Module: Introduction

Page: W0. Introduction

W0.1

Introduction

Please give a general description and introduction to your organization.

Aspen is a pharmaceutical company listed on the Johannesburg Stock Exchange Limited (“JSE”). The Group has 26 manufacturing facilities across 18 sites on six continents. Aspen employs approximately 10 000 employees and its heritage dates back more than 160 years in South Africa.
The Group supplies an extensive basket of products that enable the treatment of a broad spectrum of acute and chronic conditions experienced throughout all stages of life. It is this combination of high quality and affordability that the Aspen brand has become renowned for. Aspen supplies products to more than 150 countries worldwide. Aspen is a supplier of branded and generic pharmaceutical products, as well as of infant milk nutritionals and consumer healthcare products in selected territories.
The Aspen business model creates value for stakeholders by the application of high levels of expertise and advanced processes, guided by the Group’s values, to optimise the returns on intellectual and human capital.

W0.2

Reporting year

Please state the start and end date of the year for which you are reporting data.

Period for which data is reported
Mon 01 Jul 2013 - Mon 30 Jun 2014

W0.3

Reporting boundary

Please indicate the category that describes the reporting boundary for companies, entities, or groups for which water-related impacts are reported.

Companies, entities or groups over which operational control is exercised

W0.4

Exclusions

Are there any geographies, facilities or types of water inputs/outputs within this boundary which are not included in your disclosure?

Yes

W0.4a

Exclusions

Please report the exclusions in the following table

Exclusion	Please explain why you have made the exclusion
Operations in Brazil, Mexico, France, Netherlands, Kenya and Tanzania.	The submission presents information for the Group's manufacturing facilities located in South Africa, Germany and Australia, these facilities contributed to 88% of the water consumption during the 2014 financial year. Information relating to the excluded facilities will be included, using a phased approach over the next few years, to allow for standardisation and refinement of data reporting systems

Further Information

None

Module: Current State

Page: W1. Context

W1.1

Please rate the importance (current and future) of water quality and water quantity to the success of your organization

Water quality and quantity	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital for operations	Important	Water quality and supply issues have the potential to impact both Aspen's direct operations and supply chain. Aspen relies on a constant water supply, of adequate quality, to maintain manufacturing processes and compliance to quality standards. Disruptions to water supply present a risk to production and growth and declining water quality will impact the groups operating costs, as additional processing would be required to ensure product quality. The cost, quality and security of the supply chain is also vulnerable to water supply and quality risks. Aspen sources raw materials from various geographic locations. Commodity based raw materials from the agricultural sector are specifically vulnerable to changes in climate (changing precipitation regimes and increased frequency and intensity of extreme weather events) and overall water supply and quality.
Sufficient amounts of recycled, brackish and/or produced water available for use	Important	Important	Over the past few years the facilities have implemented water reuse and recycling initiatives, including the reuse of rejected Reverse Osmosis (RO) Water in the ablutions and cooling towers. These initiatives were, aimed at reducing our exposure to increasing water tariffs and supply risk. Additionally, a number of our direct and indirect operations are situated in water management areas which are reliant on the treatment and recycling of return flows to maintain a positive water balance.

W1.2

For your total operations, please detail which of the following water aspects are regularly measured and monitored and provide an explanation as to why or why not

Water aspect	% of sites/facilities/operations	Please explain
Water withdrawals- total volumes	76-100	Water withdrawals are monitored at 100% of the facilities using a combination of municipal and internal meters. Water withdrawals are monitored as water supply is extremely important in maintaining operations and represents a growing operational expense.
Water withdrawals- volume by sources	76-100	The facilities source water solely from municipal sources. Consequently, 100% of our facilities monitor water withdrawal by source.
Water discharges- total volumes	76-100	Water discharge at 100% of the facilities is monitored from municipal bills as waste water discharge represents a significant cost to our operations.
Water discharges- volume by destination	76-100	All the facilities discharge waste water into the municipal sewer system. Water discharge at 100% of the facilities is monitored from municipal bills. This discharge is monitored as waste water discharge represents a significant cost to our operations.
Water discharges- volume by treatment method	1-25	Only one of the facilities is required to treat waste water before discharge to the municipal sewer. Water quality and volumes generated by this facility are measured.
Water discharge quality data- quality by standard effluent parameters	76-100	All of the facilities are governed by effluent trade permits which require adherence to standard quality parameters. Consequently all operations monitor waste water quality.
Water consumption- total volume	26-50	Currently consumption is not specifically monitored, however Aspen recognises the importance of monitoring water consumption in order to strategically manage the water usage and is considering implementing systems to do so.
Facilities providing fully-functioning WASH services for all workers	Less than 1%	Ablution facilities are provided at all of the operations, however, due to the low water requirements they are not monitored separately to the rest of the facility.

W1.2a

Water withdrawals: for the reporting year, please provide total water withdrawal data by source, across your operations

Source	Quantity (megaliters/year)	How does total water withdrawals for this source compare to the last reporting year?	Comment
Fresh surface water	0	Not applicable	
Brackish surface water/seawater	0	Not applicable	
Rainwater	0	Not applicable	
Groundwater - renewable	0	Not applicable	
Groundwater - non-renewable	0	Not applicable	
Produced/process water	0	Not applicable	
Municipal supply	393	Lower	Water withdrawals from municipal supply decreased by 12% for the reported operations. This decrease is due to the implementation of water conservation and efficiency initiatives, changes in production levels at some of the facilities, repair of conveyance infrastructure leaks and one site closure.
Wastewater from another organization	0	Not applicable	
Total	393	Lower	Overall water withdrawals decreased by 12% for the reported operations This decrease is due to the implementation of water conservation and efficiency initiatives, changes in production levels at some of the facilities, repair of conveyance infrastructure leaks and one site closure.

W1.2b

Water discharges: for the reporting year, please provide total water discharge data by destination, across your operations

Destination	Quantity (megaliters/year)	How does total water discharged to this destination compare to the last reporting year?	Comment
Fresh surface water	0	Not applicable	
Brackish surface water/seawater	0	Not applicable	
Groundwater	0	Not applicable	
Municipal treatment plant	285	This is our first year of measurement	The water discharge is estimated based on historical values and municipal statements
Total	285	This is our first year of measurement	The water discharge is estimated based on historical values and municipal statements

W1.2c

Water consumption: for the reporting year, please provide total water consumption data, across your operations

Consumption (megaliters/year)	How does this consumption figure compare to the last reporting year?	Comment
108	This is our first year of measurement	This is an estimated value based on the assumption that all water not discharged is consumed by the sites

W1.3

Do you request your suppliers to report on their water use, risks and/or management?

No

W1.3a

Please provide the proportion of suppliers you request to report on their water use, risks and/or management and the proportion of your procurement spend this represents

Proportion of suppliers %	Total procurement spend %	Rationale for this coverage

W1.3b

Please choose the option that best explains why you do not request your suppliers to report on their water use, risks and/or management

Primary reason	Please explain
Reporting implementation in progress	A preliminary water risk review was conducted based on a sample of raw materials (focus placed on agricultural raw materials) in Aspen's supply chain, highlighting areas of potential risk. The mechanisms to manage / mitigate these risks will be explored in the group wide water strategy currently under development, and is likely to include the commencement of supplier engagement.

W1.4

Has your organization experienced any detrimental impacts related to water in the reporting period?

Yes

W1.4a

Please describe the detrimental impacts experienced by your organization related to water in the reporting year

Country	River basin	Impact indicator	Impact	Description of impact	Length of impact	Overall financial impact	Response strategy	Description of response strategy
South Africa	Limpopo (WMA)	Phys-Inadequate infrastructure	Plant/production disruption leading to reduced output	A failure in the council water pipeline feeding our steam supplier resulted in a disruption to production at our facilities.	5 hours	R 480 000 estimated loss in production.	Engagement with suppliers Infrastructure investment	The facility management is considering the installation of a buffer tank, to assist with mitigating the risk. In addition, the management team is engaging with the local council and local business forum with respect to the management of supply risks.

W1.4b

Please choose the option below that best explains why you do not know if your organization experienced any detrimental impacts related to water in the reporting year and any plans you have to investigate this in the future

Primary reason	Future plans

Further Information

None

Module: Risk Assessment

Page: W2. Procedures and Requirements

W2.1

Does your organization undertake a water-related risk assessment?

Water risks are assessed

W2.2

Please select the options that best describe your procedures with regard to assessing water risks

Risk assessment procedure	Coverage	Scale	Please explain
Comprehensive company-wide risk assessment	Direct operations and supply chain	Some facilities and some suppliers	In accordance with the King III Code of Corporate Practice and Conduct, the Board of Directors of Aspen (“the Board”) is responsible for the governance of risk. The Board has delegated this function to its Audit & Risk Committee. Water risk is relevant to the direct operations and supply chain. The following aspects are considered in the current risk review process: (i) The effectiveness of environmental management systems. (ii) Responsible water consumption and conservation. (iii) The environmental risks impacting operations. An independent water risk assessment was done for the South African operations in 2015.

W2.3

Please state how frequently you undertake water risk assessments, what geographical scale and how far into the future you consider risks for each assessment

Frequency	Geographic scale	How far into the future are risks considered?	Comment
Six-monthly or more frequently	River basin	3 to 6 years	As risk management is essential to the effective execution of each function, risk identification is a live and on-going process at the operational and functional level.

W2.4

Have you evaluated how water risks could affect the success (viability, constraints) of your organization's growth strategy?

Not evaluated

W2.4a

Please explain how your organization evaluated the effects of water risks on the success (viability, constraints) of your organization's growth strategy?

W2.4b

What is the main reason for not having evaluated how water risks could affect the success (viability, constraints) of your organization's growth strategy, and are there any plans in place to do so in the future?

Main reason	Current plans	Timeframe until evaluation	Comment
Evaluation underway	Yes	Next reporting period	Aspen has partnered with water specialists to identify and assess significant water risks and opportunities with the potential to impact on the success of Aspen’s growth strategy.

W2.5

Please state the methods used to assess water risks

Method	Please explain how these methods are used in your risk assessment
Internal company knowledge Regional government databases WRI Aqueduct Other: IPCC Climate Change Projections; Stakeholder Engagement; Independent river basin studies	Risks are identified, inter alia, through the monitoring of internal incidents, results of internal meetings/forums/discussions, interaction with identified stakeholders including suppliers; water utilities and government departments and the review of catchment relevant documentation. Water risk is area specific and consequently the mechanisms chosen are designed to ensure area specific risks are identified for assessment. Facility management teams ensure that key risks relevant to each area / department are escalated via the quarterly risk review. Supply chain risks are identified primarily using the WRI Aqueduct database.

W2.6

Which of the following contextual issues are always factored into your organization's water risk assessments?

Issues	Choose option	Please explain
Current water availability and quality	Relevant,	Disruptions to water supply presents a risk to production and growth, and declining water quality

Issues	Choose option	Please explain
parameters at a local level	included	could impact the Group's operating cost. This risk is informed by internal monitoring, company knowledge and engagement with the water providers
Current water regulatory frameworks and tariffs at a local level	Relevant, included	Water and waste water tariffs represent a growing cost to operations. Current issues are informed by municipal bills, regional government databases and engagement with the water provider.
Current stakeholder conflicts concerning water resources at a local level	Relevant, included	A number of regions in which Aspen's operations are situated are characterised by a water deficit and consequently increasing competition between stakeholders. Aspen is kept informed of any conflicts and possible consequences through engagement with the water provider, regional government databases and independent river basin studies.
Current implications of water on your key commodities/raw materials	Relevant, included	Aspen has a diverse supply chain incorporating numerous raw materials, including agricultural products. Water and climate related issues experienced in the geographic locations supplying the facilities can impact operations, by impacting on the sustainable supply of certain raw materials. Current risk in this regard is informed using the WRI Aqueduct database. Stakeholder engagement with key suppliers will be implemented in the near future, as practical; to further inform our exposure to water related risks.
Current status of ecosystems and habitats at a local level	Not relevant, explanation provided	Although Aspen appreciates the importance of ecosystem services in maintaining a sustainable water resource, reliance is placed on water service providers and the Department of Water Affairs to ensure that these ecosystems are appropriately managed and risks evaluated. None of Aspen's facilities are situated in areas of biodiversity.
Current river basin management plans	Relevant, not yet included	Water stress and quality within the basin supplying the relevant water service providers has a direct impact on Aspen's water supply. Aspen recognises the importance of staying informed of river basin plans in order to assess the risk with respect to water supply and cost.. Mechanisms to include this aspect into the risk assessment process are currently being formalised.
Current access to fully-functioning WASH services for all employees	Relevant, included	Aspen provides ablution facilities for employees at all of the sites, however the risk posed to these facilities is evaluated in terms of water supply to the operation as a whole and not separately.
Estimates of future changes in water availability at a local level	Relevant, included	Decreasing water availability will directly impact Aspen's operations. Aspen monitors this risk using regional government and municipal databases, river basin studies and climate change projections.
Estimates of future potential regulatory changes at a local level	Relevant, included	Water and waste water tariffs represent a growing cost to Aspen's operations. Future risk is informed by regional government / municipal databases and engagement with water providers
Estimates of future potential stakeholder conflicts at a local level	Relevant, included	Increasing water deficits have been projected for a number of water management areas in which Aspen's facilities are situated. These deficits are expected to stimulate competition between stakeholders. Aspen keeps informed of potential conflicts and possible consequences through engagement with the water provider, regional government databases and independent river basin studies.
Estimates of future implications of water on your key commodities/raw materials	Relevant, included	Aspen has a diverse supply chain incorporating numerous raw materials. Water and climate related issues experienced in the regions supplying our operations can impact operations directly. Future risk in this regard is informed using the WRI Aqueduct database. Stakeholder engagement with key

Issues	Choose option	Please explain
		suppliers will be implemented in the near future, as practical; to further inform the exposure to water related risks.
Estimates of future potential changes in the status of ecosystems and habitats at a local level	Not relevant, explanation provided	Although Aspen appreciates the importance of ecosystem services in maintaining a sustainable water resource, reliance is placed on water service providers and the Department of Water Affairs to ensure that these ecosystems are appropriately managed and risks evaluated.
Scenario analysis of availability of sufficient quantity and quality of water relevant for your operations at a local level	Relevant, not yet included	Scenario analysis to inform water risk will be considered in the future.
Scenario analysis of regulatory and/or tariff changes at a local level	Relevant, not yet included	Scenario analysis to inform water related regulatory and financial risk will be considered in the future.
Scenario analysis of stakeholder conflicts concerning water resources at a local level	Relevant, not yet included	Scenario analysis to inform water related stakeholder risk will be considered in the future.
Scenario analysis of implications of water on your key commodities/raw materials	Relevant, not yet included	Scenario analysis to inform water related supply chain risk will be considered in the future.
Scenario analysis of potential changes in the status of ecosystems and habitats at a local level	Not relevant, explanation provided	Although Aspen appreciates the importance of ecosystem services in maintaining a sustainable water resource, reliance is placed on water service providers and the Department of Water Affairs to ensure that these ecosystems are appropriately managed and risks evaluated.
Other		None

W2.7

Which of the following stakeholders are always factored into your organization's water risk assessments?

Stakeholder	Choose option	Please explain
Customers	Relevant, included	Water related issues that impact Aspen’s operations have the potential to negatively affect customers. Consequently, the impact on customers is always factored into the risk assessment process.

Stakeholder	Choose option	Please explain
Employees	Relevant, included	Ensuring the highest quality in hygiene standards at Aspen's facilities is imperative. Consequently, water issues with the potential to impact employee hygiene are considered within the risk assessment process.
Investors	Relevant, included	Risks to Aspen's production have the potential to impact the organisation's current and future investor portfolio.
Local communities	Relevant, included	Climate change and water stressors have the potential to negatively impact community health. Consequently, health implications and the possible requirements placed on Aspen's product line and production levels are considered.
NGOs	Relevant, included	Certain NGO's, such as the WWF, play an important role in managing and assessing various countries water resources, and consequently their initiatives are considered in Aspen's water risk assessment process.
Other water users at a local level	Relevant, included	Other water users are considered for two reasons; the declining water resource will need to be shared between all water users, the characteristics and projected growth of this sector is therefore important; and these water users have the potential to negatively impact the quality of the water resource.
Regulators	Relevant, included	Changes in regulations and tariffs implemented by regulators with the objective of managing water resources will directly impact Aspen's operations, and consequently regulators are an important stakeholder group in the risk assessment process.
River basin management authorities	Relevant, included	The effectiveness of water basin management to adequately manage the resource will directly impact on water availability and quality.
Statutory special interest groups at a local level	Not evaluated	Not currently included in the assessment.
Suppliers	Relevant, included	An uninterrupted supply of raw materials is imperative in maintaining production. Consequently, suppliers are factored into risk assessments.
Water utilities/suppliers at a local level	Relevant, included	The current and future performance of water utilities in managing water supply has a direct impact on Aspen's operations.
Other	Not evaluated	Not applicable.

W2.8

Please choose the option that best explains why your organisation does not undertake a water-related risk assessment

Primary reason	Please explain

Further Information

None

Module: Implications

Page: W3. Water Risks

W3.1

Is your organization exposed to water risks, either current and/or future, that could generate a substantive change in your business, operations, revenue or expenditure?

Yes, direct operations and supply chain

W3.2

Please provide details as to how your organization defines substantive change in your business, operations, revenue or expenditure from water risk

A substantive change is defined as any material loss in the ability to operate and manufacture products, including loss of revenue in any of the regions.

W3.2a

Please provide the number of facilities* per river basin exposed to water risks that could generate a substantive change in your business, operations, revenue or expenditure and the proportion of total operations this represents

Country	River basin	Number of facilites	Proportion of total operations exposed to risk within river basin (%)	Comment
South Africa	Mzimvubu-Tsitsikamma(WMA)	3	91-100	All of the operations are exposed to water related risk with varying degrees of significance.
South Africa	Limpopo (WMA)	1	91-100	All of the operations are exposed to water related risk with varying degrees of significance.
South Africa	Berg-Olifants (WMA)	1	91-100	All of the operations are exposed to water related risk with varying degrees of significance.
Germany	Other: Schlei/Trave River Basin District	1	Less than 1%	All of the operations are exposed to water related risk with varying degrees of significance.
Australia	Other: South East Coast (Victoria) River Region	3	Less than 1%	All of the operations are exposed to water related risk with varying degrees of significance.

W3.2b

Please provide the proportion of financial value that could be affected at river basin level associated with the facilities listed in W3.2a

Country	River basin	Financial reporting metric	Proportion of chosen metric that could be affected within the river basin	Comment
South Africa	Mzimvubu-Tsitsikamma(WMA)	% global revenue	11-20	Estimated based on revenue generated from the operations based in this river basin.
South Africa	Limpopo (WMA)	% global production capacity	1-5	Estimated based on revenue generated from the operations based in this river basin.
South Africa	Berg-Olifants (WMA)	% global production capacity	6-10	Estimated based on revenue generated from the operations based in this river basin.

Country	River basin	Financial reporting metric	Proportion of chosen metric that could be affected within the river basin	Comment
Germany	Other: Schlei/Trave River Basin District	% global revenue	6-10	Estimated based on revenue generated from the operations based in this river basin.
Australia	Other: South East Coast (Victoria) River Region	% global production capacity	6-10	Estimated based on revenue generated from the operations based in this river basin.
Australia	Other: South East Coast (NSW) River Region	% global revenue	1-5	Estimated based on revenue generated from the operations based in this river basin.

W3.2c

Please list the inherent water risks that could generate a substantive change in your business, operations, revenue or expenditure, the potential impact to your direct operations and the strategies to mitigate them

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
South Africa	Other: Mzimvubu - Tsitsikamma, Berg and Olifants and Limpopo WMA's	Physical-Increased water stress	Other: Higher operating costs and reduced water allocations	The water management areas in which the facilities are situated are characterised by water balance deficits, with the Berg and Olifants WMA water deficit projected to	1-3 years	Highly probable	Medium-high	Other: Development of a group-wide water strategy	To be established.	Aspen is currently developing a group wide water strategy which will identify and prioritise management, monitoring, reporting and

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
				increase significantly by 2025. The opportunity to augment water supply in these WMA's is limited. Current government plans propose investment in desalination, catchment transfers, and effluent treatment and reuse. These augmentation strategies are costly and consequently it is anticipated that there will be a significant impact on water tariffs within the respective regions.						engagement initiatives at each of the facilities.

W3.2d

Please list the inherent water risks that could generate a substantive change in your business operations, revenue or expenditure, the potential impact to your supply chain and the strategies to mitigate them

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
South Africa	Pongola-Umzimkulu (WMA)	Physical-Drought	Other: Production disruption leading to reduced output and higher operating costs.	Aspen's operations rely on a number of agricultural raw materials, for example sugar, maize starch, palm oil and lactose. Sugar is sourced from the east coast of KwaZulu-Natal which is projected to become severely water stressed in the near future. Disruption in supply could impact production and supply chain costs. Example: Droughts in various parts of the country severely affected sugar crops and the by-product of sugar production, molasses, Molasses is used in the synthesis of alcohol and solvents. Sugar, molasses and solvents are key ingredients used in the production of pharmaceutical	1-3 years	Highly probable	Medium	Other: Development of a group-wide water strategy.	To be established.	Aspen is currently developing a group wide water strategy which will prioritise raw materials in the supply chain for strategic management.

Country	River basin	Risk driver	Potential impact	Description of impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
				products. The supplier was forced to obtain supply from an alternative source and this led to an increase in alcohol and solvent pricing.						

W3.2e

Please choose the option that best explains why you do not consider your organization to be exposed to water risks in your direct operations that could generate a substantive change in your business, operations, revenue or expenditure

Primary reason	Please explain

W3.2f

Please choose the option that best explains why you do not consider your organization to be exposed to water risks in your supply chain that could generate a substantive change in your business, operations, revenue or expenditure

Primary reason	Please explain

W3.2g

Please choose the option that best explains why you do not know if your organization is exposed to water risks that could generate a substantive change in your business operations, revenue or expenditure and discuss any future plans you have to assess this

Primary reason	Future plans

Further Information

None

Page: W4. Water Opportunities

W4.1

Does water present strategic, operational or market opportunities that substantively benefit/have the potential to benefit your organization?

Yes

W4.1a

Please describe the opportunities water presents to your organization and your strategies to realize them

Country or region	Opportunity	Strategy to realize opportunity	Estimated timeframe	Please explain
South Africa	Improved water efficiency	Where possible, Aspen has undertaken projects to enable the recycling of water; for example recycling of reject water generated by the Reverse Osmosis (RO) plant for re-use in the ablution facilities and cooling towers.), and improved water efficiency.	1-3 years	Aspen continues to investigate water conservation and efficiency opportunities, and is currently developing a group wide water strategy which will prioritise water efficiency initiatives at the operations most exposed to water risk.
South Africa	Cost savings	Improved water efficiency and increased water recycling will reduce exposure to water tariffs by decreasing abstraction and discharge.	1-3 years	Aspen is developing a group wide water strategy which will prioritise water efficiency and conservation initiatives at the operations most exposed to water related financial risk.

W4.1b

Please choose the option that best explains why water does not present your organization with any opportunities that have the potential to provide substantive benefit

Primary reason	Please explain

W4.1c

Please choose the option that best explains why you do not know if water presents your organization with any opportunities that have the potential to provide substantive benefit

Primary reason	Please explain

Further Information

None.

Module: Accounting

Page: W5. Facility Level Water Accounting (I)

W5.1

Water withdrawals: for the reporting year, please complete the table below with water accounting data for all facilities included in your answer to W3.2a

Facility reference number	Country	River basin	Facility name	Total water withdrawals (megaliters/year) at this facility	How does the total water withdrawals at this facility compare to the last reporting year?	Please explain the change if substantive
Facility 1	South Africa	Mzimvubu-Tsitsikamma(WMA)	Port Elizabeth	163.34	Lower	Water reduced due to implemented water conservation initiatives at the Steriles Facility in Port Elizabeth.
Facility 2	South Africa	Mzimvubu-Tsitsikamma(WMA)	East London	18.78	Lower	Reduced water consumption due to resolution of technical challenges experienced during commissioning of the High Volume Liquids Reverse Osmosis (RO) Plant.
Facility 4	South	Limpopo (WMA)	Johannesburg	77.94	Higher	Increase in production volumes.

Facility reference number	Country	River basin	Facility name	Total water withdrawals (megaliters/year) at this facility	How does the total water withdrawals at this facility compare to the last reporting year?	Please explain the change if substantive
	Africa					
Facility 5	South Africa	Berg-Olifants (WMA)	Cape Town	37.25	Much lower	Discontinuation of the production of a water intensive product.
Facility 6	Germany	Other: Schlei/Trave River Basin District	Germany	36.57	About the same	None
Facility 7	Australia	Other: South East Coast (Victoria) River Region	Australia	58.63	Much lower	Divestment of facilities in Australia.

Further Information

None

Page: W5. Facility Level Water Accounting (II)

W5.1a

Water withdrawals: for the reporting year, please provide withdrawal data, in megaliters per year, for the water sources used for all facilities reported in W5.1

Facility reference number	Fresh surface water	Brackish surface water/seawater	Rainwater	Groundwater (renewable)	Groundwater (non-renewable)	Produced/process water	Municipal water	Wastewater from another organization	Comment

Facility reference number	Fresh surface water	Brackish surface water/seawater	Rainwater	Groundwater (renewable)	Groundwater (non-renewable)	Produced/process water	Municipal water	Wastewater from another organization	Comment
Facility 1	0	0	0	0	0	0	163.34	0	All water utilised is withdrawn from the Municipal water supplies.
Facility 2	0	0	0	0	0	0	18.78	0	All water utilised is withdrawn from the Municipal water supplies.
Facility 4	0	0	0	0	0	0	77.94	0	All water utilised is withdrawn from the Municipal water supplies.
Facility 5	0	0	0	0	0	0	37.25	0	All water utilised is withdrawn from the Municipal water supplies.
Facility 6	0	0	0	0	0	0	36.57	0	All water utilised is withdrawn from the Municipal water supplies.
Facility 7	0	0	0	0	0	0	58.63	0	All water utilised is withdrawn from the Municipal water supplies.

W5.2

Water discharge: for the reporting year, please complete the table below with water accounting data for all facilities included in your answer to W3.2a

Facility reference number	Total water discharged (megaliters/year) at this facility	How does the total water discharged at this facility compare to the last reporting year?	Please explain the change if substantive
Facility 1	138.84	This is our first year of measurement	Water discharge is estimated from calculations attained from the service providers.
Facility 2	15.96	This is our first year of measurement	Water discharge is estimated from calculations attained from the service providers.
Facility 4	66.25	This is our first year of measurement	Water discharge is estimated from calculations attained from the service providers.
Facility 5	19	This is our first year of measurement	Water discharge is estimated from calculations attained from the service providers.
Facility 6	12.07	This is our first year of measurement	Water discharge is estimated from calculations attained from the service providers.
Facility 7	32.83	This is our first year of measurement	Water discharge is estimated from calculations attained from the service providers.

W5.2a

Water discharge: for the reporting year, please provide water discharge data, in megaliters per year, by destination for all facilities reported in W5.2

Facility reference number	Fresh surface water	Municipal Treatment Plant	Seawater	Groundwater	Comment
Facility 1	0	138.84	0	0	All waste water is discharged into Municipal treatment plants.
Facility 2	0	15.96	0	0	All waste water is discharged into Municipal treatment plants.
Facility 4	0	66.25	0	0	All waste water is treated and then discharged into Municipal treatment plants
Facility 5	0	19	0	0	All waste water is discharged into Municipal

Facility reference number	Fresh surface water	Municipal Treatment Plant	Seawater	Groundwater	Comment
					treatment plants.
Facility 6	0	12.07	0	0	All waste water is discharged into Municipal treatment plants.
Facility 7	0	32.83	0	0	All waste water is discharged into Municipal treatment plants.

W5.3

Water consumption: for the reporting year, please provide water consumption data for all facilities reported in W3.2a

Facility reference number	Consumption (megaliters/year)	How does this compare to the last reporting year?	Please explain the change if substantive
Facility 1	24.50	Lower	Water reduced due to implemented water conservation initiatives at the Steriles facility in Port Elizabeth.
Facility 2	2.82	Lower	Reduced water consumption due to resolution of technical challenges experienced during commissioning of the High Volume Liquids Reverse Osmosis (RO) Plant.
Facility 4	11.69	Higher	Increase in production volumes
Facility 5	18.25	Much lower	Discontinuation of the production of a water intensive product.
Facility 6	24.50	About the same	None
Facility 7	25.80	Much lower	Divestment of facilities in Australia.

W5.4

For all facilities reported in W3.2a what proportion of their water accounting data has been externally verified?

Water aspect	% verification	What standard and methodology was used?
Water withdrawals- total volumes	76-100	AA1000AS
Water withdrawals- volume by sources	76-100	AA1000AS
Water discharges- total volumes	76-100	AA1000AS
Water discharges- volume by destination	76-100	AA1000AS
Water discharges- volume by treatment method	76-100	AA1000AS
Water discharge quality data- quality by standard effluent parameters	76-100	AA1000AS
Water consumption- total volume	76-100	AA1000AS

Further Information

None

Module: Response

Page: W6. Governance and Strategy

W6.1

Who has the highest level of direct responsibility for water within your organization and how frequently are they briefed?

Highest level of direct responsibility for water issues	Frequency of briefings on water issues	Comment
Individual/Sub-set of the Board or other committee appointed by the Board	Scheduled-quarterly	The Aspen Board is tasked with this responsibility.

W6.2

Is water management integrated into your business strategy?

Yes

W6.2a

Please choose the option(s) below that best explain how water has positively influenced your business strategy

Influence of water on business strategy	Please explain
Introduction of water management KPIs	Water consumption and conservation have been identified as key performance indicators (KPI's) and are reported to the Aspen board on a quarterly basis. Aspen's commitment to water conservation/management is formalised in the Aspen Pharmacare Environmental Management Principles Policy. In addition, constant awareness training is provided to employees on effective water conservation.

W6.2b

Please choose the option(s) below that best explains how water has negatively influenced your business strategy

Influence of water on business strategy	Please explain
No measurable influence	No measurable influence.

W6.2c

Please choose the option that best explains why your organization does not integrate water management into its business strategy and discuss any future plans to do so

Primary reason	Please explain

W6.3

Does your organization have a water policy that sets out clear goals and guidelines for action?

Yes

W6.3a

Please select the content that best describes your water policy (tick all that apply)

Content	Please explain why this content is included
Incorporated within group environmental, sustainabiilty or EHS policy	Aspen's strategic objective, "To practise good corporate citizenship", supports the Group's objectives around climate change and responsible environmental management. To this end, Aspen's sustainability management initiatives promote the themes of "Preserving our environment" and "Managing efficient utilisation of scarce resources". These initiatives are monitored by the following material key performance indicators which are reported to the Board as per the agreed reporting timelines: • Volume of carbon emissions (bi-annually); • Volume of waste recycled (quarterly); • Electricity consumed (quarterly); and • Volume of

Content	Please explain why this content is included
	water used(quarterly). These indicators flag areas of risks and opportunities within the environmental management systems and programmes

W6.4

How does your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) during the most recent reporting period compare to the previous reporting period?

Water CAPEX (+/- % change)	Water OPEX (+/- % change)	Motivation for these changes
0	0	Note: The data is not readily available as Aspen currently does not have a mechanism in place to record spend related specifically to water.

Further Information

None

Page: W7. Compliance

W7.1

Was your organization subject to any penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations in the reporting year?

Yes, not significant

W7.1a

Please describe the penalties, fines and/or enforcement orders for breaches of abstraction licenses, discharge consents or other water and wastewater related regulations and your plans for resolving them

Facility name	Incident	Incident description	Frequency of occurrence in reporting year	Financial impact	Currency	Incident resolution
Aspen Nutritionals	Fine	Periodic non-compliances with respect to effluent quality were experienced during the start-up and commissioning of the new effluent treatment plant	3	25000	ZAR (R)	The problems experienced during start-up and commissioning were resolved.

W7.1b

What proportion of your total facilities/operations are associated with the incidents listed in W7.1a

4%

W7.1c

Please indicate the total financial impacts of all incidents reported in W7.1a as a proportion of total operating expenditure (OPEX) for the reporting year. Please also provide a comparison of this proportion compared to the previous reporting year

Impact as % of OPEX	Comparison to last year
0	No change

Further Information

None

Page: W8. Targets and Initiatives

W8.1

Do you have any company wide targets (quantitative) or goals (qualitative) related to water?

Yes, targets and goals

W8.1a

Please complete the following table with information on company wide quantitative targets (ongoing or reached completion during the reporting period) and an indication of progress made

Category of target	Motivation	Description of target	Quantitative unit of measurement	Base-line year	Target year	Proportion of target achieved, % value
Reduction in consumptive volumes	Water stewardship	Water conservation through the installation of HVAC condensate recovery system at the Steriles facility.	Other: Reduction of 50KL in consumption per month	2013	2014	100%
Reduction in consumptive volumes	Other: Resource Conservation	Water conservation through the installation of Reverse Osmosis buffer tank on the multitron multi-effect still at the Steriles facility	Other: Reduction of 100KL in consumption per month	2013	2014	100%

W8.1b

Please describe any company wide qualitative goals (ongoing or reached completion during the reporting period) and your progress in achieving these

Goal	Motivation	Description of goal	Progress
Other: Promote water conservation and water recycling	Other: Natural resources conservation	Promoting water conservation is part of the company sustainability KPIs. Aspen has a resource conservation manager whose function is to identify conservation opportunities and setting of formal targets.	On going

W8.1c

Please explain why you do not have any water-related targets or goals and discuss any plans to develop these in the future

Further Information

None

Module: Linkages/Tradeoff

Page: W9. Managing trade-offs between water and other environmental issues

W9.1

Has your organization identified any linkages or trade-offs between water and other environmental issues in its value chain?

No

W9.1a

Please describe the linkages or trade-offs and the related management policy or action

Environmental issues	Linkage or trade-off	Policy or action

Further Information

None

Module: Sign Off

Page: Sign Off

W10.1

Please provide the following information for the person that has signed off (approved) your CDP water response

Name	Job title	Corresponding job category
Dr Morne Geyser	Group Executive: Strategic Operations	Board/Executive board

W10.2

Addressing water risks effectively, in many instances, requires collective action. CDP would like to support you in finding potential partners that are also working to tackle water challenges in the river basins you report against. Please select if your organization would like CDP to transfer your publicly disclosed risk and impact drivers and response strategy data from questions W1.4a, W3.2b, W3.2c, W4.1a and W8.1b to the United Nations Global Compact Water Action Hub.

Yes

Further Information

CDP