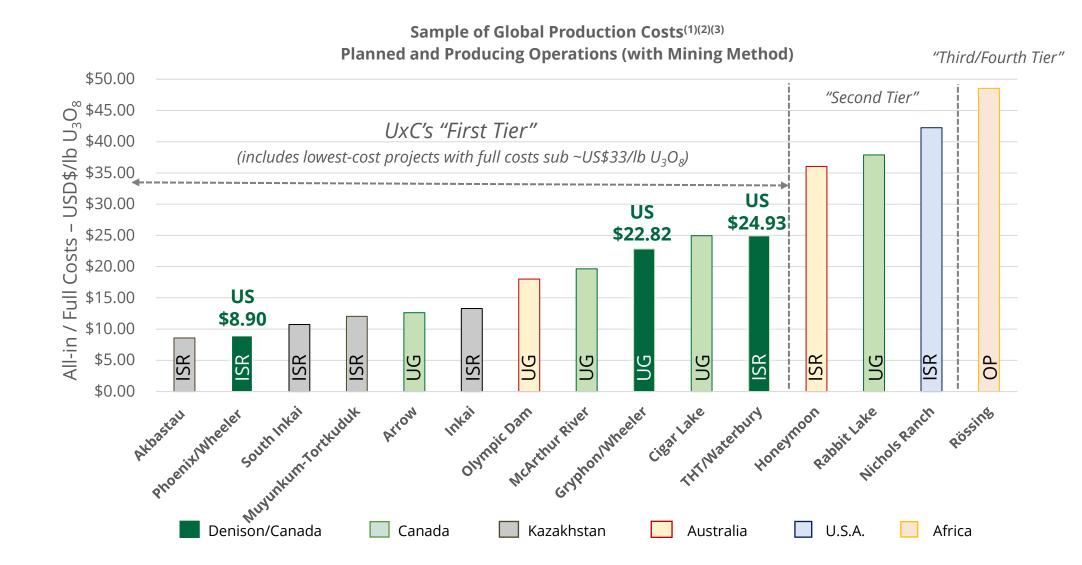
(3) See Denison's news release dated September 22, 2021.

(4) See Denison's news release dated January 19, 2022.

(5) Refer to the Waterbury Lake Technical Report titled "Preliminary Economic Assessment for the Tthe Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada" dated October 30, 2020.

(6) See Denison's news release dated August. 3, 2021.

Denison's development portfolio projects: Positioned amongst the lowest all-in cost assets of UxC's First Tier



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NOTES:

(1) Chart data, including all-in costs and UxC's categorization of production cost "tiers", have been derived from UxC's estimates of Worldwide Production Costs from the Uranium Production Cost Study dated August 2021.

(2) For Phoenix and Gryphon, refer to the Wheeler River Technical Report titled "Prefeasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada" dated September 24, 2018.

(3) for THT/Waterbury, refer to the Waterbury Lake Technical Report titled "Preliminary Economic Assessment for the Tthe Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada" dated October 30, 2020.



Robust Balance Sheet with +CAD\$250M in working capital and investments⁽¹⁾

2.5M lbs U₃O₈

in holdings of physical uranium (Mar. 31, 2022)

Market value **~CAD\$181M** (US\$57.90/lb U $_{3}O_{8}$)

Acquired at average cost of US\$29.66/lb U₃O₈

Long-term holding expected to enhance access to future project financing for flagship Wheeler River⁽²⁾

All material received and held in licenced North American storage facilities (Cameco + ConverDyn)

~CAD\$19M

investments in uranium equities (Mar. 31, 2022)

Significant equity holdings in uranium exploration and development companies, including GoviEx Uranium Inc. ("GoviEx") & Skyharbour Resources Ltd.

Sold 32.5M shares in GoviEx and option to purchase further 32.5M of Denison's shares in GoviEx (at exercise price of CAD\$0.80/share) in 2021 for **CAD\$15.6M**.⁽³⁾



PHOTO:

Packaged U₃O₈ yellowcake at Denison's 22.5% owned McClean Lake mill.

NOTES:

(1) As of March 31, 2022, for additional details see financial statements and MD&A for the period ended March 31, 2021.

(2) See Denison's news releases dated March 15, 2021, March 22, 2021, and April 1, 2021.

(3) See Denison's news releases dated October 21, 2021 and October 26, 2021.

+CAD\$65M in cash and cash equivalents at Mar. 31, 2021

Environmental, Social, Governance & Indigenous (ESG+I)

Fundamental considerations driving Denison's operations

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Www.denisonmines.com

Multiple Indigenous Agreements In Place

Participation/Funding + Exploration Agreements with:

- English River First Nation⁽²⁾
- Kineepik Métis Local / Pinehouse ("KML")⁽³⁾

Comprehensive ESG Reporting

2021 ESG Report completed in early 2022, designed to address TCFD, GRI and other global disclosure matrixes

Board approved Indigenous Peoples Policy

First-in-sector policy reflecting Denison's commitment to take action towards advancing reconciliation with Indigenous peoples in Canada⁽¹⁾

Strong EHS&S Culture & Results

Total Recordable Incident Rate (TRIR) of zero and no significant environmental events for 2021⁽⁶⁾

Top 200 in Canada

Leading Governance Practices & Disclosure

Denison recognized by Globe & Mail "Board Games" as top uranium development company for corporate governance practices & disclosure in its assessment of leading companies and trusts included in Canada's benchmark **S&P/TSX Composite Index**^(4, 5)

Authentic Social Programs

Denison's community / social investment program targets community-based initiatives

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PHOTO:

Highlights of the Elders of Sakitawak's market garden in Ile a la Crosse, a community-based initiative sponsored by Denison.

LINKS:

<u>Denison's 2021 ESG</u> <u>Report</u>

NOTES:

(1) See Denison's news release dated December 2, 2021.

(2) See Denison's news release dated April 6, 2021.

(3) See Denison's news release dated June 23, 2022.

(4) For more information: https://www.theglobeand mail.com/business/career s/management/boardgames/article-the-globeand-mails-comprehensiveranking-of-canadascorporate-boards/

(5) See Denison's news release dated March 15, 2021.

(6) See Denison's 2021 Annual Information Form for additional details.

Large land position in the infrastructure-rich eastern portion of the Athabasca Basin⁽¹⁾⁽²⁾



ATHABASCA

95% owned flagship Wheeler River development project⁽¹⁾⁽²⁾

Two High-grade uranium deposits

Phoenix – designed as a lowcost In-Situ Recovery ("ISR") operation with on-site processing to finished yellow cake (U₃O₈)

Gryphon – contributes additional low-cost production via conventional underground mining with assumed toll milling at 22.5% Denison owned McClean Lake mill

14-year

Mine Life

109.4M Ibs U₃O₈

combined Probable Reserves (100% basis)

CAD\$322.5M estimated

Initial CAPEX (100% basis)

NI 43-101

compliant Pre-Feasibility Study completed in 2018 considers staged development plan⁽¹⁾

Located within the boundaries of Treaty 10

in the traditional territory of English River First Nation, in the homeland of the Métis and within Nuhenéné **11,720** hectares of prospective ground over 19 claims



PHOTO:

<u>Wheeler River Project</u> <u>Video on Vimeo</u>

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Wheeler River Project Page on Denison Website

NOTES:

(1) Refer to the Wheeler River Technical Report titled "Pre-feasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada" dated September 24, 2018.

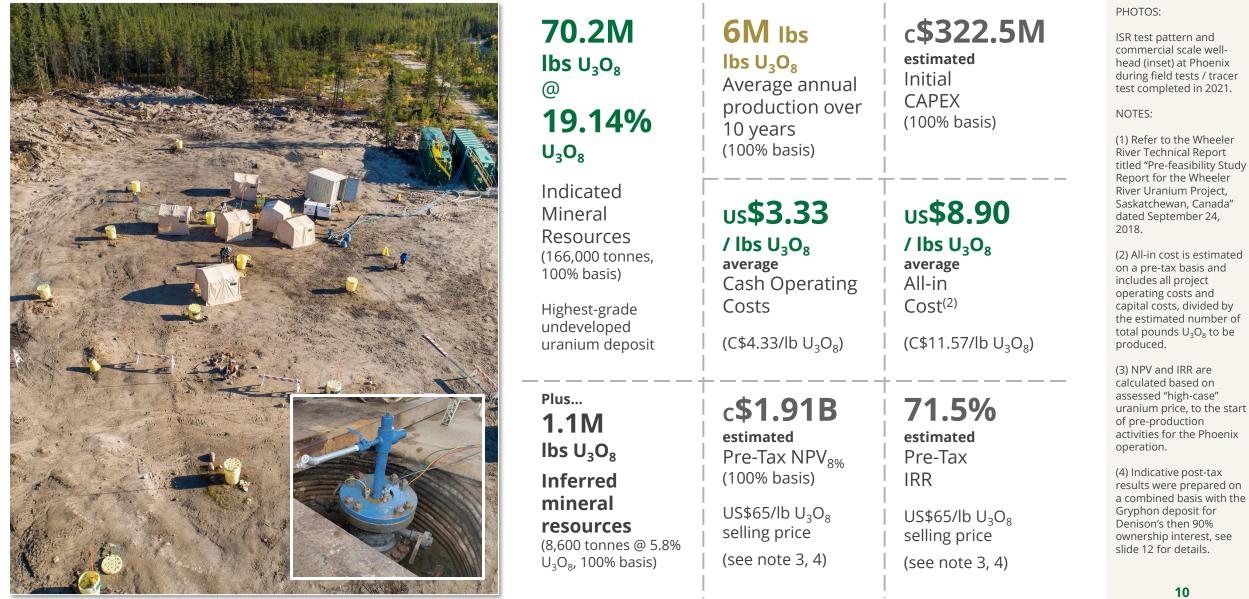
(2) Denison increased its effective interest in Wheeler River as part of the acquisition of 50% of JCU (Canada) Exploration Company, Limited. See Denison's news release dated August. 3, 2021.

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Phoenix In-Situ Recovery ("ISR") Operation:

PFS highlights potential to become one of the lowest cost uranium mines in the world⁽¹⁾



Gryphon Underground ("UG") Operation:

PFS shows potential to add further low-cost production by using existing infrastructure⁽¹⁾





PHOTO:

View inside the SX circuit at Denison's 22.5% owned McClean Lake mill, which is assumed to toll mill production from the Gryphon UG operation

NOTES:

(1) Refer to the Wheeler River Technical Report titled "Pre-feasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada" dated September 24, 2018.

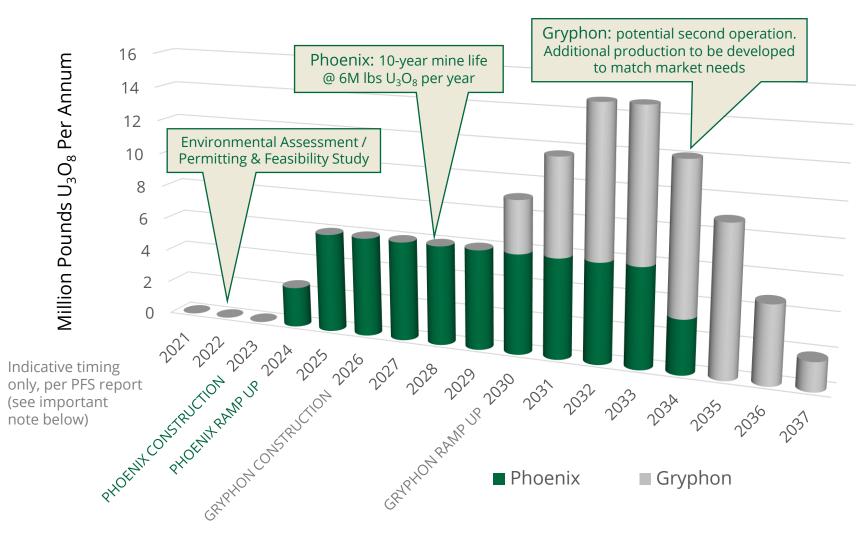
(2) All-in cost is estimated on a pre-tax basis and includes all project operating costs and capital costs, divided by the estimated number of total pounds U₃O₈ to be produced.

(3) NPV and IRR are calculated based on assessed "high-case" uranium price, to the start of pre-production activities for the Gryphon operation.

(4) Indicative post-tax results were prepared on a combined basis with the Phoenix deposit for Denison's then 90% ownership interest, see slide 12 for details.

Wheeler River PFS:

Staged development plan reduces risk and delivers production to match market needs⁽¹⁾



*****IMPORTANT***** The Wheeler River PFS estimated pre-production activities to begin in 2021, assuming receipt of required regulatory approvals, with first production from the Phoenix deposit expected in 2024. In response to the onset of the COVID-19 pandemic in Canada in 2020, Denison suspended certain activities at Wheeler River, including the Environmental Assessment programs on the critical path to achieving the project development schedule outlined in the PFS. <u>See Note 2</u>. **EA activities were resumed effective January 2021.** The temporary suspension of the EA process is expected to impact the project development schedule outlined in the PFS for Wheeler River. The Company is not yet able to estimate the impact to the project development schedule outlined in the PFS, and users are cautioned that the estimates provided therein regarding the start of pre-production activities in 2021 and first production in 2024 should not be relied upon.

NOTES:

(1) Refer to the Wheeler River Technical Report titled "Pre-feasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada" dated September 24, 2018.

(2) See Denison's news release from March 20, 2020, for details.



Wheeler River PFS:

Robust economics supported by conservative uranium price assumptions





(1) Refer to the Wheeler River Technical Report titled "Pre-feasibility Study Report for the Wheeler River Uranium Project, Saskatchewan, Canada" dated September 24, 2018.

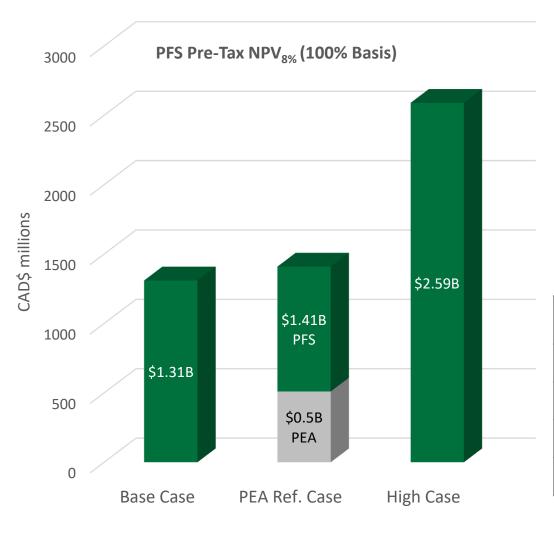
(2) NPV and IRR are calculated to the start of pre-production activities for the applicable operation.

(3) Payback period is stated as number of years to pay-back from the start of commercial production.

(4) Post-tax NPV attributable to Denison's then pro-forma 90% interest is estimated to be between \$756 million (base-case) and \$1.5 billion (\$65/lb high-case).

(5) Post-tax IRR attributable to Denison's then pro-forma 90% interest is estimated to be between 32.7% (basecase) and 55.7% (\$65/lb high-case).

(6) 2016 PEA produced pre-tax project NPV(8%) of \$513 million at fixed uranium selling price of US\$44/lb U₃O₈.



Phoenix

~US\$29/ Ib U_3O_8 increasing to US\$45/Ib U_3O_8 used in Base Case

+175% increase in pre-tax project NPV from 2016 PEA⁽⁶⁾ (using PEA selling price of US\$44/lb U₃O₈)

Gryphon

US\$50/ Ib U₃O₈

fixed price used

in Base Case

Assumptions / Results ⁽¹⁾	Base Case	PEA Ref.	High Case
Selling price / lb U ₃ O ₈	As above	US\$44	US\$65
Pre-tax NPV _{8%} ⁽²⁾⁽⁴⁾ (100%)	\$1.31 billion	\$1.41 billion	\$2.59 billion
Pre-tax IRR ⁽²⁾⁽⁵⁾	38.7%	47.4%	67.4%
Pre-tax payback period ⁽³⁾	~24 months	~15 months	~ 11 months

Phoenix ISR De-Risking:

Combining the world's lowest cost uranium mining method with the world's highest-grade undeveloped uranium deposit



35 small-diameter test, observation and recharge wells

2 large-diameter commercial scale wells

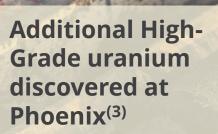
Pump and injection tests collecting critical hydrogeological data

Demonstrated "<u>Proof of</u> <u>Concept</u>" for use of ISR

Specialized Core Leach Testing⁽²⁾

Leach testing indicative of in-situ conditions using intact core samples from Phoenix

Results consistently produced uranium bearing solution headgrade levels significantly higher than grade used in the 2018 PFS



PER - SCINT

22.0% eU₃**O**₈ over 8.6 metres in GWR-045

Located outside of the existing high-grade resource domain for Zone A and Phase 1 of the current mining plan



2021 field test of commercial-scale ISR test pattern⁽⁴⁾

Achieved commercialscale flow-rate used in the 2018 PFS

Completed Athabasca Basin first "<u>tracer test</u>" showing hydraulic control, breakthrough times consistent with modelling, and ability to carry out "clean-up"

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PHOTOS (Left to Right):

Small diameter ISR test wells installed at Phoenix in 2019; Specialized coreleach testing apparatus from the Saskatchewan Research Council (SRC); high-grade uranium core and scintillometer; monitoring of commercial scale ISR test wells at Phoenix in 2021.

LINKS:

<u>2021 Phoenix ISR Test</u> <u>Program on Vimeo</u>

NOTES:

(1) See Denison's news releases dated December 18, 2019, February 24, 2020, and June 4, 2020.

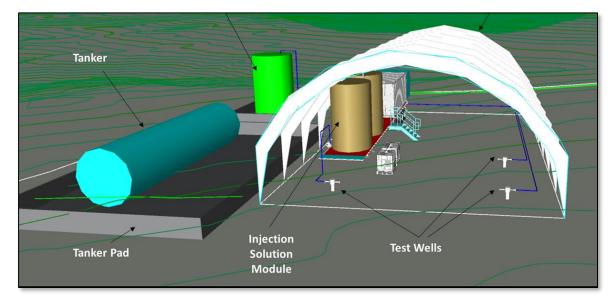
(2) See Denison's news releases dated February 19, 2020, and August 4, 2021.

(3) See Denison's news release dated July 29, 2021.

(4) See Denison's news release dated October 28, 2021.

Feasibility Field Test (FFT) Approved by Saskatchewan Minister of Environment

Preparation and construction of facilities fully authorized with ~2 month timeline^(1, 2, 3)



The Phoenix FFT is expected to validate and inform various feasibility study elements for use of **In-Situ Recovery (ISR)** mining, including production and remediation profiles, and is planned to occur in three phases commencing in **H2'2022**:

Leaching

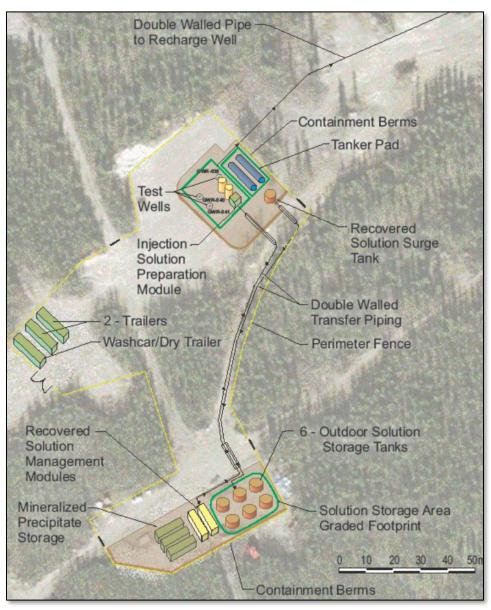
Controlled injection of acidic solution into a portion of the existing commercial-scale test pattern installed at Phoenix in 2021.

Neutralization

Injection of mild alkaline solution to reverse the leaching process and return test area to protective conditions.

Recovered Solution Management

Separation of recovered solution into mineralized precipitates (temporarily stored in tanks on surface) and neutralized treated solution (reinjected into sub-surface).



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PHOTO:

Isometric view of planned FFT facilities (left) and plan map of Phoenix FFT site (right).

NOTES:

(1) See Denison's news release dated July 12, 2022.

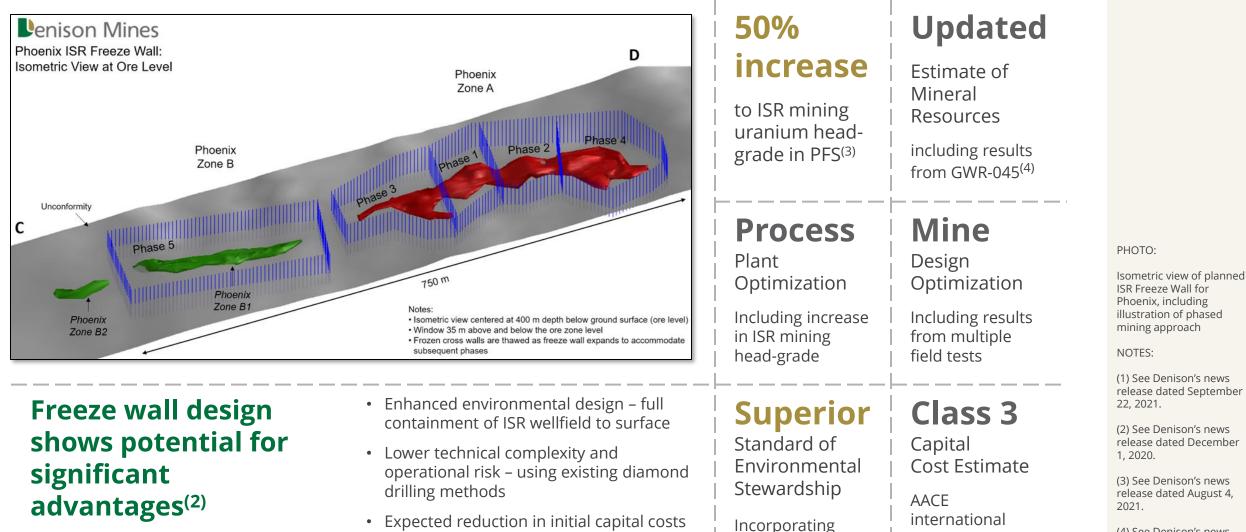
(2) A Nuclear Substance License from the Canadian Nuclear Safety Commission (CNSC) is also required for Denison to possess and store a nuclear substance (mineralized solution containing Uranium) resulting from the operation of the FFT. The process to obtain this license is well advanced. and the license is expected to be received before the site preparation and commissioning activities for the FFT facilities are completed.

(3) The majority of the test activities (leaching and neutralization phases) are expected to occur within an estimated 60-day operating time frame, with construction and placement of temporary facilities commencing approximately two months prior.

Phoenix ISR Feasibility Study:

Wood PLC selected to lead + author independent Feasibility Study in accordance with NI 43-101⁽¹⁾





Conventional freeze "wall" design selected to replace novel freeze dome / cap design in 2018 PFS

- Expected reduction in initial capital costs with introduction of phased mining approach
- Strengthened project sustainability

(4) See Denison's news

release dated July 29,

2021.

standard with an

accuracy of

-15%/+25%

technical work

from ongoing EA

and feedback

66.90% owned Waterbury Lake project demonstrates potential for ISR to transform portfolio projects⁽¹⁾

ISR Mining method

Tthe Heldeth Túé ("THT") deposit (formerly J Zone) designed as a low-cost In-Situ Recovery ("ISR") operation with freeze wall design

Uranium Bearing Solution ("UBS") to be transported by truck to 22.5% Denison's owned McClean Lake mill for toll processing

Minimal site infrastructure

Den

terr

6-year Mine Life

9.7M Ibs U₃O₈ projected Mine Production (100% basis)

12.8M lbs U_3O_8 @ 2.0% U_3O_8 (291,00 tonnes) in Indicated Mineral Resources estimated for THT (100% basis) CAD\$112M

estimated Initial CAPEX (100% basis)

NI 43-101 compliant Preliminary Economic Assessment ("PEA") Completed in 2020⁽²⁾

Partnership

with consortium led by stateowned nuclear company Korea Hydro Nuclear Power ("KHNP")

40,256

hectares of prospective ground over 13 claims



PHOTO:

Isometric schematic of ISR wellfield and freeze wall at depth of the THT deposit on Waterbury Lake property.

LINKS:

<u>Waterbury Lake Project</u> <u>Video on Vimeo</u>

Waterbury Project Page on Denison Website

(1) Refer to the Waterbury

NOTES:

McClean Lake (Orano / Denis

Lake Technical Report titled "Preliminary Economic Assessment for the Tthe Heldeth Túé (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada" and dated October 30, 2020.

(2) The PEA is a

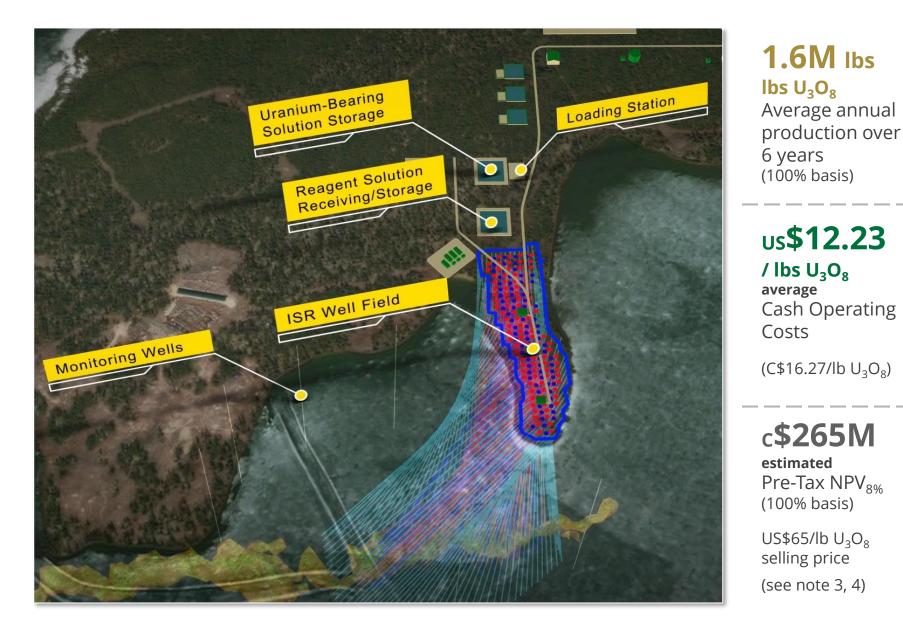
preliminary analysis of the potential viability of the Project's mineral resources, and should not be considered the same as a Pre-Feasibility or Feasibility Study, as various factors are preliminary in nature. There is no certainty that the results from the PEA will be realized. Mineral resources are not mineral reserves and do not have demonstrated economic viability.

Located within the boundaries of Treaty 10

in Nuhenéné / Athabasca Denesuliné traditional territory and the homeland of the Métis

Tthe Heldeth Túé ("THT") In-Situ Recovery ("ISR") Operation:

PEA shows potential for ISR to change future of uranium mining landscape in Canada⁽¹⁾



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PHOTOS:

Aerial rendering of surface facilities for the THT ISR operation

NOTES:

c**\$112M**

estimated

Initial

CAPEX

(100% basis)

us**\$24.93**

 $(C$33.16/lb U_{3}O_{8})$

50.0%

US $$65/lb U_3O_8$

(see note 3, 5)

selling price

estimated

Pre-Tax

IRR

/ lbs U₃O₈

average

All-in

Cost⁽²⁾

(1) Refer to the Waterbury Lake Technical Report titled "Preliminary Economic Assessment for the Tthe Heldeth Túć (J Zone) Deposit, Waterbury Lake Property, Northern Saskatchewan, Canada" dated October 30, 2020. See PEA note on Slide 15.

(2) All-in cost is estimated on a pre-tax basis and includes all project operating costs and capital costs divided by the estimated number of finished pounds U₃O₈ produced.

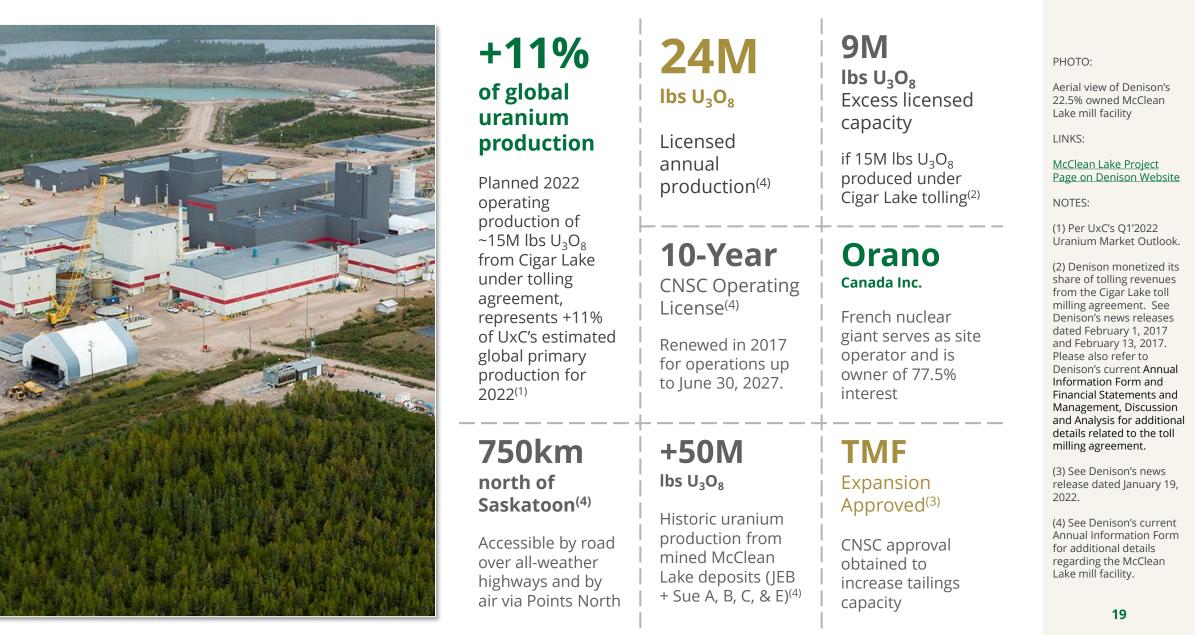
(3) NPV and IRR are calculated based on assessed "high-case" uranium price, to the start of pre-production activities.

(4) Post-tax NPV attributable to Denison's then 66.90% interest is estimated to be between \$72 million (base-case) and \$109 million (\$65/lb high-case).

(5) Post-tax IRR attributable to Denison's then 66.90% interest is estimated to be between 30.4% (base-case) and 38.9% (\$65/lb high-case).

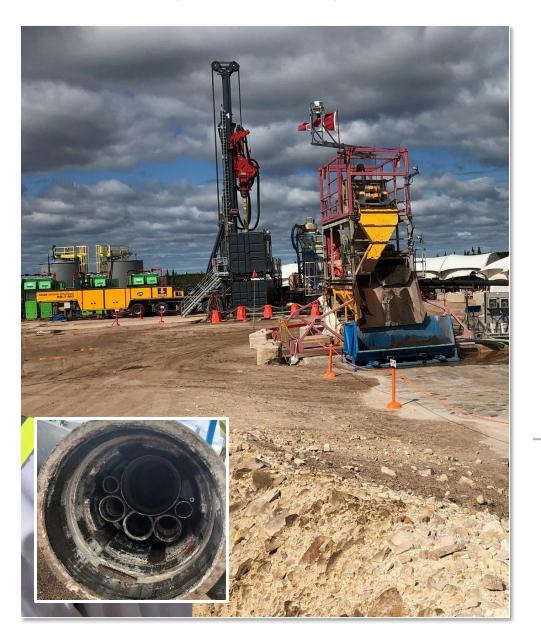
22.5% Denison-owned McClean Lake Mill Operation:

Excess licensed capacity and CNSC approval in place for expansion of tailings facility



22.5% Denison-owned McClean Lake Property:

SABRE mining method has potential to unlock value from unmined deposits close to mill



SABRE SABRE mining mining method is method property of McClean Lake IV with patent issued Successful 5-year in 2016 test mining program for "Surface Access **17.8M** Borehole Resource Extraction" (SABRE) lbs U₃O₈ mining method Indicated Mineral Resources⁽²⁾ Mined four cavities (100% basis) of McClean North deposit in 2021 to Combined 374,900 produce ~1,500 tonnes @ 2.22% U_3O_8 for the Caribou, Sue D tonnes of highand McClean North value ore ⁽¹⁾ deposits 4,258 Orano Canada Inc.

French nuclear giant serves as project operator and is owner of 77.5% interest

Patented

Hectares

4 mineral leases (1,147 hectares) plus 13 mineral claims (3,111 hectares)

To Evaluate

The use of the SABRE mining method for use on unmined McClean Lake deposits⁽¹⁾

7.6M lbs U₂O₂ Inferred Mineral Resources⁽²⁾ (100% basis) Combined 510.900 tonnes @ 0.68% U_3O_8 for the Sue D, Sue E, and McClean North deposits

8.67% U₃O₈ over 13.5 metres

Recently discovered in drill hole MCS-34 at the McClean South target area⁽³⁾

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PHOTO:

2021 SABRE test mining program in action, with view of specialized mining pipes in inset photo.

LINKS:

McClean Lake Project Page on Denison Website

NOTES:

(1) See Denison's news release dated November 3, 2021.

(2) See Denison's current Annual Information Form for additional details regarding the McClean Lake deposits and SABRE mining method.

(3) See Denison's current Annual Information Form

25.17% Denison-owned Midwest Property:

Two high-grade uranium deposits in close proximity to the McClean Lake mill



Reserves & Resources as of December 31, 2021

Mineral Reserves (see Notes 1, 2, 3, 4, 14, 15)	100% Basis			Denison Share ⁽⁹⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)
McClean - Ore Stockpile ⁽¹⁴⁾	90,000	0.37	726	163
Total Proven Mineral Reserves	90,000		726	163
Wheeler River - Phoenix	141,000	19.1	59,700	56,700
Wheeler River – Gryphon	1,257,000	1.8	49,700	47,200
Total Probable Reserves	1,398,000		109,400	103,900
Indicated Mineral Resources		100% Dasis		Denison

Indicated Mineral Resources (see Notes 1, 5, 15)	100% Basis			Denison Share ⁽⁹⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)
Wheeler River - Phoenix ⁽⁷⁾	166,000	19.1	70,200	66,700
Wheeler River - Gryphon ⁽⁷⁾	1,643,000	1.7	61,900	58,800
McClean - Caribou	47,800	2.6	2,800	600
McClean - Sue D	122,800	1.1	2,800	600
McClean - McClean North	204,300	2.8	12,200	2,700
Midwest - Midwest Main	453,000	4.0	39,900	10,100
Midwest - Midwest A	566,000	0.87	10,800	2,700
Waterbury – THT	291,000	2.0	12,800	8,600
Total Indicated Resources	3,493,900		213,400	150,800

Inferred Mineral Resources (see Notes 1, 6, 15)	100% Basis			Denison Share ⁽⁹⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)
Wheeler River - Phoenix ⁽⁷⁾	9,000	5.8	1,100	1,000
Wheeler River - Gryphon ⁽⁷⁾	73,000	1.2	1,900	1,800
McClean - Caribou	24,200	0.39	200	0
McClean - Sue D	483,400	0.69	7,300	1,600
McClean - McClean North	3,300	0.79	100	0
Midwest - Midwest Main	793,000	0.66	11,500	2,900
Midwest - Midwest A	53,000	5.8	6,700	1,700
Waterbury - Huskie	268,000	0.96	5,700	3,800
Total Inferred Resources	1,706,900		34,500	12,800

Historic Mineral Resources (see Notes 15, 16)	100% Basis			Denison Share ⁽⁹⁾
Project/Deposit	Tonnes	Grade % U ₃ O ₈	Lbs U ₃ O ₈ (,000)	Lbs U ₃ O ₈ (,000)
Millennium – Indicated ⁽¹¹⁾	1,442,600	2.39	75,900	11,400
Kiggavik - Indicated ⁽¹²⁾	10,418,000	0.47	127,300	21,500
Tot. Historic Indicated Resources	11,860,600		203,200	32,900
Millennium - Inferred ⁽¹¹⁾	412,400	3.19	29,000	4,400
Kiggavik – Inferred ⁽¹²⁾	731,000	0.28	5,400	900
Christie Lake - Inferred ⁽¹³⁾	588,000	1.57	20,400	3,500
Tot. Historic Inferred Resources	1,706,900		54,800	8,800

(7) Indicated mineral resources for Phoenix and Gryphon deposits are inclusive of probable mineral reserves; (8) The operator conducted confirmatory drilling on a portion of the Sue E mineral resources outside the designated pit and late in 2006 submitted a preliminary analysis detailing an inferred mineral resource of approximately 2 million pounds on a 100% basis in this area, as compared to the 7.3 million pounds that Scott Wilson Roscoe Postle Associates Inc. ("RPA") and then acquired by SLR Consulting Limited, "SLR", estimated in its February 2006 technical report. The mineral resource has not been re-estimated using the new drill information.; (9) As at December 31, 2021, pursuant to the terms of the agreements with its applicable joint venture partners and subsequent to its acquisition of JCU in August 2021, the Company had an effective 95.00% interest in the Wheeler River project, a 22.50% interest in the Midwest project; and a 66.90% interest in the Waterbury Lake property; (10) Denison's share has been calculated as 50% of the product of JCU's percentage interest in the applicable project multiplied by the estimated mineral resources on a 100% basis; (11) Millennium mineral resources as reported by Cameco as of December 31, 2021 on their website at https://www.cameco.com/businesses/uranium-projects/millennium/reserves-resources. Cut-off grades and other assumptions, parameters and methods used to estimate resources are unknown.; (12) Kiggavik mineral resources are unknown.; (13) Christie Lake mineral resources, and relevant assumptions, parameters and methods used for estimating, are documented in the "Technical Report to "64000" to "44000" to 444000" to 444000" to 444000" to 444000" to 444000" to 444000" to 244000" to 244000" to 244000" to 24400" to 2400" to 2400" to 2400" to 2400" to 2400" to



SOURCE:

Denison's Annual Information Form dated March 25, 2022.

NOTES:

(1) CIM definitions were followed for classification of mineral reserves and mineral resources. Mineral resources are not mineral reserves and do not have demonstrated economic viability.;

(2) Mineral reserves for the Phoenix deposit are reported at the mineral resource cut-off grade of 0.8% U308. The mineral reserves are based on the block model generated for the May 28, 2014 mineral resource estimate. A mining recovery factor of 85% has been applied to the mineral resource above the cut-off grade.;

(3) Mineral reserves for the Gryphon deposit are estimated at a cut-off grade of 0.58% U3O8 using a long-term uranium price of US\$40/lb, and a US\$/CAD\$ exchange rate of 0.80. The mineral reserves are based on the block model generated for the January 30, 2018 mineral resource estimate. The cut-off grade is based on an operating cost of \$574/tonne, milling recovery of 97%, and a 7.25% fee for Saskatchewan royalties (basic royalty plus resource surcharge).;

(4) Mineral reserves are stated at a processing plant feed reference point and include diluting material and mining losses.;

(5) See AIF for details of the various cut-off grades used for indicated mineral resources;

(6) See AIF for details of the cut-off grades used for the inferred mineral resources,

Notes continued below tables.

Capital Structure & Corporate Information



Market Summary ⁽¹⁾	
Exchanges	TSX: DML NYSE American: DNN
Shares Outstanding	817.8 M
Share Purchase Warrants (US\$2/US\$2.25)	15.8M / 39.2M
Share Units	8.4 M
Options	9.7 M
Fully Diluted Shares	890.9 M
Market Cap – DML @ C\$1.27/share ⁽²⁾	CAD \$1.0 B
Daily Trading Volume (TSX) ⁽³⁾	3.1M Shares
Market Cap – DNN @ US\$0.973/share ⁽²⁾	USD \$0.8 B
Daily Trading Volume (NYSE American) ⁽³⁾	9.4M Shares

Management & Directors

David Cates (President & CEO, Director) Mac McDonald (Exec. VP & CFO) David Bronkhorst (VP Operations) Kevin Himbeault (VP Plant Ops. & Reg. Affairs) Elizabeth Sidle (VP Finance) Amanda Willett (VP Legal)

Ron F. Hochstein (Non-Executive Chair) Brian D. Edgar (Director) Yun Chang Jeong (Director) David Neuburger (Director) Laurie Sterritt (Director) Jennifer Traub (Director) Patricia M. Volker (Director) Website:

www.denisonmines.om

Twitter: <u>@DenisonMinesCo</u>

Email: info@denisonmines.com

NOTES:

LINKS:

(1) Share capital information as of May 4, 2022 (Q1'2022 MDA) .

(2) Based on shares outstanding above and DML/DNN share prices as the end of June 2022.

(3) Average daily trading volume over previous 3 months as of the end of June 2022.