Crown Holdings - Water Security 2021

W0. Introduction

W0.1

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

Crown Holdings, Inc., through its affiliated companies, is a leading supplier of beverage packaging, food packaging, aerosol packaging, metal closures, specialty packaging and transit packaging products to consumer companies around the world. Crown is the leader in metal packaging technology. With operations in 47 countries employing over 33,000 people and net sales of $11.6 billion, Crown operations are divided in four divisions; America, Europe, Asia Pacific and Transit Packaging.

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	January 1 2020	December 31 2020

W0.3

(W0.3) Select the countries/areas for which you will be supplying data.

Australia
Barbados
Belgium
Brazil
Bulgaria
Cambodia
Canada
China
Côte d'Ivoire
Denmark
Finland
France
Germany
Ghana
Greece
Hungary
India
Indonesia
Ireland
Italy
Jamaica
Jordan
Madagascar
Malaysia
Mexico
Morocco
Myanmar
Netherlands
New Zealand
Poland
Portugal
Republic of Korea
Russian Federation
Saudi Arabia
Singapore
Slovakia
Spain
Sweden
Switzerland
Thailand
Trinidad and Tobago
Tunisia
Turkey
United Arab Emirates
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 financial control is exercised

W0.6

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

Yes

W0.6a

(W0.6a) Please report the exclusions.

Exclusion	Please explain
Out of Crown's 273 global sites, 37 are part of the Transit Packaging division that have small offices and warehouses where water is not used or consumed for production purposes.	The Transit Packaging division have small sales offices that do not have significant amounts of water use to report, the amount is considered negligible and some do not use water at all.

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	Important	VITAL - Water is considered vital for Crown's operations, especially in the manufacturing process of beverage cans and glass bottles. Water is required for the following manufacturing processes: cooling systems, forming, washing, rinsing cans and glass bottles and separating the sand for glass production. Even though Crown's facilities need fresh water inputs, most of this water returns to the water system and zero water is present in our final product, hence, besides the evaporation, Crown's final product does not contain water. IMPORTANT –Crown understands that water is important for our suppliers of aluminium and steel for cooling purposes in the extrusion processes and we are engaging with them to understand their water footprint and actions taken to preserve water.
Sufficient amounts of recycled, brackish and/or produced water available for use	Neutral	Neutral	No brackish or produced water is used. Crown's processes utilize mainly freshwater. Though freshwater is recirculated in our process, there is no additional source of recycled water. Crown is analysing the potential use of membrane bioreactors (MBR) to increase water re-use and limit discharges in the near future. Crown Brazil implemented the MBR in 2020.

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%	100% of Crown's total volume withdrawn is monitored by meters and/or billing.
Water withdrawals – volumes by source	100%	100% of Crown's total volume withdrawn is monitored and identified by municipal, superficial or groundwater by metering and/or billing.
Entrained water associated with your metals & mining sector activities - total volumes [only metals and mining sector]	<Not Applicable>	<Not Applicable>
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	<Not Applicable>	<Not Applicable>
Water withdrawals quality	100%	For sites that use water in their operation, the water entering is monitored and the data is kept within operational controls. As far as specific parameters tested for, the water used in the washers requires a specific standard of hardness and conductivity, free acid, pH and temperature. The water at most locations is tested once per shift, or three times a day. With that, the quality of the water that goes into the process is always monitored and has to be within the specifications for quality control purposes.
Water discharges – total volumes	100%	All Crown's plants that require a wastewater treatment system have records of wastewater quality discharged, according to local compliance requirements and local regulation. Other plants that discharge directly to municipal waste water treatment facilities comply with the municipal discharge requirements.
Water discharges – volumes by destination	100%	The facilities that discharge into rivers have their volumes in 100% compliance with their permits. Crown has 16 sites that discharge water into rivers (only 1 site discharges in the ocean) according to requirements of local permits. 6% of plants discharge to rivers (and ocean) and 94% discharge to municipal waste water treatment plants. Data regarding wastewater volumes and discharge destination is tracked and recorded at the plant level and controlled at regional and corporate level.
Water discharges – volumes by treatment method	100%	Crown's wastewater is treated according to the type of manufacturing processes. 25% of plants treat wastewater using an on-site wastewater treatment system, 58% send wastewater to municipal wastewater treatment plants, 18% do not use water in production and only discharge to the sewage system.
Water discharge quality – by standard effluent parameters	100%	All plants manage discharge parameters required by the local regulations, according to the type of wastewater treatment used and discharge location. Plants that treat wastewater on-site monitor at minimum BOD and COD parameters, in addition to parameters required locally.
Water discharge quality – temperature	100%	By nature of our manufacturing process, our facilities do not yield high temperature water upon discharge. Wastewater discharge temperatures comply with local regulation.
Water consumption – total volume	100%	All of Crown sites keep track of their total water inputs. Municipal, groundwater, rain and surface water are monitored.
Water recycled/reused	1-25	Crown production processes recirculate water in the washing and rinsing processes, where water is reused within the stages of the washer. Water reuse is capped at 25% in order to maintain sanitation standards.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Crown offers clean water access, sanitation and hygiene to all of its employees globally. Crown has set a goal to verify access to WASH annually and the information is verified annually by internal audits.

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	9499.55	Lower	For the fiscal year of 2019, the total withdrawal was 9,671.473 megalitres. NOTE - The 2019 data has been adjusted after reporting to CDP due to improvements on the data collection and its accuracy.
Total discharges	7292.94	Lower	For the fiscal year of 2019, the total discharge was 7,447.034 megalitres.
Total consumption	2206.61	Lower	For the fiscal year of 2019, the total consumption was 2,224.439 megalitres.

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	Lower	WRI Aqueduct	For 2020 the amount of water withdrawn from areas with water stress was 27% compared to the total amount withdrawn by Crown that year. For 2019 the percentage was of 28% compared to the total amount withdrawn for that year. NOTE - The 2019 data has been adjusted after reporting to CDP due to improvements on the data collection and its accuracy.

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	778.44	Lower	For the year of 2019 the amount of water withdrawn from Rivers and rainwater was of 925.89 megalitres.
Brackish surface water/Seawater	Not relevant	<Not Applicable>	<Not Applicable>	Crown does not use this type of water resource.
Groundwater – renewable	Relevant	2007.88	Lower	For the year of 2019 the amount of Groundwater withdrawn was 2,014.23 megalitres.
Groundwater – non-renewable	Not relevant	<Not Applicable>	<Not Applicable>	Crown does not use this type of water resource.
Produced/Entrained water	Not relevant	<Not Applicable>	<Not Applicable>	Crown does not use nor produce this type of water resource.
Third party sources	Relevant	9499.55	Lower	For the year of 2019 the amount of municipal withdrawn was 9,671.47 megalitres.

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	1139.49	Much lower	For 2019 the estimated volume of water discharged in rivers was 1,538.28 megalitres.
Brackish surface water/seawater	Relevant	74.7	Higher	For 2019 the estimated volume of water discharged by the Dubai site into the harbour was 58.7 megalitres.
Groundwater	Not relevant	<Not Applicable>	<Not Applicable>	Crown does not discharge water to groundwater sources.
Third-party destinations	Relevant	6078.76	Higher	For 2019 the estimated volume of water discharged by Crown in third- parties was 5,850.05.

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	Relevant	6214.68	About the same	61-70	In 2019 the estimated amount of water treated via onsite wastewater system treatment was 6,299.35 megalitres. The volume treated represents 85% of the total water discharged. For 2020, also 85% of the total water discharged was treated by a tertiary treatment. The volume treated increased due to the opening of 2 new beverage sites with a WWTS on site.
Secondary treatment	Please select	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Primary treatment only	Relevant	96.36	Lower	1-10	In 2019 the estimated amount of water treated onsite by Primary treatment only was 109.55 megalitres, representing 1.5% of the total water discharged. For 2020 it represents 1.3% of the total water discharged.
Discharge to the natural environment without treatment	Please select	<Not Applicable>	<Not Applicable>	<Not Applicable>	Crown does not discharge water to the natural environment without treatment.
Discharge to a third party without treatment	Relevant	794.85	Lower	11-20	In 2019 the estimated amount of water discharged to a third party without a treatment was 990.50 megalitres, 13% of the total volume discharged. For 2020 it represents 11% of the total water discharged.
Other	Relevant	154.34	Much lower	1-10	In 2019, the estimated amount of water discharged to sewage was 160.53 megalitres.

W1.4

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

Yes, our customers or other value chain partners

W1.4c

(W1.4c) What is your organization's rationale and strategy for prioritizing engagements with customers or other partners in its value chain?

Crown prioritizes regulatory and customer engagement and requests and then focuses on partners in our value chain.

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

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.

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?
Up to 1 year

Type of tools and methods used
Tools on the market
International methodologies
Databases
Other

Tools and methods used
WRI Aqueduct
IPCC Climate Change Projections
Regional government databases
Internal company methods
External consultants
National-specific tools or standards

Comment
Crown assesses water risk in house, doing both desktop assessment utilizing information from publicly available sources, such as WRI's Water Aqueduct and visiting our operations and utilizing local data provided by our plants. Additionally, Crown assesses water vulnerability and feasibility before installing a new greenfield site.

Supply chain

Coverage
Full

Risk assessment procedure
Water risks are assessed in an environmental risk assessment

Frequency of assessment
Every two years

How far into the future are risks considered?
3 to 6 years

Type of tools and methods used
Other

Tools and methods used
Internal company methods
External consultants
National-specific tools or standards

Comment
Material risks are determined in the risk assessment with suppliers that represent 80% of our purchase spend. Most of our suppliers are certified to ISO 14001. Most of their plants have a comprehensive Environmental, Health and Safety (EHS) management system, and all of their manufacturing sites are certified to the ISO 14001 Environmental Management Standard. Most suppliers also focus on driving operational excellence in all we do, which includes maximizing the performance of our assets and using resources wisely.

Other stages of the value chain

Coverage
None

Risk assessment procedure
<Not Applicable>

Frequency of assessment
<Not Applicable>

How far into the future are risks considered?
<Not Applicable>

Type of tools and methods used
<Not Applicable>

Tools and methods used
<Not Applicable>

Comment

W3.3b

(W3.3b) Which of the following contextual issues are considered in your organization's water-related risk assessments?

	Relevance & inclusion	Please explain
Water availability at a basin/catchment level	Relevant, always included	Crown considers the local basin availability, quality and stress level, especially when building a new greenfield plant.
Water quality at a basin/catchment level	Relevant, always included	Crown considers the local basin availability, quality and stress level, especially when building a new greenfield plant.
Stakeholder conflicts concerning water resources at a basin/catchment level	Please select	
Implications of water on your key commodities/raw materials	Please select	
Water-related regulatory frameworks	Relevant, always included	Regulatory frameworks are assessed to understand upcoming and future requirements impacting the availability and quality of water for our plants and the surrounding communities.
Status of ecosystems and habitats	Relevant, always included	Crown's manufacturing sites are often located in industrial zones in urban settings, discharging to municipal water treatment plants. For the locations that discharge into rivers and the ocean after onsite treatment this is always considered in the risk-assessment.
Access to fully-functioning, safely managed WASH services for all employees	Relevant, always included	Crown is committed to ensuring access to safe drinking water, hygiene and sanitation to its employees at the manufacturing site level.
Other contextual issues, please specify	Please select	

W3.3c

(W3.3c) Which of the following stakeholders are considered in your organization's water-related risk assessments?

	Relevance & inclusion	Please explain
Customers	Relevant, always included	
Employees	Relevant, always included	
Investors	Not relevant, included	Crown considers investors priority regions in its water vulnerability assessments.
Local communities	Relevant, always included	
NGOs	Relevant, always included	Crown considers NGOs as potential partners for local water stewardship projects.
Other water users at a basin/catchment level	Relevant, always included	
Regulators	Relevant, always included	
River basin management authorities	Relevant, always included	
Statutory special interest groups at a local level	Relevant, sometimes included	
Suppliers	Relevant, always included	Crown water vulnerability assessment considers suppliers location and seeks to identify overlaps and potential opportunities for collaboration.
Water utilities at a local level	Relevant, always included	
Other stakeholder, please specify	Please select	

W3.3d

(W3.3d) 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.

Crown assesses water related risk through undertaking a desktop assessment of various water quality and availability parameters, using WRI's Water Aqueduct and WWF's Risk Filter to identify scarcity levels, and engaging with the above stakeholders to take into consideration their influence and potential collaboration with Crown's plants locally.

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?

Those are risks that have the potential to impact Crown's ability to operate in the short and medium-term, considering water availability, scarcity, quality, access, regulatory impositions and cost. However, alternatives are available and no substantive strategic or financial impact is imposed in the business.

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	Risks exist, but no substantive impact anticipated	Risks that have the potential to impact Crown's ability to operate in the short and medium-term, considering water availability, scarcity, quality, access, regulatory impositions and cost are assessed, however, alternatives are available and no substantive strategic or financial impact is found. Additionally, Crown is evaluating its water footprint with the aim to replenish water consumed in its operations in high risk watersheds as a step to contribute to the basins where it operates. Because Crown's locations are spread out in many countries there is no concentrated risk in any one of the watersheds we depend on.

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	Crown is engaging with suppliers to map their water footprint and understand where they are mostly exposed to substantive financial or strategic impact.

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
Other, please specify (Decrease water consumption)

Company-specific description & strategy to realize opportunity
Crown has set a goal to reduce its water use by 20% by 2025. The company main levers to achieve this goal include the below actions, which are undertaken globally: - Measure, monitor and report water consumption company-wide - Identify and eliminate losses and leaks - Install flowmeters to measure and report water consumption and enhance water conservation - Increase wastewater systems' efficiency - Identify and incentivize water re-use opportunities - Identify, benchmark and replicate water use efficiency best practices - Pilot and replicate new and hybrid technologies towards Minimal to Zero Liquid Discharge Here are examples of how our plants implement water efficiency locally: -A full maintenance calendar is set up for the year, that includes piping, tanks and utilities area, site and equipment. -Adjustments in the water nozzles regarding angles and pressure. -Oil - water separator - washers have a coalescer on their washers. -Fixing leaks in pipes and washer tanks.

Estimated timeframe for realization
Current - up to 1 year

Magnitude of potential financial impact
Low-medium

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

Type of opportunity
Efficiency

Primary water-related opportunity
Improved water efficiency in operations

Company-specific description & strategy to realize opportunity
25k savings.

Estimated timeframe for realization
Current - up to 1 year

Magnitude of potential financial impact
Low-medium

Are you able to provide a potential financial impact figure?
Yes, a single figure estimate

Potential financial impact figure (currency)
25000

Potential financial impact figure – minimum (currency)
<Not Applicable>

Potential financial impact figure – maximum (currency)
<Not Applicable>

Explanation of financial impact
Jordan plant focused on washer improvements, replacing nozzles and installing new shutoff valves. Employees were also encouraged to activate the manufacturing line's standby mode when not in use. Other changes included installing new pumps for wastewater treatment and variable frequency drives in the facility's cooling towers to reduce energy and water usage. These multiple changes allowed for a reduction in water consumption by more than 2.5 million gallons in 2020, which is especially crucial in this water-scarce region.

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	Description of business dependency on water Description of business impact on water Description of water-related performance standards for direct operations Description of water-related standards for procurement Reference to international standards and widely-recognized water initiatives Company water targets and goals Commitment to align with public policy initiatives, such as the SDGs Commitments beyond regulatory compliance Commitment to water-related innovation Commitment to stakeholder awareness and education Commitment to water stewardship and/or collective action Commitment to safely managed Water, Sanitation and Hygiene (WASH) in the workplace Commitment to safely managed Water, Sanitation and Hygiene (WASH) in local communities Acknowledgement of the human right to water and sanitation Recognition of environmental linkages, for example, due to climate change	Please find attached a summary of Crown's water goals. These goals are public online on Crown's Website, along with Crown's Water Stewardship Policy. www.crowncork.com/sustainability

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	Crown's Board of Directs Nominating and Corporate Governance Committee has responsibilities in its charter to: Periodically review and assess the Company's environmental, social, and governance programs, policies, and practices and make recommendations to the Board in furtherance of the sustainable growth of the Company's businesses.

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 Reviewing and guiding business plans Reviewing and guiding major plans of action Reviewing and guiding strategy Reviewing and guiding corporate responsibility strategy Setting performance objectives	The Board of Directors approved the new Sustainability Program that was launched in July of 2020 which takes into consideration evaluating water related issues.

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, please specify (Corporate Sustainability Committee, chaired by the Vice-President of Global Sustainability and with the Chief Operating Officer as a committee member.)

Responsibility

Both assessing and managing water-related risks and opportunities

Frequency of reporting to the board on water-related issues

Half-yearly

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	C-suite team and direct reports receive incentives for implementing the entire sustainability agenda, which includes 20 goals, out of which 4 are water related.

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	Chief Operating Officer (COO)	Reduction of water withdrawals Reduction in consumption volumes Improvements in efficiency - direct operations Improvements in efficiency - product-use Improvements in waste water quality - direct operations Increased access to workplace WASH Implementation of water-related community project	

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?

No

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)

Crown_2020_crown_annual_report.pdf

The information can be found on pages 29 and 33.

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	Crown's water risk is considered during long term business planning. Water costs and water scarcity/availability are assessed when determining placement of new facilities and type of equipment to be placed within those locations.
Strategy for achieving long-term objectives	Yes, water-related issues are integrated	5-10	Crown recently launched the Twentyby30 program where there are specific goals. Of 20 goals, water related issues make up four of them. One example is the 100% replenishment of the water consumed in our operations back to high scarcity risk watersheds. Crown is currently engaging with partners and through others including nature-based solutions for water replenishment, have the ambition to have this goal achieved by 2030.
Financial planning	Yes, water-related issues are integrated	5-10	Water related issues are integrated into financial planning. Water costs and water scarcity/availability are assessed when determining placement of new facilities and type of equipment to be placed within those locations. Potential water savings projects are evaluated each year and the CAPEX financial planning process. Each year a number of water related projects are funded.

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)
4.5

Anticipated forward trend for CAPEX (+/- % change)
2.5

Water-related OPEX (+/- % change)
-2

Anticipated forward trend for OPEX (+/- % change)
-4

Please explain
The percent spend on water-related CAPEX has been increasing each year, while the percent of water-related operating expenditure has been declining. As our organization has a 2025 goal to reduce water usage by 20%, we anticipate this trend to decrease water-related operating expenditure to continue and will be investing even more of our Sustainability CAPEX spend for water projects next year. This year, the Sustainability CAPEX funding allocation was over twice the quantity spent last year.

W7.3

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

	Use of climate-related scenario analysis	Comment
Row 1	No, but we anticipate doing so within the next two years	Crown is expanding the tools we use for climate-related analysis as it relates to our water usage. We have committed to Science Based Targets and are evaluating implementing the Task Force on Climate-Related Disclosures (TCFD) as an organization. We are exploring options to expand our water analysis so that we may develop resilient strategies for a low-carbon business model. We currently utilize WRI Aqueduct modelling tool and are evaluating other options to get a more robust analysis. We also quantified the carbon impact of our water usage this year for the first time. We will also be using scenario analysis to identify whereby new technologies can offer increased resilience to our business model.

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, but we are currently exploring water valuation practices

Please explain

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	Company-wide targets and goals Site/facility specific targets and/or goals Basin specific targets and/or goals	Targets are monitored at the corporate level Goals are monitored at the corporate level	Through our Twentyby30 program, we have company-wide targets and goals which are cascaded down through the regional and site/facility specific level. Goals and targets are monitored at a corporate and regional level through the use of roadmaps. The four water-related goals within the Twentyby30 program include the following: - Reduce water usage in our operations by 20% by 2025. - Maintain a 100% track record of meeting local wastewater standards. - Ensure all employees have continued access to safe water, sanitation and hygiene. Specific to our Twentyby30 goal of water replenishment, we have a specific goal to replenish water withdrawn from water-stressed basins and that goal is as follows: - Replenish 100% of the water consumed in our operations back to high scarcity risk watersheds.

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 withdrawals

Level
Company-wide

Primary motivation
Reduced environmental impact

Description of target
Crown is committed to reduce its water usage with a 2019 baseline in 20% by 2025.

Quantitative metric

Baseline year
2019

Start year
2020

Target year
2025

% of target achieved
2

Please explain
Crown has experienced significant growth and has built and is in the process of building new production sites. Even so, last year, we reduced our overall water consumption by 2%.

Target reference number
Target 2

Category of target
Water pollution reduction

Level
Company-wide

Primary motivation
Reduced environmental impact

Description of target
Maintain a 100% track record of meeting local wastewater standards, measured annually.

Quantitative metric
Other, please specify (Meet the local wastewater standard and make sure they are recorded.)

Baseline year
2019

Start year
2020

Target year
2025

% of target achieved

Please explain
Last year Crown had no penalties due to non- compliance with water quality discharge.

Target reference number
Target 3

Category of target
Water, Sanitation and Hygiene (WASH) services in the workplace

Level
Company-wide

Primary motivation
Corporate social responsibility

Description of target
Ensure all employees have continued access to safe water, sanitation and hygiene.

Quantitative metric
Proportion of employees using safely managed sanitation services, including a hand-washing facility with soap and water

Baseline year
2019

Start year
2020

Target year
2025

% of target achieved

Please explain
Crown is committed to ensuring all employees have continued access to safe water, sanitation and hygiene to ensure continued access to WASH for all employees.

W8.1b

(W8.1b) Provide details of your water goal(s) that are monitored at the corporate level and the progress made.

Goal
Watershed remediation and habitat restoration, ecosystem preservation

Level
Company-wide

Motivation
Increase freshwater availability for users/natural environment within the basin

Description of goal
By 2030 have 100% of the water consumed replenished back to high scarcity risk watersheds.

Baseline year
2019

Start year
2020

End year
2030

Progress
Crown is currently engaging with partners and through others including nature-based solutions for water replenishment, we aim to have our first project implemented by the end of this year.

W9. Verification

W9.1

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

W9.1a

(W9.1a) Which data points within your CDP disclosure have been verified, and which standards were used?

Disclosure module	Data verified	Verification standard	Please explain
W1 Current state	Water discharge by destination	Other, please specify (Data is verified by a Third Part Auditor.)	Water discharge quality is monitored by the ISO 14001 auditing and also ISO 9001. Local requirements also demand tests via external labs.
W1 Current state	Water discharge by quality	Other, please specify (Data is verified by a Third part Auditor.)	Water discharge quality is monitored by the ISO 14001 auditing and also ISO 9001. Local requirements also demand tests via external labs.
W1 Current state	Water withdrawal by source: GROUNDWATER MUNICIPAL SURFACE RAIN	Other, please specify	ISO 14065:2013 “Requirements for Greenhouse Gas Validation and Verification Bodies for use in Accreditation or Other Forms of Recognition”

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 Executive Officer	Chief Executive Officer (CEO)

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)].

No

SW. Supply chain module

SW0.1

(SW0.1) What is your organization's annual revenue for the reporting period?

	Annual revenue
Row 1	11575000000

SW0.2

(SW0.2) Do you have an ISIN for your organization that you are willing to share with CDP?

Yes

SW0.2a

(SW0.2a) Please share your ISIN in the table below.

	ISIN country code	ISIN numeric identifier (including single check digit)
Row 1	US	2283681060

SW1.1

(SW1.1) Could any of your facilities reported in W5.1 have an impact on a requesting CDP supply chain member?

SW1.2

(SW1.2) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
Row 1	Yes, for all facilities	All Crowns operating sites are identified with geolocation

SW1.2a

(SW1.2a) Please provide all available geolocation data for your facilities.

Identifier	Latitude	Longitude	Comment
Agoncillo, SPAIN	42.43408	-2.27774	42° 26' 2.688" N 2° 16' 39.864" W
Alcochete, PORTUGAL	38.71204	-8.91788	38° 42' 43.344" N 8° 55' 4.368" W
Alsip, USA	41.682612	-87.756766	41° 40' 9.9012" N 87° 45' 50.5236" W
Alsip Technical Center, USA	41.68111	-87.7588	41° 40' 51.996" N 87° 45' 31.68" W
Andalucia, SPAIN	37.24036	-5.13347	37° 14' 25.296" N 5° 8' 0.492" W
Aprilia, ITALY	41.59749	12.64409	41° 35' 50.964" N 12° 38' 38.724" E
Asturias, SPAIN	43.42607	-5.83903	43° 25' 33.852" N 5° 50' 20.508" W
Athy, IRELAND	52.99197	-6.98698	52° 59' 31.092" N 6° 59' 13.128" W
Bangi, MALAYSIA	2.92733	101.76814	2° 55' 38.388" N 101° 46' 5.304" E

Identifier	Latitude	Longitude	Comment
Bangpoo, THAILAND	13.56906	100.6453	13° 34' 8.616" N 100° 38' 43.08" E
Barbados, BARBADOS	13.125633	-59.456055	13° 7' 32.2818" N 59° 27' 21.7974" W
Batesville, USA	34.344717	-89.921965	34° 20' 40.9812" N 89° 55' 19.074" W
Battipaglia, ITALY	40.59166	15.00819	40° 35' 29.976" N 15° 0' 29.484" E
Belcamp, USA	39.477228	-76.232613	39° 28' 38.0244" N 76° 13' 57.4068" W
Bogota, COLOMBIA	4.965246	-73.961133	4° 57' 54.8886" S 73° 57' 40.0788" W
Botcherby, UK	54.88844	-2.90527	54° 53' 18.384" N 2° 54' 18.972" W
Braunstone, UK	52.63055	1.197	52° 37' 49.98" N 1° 11' 49.2" W
Cabreuva, BRAZIL	-23.250352	-47.076388	23° 15' 1.2666" N 47° 4' 34.9968" W
Calerno, ITALY	44.745445	10.491802	44° 44' 43.6014" N 10° 29' 30.4866" E
Calgary, CANADA	50.987153	-113.970542	50° 59' 13.7502" N 113° 58' 13.9506" W
Cambodia, CAMBODIA	11.52356	104.837128	11° 31' 24.816" N 104° 50' 13.6608" E
Carlisle, UK	54.88987	-2.93525	54° 53' 23.532" N 2° 56' 6.9" W
Carnaud Maroc, MOROCCO	33.58831	-7.61138	33° 32' 41.4954" N 7° 39' 41.0898" W
Carpentras, FRANCE	44.04004	5.044	44° 2' 24.1440" N 5° 2' 38.4000" E
Chatillon, FRANCE	47.869041	4.57223	47° 52' 8.5476" N 4° 34' 20.028" E
Cheraw, USA	34.684445	-79.891149	34° 41' 4.0014" N 79° 53' 28.1358" W
Closures Seville, SPAIN	37.294338	-5.996308	37° 17' 39.6168" N 5° 59' 46.7088" W
Concarneau Kersale, FRANCE	47.883392	-3.920305	47° 53' 0.2112" N 3° 55' 13.1016" E
Concarneau Villeneuve, FRANCE	47.894506	-3.915391	47° 53' 40.2246" N 3° 54' 55.4076" W
Connellsville, USA	39.995349	-79.590367	39° 59' 43.26" N 79° 35' 25.3242" W
Conroe, USA	30.34404	-95.472047	30° 20' 38.5434" N 96° 28' 19.3692" E
Crawfordsville, USA	40.097048	-86.942298	40° 5' 49.3728" N 86° 56' 32.2722" W
Crown Closures Machinery, USA	39.725924	82.627578	39° 43' 33.3258" N 82° 37' 39.2838" W
Custines, FRANCE	48.78487	6.13801	48° 47' 5.532" N 6° 8' 16.836" E
Da Nang, VIETNAM	10.78362	106.950699	10° 47' 1.032" N 106° 57' 2.5164" E
Dammam, SAUDI ARABIA	26.43928	50.09446	26° 26' 21.408" N 50° 5' 40.056" E
Dayton, USA	39.684709	-84.222445	39° 41' 4.9518" N 84° 13' 20.8014" W
Decatur, USA	39.934831	-89.076085	39° 56' 1.2552" N 89° 4' 33.8268" W
Dong Nai, VIETNAM	10.78362	106.950699	10° 47' 1.032" N 106° 57' 2.5164" E
Dubai, UNITED ARAB EMIRATES	25.045655	55.13293	25° 2' 44.358" N 55° 7' 58.548" E
Ensenada, MEXICO	31.874713	-116.609248	31° 52' 28.9662" N 116° 36' 33.2922" W
Estancia, BRAZIL	-11.123037	-37.382084	11° 7' 22.9332" S 37° 22' 55.5018" W
Extremadura, SPAIN	38.9332	-6.34199	38° 55' 59.52" N 6° 20' 31.164" W
Monterrey Cans , MEXICO	25.736811	-100.316577	25° 44' 12.5232" N 100° 18' 59.6766" W
Faribault, USA	44.290949	-93.29342	44° 17' 27.42" N 93° 17' 36.3114" W
Galicia, SPAIN	42.5182	-8.67446	42° 31' 5.52" N 8° 40' 28.056" W
Ghana, GHANA	5.58053	-0.22168	5° 34' 49.908" N 0° 13' 18.048" W
Goleniow, POLAND	53.56837	14.83553	53° 34' 6.132" N 14° 50' 7.908" E
Guadalajara, MEXICO	20.591226	-103.279897	20° 36' 0.9468" N 103° 16' 39.6582" W
H-V Industries, USA	40.135978	-74.978947	40° 8' 9.5238" N 74° 58' 44.2128" W
Had Yai Foodcan, THAILAND	6.95806	100.55634	6° 57' 29.016" N 100° 33' 22.824" E
Hadyai, THAILAND	7.05633	100.510262	7° 3' 22.788" N 100° 30' 36.9432" E
Hangzhou, CHINA	30.325958	120.361757	30° 19' 33.4482" N 120° 21' 42.3246" E
Hanoi, VIETNAM	20.866976	105.866042	20° 52' 1.1136" N 105° 51' 57.7548" E
Hanover, USA	39.832253	-76.974927	39° 49' 56.1108" N 76° 58' 29.7366" W
Heshan, CHINA	22.63483	120.84915	22° 38' 5.391" N 120° 50' 56.9394" E
Hoorn, NETHERLANDS	52.63993	5.10253	52° 38' 23.748" N 5° 6' 9.108" E
Indonesia, INDONESIA	-6.2969	107.29376	6° 17' 48.84" S 107° 17' 37.536" E
Izmit, TURKEY	40.718539	30.05741	40° 43' 6.7398" N 30° 3' 26.679" E
Jamaica, JAMAICA	18.001899	-76.829841	18° 0' 6.8364" N 76° 49' 47.4276" W
Jeddah, SAUDI ARABIA	21.39997	39.23897	21° 23' 59.892" N 39° 14' 20.292" E
Jordan, JORDAN	31.964094	35.902975	31° 57' 50.7384" N 35° 54' 10.71" E
Kankakee, USA	41.148898	-87.849297	41° 8' 56.0364" N 87° 50' 57.4692" W
Karacabey, TURKEY	40.209801	28.360845	40° 12' 35.2836" N 28° 21' 39.042" E
Kechnec, SLOVAKIA	48.54938	21.26445	48° 32' 57.768" N 21° 15' 52.02" E
Khmer Beverage Cans Limited, CAMBODIA	11.528815	104.848745	11° 31' 43.7376" N 104° 50' 55.4814" E
Korinthos, GREECE	37.94007	22.9513	37° 56' 24.2514" N 22° 57' 4.68" E
Kornye, HUNGARY	47.58484	18.33281	47° 35' 5.424" N 18° 19' 58.116" E
La Rioja, SPAIN	42.22464	-1.89435	42° 13' 28.704" N 1° 53' 39.66" W
La Villa (Mexico City), MEXICO	19.466836	-99.1137	19° 28' 0.6132" N 99° 6' 49.3236" W
Lacrosse, USA	43.837904	-91.235043	43° 50' 16.4544" N 91° 14' 6.1548" W
Laon, FRANCE	49.583188	3.645458	49° 34' 59.4798" N 3° 38' 43.6518" E
Carnaud Metalbox, UK	53.841175	-1.760323	53° 50' 28.2294" N 1° 45' 37.1628"
Madagascar, MADAGASCAR	-18.153532	49.413689	18° 9' 12.7152" S 49° 24' 49.2804" E
Manaus Ends, BRAZIL	-3.119055	-59.968754	3° 7' 8.5974" S 59° 58' 7.5138 " W
Mankato, USA	44.18316	-93.99082	44° 10' 59.361" N 93° 59' 26.9628" W
Mansfield, UK	53.14915	-1.14765	53° 8' 56.94" N 1° 8' 51.54" W
Maroc, MOROCCO	30.416821	-9.578364	30° 25' 0.5586" N 9° 34' 42.1104" W
Massillon, USA	40.789787	-81.504605	40° 47' 23.2368" N 81° 30' 16.5774" W
Midwest Decorating, USA	41.76459	-88.227404	41° 45' 52.5276" N 88° 13' 38.6544" W

Identifier	Latitude	Longitude	Comment
Mill Park, USA	39.729156	-82.668428	39° 43' 44.9616" N 82° 40' 6.3408 W
Monterrey End, MEXICO	25.696284	-100.316577	25° 41' 46.6254" N 100° 9' 17.1504" W
Murcia, SPAIN	38.026233	-1.267771	38° 1' 34.4424" N 1° 16' 3.975" W
Myanmar, MYANMAR	16.947772	96.199005	16° 56' 51.9828" N 96° 11' 56.4174" E
Nagykoros, HUNGARY	47.03497	19.76109	47° 2' 5.892" N 19° 45' 39.924" E
Nakhon Pathom, THAILAND	13.647167	100.573187	13° 38' 49.8048" N 100° 34' 23.4732" E
Nantes, FRANCE	48.990414	1.709848	48° 59' 25.4904" N 1° 42' 35.4528" E
Nichols, USA	42.05623	-76.32051	42° 3' 22.428" N 76° 19' 13.836" W
Nocera Superiore, ITALY	40.747735	14.598337	40° 44' 51.8496" N 14° 35' 54.0132" E
SIVESA Nogales, MEXICO	18.819448	-97.160121	18° 49' 10.0158" N 97° 9' 36.4356" W
Nong Khae, THAILAND	14.386347	100.903645	14° 23' 10.8492" N 100° 54' 13.1214" E
Olympia, USA	47.03781	-122.84695	47° 2' 16.116" N 122° 50' 49.02" W
Omaha, USA	41.217588	-96.023791	41° 13' 3.3168" N 96° 1' 25.6476" W
Oshkosh, USA	44.062106	-88.538113	44° 3' 43.5816" N 88° 32' 17.2068" W
Osmaniye, TURKEY	37.007726	36.092412	37° 0' 27.8172" N 36° 5' 32.6832" E
Outreau, FRANCE	49.583188	3.645458	49° 34' 59.4798" N 3° 38' 43.6518" E
Owatonna, USA	44.08239	-93.262306	44° 4' 56.604" N 93° 15' 44.3016" W
Parma, ITALY	44.843945	10.36608	44° 50' 58.0194" N 10° 21' 57.888" E
Parma Beverage, ITALY	44.843943	10.367565	44° 50' 38.1948" N 10° 22' 3.234" E
Patras, GREECE	38.12954	21.63664	38° 7' 46.344" N 21° 38' 11.904" E
Perigueux, FRANCE	45.185935	0.703596	45° 11' 9.369" N 0° 42' 12.9456" E
Novotitarivskaia, RUSSIA	45.236607	38.97121	45° 14' 11.7846" N 38° 58' 16.359" E
Ponta Grossa, BRAZIL	-25.189399	-50.095353	25° 11' 21.8364" S 50° 6' 25.92" W
Pruszcz, POLAND	54.245885	18.61995	18° 37' 11.8194" E
Saigon, VIETNAM	10.846107	106.778018	17° 43' 59.2968" S 50° 52' 6.1284" W
Samrong, THAILAND	13.647167	100.573187	13° 38' 49.8048" N 100° 34' 23.4732" E
Seattle, USA	47.4401	-122.25733	47° 26' 24.36" N 122° 15' 26.388" W
Seesen, GERMANY	51.894026	10.177729	51° 53' 38.493" N 10° 10' 39.828" E
Sevilla, SPAIN	37.283931	-5.991686	37° 17' 2.1552" N 5° 59' 30.0726" W
Siem Abidjan, IVORY COAST	5.295208	-3.979969	5° 17' 42.7518" N 3° 58' 47.8884" W
Sihanoukville, CAMBODIA	10.620811	103.506099	10° 37' 14.9232" N 103° 30' 21.9564" E
SISA, MEXICO	17.893643	-95.037231	17° 53' 37.1178" N 95° 2' 14.0316" W
SIVESA - Orizaba, MEXICO	18.841006	-97.110995	18° 50' 27.6252" N 97° 6' 39.5856" W
SMP Huiyang, CHINA	23.152736	114.523954	23° 9' 9.8496" N 114° 31' 26.2344" E
SMP KunShan, CHINA	33.140171	119.788925	33° 8' 24.6156" N 119° 47' 20.13" E
Leicester Studio	52.63121	-1.194857	18° 9' 12.7152" S 49° 24' 49.2804" E
SMP Shanghai, CHINA	31.21119	121.56355	31° 12' 40.284" N 121° 33' 48.78" E
Singapore, SINGAPORE	1.32049	103.682327	1° 19' 13.764" N 103° 40' 56.3772" E
SMP Tianjin, CHINA	39.343357	117.361649	39° 20' 36.0852" N 117° 21' 41.9364" E
SMP Vietnam, VIETNAM	11.39987	106.73005	11° 23' 59.532" N 106° 43' 48.18" E
SMP Zhejiang, CHINA	30.5804	120.61392	30° 34' 49.44" N 120° 36' 50.112" E
SMP Shanghai	31.21119	121.56355	31° 12' 40.284" N 121° 33' 48.78" E
Spartanburg, USA	34.973717	-81.933138	34° 58' 25.3812" N 81° 55' 59.2968" W
Spilamberto, ITALY	44.541171	11.021882	44° 32' 28.2192" N 11° 1' 18.7788" E
Suffolk, USA	36.7689	-76.54041	36° 46' 8.04" N 76° 32' 25.476" W
Sugarland (Fort Bend), USA	29.638364	-95.612032	29° 38' 18.1098" N 95° 36' 43.3146" W
Sutton, UK	53.118176	-1.251566	53° 7' 5.4336" N 53° 7' 5.4336" N
Teresina, BRAZIL	-4.904788	-42.865636	42° 51' 56.2926" W
Thessaloniki, GREECE	40.690206	22.807264	40° 41' 24.7416" N 22° 48' 26.154" E
Timashevsk, RUSSIA	45.633995	38.940589	45° 38' 2.3814" N 38° 56' 26.124" E
Toledo, USA	41.71221	-83.5208	41° 42' 43.956" N 83° 31' 14.88" W
Toluca, MEXICO	18.841006	-97.110995	18° 50" 27.6252" N 97° 6' 39.5856" W
Trinidad Litho, TRINIDAD AND TOBAGO	10.648529	-61.472525	10° 38' 54.7074" N 61° 28' 21.0894" W
Tuas, SINGAPORE	1.333643	103.650924	1° 20' 1.1142" N 103° 39' 3.3264" E
Tunisia, TUNISIA	36.784778	10.073384	36° 47' 5.2008" N 10° 4' 24.1824" E
Tyneside Printers, UK	55.010596	-1.645241	55° 0' 38.1456" N 1° 38' 42.8676" W
Valencia, SPAIN	39.656228	-0.2244	39° 39' 22.4208" N 0° 13' 27.84" W
VICHISA, MEXICO	28.272654	-105.485898	28° 16' 21.558" N 105° 29' 9.2328" W
Weiding, GERMANY	48.236761	12.577793	48° 14' 12.3426" N 12° 34' 40.0542" E
Weirton , USA	40.38747	-80.621292	40° 23' 14.892" N 80° 37' 16.644" W
Weston, CANADA	43.768943	-79.545652	43° 46' 8.1948" N 79° 32' 44.3472" W
Winchester, USA	39.2114	-78.1482	39° 12' 41.04" N 78° 8' 53.52" W
Wantage	51.59959	-1.442679	51° 35' 58.527" N 1° 26' 33.6474" W
Wisbech, UK	52.656683	0.156128	52° 39' 24.0588" N 0° 9' 22.0608" E
Wissota Tools, USA	44.8967	-91.41322	44° 53' 48.12" N 91° 24' 47.592" W
Worland, USA	44.02439	-107.962922	44° 1' 27.804" N 107° 57' 46.512" W
Ziyang, CHINA	30.130343	104.608926	30° 7' 44.043" N 104° 37' 39.489" E
Angleboard, USA - Baypoint	38.03531	-121.958477	38° 2' 7.188" N 121° 57' 32.832" W
Angleboard, USA - Benton	34.554291	-92.594818	34° 33' 15.4476" N 92° 35' 41.3448" W Closed
Angleboard, USA - Darlington 1	34.29527	-79.92823	34° 17' 42.972" N 79° 55' 41.628" W
Angleboard, USA - Darlington 2	34.29705	-79.92931	34° 17' 49.38" N 79° 55' 45.516" W

Identifier	Latitude	Longitude	Comment
Angleboard - Elizabethtown, USA	40.15747	-76.65417	40° 9' 26.892" N 76° 39' 15.012" W
Angleboard - Elkhart, USA	41.70213	-86.0053	41° 42' 7.668" N 86° 0' 19.08" W
Angleboard - Loveland, USA	39.22237	-84.28805	39° 13' 20.532" N 84° 17' 16.98" W
Angleboard - Monroe, USA	32.505216	-92.054526	32° 30' 19.512" N 92° 3' 17.712" W
Angleboard - Newark, USA	40.71865	-74.21952	40° 43' 7.14" N 74° 13' 10.272" W
Angleboard - Phoenix, USA	33.44255	-112.197494	33° 26' 33.1836" N 112° 11' 50.9784" W
Angleboard - Salisbury, USA	35.68019	-80.50019	35° 40' 48.684" N 80° 30' 0.684" W
Angleboard Paper, Kankakee, USA	41.11201	-87.86696	41° 6' 43.236" N 87° 52' 1.056" W
Angleboard Plastics, Kankakee, USA	41.12061	-87.86764	41° 7' 14.196" N 87° 52' 3.504" W
BATES, Noerresundby, DENMARK	57.05942	9.94309	57° 3' 33.912" N 9° 56' 35.124" E
Brighton, MI (Main Building), USA	42.49963	-83.69626	42° 29' 58.668" N 83° 41' 46.536" W
CAREAS Caretex, Chonburi, THAILAND	13.09111	100.883011	13° 5' 27.996" N 100° 52' 58.8396" E
Celcor, Cambridge, CANADA	43.43454	-80.31291	43° 26' 4.344" N 80° 18' 46.476" W
Cincinnati, OH (Building A), USA	39.3084	-84.47194	39° 18' 30.24" N 84° 28' 18.984" W
Cleveland, Brooklyn Heights, USA	41.42702	-81.67812	41° 25' 37.272" N 81° 40' 41.232" W
CROPPS, Gorey, IRELAND	51.74574	-8.79961	51° 44' 44.664" N 8° 47' 58.596" W
PET Plant, Derrimut, Australia	-37.80881	144.78081	37° 48' 31.716" S 144° 46' 50.919" E
DHPTHA Signode Thailand, THAILAND	12.97862	101.109261	101° 6' 33.3396" E
DINCN Dinslaken, GERMANY	51.55865	6.74592	51° 33' 31.14" N 6° 44' 45.312" E
Down River - Benton (Airlane Dr), Benton, USA	34.56114	-92.60509	34° 33' 40.104" N 92° 36' 18.324" W
Down River - Chicago, Dixmoor, USA	41.63378	-87.6776	41° 38' 1.608" N 87° 40' 39.36" W
Down River - Hazleton, USA	40.96559	-76.02006	40° 57' 56.124" N 76° 1' 12.216" W
Down River - Macon, USA	32.80326	-83.55465	32° 48' 11.736" N 83° 33' 16.74" W
Down River - Stockton, USA	38.0045	-121.21264	38° 0' 16.2" N 121° 12' 45.504" W
Down River - Woodland, USA	45.91249	-122.755	45° 54' 44.964" N 122° 45' 18" W
Fleetwood Signode East, Imperial, USA	40.44326	-80.30045	40° 26' 35.736" N 80° 18' 1.62" W
Galewrap, Douglasville, USA	33.77121	-84.71766	33° 46' 16.356" N 84° 43' 3.576" W
GERNZ Signode New Zealand, Auckland, NEW ZEALAND	-36.98685	174.7887	36° 59' 12.66" S 174° 47' 19.32" E
GLBPLS Kosice, SLOVAKIA	48.71711	21.25978	48° 43' 1.596" N 21° 15' 35.208" E
Glenview, IL, USA	42.08698	-87.87039	42° 5' 13.128" N 87° 52' 13.404" W
GUNSW Sandared, SWEDEN	57.70868	12.79366	57° 42' 31.248" N 12° 47' 37.176" E
GUNSW Ystad, SWEDEN	55.44771	13.8501	55° 26' 51.756" N 13° 51' 0.36" E
GUNTR Fontaine les Luxeuil, France	47.86006	6.35175	47° 51' 36.216" N 6° 21' 6.3" E
GUNUK Dudley, Kingswinford, UK	53.22247	-1.41958	53° 13' 20.892" N 1° 25' 10.488" W
HALFN Masku, FINLAND	60.5496	22.12852	60° 32' 58.56" N 22° 7' 42.672" E
HBLITZ Kardjali 1, BULGARIA	41.639112	25.38857	41° 38' 20.8068" N 25° 23' 18.852" E
HLDAB Burseryd, SWEDEN	57.20144	13.28466	57° 12' 5.1840" N 13° 17' 4.7760" E
INDMHT Manual Hand Tool Operations, Bangalore, INDIA	12.85283	77.44198	12° 51' 10.1880" N 77° 26' 31.1280" E
Insulated Transport Products, La Grange, USA	33.01798	-84.99756	33° 1' 4.7280" N 84° 59' 51.2160" W
INTSTP Heerlen, NETHERLANDS	50.84606	5.99831	50° 50' 45.8160" N 5° 59' 53.9160" E
ITWQIN Signode China, Qingdao City,	36.09193	120.32806	36° 5' 30.948" N 120° 19' 41.016" E
JKSWED Hjo, SWEDEN	58.312	14.28692	58° 18' 43.2000" N 14° 17' 12.9120" E
Kurri Kurri Steel Plant, AUSTRALIA	-32.806918	151.471365	32° 48' 24.9048" S 151° 28' 16.917" E
LCMRDN Soenderborg, DENMARK	54.9188	9.82079	54° 55' 7.6800" N 9° 49' 14.8440" E
LITEC Tournus, FRANCE	46.551741	4.910495	46° 33' 6.2706" N 4° 54' 37.7856" E
Lock N Pop, Carrollton, USA	33.60689	-85.10081	33° 36' 24.8040" N 85° 6' 2.9160" W
Loveshaw, South Canaan, USA	41.50821	-75.41214	41° 30' 29.5560" N 75° 24' 43.7040" W
LUXKOR Izmir 1, Izmir, Turkey	38.48854	27.09977	38° 29' 18.7440" N 27° 5' 59.1720" E
LVSHUK Andover, Andover, UK	51.21635	-1.517989	51° 12' 58.8594" N 1° 31' 4.7604" W
MEZGER Nurnberg, Nurnberg, GERMANY	49.41601	11.16251	49° 24' 57.6360" N 11° 9' 45.0360" E
MIMAFB Virton, Virton, BELGIUM	49.550369	5.577132	49° 33' 1.3284" N 5° 34' 37.6782" E
MMAIR Kilkenny, Kilkenny, IRELAND	52.65374	-7.24796	52° 39' 13.4640" N 7° 14' 52.6560" W
MODELO Flejes Modelo, Toluca, MEXICO	19.289483	-99.566624	19° 17' 22.1388" N 99° 33' 59.8464" W
MODELO Signode Mexico, Cienega de Flores, MEXICO	25.955081	-100.165518	25° 57' 18.2952" N 100° 9' 55.8648" W
Monroe Packaging, West Monroe, MEXICO	32.51161	-92.28446	32° 30' 41.7960" N 92° 17' 4.0560" W
Multiwall - Danville, Danville, USA	36.66527	-79.37088	36° 39' 54.9720" N 79° 22' 15.1680" W
Multiwall - East Providence (22 Patton Rd), East Providence, USA	41.85434	-71.347054	41° 51' 15.6240" N 71° 20' 49.3944" W
Multiwall - East Providence (Taylor Dr), East Providence, USA	41.85604	-71.34954	41° 51' 21.7440" N 71° 20' 58.3440" W
Multiwall - Greer, USA	34.91585	-82.24134	34° 54' 57.0600" N 82° 14' 28.8240" W
Multiwall - Martinsville (Beaver Creek), Martinsville, USA	36.723657	-79.881727	36° 43' 25.1688" N 79° 52' 54.996" W
Multiwall - Martinsville (Stultz Rd), Martinsville, USA	36.70255	-79.87753	36° 42' 9.1800" N 79° 52' 39.1080" W
Multiwall (National Packaging) - East Providence (Pawtucket Ave), East Providence, USA	41.85491	-71.3627	41° 51' 17.6760" N 71° 21' 45.7200" W
NORDIC Manneville sur Risle, Manneville sur Risle, FRANCE	49.35107	0.55597	49° 21' 3.8520" N 0° 33' 21.4920" E
Orange, TX, USA	30.20326	-93.86854	30° 12' 11.7360" N 93° 52' 6.7440" W
ORGAPK Dietikon 1, Dietikon, SWITZERLAND	47.41782	8.39503	47° 25' 4.1520" N 8° 23' 42.1080" E
ORGAPK Dietikon 2, Dietikon, SWITZERLAND	47.4179	8.39835	47° 25' 4.4400" N 8° 23' 54.0600" E
ORGAPK, Merenschwand, SWITZERLAND	47.26074	8.38755	47° 15' 38.6640" N 8° 23' 15.1800" E
PKGBP Hilden 1, Hilde, GERMANY	51.17579	6.91067	51° 10' 32.8440" N 6° 54' 38.4120" E
Plastic Packaging Systems - Colorado, Denver, USA	39.787444	-104.939432	39° 47' 14.7984" N 104° 56' 21.9582" W
Plastic Packaging Systems - NC (fka Blue Ridge), Eden, USA	36.51454	-79.71798	36° 30' 52.3440" N 79° 43' 4.7280" W

Identifier	Latitude	Longitude	Comment
PRIME Prime Bulk Packaging, Bangalore, INDIA	12.9845	77.59956	12° 59' 4.2000" N 77° 35' 58.4160" E
SAMJUN Signode Korea, Pohang, SOUTH KOREA	35.999931	129.36587	35° 59' 59.7552" N 129° 21' 57.135" E
San Antonio, TX, USA	29.55185	-98.36615	29° 33' 6.6600" N 98° 21' 58.1400" W
SCYBL Castelsarrasin, FRANCE	44.044036	1.112251	44° 2' 38.5332" N 1° 6' 44.1036" E
Shippers Fordyce, Fordyce, ARIZONA	33.80727	-92.42367	33° 48' 26.1720" N 92° 25' 25.2120" W
Shippers Sheridan, Sheridan, USA	34.30094	-92.39047	34° 18' 3.3840" N 92° 23' 25.6920" W
SIGBRS Signode Brasileira Ltda, Cabreuva, BRAZIL	-23.24315	-47.049835	23° 14' 35.3436" S 47° 2' 59.406" W
SIGCOL Signode Colombia, Malambo, COLOMBIA	10.88516	-74.76461	10° 53' 6.5760" N 74° 45' 52.5960" W
SIGKEN Signode Kenya, Nairobi, AFRICA	-1.371894	36.918168	1° 22' 18.8178" S 36° 54' 5.4048" E
Signode - Bridgeview, Bridgeview, USA	41.76118	-87.81237	41° 45' 40.2480" N 87° 48' 44.5320" W
Signode - Florence, Florence, USA	38.97935	-84.60797	38° 58' 45.6600" N 84° 36' 28.6920" W
Signode - Latta, Latta, USA	34.32309	-79.43969	34° 19' 23.1240" N 79° 26' 22.8840" W
Signode Canada, Markham, CANADA	43.83679	-79.3237	43° 50' 12.4440" N 79° 19' 25.3200" W
Signode Packaging Espana, S.L.U., Barcelona, SPAIN	41.34577	2.08631	41° 20' 44.7720" N 2° 5' 10.7160" E
SINDIA Dahej, Dahej, INDIA	9.91401	78.13037	9° 54' 50.4360" N 78° 7' 49.3320" E
SINDIA Rudrapur, Pantnagar, INDIA	12.82232	77.69432	12° 49' 20.3520" N 77° 41' 39.5520" E
SINDIA Wintek-BLR, Bangalore, INDIA	12.898773	77.576409	12° 53' 55.5828" N 77° 34' 35.1718" E
SMB Goldkronach, Goldkronach, GERMANY	50.01341	11.67148	50° 0' 48.2760" N 11° 40' 17.3280" E
SMP Weischlitz, Weischlitz , GERMANY	50.44857	12.05349	50° 26' 54.8520" N 12° 3' 12.5640" E
STPIND Stopak, Bangalore, INDIA	12.815921	77.679381	12° 57' 28.728" N 77° 24' 4.3452" E
VACNET Neunen, Neunen, NETHERLANDS	51.446123	5.559111	51° 26' 46.0428" N 5° 33' 32.8026" E
VACNET Zwijndrecht, Zwijndrecht, NETHERLANDS	51.815457	4.634337	51° 48' 55.6482" N 4° 38' 3.6132" E
Multiwall - Gary, Gary, USA	41.6114	-87.36403	41° 36' 41.0400" N 87° 21' 50.5080" W
PKGFN Liljendal, Liljendal, FINLAND	60.57317	26.06114	60° 34' 23.4120" N 26° 3' 40.1040" E
SINDIA Rudraram, Telangana, INDIA	17.555809	78.183225	17° 33' 20.916" N 78° 10' 59.6094" E
SINDIA Silvassa, Dadra and Nagar Haveli, INDIA	20.180867	73.016913	20° 10' 51.1206" N 73° 1' 0.8898" E
STMEXI Syn-Tex Bag, Amatlan de los Reyes, MEXICO	18.872657	-96.858259	18° 52' 21.5652" N 96° 51' 29.736" W
VACNET Best, Best, NETHERLANDS	51.50133	5.413398	51° 30' 4.7916" N 5° 24' 5.413989" E
Ayer, USA, WH - Closed	42.552912	-71.56644	42° 33' 10.2132" N 71° 33' 57.9132" W
Lacrosse, USA, WH -Urbancrest	39.903147	-83.088296	42° 33' 10.2132" N 71° 33' 57.9132" W
Lancaster, USA, WH - Urbancrest	39.903147	-83.088296	39° 54' 11.3286" N 83° 5' 17.8686" W
Belcamp, USA, WH	39.468133	-76.232884	39° 28' 5.2788" N 71° 33' 57.9132" W
Cheraw, USA, WH	39.468133	-76.232884	39° 28' 5.2788" N 76° 13' 58.3854" W
Lawrence, USA, WH - Closed	42.73064	-71.211905	42° 43' 50.307" N 71° 12' 42.861" W
Singapore SF, SINGAPORE, Harbour Front	1.264515	103.819271	1° 15' 52.257" N 103° 49' 9.3756"
Singapore SF, SINGAPORE, Keppel 05 (closed)	1.274401	103.842552	1° 16' 27.843" N 103° 50' 33.1902" E
Singapore SF, SINGAPORE, Keppel 19 (closed)	1.274401	103.842552	1° 16' 27.843" N 103° 50' 33.1902" E
Dubuque, USA	39.725127	-82.628381	39° 43' 30.4572" N 82° 37' 42.1716" W
Bowling Green, USA, Technical Center	37.009259	-86.388886	37° 0' 33.3324" N 86° 23' 19.989" W
Rio Verde, BRAZIL	-17.733137	-50.868368	17° 43' 59.2968" S 50° 52' 6.1284" W
TCP, THAILAND	14.389514	100.921948	14° 23' 22.2504" 100° 55' 19.0158" E
Pittsburgh, USA, WH	38.026117	-121.88939	38° 1' 34.0206 N 121° 53' 21.8076" W

SW2.1

(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.

SW2.2

(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?

No

SW3.1

(SW3.1) Provide any available water intensity values for your organization's products or services.

Product name
12 oz Aluminium Beverage Can (normalized)

Water intensity value

Numerator: Water aspect
Water withdrawn

Denominator
One thousand 12 oz normalized cans.

Comment
21.9 gallons of water consumed per 1000 normalized 12 oz cans.

Submit your response

In which language are you submitting your response?
English

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission	Are you ready to submit the additional Supply Chain questions?
I am submitting my response	Investors Customers	Public	Yes, I will submit the Supply Chain questions now

Please confirm below
I have read and accept the applicable Terms