

W0. Introduction

W0.1

(W0.1) Give a general description of and introduction to your organization.

Northern Star Resources is a global Australian gold producer with projects located in Western Australia and Alaska, both highly prospective and low sovereign risk regions.

Since 2010 the Company has significantly grown production, earnings and cash flows, and Resources and Reserves through operational excellence and active investment in exploration.

W-MM0.1a

(W-MM0.1a) Which activities in the metals and mining sector does your organization engage in?

Activity	Details of activity
Mining	Gold
Processing	Gold

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date
Reporting year	July 1 2021	June 30 2022

W0.3

(W0.3) Select the countries/areas in which you operate.

Australia
United States of America

W0.4

(W0.4) Select the currency used for all financial information disclosed throughout your response.

AUD

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

Companies, entities or groups over which financial control is exercised

W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

No

W0.7

(W0.7) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization.	Provide your unique identifier
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W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Important	Neutral	Higher quality water is essential for conversion into potable water supplies on our remote sites, for ensuring we have Water, Sanitation and Hygiene (WASH) services in the workplace.
Sufficient amounts of recycled, brackish and/or produced water available for use	Vital	Vital	Northern Star's mineral processing plants require water for the extraction of the gold from the ore. Water is also important for maintaining dust suppression systems, forming well made safe roadways and bunds, and for ancillary services.

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities/operations	Please explain
Water withdrawals – total volumes	100%	Water withdrawals, recycled volumes and consumption is measured by all sites (by quality, source and location). This includes potable water through metered sources for applicable sites, abstraction through metered and licensed points, and water recycled from operations. This data is utilised in site water balance models, to identify efficiency opportunities and contributes to our annual sustainability report and performance data releases.
Water withdrawals – volumes by source	100%	Water withdrawals, recycled volumes and consumption is measured by all sites (by quality, source and location). This includes potable water through metered sources for applicable sites, abstraction through metered and licensed points, and water recycled from operations. This data is utilised in site water balance models, to identify efficiency opportunities and contributes to our annual sustainability report and performance data releases.
Entrained water associated with your metals & mining sector activities - total volumes [only metals and mining sector]	100%	Volume of entrained water in the raw material is primarily assessed for haulage (dust suppression) and processing demands - not specific to environmental withdrawals.
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	<Not Applicable>	<Not Applicable>
Water withdrawals quality	100%	Water withdrawals, recycled volumes and consumption is measured by all sites (by quality, source and location). This includes potable water through metered sources for applicable sites, abstraction through metered and licensed points, and water recycled from operations. This data is utilised in site water balance models, to identify efficiency opportunities and contributes to our annual sustainability report and performance data releases.
Water discharges – total volumes	26-50	All operational sites that are licensed to undertake discharges of water undertake monitoring in accordance with licence conditions, which includes but is not limited to volumes and quality parameters.
Water discharges – volumes by destination	26-50	All operational sites that are licensed to undertake discharges of water undertake monitoring in accordance with licence conditions, which includes but is not limited to volumes and quality parameters.
Water discharges – volumes by treatment method	26-50	All operational sites that are licensed to undertake discharges of water undertake monitoring in accordance with licence conditions, which includes but is not limited to volumes and quality parameters.
Water discharge quality – by standard effluent parameters	26-50	All operational sites that are licensed to undertake discharges of water undertake monitoring in accordance with licence conditions, which includes but is not limited to volumes and quality parameters.
Water discharge quality – temperature	26-50	All operational sites that are licensed to undertake discharges of water undertake monitoring in accordance with licence conditions, which includes but is not limited to volumes and quality parameters.
Water consumption – total volume	100%	Water withdrawals, recycled volumes and consumption is measured by all sites (by quality, source and location). This includes potable water through metered sources for applicable sites, abstraction through metered and licensed points, and water recycled from operations. This data is utilised in site water balance models, to identify efficiency opportunities and contributes to our annual sustainability report and performance data releases.
Water recycled/reused	100%	Water withdrawals, recycled volumes and consumption is measured by all sites (by quality, source and location). This includes potable water through metered sources for applicable sites, abstraction through metered and licensed points, and water recycled from operations. This data is utilised in site water balance models, to identify efficiency opportunities and contributes to our annual sustainability report and performance data releases.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Water quality of potable water is tested routinely for drinking water supplied to camps/drinking sources on sites - this includes transported, abstracted or supplied water, and treated offsite or onsite.

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, and how do these volumes compare to the previous reporting year?

	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Total withdrawals	46574	About the same	Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. Therefore total withdrawals for previous years is now restated as: FY 2021 45,748 ML FY 2020 38,979 ML FY 2019 34,528 ML For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Total discharges	27535	About the same	Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. Therefore total discharges for previous years is now restated as: FY 2021 27,991 ML FY 2020 24,347 ML FY 2019 20,154 ML For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Total consumption	19039	Higher	Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. Therefore total consumption for previous years is now restated as: FY 2021 17,757 ML FY 2020 14,632 ML FY 2019 14,754 ML For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx

W1.2d

(W1.2d) Indicate whether water is withdrawn from areas with water stress and provide the proportion.

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Identification tool	Please explain
Row 1	Yes	26-50	About the same	WRI Aqueduct	Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. Therefore comparison of water volume withdrawn from high baseline water stress risk areas versus low baseline water stress is now restated as: FY2022 High = 18,506 ML Low = 28,068 ML FY 2021 High = 19,104 ML Low = 26,644 ML FY 2020 High = 13,774 ML Low = 25,205 ML FY 2019 High = 14,416 ML Low = 20,112 ML For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx

W1.2h

(W1.2h) Provide total water withdrawal data by source.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Relevant	27142	About the same	Incident rainfall volumes (from tailings storage facilities, mining and processing area capture and collection sumps) are incorporated separately into recycled water figures. NB: Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Brackish surface water/Seawater	Relevant	322	About the same	NB: Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Groundwater – renewable	Relevant	17238	About the same	NB: Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Groundwater – non-renewable	Not relevant	<Not Applicable>	<Not Applicable>	
Produced/Entrained water	Not relevant	<Not Applicable>	<Not Applicable>	
Third party sources	Relevant	1872	About the same	NB: Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx

W1.2i

(W1.2i) Provide total water discharge data by destination.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Please explain
Fresh surface water	Relevant	27254	About the same	NB: Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Brackish surface water/seawater	Relevant	281	About the same	NB: Inclusion of historical legacy data from Saracen assets prior to the merger has resulted in a restatement of data prior to 12 February 2021. For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Groundwater	Not relevant	<Not Applicable>	<Not Applicable>	
Third-party destinations	Not relevant	<Not Applicable>	<Not Applicable>	

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

	Relevance of treatment level to discharge	Volume (megaliters/year)	Comparison of treated volume with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain
Tertiary treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Secondary treatment	Relevant	27535	About the same	1-10	
Primary treatment only	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Discharge to the natural environment without treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Discharge to a third party without treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Other	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	

W1.3

(W1.3) Provide a figure for your organization's total water withdrawal efficiency.

	Revenue	Total water withdrawal volume (megaliters)	Total water withdrawal efficiency	Anticipated forward trend
Row 1	3735400	46574	80203.5470 434148	Total water withdrawals have slightly increased in FY22 from FY21 due to increased production. Water intensity (calculated by Northern Star as ML/oz gold sold) has remained steady, however, across the business. Nevertheless, we consistently look for strategies to improve efficiencies and reduce water consumption across our operations, in consultation with our stakeholders and other shared water users.

W-MM1.3

(W-MM1.3) Do you calculate water intensity information for your metals and mining activities?

Yes

W-MM1.3a

(W-MM1.3a) For your top 5 products by revenue, provide the following intensity information associated with your metals and mining activities.

Product	Numerator: Water aspect	Denominator	Comparison with previous reporting year	Please explain
Gold	Freshwater consumption	Ounce of final product	About the same	Total Freshwater Consumption per ounce of gold sold: FY2022 0.0012 ML/oz gold sold FY2021 0.0010 ML/oz gold sold FY2020 0.0007 ML/oz gold sold FY2019 0.0005 ML/oz gold sold For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrtd.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Gold	Total water consumption	Ounce of final product	About the same	Total Water Withdrawal per ounce of gold sold: FY2022 0.012 ML/oz gold sold FY2021 0.011 ML/oz gold sold FY2020 0.010 ML/oz gold sold FY2019 0.013 ML/oz gold sold For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrtd.com/getattachment/sustainability/fy22-performance-data-tables.xlsx
Gold	Total water withdrawals	Ounce of final product	About the same	Total Water Withdrawal per ounce of gold sold: FY2022 0.030 ML/oz gold sold FY2021 0.029 ML/oz gold sold FY2020 0.027 ML/oz gold sold FY2019 0.030 ML/oz gold sold For more information or detailed data please refer to our FY22 Performance Data tables located at: https://www.nsrtd.com/getattachment/sustainability/fy22-performance-data-tables.xlsx

W1.4

(W1.4) Do you engage with your value chain on water-related issues?

No, we do not engage on water with our value chain

W1.4d

(W1.4d) Why do you not engage with any stages of your value chain on water-related issues and what are your plans?

	Primary reason	Please explain
Row 1	We are planning to do so within the next two years	As described in our FY22 Sustainability Report, an increased focus on ESG in our supply chain forms part of our future plans, including a focus on responsible sourcing and improving ESG supplier screening. Initiatives around engagement on water-related issues in our value chain fits within this broader remit.

W2. Business impacts

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

No

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

No

W3. Procedures

W-MM3.2

(W-MM3.2) By river basin, what number of active and inactive tailings dams are within your control?

Country/Area & River basin

Australia	Other, please specify (Western Plateau Division - Salt Lake)
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Number of tailings dams in operation

11

Number of inactive tailings dams

30

Comment

Yandal Production Centre, including Jundee, Bronzewing and Thunderbox. Kalgoorlie Production Centre, including Carosue Dam, Kanowna Belle, KCGM and South Kalgoorlie. Note: Kundana and East Kundana assets were divested in August 2021.

Country/Area & River basin

Australia	Other, please specify (Western Plateau Division - Mackay)
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Number of tailings dams in operation

0

Number of inactive tailings dams

16

Comment

Central and Western Tanami operations. Note that the Western Tanami assets were divested in June 2022 and are no longer part of the Northern Star portfolio.

Country/Area & River basin

Australia	Ashburton River
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Number of tailings dams in operation

1

Number of inactive tailings dams

0

Comment

Paulsens Gold Mine. Note that the Paulsens asset was divested in June 2022 and is no longer part of the Northern Star portfolio.

Country/Area & River basin

United States of America	Yukon River
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Number of tailings dams in operation

1

Number of inactive tailings dams

0

Comment

Pogo Production Centre.

W-MM3.2a

(W-MM3.2a) Do you evaluate and classify the tailings dams under your control according to the consequences of their failure to human health and ecosystems?

Row 1

Evaluation of the consequences of tailings dam failure

Yes, we evaluate the consequences of tailings dam failure

Evaluation/Classification guideline(s)

Australian National Committee on Large Dams (ANCOLD)

Canadian Dam Association (CDA)

Other, please specify (APEGBC 2016, ICMM 2016, ICOLD 2011, DMIRS 1998/2013/2015, Alaska Dam Safety Program, Internal Standards.)

Tailings dams have been classified as 'hazardous' or 'highly hazardous'

None of our tailings dams have been classified as 'hazardous' or 'highly hazardous' (or equivalent)

Please explain

W-MM3.2c

(W-MM3.2c) To manage the potential impacts to human health or water ecosystems associated with the tailings dams in your control, what procedures are in place for all of your dams?

Procedure	Detail of the procedure	Please explain
Other management procedure	Other, please specify (NSR-TS-006-STA Tailings Management Standard)	• Northern Star Tailings Management Standard (NSR-TS-006-STA)
Operating plan	An operating plan that includes the operating constraints of the dam and its construction method An operating plan that considers the consequences of breaching the operating constraints of the dam An operating plan that includes periodic review of the foundations and slope materials An operating plan that evaluates the effectiveness of the risk management measures and whether performance objectives are being met	• Facility engineering design plans • Operations Manual including monitoring requirements • Inspection and audit requirements and annual reports • Dam break failure analysis • Emergency Response procedures • Routine operational inspection processes and documents
Life of facility plan	A life of facility plan that identifies minimum specifications and performance objectives for the operating and closure phases A life of facility plan that considers post-closure land and water use A life of facility plan that details the financial and human resources needed	• Life of Mine TSF Strategy • Closure Plans for each site and operational facility • Closure and rehabilitation provisions
Assurance program	An assurance program for each phase of the facilities' life that includes the frequency of the various levels of inspections, audits and reviews An assurance program for each phase of the facilities' life that includes the scope of the various levels of inspections, audits and reviews An assurance program that details the competence requirements for the persons undertaking the inspections, audits and reviews An assurance program that includes an external audit covering the life of facility or the operating plans	• Independent inspection and audit requirements and annual reports • TSF disclosures on company website and in annual Sustainability Report • Nominated Engineer of Record

W3.3

(W3.3) Does your organization undertake a water-related risk assessment?

Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Value chain stage

Direct operations

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of an established enterprise risk management framework

Frequency of assessment

More than once a year

How far into the future are risks considered?

3 to 6 years

Type of tools and methods used

Enterprise risk management

Tools and methods used

Other, please specify (Internal risk methodology aligned to risk management standards.)

Contextual issues considered

Water availability at a basin/catchment level

Water quality at a basin/catchment level

Stakeholder conflicts concerning water resources at a basin/catchment level

Implications of water on your key commodities/raw materials

Water regulatory frameworks

Status of ecosystems and habitats

Access to fully-functioning, safely managed WASH services for all employees

Other, please specify (Climate change related water impacts.)

Stakeholders considered

Employees

Local communities

NGOs

Regulators

Suppliers

Water utilities at a local level

Other water users at the basin/catchment level

Other, please specify (Pastoralists and neighbouring companies and water users within the immediate drawdown area of water abstraction assets are also considered (not just at greater basin scale).)

Comment

Customers are not located generally in the same catchments. Customers may be considered if water is not able to be sourced at an asset or it has a major cost implication on the operation. Investors are not located generally in the same catchments. Investors may be considered if water is not able to be sourced at an asset or it has a major cost implication on the operation. Regulators are considered from an ability to obtain and/or maintain abstraction approvals

W3.3b

(W3.3b) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.

Through our Water Management Global Standard and our Risk Management Policy, we have continued our phased alignment with the recommendations of the Taskforce on Climate-Related Financial Disclosure (TCFD).

Northern Star has in place a corporate climate change related risk register and an ESG risk register. Climate change related risks, including water risks, are also captured in relevant site operational risk registers - this ensures that appropriate mitigating practices are implemented to ensure the sustainability of the business.

Key achievements include:

- Comprehensive disclosure of climate change related risk management roles and responsibilities
- Risk and opportunity identification and disclosure, including disclosures on risk management processes, risk mitigation actions and disclosure of highest identified residual risks
- Completion of qualitative scenario analyses, and establishing a quantitative scenario analysis project
- Ongoing projects established around identifying risk mitigation strengthening and opportunities

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes, only within our direct operations

W4.1a

(W4.1a) How does your organization define substantive financial or strategic impact on your business?

Northern Star has in place a Risk Management Standard (NSR-COR-019A-STA) which incorporates a risk register review process conducted quarterly at Corporate and Site levels. The Risk Matrix which forms part of the Risk Management Standard identifies differing levels of severity in relation to financial or strategic impacts on the business.

W4.1b

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
Row 1	8	100	Northern Star's climate-related risk analysis indicate that long term climate change could impact on all operations, with variable levels of financial or strategic risk. High inherent climate change risks identified included: • Decreased average total annual rainfall causes drier surface conditions and underground aquifers to be replenished slowly; and • in Western Australia, rainfall is becoming more concentrated and cyclones more severe; • in Alaska, total rainfall is increasing and permafrost melting off-site, both pointing to an increase in the frequency and severity of floods.

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
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Number of facilities exposed to water risk

7

% company-wide facilities this represents

76-99

Production value for the metals & mining activities associated with these facilities

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% company's total global revenue that could be affected

Please select

Comment

For sites reliant on groundwater abstraction - Long term climate change could impact on the availability and quality of groundwater resources in these regions. Changes in rainfall intensity due to long term climate change could increase the risk of short term production impacts from localised flood events.

Country/Area & River basin

United States of America	Yukon River
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Number of facilities exposed to water risk

1

% company-wide facilities this represents

1-25

Production value for the metals & mining activities associated with these facilities

% company's annual electricity generation that could be affected by these facilities

<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities

<Not Applicable>

% company's total global revenue that could be affected

Please select

Comment

Changes in rainfall intensity and temperature due to long term climate change could increase the risk of short term production impacts from localised flood events.

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
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Type of risk & Primary risk driver

Acute physical	Drought
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Primary potential impact

Reduction or disruption in production capacity

Company-specific description

Groundwater Scarcity (Australia) - Decreased average total annual rainfall causes drier surface conditions and underground aquifers to be replenished slowly.

Timeframe

More than 6 years

Magnitude of potential impact

High

Likelihood

More likely than not

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Detailed quantification modelling of potential financial impacts and opportunities for Northern Star in relation to climate-change related risks and opportunities form part of a project that we are currently working through with internal and external specialist resources.

Primary response to risk

Adopt water efficiency, water reuse, recycling and conservation practices

Description of response

Key Controls include, but are not limited to: • Third party reviews of usage and aquifer health • Recycled water use with underground and processing. • Decant water from tailings facilities for reuse in all our operating process plants. • Thickener installations at key processing plants as applicable

Cost of response

Explanation of cost of response

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
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Type of risk & Primary risk driver

Acute physical	Flood (coastal, fluvial, pluvial, groundwater)
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Primary potential impact

Reduction or disruption in production capacity

Company-specific description

Flooding (Australia and Alaska) - In Western Australia, rainfall is becoming more concentrated and cyclones more severe; in Alaska, total rainfall is increasing and permafrost melting off-site, both pointing to an increase in the frequency and severity

Timeframe

More than 6 years

Magnitude of potential impact

High

Likelihood

More likely than not

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Detailed quantification modelling of potential financial impacts and opportunities for Northern Star in relation to climate-change related risks and opportunities form part of a project that we are currently working through with internal and external specialist resources.

Primary response to risk

Develop flood emergency plans

Description of response

Key Controls include but are not limited to: • Surface water management infrastructure installed at all sites (e.g. diversion ditches, bunds). • Water level monitoring at surface water structures. • Severe Weather and Cyclone Management Plans in place. • Scenario analysis completed as per TCFD recommendations

Cost of response

Explanation of cost of response

Country/Area & River basin

United States of America	Yukon River
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Type of risk & Primary risk driver

Acute physical	Flood (coastal, fluvial, pluvial, groundwater)
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Primary potential impact

Reduction or disruption in production capacity

Company-specific description

Flooding (Australia and Alaska) - In Western Australia, rainfall is becoming more concentrated and cyclones more severe; in Alaska, total rainfall is increasing and permafrost melting off-site, both pointing to an increase in the frequency and severity

Timeframe

More than 6 years

Magnitude of potential impact

High

Likelihood

More likely than not

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure - minimum (currency)

<Not Applicable>

Potential financial impact figure - maximum (currency)

<Not Applicable>

Explanation of financial impact

Detailed quantification modelling of potential financial impacts and opportunities for Northern Star in relation to climate-change related risks and opportunities form part of a project that we are currently working through with internal and external specialist resources.

Primary response to risk

Develop flood emergency plans

Description of response

Key Controls include but are not limited to: • Surface water management infrastructure installed at all sites (e.g. diversion ditches, bunds). • Water level monitoring at surface water structures. • Severe Weather and Cyclone Management Plans in place. • Scenario analysis completed as per TCFD recommendations

Cost of response

Explanation of cost of response

W4.2c

(W4.2c) Why does your organization not consider itself exposed to water risks in its value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact?

	Primary reason	Please explain
Row 1	Risks exist, but no substantive impact anticipated	

W4.3

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes, we have identified opportunities, and some/all are being realized

W4.3a

(W4.3a) Provide details of opportunities currently being realized that could have a substantive financial or strategic impact on your business.

Type of opportunity

Efficiency

Primary water-related opportunity

Cost savings

Company-specific description & strategy to realize opportunity

Northern Star's FY22 long term incentive performance rights KPIs require Northern Star to reduce its baseline usage of potable scheme water sources (KCGM) by 10% by 30 June 2025. This performance target is aligned with Northern Star's commitment to demonstrating good environmental management and social responsibility through identifying and implementing water use efficiencies in its operations. Our KCGM operation uses water balance models and systems to identify water efficiency and management opportunities, and is well underway to achieving its long term target, having reported an 10.73% reduction in potable water use in FY21, down from 1,829,990 kl in FY20 to 1,633,704 kl in FY21. Further work has been undertaken on site with an anticipated total reduction in potable use across the site by a forecast daily average of around 900KL per day. A broad range of actions taken and initiatives implemented by KCGM, including: • replacing potable water with saline water used in diamond drill rigs at Mt Charlotte Underground and the installation of automatic vaporiser change-over equipment for de-icing liquid oxygen plant vaporisers; • locking potable water standpipes in the processing plants to ensure that saline water is used for certain dust suppression and washdown activities; • doing water leak detection audits in the processing plants prior to maintenance shutdowns so that repairs can be scheduled during the shutdowns; • regular flow meter and data logger monitoring of water use patterns to identify and respond to unusual or excessive water use; • installing minimum 3 Star WELS rated water efficient fixtures and fittings in change rooms and bathrooms; • converting assets within the processing plant over to utilising processing water instead of potable water; and • encouraging waterwise behaviour through displaying water saving posters and stickers in these facilities.

Estimated timeframe for realization

1 to 3 years

Magnitude of potential financial impact

Medium-high

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

400000

Potential financial impact figure – maximum (currency)

60000000

Explanation of financial impact

Positive financial impact immediately, and into the future for the business by the reduction in purchasing of potable scheme water. Based on the current budget price of potable water, we anticipate on saving \$400K per annum or up to AUD\$60M over the life of the contract with the improved water changes made to date.

Type of opportunity

Efficiency

Primary water-related opportunity

Improved water efficiency in operations

Company-specific description & strategy to realize opportunity

Key water uses across our operations are processing and beneficiation purposes, as well as dust suppression. The expanded Thunderbox mill, currently undergoing commissioning, includes an additional 18 metre diameter tailings thickener. The additional thickener will greatly increase water efficiency within the mill, allowing for up to 80% of water within the tailings slurry to be recovered and recycled in the mill. Additional thickening capacity greatly increases water efficiencies. The potential for additional thickening capacity will be considered for all prospective mill expansions across the business.

Estimated timeframe for realization

1 to 3 years

Magnitude of potential financial impact

Please select

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

<Not Applicable>

Potential financial impact figure – minimum (currency)

<Not Applicable>

Potential financial impact figure – maximum (currency)

<Not Applicable>

Explanation of financial impact

W5. Facility-level water accounting

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Facility reference number

Facility 1

Facility name (optional)

Carosue Dam Operations (includes Carosue Dam, Porphy and Deep South)

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
-----------	--

Latitude

-30.153752

Longitude

122.350349

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

3192

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

3192

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

0

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

3192

Comparison of total consumption with previous reporting year

About the same

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 2

Facility name (optional)

Kalgoorlie Operations (includes Kanowna Belle, Kundana (divested in August 2021), Millenium and South Kalgoorlie operations).

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
-----------	--

Latitude

-30.603864

Longitude

121.578231

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

2885

Comparison of total withdrawals with previous reporting year

Lower

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

2499

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

386

Total water discharges at this facility (megaliters/year)

281

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

281

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

2613

Comparison of total consumption with previous reporting year

Lower

Please explain

Kundana and East Kundana assets were divested in August 2021. For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 3

Facility name (optional)

KCGM Operations

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
-----------	--

Latitude

-30.777598

Longitude

121.50389

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

5795

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

322

Withdrawals from groundwater - renewable

3988

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

1486

Total water discharges at this facility (megaliters/year)

0

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

5795

Comparison of total consumption with previous reporting year

About the same

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsr ltd.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 4

Facility name (optional)

Jundee Operations

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
-----------	--

Latitude

-26.358869

Longitude

120.620634

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

1998

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

1998

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

0

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

1998

Comparison of total consumption with previous reporting year

About the same

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables:
<https://www.nsr ltd.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 5

Facility name (optional)

Bronzewing

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
-----------	--

Latitude

-27.383406

Longitude

121.005978

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

85

Comparison of total withdrawals with previous reporting year

Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

85

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

0

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

85

Comparison of total consumption with previous reporting year

Higher

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 6

Facility name (optional)

Thunderbox Operations

Country/Area & River basin

Australia	Other, please specify (Western Plateau - Salt Lakes)
-----------	--

Latitude

-28.192009

Longitude

121.008142

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

4466

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

4466

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

0

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

4466

Comparison of total consumption with previous reporting year

About the same

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsrtd.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 7

Facility name (optional)

Pogo

Country/Area & River basin

United States of America	Yukon River
--------------------------	-------------

Latitude

64.453265

Longitude

-144.902773

Located in area with water stress

No

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

28068

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

27133

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

936

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

27254

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

27254

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

814

Comparison of total consumption with previous reporting year

About the same

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

Facility reference number

Facility 8

Facility name (optional)

Paulsens (Note this asset was divested in June 2022)

Country/Area & River basin

Australia	Ashburton River
-----------	-----------------

Latitude

-22.580241

Longitude

116.242875

Located in area with water stress

Yes

Primary power generation source for your electricity generation at this facility

<Not Applicable>

Oil & gas sector business division

<Not Applicable>

Total water withdrawals at this facility (megaliters/year)

10

Comparison of total withdrawals with previous reporting year

About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

Withdrawals from brackish surface water/seawater

0

Withdrawals from groundwater - renewable

10

Withdrawals from groundwater - non-renewable

0

Withdrawals from produced/entrained water

0

Withdrawals from third party sources

0

Total water discharges at this facility (megaliters/year)

0

Comparison of total discharges with previous reporting year

About the same

Discharges to fresh surface water

0

Discharges to brackish surface water/seawater

0

Discharges to groundwater

0

Discharges to third party destinations

0

Total water consumption at this facility (megaliters/year)

10

Comparison of total consumption with previous reporting year

About the same

Please explain

For more detailed breakdowns of all water withdrawals/discharges/consumption by location, source or quality please refer to our FY22 Performance Data Tables: <https://www.nsrld.com/getattachment/sustainability/fy22-performance-data-tables.xlsx>

W5.1a

(W5.1a) For the facilities referenced in W5.1, what proportion of water accounting data has been third party verified?

Water withdrawals – total volumes

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water withdrawals – volume by source

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water withdrawals – quality by standard water quality parameters

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – total volumes

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – volume by destination

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – volume by final treatment level

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – quality by standard water quality parameters

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water consumption – total volume

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

W6. Governance

W6.1

(W6.1) Does your organization have a water policy?

Yes, we have a documented water policy that is publicly available

W6.1a

(W6.1a) Select the options that best describe the scope and content of your water policy.

	Scope	Content	Please explain
Row 1	Company-wide	<ul style="list-style-type: none"> Commitments beyond regulatory compliance Commitment to stakeholder awareness and education Commitment to water stewardship and/or collective action Recognition of environmental linkages, for example, due to climate change 	Our Climate Change Policy states our commitment to: (a) adapting to potential physical impacts of climate change by enhancing the resilience of our operations e.g. water security and consumption; and (b) engaging where appropriate with government to reduce global emissions, improve ecosystem resilience and water conservation.

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization?

Yes

W6.2a

(W6.2a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for water-related issues.

Position of individual	Please explain
Board-level committee	The key responsibilities of the Environmental, Social & Safety (ESS) Committee (Committee) are to assist the Board in implementing ESS strategies and ensuring responsible and sustainable business practices, and oversight of workplace health & safety, environmental management including climate change, community & social responsibility, business ethics and long term ESS strategic goals. The Committee comprises at least three Directors of which two must be independent non-executive Directors. The Chair of the Committee must be an independent non-executive Director with sufficient related experience, appointed by the Board from the Committee's members and will not be the Chair of the Board. At 30 June 2022, the Committee comprised three Directors, all independent non-executive Directors – Mary Hackett (Chair), Sally Langer and Sharon Warburton.
Board Chair	Independent Chair

W6.2b

(W6.2b) Provide further details on the board's oversight of water-related issues.

	Frequency that water-related issues are a scheduled agenda item	Governance mechanisms into which water-related issues are integrated	Please explain
Row 1	Scheduled - some meetings	<ul style="list-style-type: none"> Monitoring implementation and performance Reviewing and guiding risk management policies 	The ESS Committee is responsible for reviewing the climate change risk register twice yearly, reviewing the ESS risk register annually and reviewing the ESS strategy annually. The Remuneration Committee reviews and makes recommendations to the Board in relation to Key Management Personnel and other executives in respect of remuneration policy and its link to performance. In FY22, the remuneration framework included a policy objective to focus on positive ESG outcomes, which included a focus on water conservation: LTI-1 (to be measured 30 June 2025) – To reduce baseline usage on potable scheme water sources (KCGM) by 10%.

W6.2d

(W6.2d) Does your organization have at least one board member with competence on water-related issues?

	Board member(s) have competence on water-related issues	Criteria used to assess competence of board member(s) on water-related issues	Primary reason for no board-level competence on water-related issues	Explain why your organization does not have at least one board member with competence on water-related issues and any plans to address board-level competence in the future
Row 1	Yes	Northern Star reviewed its Board skills matrix in FY22. The Company engaged external governance specialists to formulate and update the skills matrix in conjunction with the Chairman and Company Secretary. An in-depth analysis of the Board's skills, experience and diversity factors was then undertaken. Each Non-Executive Director was asked to self-assess their own levels of skill, capability and experience in 69 different areas, grouped into 9 categories, against a four-tier scale (from 'Limited' to 'Expert'). The Sustainability skill category included the area of climate change, part of which is skills expertise and experience dealing with water-related issues, with the collective Board self-assessment score being in the second quartile for this category, being a score of 62 out of 100.	<Not Applicable>	<Not Applicable>

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).

Name of the position(s) and/or committee(s)

Other C-Suite Officer, please specify (Managing Director and Chief Executive Officer)

Responsibility

Assessing water-related risks and opportunities
 Managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

Name of the position(s) and/or committee(s)

Other C-Suite Officer, please specify (Chief Legal Officer & Company Secretary)

Responsibility

Assessing water-related risks and opportunities
 Managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

This role has executive responsibility for Environment, Social Performance and ESG engagement.

Name of the position(s) and/or committee(s)

Other C-Suite Officer, please specify (Chair of the Board)

Responsibility

Assessing water-related risks and opportunities
 Managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

Name of the position(s) and/or committee(s)

Other C-Suite Officer, please specify (Environmental, Social and Safety Committee)

Responsibility

Assessing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of water-related issues?

	Provide incentives for management of water-related issues	Comment
Row 1	Yes	Northern Star's FY22 Long Term Incentive Performance Rights KPIs require Northern Star to reduce its baseline usage of potable scheme water sources (KCGM) by 10% by 30 June 2025. This performance target is aligned with Northern Star's commitment to demonstrating good environmental management and social responsibility through identifying and implementing water use efficiencies in its operations.

W6.4a

(W6.4a) What incentives are provided to C-suite employees or board members for the management of water-related issues (do not include the names of individuals)?

	Role(s) entitled to incentive	Performance indicator	Please explain
Monetary reward	Please select	Please select	
Non-monetary reward	Corporate executive team Other, please specify (Management Group)	Reduction in consumption volumes	Northern Star's FY22 Long Term Incentive Performance Rights KPIs require Northern Star to reduce its baseline usage of potable scheme water sources (KCGM) by 10% by 30 June 2025.

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

Yes, trade associations

W6.5a

(W6.5a) What processes do you have in place to ensure that all of your direct and indirect activities seeking to influence policy are consistent with your water policy/water commitments?

Northern Star has in place formal Senior Management and Board approval processes for its direct and indirect activities which actively include water obligation/commitment considerations.

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

Yes (you may attach the report - this is optional)

2-2022-Annual-Report-29-08-2022.pdf

10-FY22-Sustainability-Report-29-08-2022-spreads.pdf

W7. Business strategy

W7.1

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	5-10	
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	
Financial planning	Yes, water-related issues are integrated	5-10	

W7.2

(W7.2) What is the trend in your organization’s water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

Water-related CAPEX (+/- % change)

Anticipated forward trend for CAPEX (+/- % change)

Water-related OPEX (+/- % change)

Anticipated forward trend for OPEX (+/- % change)

Please explain

W7.3

(W7.3) Does your organization use scenario analysis to inform its business strategy?

	Use of scenario analysis	Comment
Row 1	Yes	Please refer to our CY2020 Sustainability Report for more information on our Climate Change Scenario Analysis work which incorporated water risks and opportunities. https://www.nsrtd.com/investor-and-media/asx-announcements/2021/february/2020-sustainability-report Please refer to our CY2021 Sustainability Report for more information on key Climate Change Related Risks and Opportunities, which includes water related risks and opportunities: https://www.nsrtd.com/investor-and-media/asx-announcements/2022/february/2021-sustainability-report

W7.3a

(W7.3a) Provide details of the scenario analysis, what water-related outcomes were identified, and how they have influenced your organization's business strategy.

	Type of scenario analysis used	Parameters, assumptions, analytical choices	Description of possible water-related outcomes	Influence on business strategy
Row 1	Climate-related	RCP 2.6 (TCFD, RCP 4.5, RCP 8.5)	Please refer to Section W4 of the CDP Water Security Questionnaire on Risks and Opportunities	Please refer to Section W4 of the CDP Water Security Questionnaire on Risks and Opportunities

W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?

No, and we do not anticipate doing so within the next two years

Please explain

W7.5

(W7.5) Do you classify any of your current products and/or services as low water impact?

	Products and/or services classified as low water impact	Definition used to classify low water impact	Primary reason for not classifying any of your current products and/or services as low water impact	Please explain
Row 1	No, and we do not plan to address this within the next two years	<Not Applicable>	Please select	

W8. Targets

W8.1

(W8.1) Describe your approach to setting and monitoring water-related targets and/or goals.

	Levels for targets and/or goals	Monitoring at corporate level	Approach to setting and monitoring targets and/or goals
Row 1	Site/facility specific targets and/or goals	Targets are monitored at the corporate level	

W8.1a

(W8.1a) Provide details of your water targets that are monitored at the corporate level, and the progress made.

Target reference number

Target 1

Category of target

Water consumption

Level

Site/facility

Primary motivation

Increase freshwater availability for users/natural environment within the basin

Description of target

Northern Star's FY22 Long Term Incentive Performance Rights KPIs require Northern Star to reduce its baseline usage of potable scheme water sources (KCGM) by 10% by 30 June 2025 (FY22 LTI-1: Water conservation projects to reduce potable water usage at KCGM by 10% by end of FY25). This performance target is aligned with Northern Star's commitment to demonstrating good environmental management and social responsibility through identifying and implementing water use efficiencies in its operations.

Quantitative metric

% reduction in total water consumption

Baseline year

2021

Start year

2022

Target year

2025

% of target achieved

Please explain

KCGM uses water balance models and systems to identify water efficiency and management opportunities, and is well underway to achieving its long term target, having reported an 10.73% reduction in potable water use in FY21, down from 1,829,990 kl in FY20 to 1,633,704 kl in FY21.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?

No, but we are actively considering verifying within the next two years

W10. Sign off

W-FI

(W-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

W10.1

(W10.1) Provide details for the person that has signed off (approved) your CDP water response.

	Job title	Corresponding job category
Row 1	Chief Legal Officer & Company Secretary	Other C-Suite Officer

W10.2

(W10.2) Please indicate whether your organization agrees for CDP to transfer your publicly disclosed data on your impact and risk response strategies to the CEO Water Mandate's Water Action Hub [applies only to W2.1a (response to impacts), W4.2 and W4.2a (response to risks)].

Yes

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please confirm below

I have read and accept the applicable Terms