Marvell CDP Water Security Questionnaire 2023

W0. Introduction

W0.1

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

Marvell Technology Inc. is a global fabless semiconductor solutions provider focused on building essential technology for data infrastructure with an unrivalled portfolio of compute, networking, security and storage products. Trusted by the world's leading technology companies for over 25 years, our cloud-optimized silicon technology is changing the way tomorrow's enterprise, cloud, automotive and carrier architectures transform – for the better. Marvell has the industry's most comprehensive data infrastructure portfolio covering critical enabling components across storage, compute, electro-optics, networking and security. Marvell uniquely offers these leading products to be customized and optimized for customers' unique requirements as ASICs in collaboration with customers who have in-house silicon design teams.

Sustainability and ESG (Environmental, Social and Governance) are core to how Marvell operates as a responsible corporation. Marvell's approach to ESG is based upon the areas of greatest impact and opportunity for our company - integrating environmental and social considerations into our product design and responsibly managing the environmental and social impacts of our supply chain, while focusing on strategic ESG initiatives that are material to our financial performance and long-term value creation. These priorities are supported by a strong system of ESG governance and complemented by goals on each of our material ESG topics.

This CDP Report contains forward-looking statements regarding Marvell's ESG policies, procedures and future actions related thereto within the meaning of the federal securities laws that involve risks and uncertainties. Words such as "anticipates," "expects," "intends," "plans," "projects," "believes," "seeks," "estimates," "can," "may," "will," "would" and similar expressions identify such forward-looking statements. These statements are not guarantees of results and should not be considered as an indication of future activity or future performance. Actual events or results may differ materially from those described in this CDP Report due to a number of risks and uncertainties, including, but not limited to: the ability of Marvell to implement its plans with respect to ESG matters in the time frame anticipated or at all; Marvell's reliance on independent foundries and subcontractors for the manufacture, assembly and testing of its products; the impacts and costs associated with changes in ESG and similar regulations; Marvell's ability to monitor and accurately report on ESG matters; general macroeconomic conditions, or expectations of such conditions, such as rising interest rates, macroeconomic

slowdowns, recessions, inflation and stagflation; changes in demand for semiconductors and the related changes in demand and supply for our products; our ability to define, design, develop and market products for the Cloud and 5G markets, as well as for Artificial Intelligence (AI) solutions; our dependence on a small number of customers; and other risks detailed in Marvell's SEC filings from time to time. Marvell undertakes no obligation to revise or publicly update any forward-looking statements.

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	February 1, 2022	January 31, 2023

W0.3

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

Argentina
Canada
China
Denmark
Germany
India
Israel
Italy
Japan
Netherlands
Poland
Republic of Korea
Romania
Singapore
Spain
Sweden
Switzerland
Taiwan, China
United Kingdom of Great Britain and Northern Ireland
United States of America
Viet Nam

W0.4

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

USD

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 operational 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
Yes, a Ticker symbol	MRVL
Yes, a CUSIP number	573874104

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	Vital	Vital	Direct Use: As a fabless semiconductor company, the use of good-quality freshwater in our direct operations is mostly from human consumption — the drinking water and the food preparation in our cafeterias. We also use limited quantities of freshwater for closed-system chiller and process water applications. We recognize access to water as a fundamental human right, and direct use of clean freshwater is vital for us to ensure safe access for our employees to high-quality drinking water. Indirect use: As a fabless semiconductor

			company, the majority of our use of good-quality freshwater takes place in our supply chain. Indirect use of good quality freshwater is vital in the fabrication phase of our product manufacturing, as the production of high-quality semiconductor products requires clean, purified water, and any contamination can damage circuits. Future water dependency is expected to remain about the same for our direct operations. However, our suppliers will remain dependent on good quality freshwater for quality manufacturing to meet our customer requirements for high quality products, and the future dependency on freshwater in our supply chain is likely to increase.
Sufficient amounts of recycled, brackish and/or produced water available for use	Neutral	Neutral	Direct Use: Marvell uses recycled water only for landscaping at our owned site in Santa Clara, and therefore, the water type used is not critical to our direct operations. Indirect use: Our direct contract manufacturers use recycled water for cooling purposes as well as in manufacturing operations to reduce the dependency on potable water for water conservation purposes. Marvell's dependency on recycled, brackish and/or produced water is expected to remain neutral for both direct and indirect use, as the availability of lower quality water is not essential in the production across all stages of our value chain.

W1.2

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

	% of sites/facilities/operations	Frequency of measurement	Method of measurement	Please explain
Water withdrawals – total volumes	100%	Monthly	We are monitoring our water withdrawals monthly at a site level. For sites that have access to actual water utility data, we report actual water	All our water comes from municipal sources. In FY 2023 (reporting period), we are reporting water withdrawals for all our facilities

			withdrawals, and for sites for which utility bills are unavailable, we estimate water withdrawals based on square footage and facility type. The consumption per square foot was based on the data from the Commercial Buildings Energy Consumption Survey (for offices).	globally (including offices and R&D labs). For sites that have access to actual water utility data, we report actual water withdrawals, and for sites for which utility bills are unavailable, we estimate water withdrawals based on square footage and facility type. Data tracking takes place on a monthly basis, and the development of company-wide water inventory is done on an annual basis.
Water withdrawals – volumes by source	100%	Monthly	Since Marvell is fabless and operates only offices and R&D labs, all our water comes from municipal sources, and we monitor water withdrawal monthly only from one source. We report actual water withdrawals when available, and for sites for which utility bills are unavailable, we estimate water withdrawals based	All our water comes from municipal sources. In FY 2023 (reporting period), we are reporting water withdrawals for all our facilities globally (including offices and R&D labs). For sites that have access to actual water utility data, we report actual water withdrawals, and for sites for which

			on square footage and facility type. The consumption per square foot was based on the data from the Commercial Buildings Energy Consumption Survey (for offices).	utility bills are unavailable, we estimate water withdrawals based on square footage and facility type. Data tracking takes place on a monthly basis, and the development of a company-wide water inventory is done on an annual basis.
Water withdrawals quality	100%	Monthly	Since Marvell is fabless and operates only offices and R&D labs, all our water comes from municipal sources, and we monitor water withdrawal quality monthly. We report actual water withdrawals when available, and for sites for which utility bills are unavailable, we estimate water withdrawals based on square footage and facility type. The consumption per square foot was based on the data from the Commercial Buildings Energy Consumption Survey (for offices).	Since all our water comes from municipal sources, water quality is monitored by water utilities at the municipal level. Water provided to Marvell from third party is of acceptable quality for its purposes, according to local and regional standards, and is monitored and measured through billing. Data tracking takes place on a monthly basis, and the development of a company-wide water inventory is

				done on an annual basis.
Water discharges – total volumes	100%	Monthly	Water discharge is sent to third parties and is calculated from monthly billing statements (if discharge meters are available), and through annual estimates. Most of our sites do not have discharge meters, and we estimate our water discharge as follows: Discharge = Withdrawal - Consumption (Evaporation).	In FY 2023 (reporting period), we are reporting water discharge for all our facilities (including offices and R&D labs). Data tracking takes place on an annual basis. Most of our sites do not have discharge meters, and since our water consumption is minimal and primarily related to human consumption (drinking water, cooking, and sanitation), we expected water discharge to be close to withdrawals for those sites. For sites that do not have discharge meters, we estimate our water discharge by subtracting consumption from withdrawals. We estimate water consumption using the U.S. Geological Survey Consumptive

				Water-Use Coefficients (for office space).
Water discharges – volumes by destination	100%	Monthly	Water discharge is sent to third parties and is calculated from monthly billing statements (if discharge meters are available), and through annual estimates. Most of our sites do not have discharge meters, and we estimate our water discharge as follows: Discharge = Withdrawal - Consumption (Evaporation).	In FY 2023 (reporting period), we are reporting water discharge for all our facilities (including offices and R&D labs). Data tracking takes place on an annual basis. Most of our sites do not have discharge meters, and since our water consumption is minimal and primarily related to human consumption (drinking water, cooking, and sanitation), we expected water discharge to be close to withdrawals for those sites. For sites that do not have discharge meters, we estimate our water discharge by subtracting consumption from withdrawals. We estimate water consumption using the U.S. Geological Survey

				Consumptive Water-Use Coefficients (for office space).
Water discharges – volumes by treatment method	100%	Monthly	Water discharge is sent to third parties and is calculated from monthly billing statements (if discharge meters are available), and through annual estimates. Most of our sites do not have discharge meters, and we estimate our water discharge as follows: Discharge = Withdrawal - Consumption (Evaporation).	In FY 2023 (reporting period), we are reporting water discharge for all our facilities (including offices and R&D labs). Data tracking takes place on an annual basis. Most of our sites do not have discharge meters, and since our water consumption is minimal and primarily related to human consumption (drinking water, cooking, and sanitation), we expected water discharge to be close to withdrawals for those sites. For sites that do not have discharge meters, we estimate our water discharge by subtracting consumption from withdrawals. We estimate water consumption using the U.S. Geological

				Survey Consumptive Water-Use Coefficients (for office space).
Water discharge quality – by standard effluent parameters	100%	Monthly	Water discharge is sent to third parties and is calculated from monthly billing statements (if discharge meters are available), and through annual estimates. Most of our sites do not have discharge meters, and we estimate our water discharge as follows: Discharge = Withdrawal - Consumption (Evaporation).	In FY 2023 (reporting period), we are reporting water discharge for all our facilities (including offices and R&D labs). Data tracking takes place on an annual basis. Most of our sites do not have discharge meters, and since our water consumption is minimal and primarily related to human consumption (drinking water, cooking, and sanitation), we expected water discharge to be close to withdrawals for those sites. For sites that do not have discharge meters, we estimate our water discharge by subtracting consumption from withdrawals. We estimate water consumption using the U.S.

				Geological Survey Consumptive Water-Use Coefficients (for office space).
Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)	Not relevant			We do not monitor water discharge quality by chemical substances, as the primary water use at Marvell is related to human consumption — the drinking water, the food preparation in our cafeterias, the restrooms — as well as in landscape irrigation. When using water onsite (including for our landscape irrigation), we do not apply any chemicals, including fertilizers and pesticides, and we do not expect our water discharge to contain chemical substances, such as nitrates, phosphates, pesticides.
Water discharge quality – temperature	Not relevant			Marvell does not directly treat our own water. Our water discharge is treated

				according to local and regional standards by a municipal third party. We do not monitor water discharge quality by temperature, as the primary water use at Marvell is related to human consumption — the drinking water, the food preparation in our cafeterias, the restrooms — as well as in landscape irrigation.
Water consumption – total volume	100%	Monthly	We monitor our water consumption using onsite water meters and track water consumption through monthly billing statements. For sites with actual water use data, we measure water consumption based on actual water withdrawals and the U.S. Geological Survey consumptive water-use coefficients, which were scaled to the facilities located in the corresponding country. For sites with actual water use and discharge	As a fabless semiconductor company, water consumption in our direct operations is mostly from human consumption — the drinking water, food preparation in our cafeterias, in the restrooms, and through evaporation or landscape irrigation. We also use limited quantities of freshwater for closed-system chiller and process water

			data, we measure consumption by subtracting discharge from withdrawals.	applications. As a result, water consumption has been relatively low.
Water recycled/reused	100%	Monthly	Marvell facilities that use recycled water have their own onsite attached meters, which are tracked and monitored on a monthly basis. All recycles/reused water that we report is based on these actual site-level data.	We have measures in place at our owned facilities to improve water use efficiency, such as utilizing recycled water in landscaping and installing low-flow faucets and toilets at our Santa Clara offices. Marvell facilities that use recycled water have their own onsite attached meters, which are tracked and monitored on a monthly basis.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Monthly	We include WASH criteria into our annual water risk assessment and evaluation (using data from the WHO/UNICEF Joint Monitoring Programme) and also monitor the quality of WASH services onsite. We monitor our water consumption using onsite water meters and track water consumption through monthly	Marvell is a fabless semiconductor company, and the majority of water use in our offices and facilities is mostly from human consumption — the drinking water, the food preparation in our cafeterias, the restrooms — as well as in landscape irrigation. We

			billing statements. For sites that do not have access to metered water data, we estimate consumption annually as follows: Consumption = Withdrawals – Discharge.	make sure that all our facilities globally (including offices and R&D labs) provide fully-functioning water, sanitation, and hygiene (WASH) services for all employees. We include WASH criteria into our annual water risk assessment and evaluation (using data from the WHO/UNICEF Joint Monitoring Programme) and also monitor the quality of WASH services on-site.

W1.2b

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

	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Please explain
Total withdrawals	137	About the same	Change in accounting methodology	About the same	Investment in water-smart technology/process	Description for ‘’comparison with previous reporting year” and “five-year forecast” thresholds: Deviation +/- 5% = about the

						same, deviation between +/- 5-30% = higher /lower; Deviation > +/- 30% = much higher / lower. In FY23 (reporting period), our water withdrawals were about the same as those reported for the previous year (deviation is -2%), despite an expansion in our square footage by 19% and business growth of 33%, from the previous year. In FY23 (reporting year), about 50% of our facilities had actual water utility data for water withdrawals and water discharge (compared to 10% in the previous year). The reason for water withdrawals staying at similar levels as the previous year despite increased business activity

						is due to an increase in actual water utility data that provided a more accurate measurement of Marvell's water use data (including withdrawals, discharges, and water consumption). We anticipate about the same water withdrawals in the future as we further consolidate facilities, implement more water efficient water fixtures, and adopt a hybrid work model, with fewer employees onsite. We also have a goal in place by end of FY24 to develop and implement water action plans at sites where Marvell has operational control of water management. Since Marvell is a fabless semiconductor company,

						primary water use in our offices and facilities is related to human consumption and is relatively minimal — the drinking water, the food preparation in our cafeterias, the restrooms — as well as in landscape irrigation. We also use limited quantities of water for closed-system chiller and process water applications to fulfil cooling needs.
Total discharges	113	Lower	Change in accounting methodology	About the same	Facility expansion	Description for ‘’comparison with previous reporting year” and “five-year forecast” thresholds: Deviation +/- 5% = about the same, deviation between +/- 5-30% = higher /lower; Deviation > +/- 30% = much higher / lower. Sites with discharge

						meters report actual water discharge data on a monthly basis. However, most of our site do not have discharge meters, and our water discharge is calculated by subtracting metered/estimated consumption from total withdrawals. Water consumption is measured based on water withdrawals and the U.S Geological Survey Consumptive Water-Use Coefficients (for office space). In FY23, water discharge was lower than the previous year (deviation is −6%), despite an expansion in our square footage by 19% and a business growth of 33%, from the previous year. The reason for lower water discharge in comparison to the previous

						year despite increased business activity is due to an increase in actual water utility data that provided a more accurate measurement of Marvell's water use data (including withdrawals, discharges, and water consumption). We anticipate about the same water discharge in the future as we further consolidate facilities, implement more water efficient water fixtures, and adopt a hybrid work model, with fewer employees onsite. We also have a goal in place by end of FY24 to develop and implement water action plans at sites where Marvell has operational control of water management. Since Marvell is

						a fabless semiconductor company, primary water use in our offices and facilities is related to human consumption and is relatively minimal — the drinking water, the food preparation in our cafeterias, the restrooms — as well as in landscape irrigation. We also use limited quantities of water for closed-system chiller and process water applications to fulfil cooling needs.
Total consumption	24	Higher	Change in accounting methodology	About the same	Facility expansion	Description for ‘’comparison with previous reporting year” and “five-year forecast” thresholds: Deviation +/- 5% = about the same, deviation between +/- 5-30% = higher /lower; Deviation > +/- 30% = much higher / lower.

						For most sites, our water consumption was estimated based on actual/estimated water withdrawals and the U.S Geological Survey Consumptive Water-Use Coefficients (for office space). For sites that had discharge meters, water consumption was estimated by subtracting discharge from withdrawal. In FY23 (reporting year), about 50% of our facilities had actual water utility data for water withdrawals and water discharge (compared to 10% in the previous year). Increase in actual water utility data provides a more accurate measurement of Marvell's water use (including withdrawals,

						discharges, and water consumption). Although water consumption is higher than in the previous year (+20%), the absolute value is still relatively low, as the primary water use in our offices and facilities is related to human consumption — the drinking water, the food preparation in our cafeterias, the restrooms — as well as in landscape irrigation. We also use limited quantities of water for closed-system chiller and process water applications to fulfil cooling needs. We anticipate about the same water consumption in the future as we consolidate facilities, implement more water efficient water fixtures,

						and adopt a hybrid work model, with fewer employees onsite. We also have a goal in place by end of FY24 to develop and implement water action plans at sites where Marvell has control of water management.

W1.2d

(W1.2d) Indicate whether water is withdrawn from areas with water stress, provide the proportion, how it compares with the previous reporting year, and how it is forecasted to change.

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Identification tool	Please explain
Row 1	Yes	11-25	About the same	Increase/decrease in efficiency	About the same	Increase/decrease in efficiency	WRI Aqueduct WWF Water Risk Filter	In FY 2023 (reporting period), 23% of Marvell's total water withdrawals were sourced from water-stressed areas (compared

								to 19% in the previous year). We define 'water-stressed areas' facilities as those meeting the following water risk criteria: (1) located in an area of high or extremely high baseline water stress according to WRI Aqueduct, (2) located in an area of high or extremely high riverine or coastal flooding, or drought risk according to WRI Aqueduct, (3) located in an area of high or extremely high water stress under

								future 2030 and 2040 business as usual climate scenarios according to WRI Aqueduct, or those located in an area of high or extremely high water depletion under the WWF Water Risk Filter. For facilities meeting the water risk criteria, we also apply business criticality criteria: (1) square footage greater than or equal to 50,000 square feet, (2) headcount greater than 5% of total, (3) facility-level water

								withdrawals greater than the median water withdrawals of all Marvell facilities. We anticipate about the same water withdrawals from areas with water stress in the future as we aim to maintain similar levels of water withdrawals in the future, by consolidating facilities, implementing more water efficient water fixtures, and adopting a hybrid work model, with fewer employees onsite.

								We also have a goal in place by end of FY24 to develop and implement water action plans at sites where Marvell has control of water managem ent.

W1.2h

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

	Relevanc e	Volume (megaliters/year)	Compariso n with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Not relevant				Marvell does not withdraw water from freshwater sources, as we source our water through third-party municipal suppliers. We expect future freshwater withdrawal volumes to remain unchanged, as we do not anticipate

					withdrawing from this source in the future.
Brackish surface water/Seawater	Not relevant				Marvell does not withdraw water from brackish surface water or seawater sources, as we source our water through third-party municipal suppliers. We expect future withdrawal volumes from brackish surface water/seawater to remain unchanged, as we do not anticipate withdrawing from this source in the future.
Groundwater – renewable	Not relevant				Marvell does not withdraw water from renewable groundwater sources, as we source our water through third-party municipal suppliers. We expect future groundwater withdrawal volumes to remain unchanged, as we do not anticipate withdrawing from this source in the future.
Groundwater – non-renewable	Not relevant				Marvell does not withdraw water from non-

					renewable groundwater sources, as we source our water through third-party municipal suppliers. We expect future groundwater withdrawal volumes to remain unchanged, as we do not anticipate withdrawing from this source in the future.
Produced/Entrained water	Not relevant				Marvell does not use produced or entrained water that is generated in its facilities, as we source our water through third-party municipal suppliers. We expect future produced/entrained withdrawal volumes to remain unchanged, as we do not anticipate withdrawing from this source in the future.
Third party sources	Relevant	137	About the same	Change in accounting methodology	This source is relevant to Marvell, as we withdraw 100% of our water from third-party municipal sources. These water withdrawals are mostly based on data from water utility bills. In cases

					where actual data were not available, we used estimations from the Commercial Buildings Energy Consumption Survey based on our facilities' type and square footage. In FY23, our water withdrawals were about the same as those reported for the previous year (deviation is -2%), despite an expansion in our square footage by 19% and business growth of 33%, from the previous year. In FY23, about 50% of our facilities had actual water utility data for water withdrawals and water discharge (compared to 10% in the previous year). The reason for water withdrawals staying at similar levels as the previous year despite increased business activity is due to an increase in actual water utility data that provided a more

					accurate measurement of Marvell's water use data.

W1.2i

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

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water	Not relevant				This destination is not relevant to Marvell, as we do not discharge directly to fresh surface water areas. Our water discharges are sent to third-party municipal suppliers. We expect future discharge volumes to fresh surface water to remain unchanged, as we do not anticipate discharging to this source in the future.
Brackish surface water/seawater	Not relevant				This destination is not relevant to Marvell, as we do not discharge directly to brackish water or seawater areas. Our water discharges are sent to third-party suppliers. We expect future discharge volumes to brackish water or seawater to remain unchanged,

					as we do not anticipate discharging to this source in the future.
Groundwater	Not relevant				This destination is not relevant to Marvell, as we do not discharge directly to groundwater areas. Our water discharges are sent to third-party suppliers. We expect future discharge volumes to groundwater to remain unchanged, as we do not anticipate discharging to this source in the future.
Third-party destinations	Relevant	113	Lower	Change in accounting methodology	This source is relevant to Marvell, as we discharge 100% of our water to third-party destinations. These water discharges are mostly estimated by subtracting consumption from total withdrawals. In FY23, our water discharges were lower than those reported in the previous year (deviation is -6%), despite an expansion in our square footage by 19% and business growth of 33%, from the previous year.

					In FY23, about 50% of our facilities had actual water utility data for water withdrawals and water discharge (compared to 10% in the previous year). The reason for water discharges lower than the previous year despite increased business activity is due to an increase in actual water utility data that provided a more accurate measurement of Marvell's water use data.

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	Primary reason for comparison with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain
Tertiary treatment	Not relevant					Tertiary treatment of water is not relevant to our operations, because Marvell is a fabless semiconductor company

						and is not manufacturing our designs. Our facilities are mainly offices and R&D hubs, and we are not required to conduct onsite tertiary treatment of our discharge by any local or international environmental regulation or standard.
Secondary treatment	Not relevant					Secondary treatment of water is not relevant to our operations, because Marvell is a fabless semiconductor company and is not manufacturing our designs. Our facilities are mainly offices and R&D hubs, and we are not required to conduct onsite secondary

						treatment of our discharge by any local or international environmental regulation or standard.
Primary treatment only	Not relevant					Primary treatment of water is not relevant to our operations, because Marvell is a fabless semiconductor company and is not manufacturing our designs. Our facilities are mainly offices and R&D hubs, and we are not required to conduct onsite primary treatment of our discharge by any local or international environmental regulation or standard.
Discharge to the natural environment	Not relevant					Discharge to the natural environment without treatment is

without treatment						not relevant to our operations, as we discharge 100% of our untreated discharge to municipal treatment plants.
Discharge to a third party without treatment	Relevant	113	Lower	Change in accounting methodology	100%	Discharge to a third party without treatment is relevant, because we discharge 100% of our water to local municipal/public wastewater treatment plants. All the municipal/public wastewater treatment plants we discharge to comply with regulatory standards . Discharge of untreated cooling tower water as well as water from onsite sanitation systems is considered standard

						industry practice. Most of the water in cooling towers is lost through evaporation. Marvell maintains records of Safety Data Sheets for products in cooling towers and closed loops systems at our Santa Clara and San Jose facilities.
Other						

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	5,919,600,000	137	43,208,759.1240876	We expect our water withdrawal efficiency (withdrawal per revenue) to increase in the future. We expect our absolute water withdrawals to remain about the same as we consolidate facilities, implement more water efficient water fixtures, and adopt a hybrid work model, with fewer employees onsite, whereas our revenue is projected to increase as we grow our business.

W1.4

(W1.4) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances
Row 1	Yes

W1.4a

(W1.4a) What percentage of your company's revenue is associated with products containing substances classified as hazardous by a regulatory authority?

Regulatory classification of hazardous substances	% of revenue associated with products containing substances in this list	Please explain
Other, please specify RoHS, REACH, EU Substances of Concern In articles as such or in complex objects (Products) (SCIP), State of California Proposition 65 , U.S. Toxic Substances Control Act (TSCA), International Electrochemical Commission (IEC) standard 61249-2-21	21-40	The semiconductor industry uses a number of materials for their electrical properties, including mercury, lead, cadmium and hexavalent chromium. These materials are heavily regulated, particularly since they are known to have an adverse impact on human health and the environment. The International Electrotechnical Commission (IEC) maintains a global database of substances of concern. We use this to coordinate our reporting on the material composition of our products throughout our industry and supply chain. We work with our suppliers to collect and confirm the information they provide on the IEC 62474 declarable substances list during product development and manufacturing. Our products comply with a wide range of regulations, including: Pollution Caused by Electronic Information Products (China RoHS), European Union (UN) Persistent Organic Pollutants (POPs), EU Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), EU Directive on the Restriction of Hazardous Substances in Electrical and Electronic

		Equipment (RoHS), EU Substances of Concern In articles as such or in complex objects (Products) (SCIP), State of California Proposition 65 , U.S. Toxic Substances Control Act (TSCA), International Electrochemical Commission (IEC) standard 61249-2-21.

W1.5

(W1.5) Do you engage with your value chain on water-related issues?

	Engagement
Suppliers	Yes
Other value chain partners (e.g., customers)	Yes

W1.5a

(W1.5a) Do you assess your suppliers according to their impact on water security?

Row 1

Assessment of supplier impact

No, we do not currently assess the impact of our suppliers, but we plan to do so within the next two years

Please explain

In FY23 (reporting year), we completed an initial climate and water risk screening of our supply chain, which was followed by a quantitative scenario analysis aligned with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD). Two key risks considered in our assessment were water stress / drought and flooding as they relate to risk exposure of our direct suppliers. Due to the long-time horizons (2030 and 2050) analyzed for our climate scenario analysis, the identified potential risks are not financial forecasts but conceptualizations of possible business and financial impact pathways. In our next assessment (timeline is by FY 2025), we are planning to conduct in-depth asset-level assessment and evaluate our suppliers' exposure to water risk and efforts around enhancement of their adaptive capacity and ability to respond to future impacts of climate change.

W1.5b

(W1.5b) Do your suppliers have to meet water-related requirements as part of your organization's purchasing process?

	Suppliers have to meet specific water-related requirements
Row 1	Yes, suppliers have to meet water-related requirements, but they are not included in our supplier contracts

W1.5c

(W1.5c) Provide details of the water-related requirements that suppliers have to meet as part of your organization's purchasing process, and the compliance measures in place.

Water-related requirement

Engaging with their suppliers on water security actions

Mechanisms for monitoring compliance with this water-related requirement

Supplier self-assessment

Response to supplier non-compliance with this water-related requirement

Retain and engage

Comment

All suppliers are required to comply with Marvell's Supplier Code of Conduct., which requires all suppliers and their subcontractors that are contracted to manufacture Marvell products or related components to comply with the Responsible Business Alliance (RBA) Code of Conduct. We actively engage our suppliers comprising top 80% spend through the RBA environmental platform, which allows Marvell suppliers to report their water performance. The RBA requests suppliers to provide their workers with ready access to clean toilet facilities, potable water and sanitary food preparation, storage, and eating facilities. Suppliers are required to implement a water management program that documents, characterizes, and monitors water sources, use and discharge; seeks opportunities to conserve water; and controls channels of contamination. Suppliers shall conduct monitoring of their wastewater treatment and containment systems to ensure optimal performance and regulatory compliance.

Water-related requirement

Providing fully-functioning, safely managed WASH services to all workers

Mechanisms for monitoring compliance with this water-related requirement

On-site third-party audit
Supplier self-assessment

Response to supplier non-compliance with this water-related requirement

Retain and engage

Comment

All suppliers are required to comply with Marvell's Supplier Code of Conduct., which requires all suppliers and their subcontractors that are contracted to manufacture Marvell products or related components to comply with the Responsible Business Alliance (RBA) Code of Conduct. We actively engage our suppliers comprising top 80% spend through the RBA environmental platform, which allows Marvell suppliers to

report their water performance. The RBA requests suppliers to provide their workers with ready access to clean toilet facilities, potable water and sanitary food preparation, storage, and eating facilities. Suppliers are required to implement a water management program that documents, characterizes, and monitors water sources, use and discharge; seeks opportunities to conserve water; and controls channels of contamination. Suppliers shall conduct monitoring of their wastewater treatment and containment systems to ensure optimal performance and regulatory compliance.

W1.5d

(W1.5d) Provide details of any other water-related supplier engagement activity.

Type of engagement

Other

Details of engagement

Other, please specify

Onboarding & Compliance

% of suppliers by number

1-25

Rationale for your engagement

All suppliers are required to comply with Marvell's Supplier Code of Conduct., which requires all suppliers and their subcontractors that are contracted to manufacture Marvell products or related components to comply with the Responsible Business Alliance (RBA) Code of Conduct. This responsibility is also part of Marvell's standard operations. We actively engage our suppliers comprising top 80% spend through the RBA environmental platform, which allows Marvell suppliers to share their initiatives and environmental metrics. The RBA requests suppliers to provide their workers with ready access to clean toilet facilities, potable water and sanitary food preparation, storage, and eating facilities. Suppliers are required to implement a water management program that documents, characterizes, and monitors water sources, use and discharge; seeks opportunities to conserve water; and controls channels of contamination. All wastewater is to be characterized, monitored, controlled, and treated as required prior to discharge or disposal. Participants shall conduct routine monitoring of the performance of its wastewater treatment and containment systems to ensure optimal performance and regulatory compliance.
(http://www.responsiblebusiness.org/media/docs/RBACodeofConduct7.0_English.pdf).

Impact of the engagement and measures of success

Marvell has helped to advance action on water throughout its supplier base by advancing the RBA Code of Conduct. We track supplier responses to the RBA Self-Assessment Questionnaire (SAQ), which includes questions on water use. We also track supplier RBA Validated Audit Program (VAP) scores. VAP tracks compliance with RBA Code of Conduct. We require all strategic suppliers to conduct an SAQ and

encourage them to complete a VAP. Success is measured and met when we have all targeted suppliers conduct a SAQ and VAP. Beneficial water-related outcome of our engagement activity include: (1) understanding suppliers' behavior and business conduct and (2) prioritization of supplier locations for supply chain water risk assessment to identify hotspots for further evaluation and corrective action.

Comment

W1.5e

(W1.5e) Provide details of any water-related engagement activity with customers or other value chain partners.

Type of stakeholder

Customers

Type of engagement

Education / information sharing

Details of engagement

Educate and work with stakeholders on understanding and measuring exposure to water-related risks

Rationale for your engagement

Engagement with direct customers on environmental compliance requirements is prioritized to ensure that Marvell's water-related performance meet and exceed industry and specific customer requirements. We prioritize engagements that can help us enhance water stewardship of our suppliers. For example, the Responsible Business Alliance (RBA), of which Marvell is a member, collaborates with the Alliance for Water Stewardship, to begin engaging member companies around shared water challenges, identifying water risks in supply chains, and helping industry players address those risks through improved water stewardship efforts and collective action in water stressed basins. This partnership includes sharing knowledge, developing tools and building working groups to enable supply chain actors to engage in water stewardship. Through our engagement with RBA and AWS, we also collaborate with our peers and customers around knowledge and water-related data and information sharing.

Impact of the engagement and measures of success

We measure our engagement success by the number of total customers' requests that Marvell managed to respond to.

Type of stakeholder

Other, please specify

Employees (other partners in our value chain)

Type of engagement

Education / information sharing

Details of engagement

Run an engagement campaign to educate stakeholders about your water-related performance and strategy

Rationale for your engagement

Our employees are key stakeholders within our own operations and it is important for us to provide our employees with adequate amounts of water, which is mainly used mainly for direct consumption (drinking water and food prepared in our cafeterias). We also conduct employee engagement to raise their awareness about various sustainability issues, including those related to water, through our regular webinars as well as our annual Earth Week activities.

Impact of the engagement and measures of success

The plumbing requests are measured in our Facilities' monthly metrics, and we measure success by resolving and closing employee requests that are submitted. Employee engagement around water-related topics is measured by employee attendance of our webinars and Earth Week activities and engagement on our digital communication channels (e.g., number of impressions and total engagement rate).

Type of stakeholder

Investors & shareholders

Type of engagement

Education / information sharing

Details of engagement

Rationale for your engagement

Investors and shareholders express increasing concerns about potential water risks in their investment portfolios, and therefore, we always consider our investors as key stakeholders in our water risk assessments and provide to them regular updates on our sustainability performance, including water. Marvell's Investor Relations and ESG teams have regular engagements with our investors through one-on-one calls and address investor requests by providing information about Marvell's water performance, including our water use, results of our annual water risk assessments, and our engagement with suppliers around water issues. We also communicate our water performance through our annual ESG Report, CDP Water Security, and other voluntary disclosures.

Impact of the engagement and measures of success

Measures of success: total number of investor requests that we were able to address and positive feedback from investors.

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?

	Water-related regulatory violations	Comment
Row 1	No	

W3. Procedures

W3.1

(W3.1) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

	Identification and classification of potential water pollutants	Please explain
Row 1	No, we do not identify and classify our potential water pollutants	

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 other company-wide risk assessment system

Frequency of assessment

Annually

How far into the future are risks considered?

3 to 6 years

Type of tools and methods used

Tools on the market
Enterprise risk management

Tools and methods used

WRI Aqueduct
WWF Water Risk Filter
Enterprise Risk Management
Other, please specify
Internal Enterprise Risk Management Framework

Contextual issues considered

Water availability at a basin/catchment level
Impact on human health
Water regulatory frameworks
Access to fully-functioning, safely managed WASH services for all employees

Stakeholders considered

Customers
Employees
Investors
Local communities

Comment

We perform water risk assessment annually at a company-wide level to identify, assess, and prioritize water-related risks and share updates with our internal Environmental, Social, and Governance Working Groups to assist with the risk governance and management.

Value chain stage

Supply chain

Coverage

Full

Risk assessment procedure

Water risks are assessed as part of other company-wide risk assessment system

Frequency of assessment

Annually

How far into the future are risks considered?

3 to 6 years

Type of tools and methods used

Tools on the market
Enterprise risk management

Tools and methods used

WRI Aqueduct
WWF Water Risk Filter
Enterprise Risk Management
Other, please specify
Internal Enterprise Risk Management Framework

Contextual issues considered

Water availability at a basin/catchment level
Impact on human health
Water regulatory frameworks
Status of ecosystems and habitats
Access to fully-functioning, safely managed WASH services for all employees

Stakeholders considered

Customers
Employees
Investors
Local communities

Comment

We evaluate water risks annually as part of our corporate-level risk assessment led by our Enterprise Risk Management program, as well as our supply chain risk assessment managed through a third-party tool.

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.

	Rationale for approach to risk assessment	Explanation of contextual issues considered	Explanation of stakeholders considered	Decision-making process for risk response
Row 1	Level of coverage: We cover all locations globally within our direct operations (offices and R&D labs) and key locations within our supply chain (representing top 80%	Water availability at a basin/catchment level: Access to potable and non-potable supply is critical both to our own day-to-day business activity as well our suppliers' operations.	Customers: We monitor potential exposure of our direct operations to water risks to ensure we maintain our ability to provide timely delivery of our	In FY23 (reporting period), we conducted a TCFD-aligned climate scenario analysis for our operations and supply chain globally. The results of the analysis

	by spend) in our annual water risk assessments that we conduct as part of our ESG risk assessment and reporting process, as well as during our annual Enterprise Risk Management process. Tools and methods used: We complement our annual corporate-level risk assessment conducted by our Enterprise Risk Management program with asset-level water risk assessment using WRI Aqueduct Water Risk Atlas and WWF Water Risk Filter. In addition, in FY23 (reporting period), we conducted a TCFD-aligned climate scenario analysis to examine potential impacts of physical and transition climate-related risks on our business under three climate scenarios for 2030 and 2050 timeframes. Key physical risks we selected for the scenario analysis included water stress/drought and flooding. Risk classification: Marvell's Executive Leadership Team (ELT) annually	For example, according to our TCFD-aligned climate scenario analysis for our operations and supply chain, our owned site in Santa Clara (USA) and our supplier sites in Taiwan could observe increasing impacts of both drought and flooding coupled with local power outages. Monitoring water availability for at-risk is important for us to ensure continuous and reliable water supply and business continuity. Access to WASH services and impact on human health: Most of our day-to-day water use is associated with sanitation, drinking water, and food preparation, and therefore, we consider WASH services to ensure our employees' wellbeing, health and safety. Similarly, our suppliers are required to provide their workers with ready access to clean toilet facilities, potable water and sanitary food preparation, storage, and eating facilities. These requirements are requested by the Responsible Business Alliance (RBA) Code of Conduct, which all our	products and services to our customers. We consider customers in all our risk assessments, as all our business processes are directly or indirectly relevant to our customers. Employees: Most of our day-to-day water use is associated with sanitation, drinking water, and food preparation, and therefore, we always consider employees as key stakeholders, and strive to provide them with access to functioning WASH services at all our sites globally. Investors: Investors and shareholders express increasing concerns about potential water risks in their investment portfolios, and therefore, we always consider our investors as key stakeholders in our water risk assessments and provide to them regular updates on our sustainability performance, including water.	indicated that our owned site in Santa Clara (USA) could observe increasing impacts of both drought and flooding coupled with local power outages. According to the U.S.'s Energy Information Administration data, 11% of California's electrical grid mix is attributed to hydropower, and water stress in Santa Clara induced by prolonged drought events could potentially impact our electricity supply. Similarly, our supplier operating facilities in Taiwan could see increased risk of drought and flooding, coupled with storm surges. With the results of this analysis, we were able to inform our key business functions, including Global Real Estate, Procurement, Legal, and Finance, test the resilience of our management processes in the face of climate change, and begin the development of strategies to integrate the findings into our ERM process and low-carbon transition

	engages representatives from across the business to identify short-, medium-, and long-term risks in various business categories: Financial, Operational, Strategic, Sales, Engineering, Information, Organizational, Legal and Regulatory. Risks are then assessed in terms of their impact and likelihood of occurrence. The ERM process informs cross-functional projects that are then developed in order to mitigate and respond to potential risks.	suppliers are required to comply with (per Marvell's Supplier Code of Conduct). Water regulatory frameworks: Since all our own and suppliers' sites are subject to local regulatory frameworks, we continuously monitor environmental regulatory frameworks, including water, to ensure we and our suppliers are in full compliance with regulatory requirements.	Local communities: To maintain our social license to operate globally and protect our brand value, we engage local communities and consider them as key stakeholders.	planning. An example of decisions and actions that we took as a result include: (1) developing water action plans for sites where we have operational control to enhance our operational resilience and preparedness to potential water risks, and (2) conducting detailed supplier risk assessment to better understand our suppliers' exposure to potential climate and water-related risks and how they are enhancing their own risk preparedness and operational resilience.

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?

No

W4.1a

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

Marvell assesses climate -related risks as part of Marvell's Enterprise Risk Management (ERM) process by identifying a potential impact of various risks. The scale of impact severity is defined as "low risk/opportunity, but not substantive" with the total impact of $0-$50 million, "medium risk/opportunity, but not substantive" with the total impact of $50 - $150 million, and "high risk/opportunity, substantive" with the total impact of greater than $150 million. As such, Marvell defines a substantive financial impact from any climate-related risk or opportunity that would impact the company by a dollar amount above $150 million. Marvell's Executive Leadership Team (ELT) identifies risks in the following key business categories and determines

the risk impact (ranging from “manageable” to “major”, to “critical”) and likelihood of occurrence (ranging from “remote” to “possible”, to “likely”): Financial, Operational, Strategic, Sales, Engineering, Information, Organizational, Legal and Regulatory. The risks are classified into a risk matrix and the ELT considers the risk tolerance relative to industry peers as well as areas of focus. In developing and executing mitigation plans for each of these significant risks and areas of focus, the team will also evaluate publicly disclosed risks (such as those in Marvell’s Annual Report on the Form 10-K) and conduct discussions with relevant stakeholders. Marvell regularly updates the risk assessment and discusses it with the Board of Directors annually.

W4.2b

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

	Primary reason	Please explain
Row 1	Evaluation in progress	In FY 2023 (reporting period), Marvell worked to complement our annual corporate-level ERM process with TCFD-aligned quantitative climate risk and opportunity assessment. This assessment aimed to identify and evaluate potential physical and transition climate risks and opportunities, including those related to water, and identify ways to enhance our organizational adaptive capacity and inform our business strategy. To examine potential physical risks (including water stress/drought and flooding), we conducted climate scenario analysis using the Shared Socioeconomic Pathways (SSP) scenarios across the 2030 and 2050 timeframes which leverage IPCC’s AR6 climate models. Our preliminary assessment indicated that within our operations, only our owned site in Santa Clara (USA) could observe increasing impacts of both drought and flooding, potentially causing a risk of local power outages. According to the U.S.’s Energy Information Administration data, 11% of California’s electrical grid mix is attributed to hydropower, therefore in Santa Clara water stress induced by prolonged drought events could potentially impact our electricity supply. Similarly, our supplier operating facilities in Taiwan could see increased risk of drought and flooding coupled with storm surges. However, due to the long-time horizons (2030 and 2050) of our climate scenario analysis, the identified potential risks are not financial forecasts, but broad conceptualizations of possible business and financial impact pathways. Additionally, our physical risk assessment did not consider any efforts around potential enhancement of our own or our suppliers’ adaptive capacity and ability to respond to future impacts of climate change. Since our evaluation is still progress, we are unable to make precise financial estimates for these risks. We plan to conduct a more detailed asset-level quantitative assessment to quantify potential financial impacts of risks and opportunities.

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	Evaluation in progress	In FY 2023 (reporting period), Marvell worked to complement our annual corporate-level ERM process with TCFD-aligned quantitative climate risk and opportunity assessment. This assessment aimed to identify and evaluate potential physical and transition climate risks and opportunities, including those related to water, and identify ways to enhance our organizational adaptive capacity and inform our business strategy. To examine potential physical risks (including water stress/drought and flooding), we conducted climate scenario analysis using the Shared Socioeconomic Pathways (SSP) scenarios across the 2030 and 2050 timeframes which leverage IPCC's AR6 climate models. Our preliminary assessment indicated that within our operations, only our owned site in Santa Clara (USA) could observe increasing impacts of both drought and flooding, potentially causing a risk of local power outages. According to the U.S.'s Energy Information Administration data, 11% of California's electrical grid mix is attributed to hydropower, therefore in Santa Clara water stress induced by prolonged drought events could potentially impact our electricity supply. Similarly, our supplier operating facilities in Taiwan could see increased risk of drought and flooding coupled with storm surges. However, due to the long-time horizons (2030 and 2050) of our climate scenario analysis, the identified potential risks are not financial forecasts, but broad conceptualizations of possible business and financial impact pathways. Additionally, our physical risk assessment did not consider any efforts around potential enhancement of our own or our suppliers' adaptive capacity and ability to respond to future impacts of climate change. Since our evaluation is still progress, we are unable to make precise financial estimates for these risks. We plan to conduct a more detailed asset-level quantitative assessment to quantify potential financial impacts of risks and opportunities.

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?

No

W4.3b

(W4.3b) Why does your organization not consider itself to have water-related opportunities?

	Primary reason	Please explain
Row 1	Evaluation in progress	Marvell is evaluating the potential for water-related opportunities, some of which may or may not be substantive (timeline of evaluation is FY 2023 - FY 2024). Our ESG team in collaboration with the internal Environment Working Group and the executive ESG Committee is developing and refining our water strategy through our site-level water impact assessment and development of site-level water plans to start evaluating potential water opportunities. In addition to measuring our annual corporate-wide water withdrawal, discharge, and consumption and conducting water risk assessment using WRI Aqueduct, we set a goal to develop and implement by FY24 water action plans at sites where we have control of water management, in order to drive water efficiency and reduction opportunities. Potential opportunities could include increasing the use of recycled water and improving water efficiency for irrigation and installing low-flow sinks and toilets. We also plan to conduct a more detailed water risk assessment within our supply chain (e.g., manufacturing, assembly and testing suppliers) and identify engagement opportunities with our suppliers and customers through RBA and the Alliance for Water Stewardship.

W6. Governance

W6.1

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

No, but we plan to develop one within the next 2 years

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 or committee	Responsibilities for water-related issues
Board-level committee	The Nominating and Governance Committee of the Board of Directors of Marvell has oversight over our ESG strategy, and in this capacity reviews and provides guidance on corporate social responsibility and sustainability matters, including those related to water, monitoring and evaluating the Corporate Guidelines and other corporate policies to ensure that all governance standards are being met. Water is a material issue for Marvell, and the Chief Operations Officer (COO) has

	an overall responsibility for the ESG strategy, including water-related issues. The COO works closely with the Executive Vice President and Chief Legal Officer , who ultimately raises the issue with the Board as part of ESG updates, both in the Nominating & Governance Committee's quarterly updates and in the annual full Board update. The company-wide water strategy is set by management and reviewed by the Board. This includes an agreement in making decisions around the company's water strategy, including the decision to conduct a TCFD-aligned climate scenario analysis that included assessment and evaluation of water-related risks, and the development of water action plans for sites where Marvell has operational control over water management.

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	Monitoring implementation and performance Monitoring progress towards corporate targets Overseeing acquisitions, mergers, and divestitures Overseeing major capital expenditures Reviewing and guiding annual budgets Reviewing and guiding business plans Reviewing and guiding corporate responsibility strategy Reviewing and guiding major plans of action	The Nominating and Governance Committee of the Board of Directors of Marvell has oversight over our ESG strategy, which also includes our climate program. The Nominating and Governance Committee is also responsible for overseeing disclosures regarding corporate social responsibility and sustainability matters, monitoring and evaluating the Corporate Guidelines and other corporate policies to ensure that all governance standards are being met. As water is a material issue for Marvell, the Chief Operations Officer (COO) who is the executive champion of the Environment Working Group has an overall responsibility for the environmental strategy implementation, including water-related issues. The COO works closely with the Executive Vice President and Chief Legal Officer, who ultimately raises the issue with the Board as part of ESG updates, both in the Nominating & Governance Committee's quarterly updates and in the annual full Board update. The company-wide ESG strategy (including water commitments and initiatives) is set by management and reviewed by the Board. An example of a water-related decision reviewed by the Board includes the decision to conduct a TCFD-aligned climate scenario analysis that included

		Reviewing and guiding risk management policies Reviewing and guiding strategy Reviewing innovation/R&D priorities	assessment and evaluation of water-related risks, and the development of water action plans for sites where Marvell has operational control over water management. The Nominating and Governance Committee may be assisted by the Audit Committee, whose duties include, among others, oversight of the quality and integrity of reporting practices of the company, including the review of financial information as it relates to climate. Although the Audit Committee's functions are separate from that of the Nominating and Governance Committee and are to ensure the quality of financial statements and accounting, auditing, and reporting practices of the company, the Audit Committee may assist in providing information to help with the decision-making process.

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	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	No, but we plan to address this within the next two years	Important but not an immediate priority	Marvell has started engagement with different business functions and executive leaders through a series of internal climate resilience workshops and discussions to better understand and evaluate Marvell's organizational exposure to climate-related risks and opportunities, including water-related risks, such as drought, water stress, and flooding. To strengthen Marvell's alignment with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD), the company is planning to enhance our management- and board-level competence on both physical and transition climate-related issues, including those related to water, through internal communication and workshops centered around climate change related risk management, building organizational adaptive capacity, and uncovering new business opportunities brought about by low-carbon transition.

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)

Chief Operating Officer (COO)

Water-related responsibilities of this position

Assessing water-related risks and opportunities
Managing water-related risks and opportunities
Setting water-related corporate targets
Monitoring progress against water-related corporate targets
Integrating water-related issues into business strategy
Managing annual budgets relating to water security
Managing major capital and/or operational expenditures related to low water impact products or services (including R&D)

Frequency of reporting to the board on water-related issues

Quarterly

Please explain

The COO is the executive champion of our Environment Working Group, and in that capacity provides executive oversight of Marvell's water strategy, including analysis of current and potential risks and makes recommendations on how policies, practices and disclosures can be adjusted to address current trends. The COO works closely with the General Counsel, who ultimately brings any material water-related issues to the attention of the Board of Directors and senior leadership, as appropriate. Examples of material water-related issues: water security that may affect our business continuity, most specifically in our supply chain, where good-quality freshwater is essential to ensure high quality of semiconductor product, as well as any water-related issues that could affect Marvell's brand and public perception. If a water-related disaster were to occur, the COO would report the incident to the CEO, as necessary and will escalate the issue to the Security and Crises Management teams.

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	No, not currently but we plan to introduce them in the next two years	

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

Yes, other

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?

Marvell's main mechanism of ensuring that our direct and indirect activities seeking to influence policy are consistent with our water policy and water commitments is through an internally established ESG Working Groups which provide cross-functional knowledge to develop, deliver, report and engage on Marvell's ESG efforts. Relevant topics covered by the Environment Working Group include water, climate, and waste. Each working group has an executive-level sponsor who sits on the ESG Committee and retains ultimate accountability for the Working Group's responsibilities. It will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. Marvell's ESG team also has regular communication with our Director of Government Affairs to ensure consistency in our policy engagement with our water stewardship and sustainability strategy. Should any inconsistency between our policy engagement activities and our water strategy be identified, our ESG team would bring this to the attention of Marvell cross-company ESG Committee and will escalate to the COO and CEO as appropriate.

W6.6

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

No, and we have no plans to do so

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?	Please explain

Long-term business objectives	No, water-related issues not yet reviewed, but there are plans to do so in the next two years	Marvell's ESG Working Groups and ESG Committee provide different levels of cross-functional oversight on the company's strategies, goals, and approaches to managing ESG topics such as climate and water. The ESG Committee will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. As the work of these ESG groups evolve, integration of water-related considerations into long-term business objectives is expected to progress as well.
Strategy for achieving long-term objectives	No, water-related issues not yet reviewed, but there are plans to do so in the next two years	Marvell's ESG Working Groups and ESG Committee provide different levels of cross-functional oversight on the company's strategies, goals, and approaches to managing ESG topics such as climate and water. The ESG Committee will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. As the work of these ESG groups evolve, integration of water-related considerations into the strategy to achieve long-term objectives is expected to progress as well.
Financial planning	No, water-related issues not yet reviewed, but there are plans to do so in the next two years	Marvell's ESG Working Groups and ESG Committee provide different levels of cross-functional oversight on the company's strategies, goals, and approaches to managing ESG topics such as climate and water. The ESG Committee will also consider and inform the Board of Directors, the Board of Directors' Committees, and senior leadership, as appropriate, on current and emerging ESG matters that may affect the business, operations, performance or public image of the Company or are otherwise pertinent to the Company and its stakeholders, and will make recommendations on how the Company's policies, practices and disclosures can adjust to or address current trends. As the work of these ESG groups evolve, integration of water-related considerations into financial planning is expected to progress as well.

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)

0

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

0

Water-related OPEX (+/- % change)

0

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

0

Please explain

Marvell does not track water-related CAPEX and OPEX separately. Due to reasons of propriety and confidential nature, 0 has been reported for all categories for disclosure.

W7.3

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

	Use of scenario analysis	Comment
Row 1	Yes	

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	Preparing for and responding to climate and water-related risks and opportunities in our direct operations and supply chain is one of the key aspects of our business strategy. In	Our preliminary scenario analysis indicated that within our operations, only our owned site in Santa Clara, California (USA) could observe increasing impacts of both drought and flooding	With the results of this initial analysis, we have been able to inform our key business functions, including Global Real Estate, Procurement, Legal, and Finance,

		FY23 (reporting period), we completed an initial climate risk screening that was followed by a quantitative scenario analysis aligned with the TCFD recommendations. To obtain a deeper view into our top physical risks (that included water stress/drought and flooding) we applied three Shared Socioeconomic Pathways (SSP) scenarios across the 2030 and 2050 timeframes which leverage IPCC's AR6 climate models and represent lower and upper boundary conditions and support our analysis under both low-carbon transition as well as business-as-usual, worse-case scenario emissions trajectories. The SSP1-2.6 scenario (aligned with RCP 2.6 and 1.8°C warming) served as a "best case scenario", in which global CO2 emissions are cut severely, but not as fast as in the 1.5°C scenario, reaching net-zero after 2050. The SSP2-4.5 (aligned with RCP 4.5 and 2.7°C warming) is a "middle of the road scenario", in which CO2 emissions hover around current levels before starting to fall mid-century, but do not reach net-zero by 2100. Finally, the SSP5-8.5 scenarios (aligned with RCP 8.5 and 4.7°C warming) was considered a "pessimistic scenario", in which current CO2 emissions levels	coupled with local power outages. According to the U.S.'s Energy Information Administration data, 11% of California's electrical grid mix is attributed to hydropower, therefore in Santa Clara water stress induced by prolonged drought events could potentially impact our electricity supply. Similarly, our supplier operating facilities in Taiwan could see increased risk of drought and flooding coupled with storm surges. Due to the long-time horizons (2030 and 2050) analyzed for our climate scenario analysis, the identified potential risks are not financial forecasts, but broad conceptualizations of possible business and financial impact pathways. Additionally, our physical risk assessment did not consider any efforts around potential enhancement of our own or our suppliers' adaptive capacity and ability to respond to future climate-related impacts.	test the resilience of our management processes in the face of climate change, and begin the development of strategies to integrate the findings into our ERM process and business planning. Example of actions that we took as a result: (1) Developing water action plans for sites where we have operational control to enhance our operational resilience and preparedness to potential water risks, such as drought. (2) Conducting more detailed supplier risk assessment to better understand our suppliers' exposure to potential climate and water-related risks and how they are enhancing their own risk preparedness and operational resilience.

		roughly double by 2050. Our physical risk scenario analysis assessed potential impacts of climate change on a number of locations, including owned and leased sites within our direct operations and key direct supplier sites.		

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

Marvell, as a fabless semiconductor company, does not manufacture our products in our direct operations and we partner with third-party suppliers. Therefore, we do not anticipate setting an internal price on water. Water usage may grow over time as our business expands. Marvell is continually tracking our water usage and evaluating opportunities for efficiencies within our operations. Currently, we are in the process of developing a water action plan for the facilities where we have operational control over water that will help us formalize our efforts going forward.

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	Primary reason for not classifying any of your current products and/or services as low water impact	Please explain
Row 1	No, but we plan to address this within the next two years	Important but not an immediate business priority	Since Marvell's products contain embedded water (i.e., water used during manufacturing, assembly and testing processes), we set a goal to conduct life cycle assessment on key product families to better understand water-related impacts of our products. WE plan to perform our first product LCA later in FY 2024.

W8. Targets

W8.1

(W8.1) Do you have any water-related targets?

No, but we plan to within the next two years

W8.1c

(W8.1c) Why do you not have water-related target(s) and what are your plans to develop these in the future?

	Primary reason	Please explain
Row 1	We are planning to introduce a target within the next two years	Although Marvell's most significant environmental impacts occur in our supply chain, we recognize that we have an important opportunity to contribute to positive solutions by managing the water-related impacts of our own facilities. Currently, we are in the process of developing a water action plan for the facilities where we have operational control over water that will help us formalize our efforts going forward. In addition, we have measures in place at our owned facilities to improve water use efficiency, such as utilizing recycled water in landscaping and installing low-flow faucets and toilets at our Santa Clara offices. Over the next year, we will be working to gather more data on supplier water management practices and identify areas for improvement and water reduction and management opportunities.

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. Plastics

W10.1

(W10.1) Have you mapped where in your value chain plastics are used and/or produced?

	Plastics mapping	Please explain
Row 1	Not mapped – and we do not plan to within the next two years	

W10.2

(W10.2) Across your value chain, have you assessed the potential environmental and human health impacts of your use and/or production of plastics?

	Impact assessment	Please explain
Row 1	Not assessed – and we do not plan to within the next two years	

W10.3

(W10.3) Across your value chain, are you exposed to plastics-related risks with the potential to have a substantive financial or strategic impact on your business? If so, provide details.

	Risk exposure	Please explain
Row 1	Not assessed – and we do not plan to within the next two years	

W10.4

(W10.4) Do you have plastics-related targets, and if so what type?

	Targets in place	Please explain
Row 1	No – and we do not plan to within the next two years	

W10.5

(W10.5) Indicate whether your organization engages in the following activities.

	Activity applies	Comment
Production of plastic polymers	No	
Production of durable plastic components	No	
Production / commercialization of durable plastic goods (including mixed materials)	No	
Production / commercialization of plastic packaging	No	
Production of goods packaged in plastics	No	
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	No	

W11. 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.

W11.1

(W11.1) Provide details for the person that has signed off (approved) your CDP water response.

	Job title	Corresponding job category
Row 1	Chief Operations Officer (COO)	Chief Operating Officer (COO)