



Water 2017 Information Request CNX Coal Resources, LP

Module: Introduction

Page: W0. Introduction

W0.1

Introduction

Please give a general description and introduction to your organization

Headquartered in Canonsburg, Pennsylvania, CNX Coal Resources LP (NYSE: CNXC) is a Pittsburgh-based growth-oriented master limited partnership which is focused on managing and growing its thermal coal operations. CNXC owns 25% undivided interest in, and operational control over, CONSOL Energy, Inc.'s Pennsylvania mining complex. The Pennsylvania mining complex consists of three underground mines and related infrastructure that produce high-Btu bituminous thermal coal that is sold primarily to electricity generators in the eastern United States. Additional information can be found at www.cnxlp.com.

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
Fri 01 Jan 2016 - Sat 31 Dec 2016

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?

No

W0.4a

Exclusions

Please report the exclusions in the following table

Exclusion	Please explain why you have made the exclusion

Further Information

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	Neutral	Not important at all	Coal mining activities require a large supply of water, but not necessarily good quality freshwater. CNXC looks for opportunities to utilize alternative sources of water, such as recycled or treated water from other systems within our operations. We have no indirect water use needs.
Sufficient amounts of recycled, brackish and/or produced water available for use	Not very important	Not important at all	Coal mining activities require a large supply of water, but not necessarily good quality freshwater. CNXC looks for opportunities to utilize alternative sources of water, such as recycled or treated water from other systems within our operations. We have no indirect water use needs.

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	CNXC tracks the volume and source of all water withdrawals and reports to the states in which we operate, as required by our permits. This data is publicly available in our annual Corporate Responsibility Report.
Water withdrawals- volume by sources	76-100	CNXC tracks the volume and source of all water withdrawals and reports to the states in which we operate, as required by our permits. This data is publicly available in our annual Corporate Responsibility Report.
Water discharges- total volumes	76-100	CNXC tracks the volume of water discharged and reports it to the states in which we operate, as required by our permits. Total volume of water discharged is made public in our annual Corporate Responsibility Report.
Water discharges- volume by destination	76-100	CNXC tracks the discharge of water by destination. This data is compiled and made publicly available through discharge monitoring reports submitted to state regulatory agencies in accordance with our NPDES permits. However, volume discharged by destination is not included in our Corporate Responsibility Report.
Water discharges- volume by treatment method	76-100	CNXC tracks the volume of water discharged by treatment method; however, these data are not included in our Corporate Responsibility Report.
Water discharge quality	76-100	CNXC monitors the water quality of our discharges through routine monitoring of effluent

Water aspect	% of sites/facilities/operations	Please explain
data- quality by standard effluent parameters		parameters in accordance with our NPDES permits. These data are publicly available through discharge monitoring reports submitted to state regulatory agencies.
Water consumption- total volume	76-100	CNXC does not regularly track consumption volumes company-wide, although we are able to calculate consumption volumes through our water balance. We do not regularly monitor this figure, because there is no business need or regulatory requirement for it.
Facilities providing fully-functioning WASH services for all workers	76-100	CNXC assures availability of water for potable uses, sanitation, and hygiene for all of its employees in accordance with United States' Mine Safety (MSHA) Occupational Safety and Health (OSHA) standards. All potable water is metered and accounted for through our water utility vendors.

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	1867	About the same	Fresh surface water is typically utilized for coal preparation. Between 2016 and 2017, our coal production volumes did not significantly differ, and consequently, our fresh water withdrawals did not change.
Brackish surface water/seawater	0	Not applicable	CNXC does not withdraw water from brackish surface water or seawater sources.
Rainwater	0	Not applicable	CNXC does not track the use of rainwater across our operations.
Groundwater - renewable	428	Much lower	In 2016, CNXC increased its volume of recycled water used in operations. Because of the availability of recycled water, the need for alternative sources, such as groundwater, decreased.
Groundwater - non-renewable	0	Not applicable	CNXC does not withdraw water from non-renewable groundwater sources.
Produced/process water	0	About the same	The definition of produced/process water explicitly excludes the accounting of recycled water in this section of the report.
Municipal supply	136	Much lower	In 2016, CNXC increased its volume of recycled water used in operations. Because of the availability of recycled water, the need for alternative sources, such as municipal water, decreased.

Source	Quantity (megaliters/year)	How does total water withdrawals for this source compare to the last reporting year?	Comment
Wastewater from another organization	0	Not applicable	CNXC does not utilize wastewater from other organizations in our operations.
Total	2438	Much lower	

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	1343	Higher	In the fourth quarter of 2015, CNXC completed construction of a conventional mine water treatment plant. Increased discharge of treated mine water can be attributed to continuous operation of this new facility in 2016.
Brackish surface water/seawater	0	Not applicable	CNXC does not discharge water to brackish surface water or seawater.
Groundwater	0	Not applicable	CNXC does not discharge water to groundwater sources.
Municipal/industrial wastewater treatment plant	0	Not applicable	CNXC does not discharge water to municipal wastewater treatment plants.
Wastewater for another organization	0	Not applicable	CNXC does not provide wastewater to other organizations for re-use.
Total	1343	Higher	In the fourth quarter of 2015, CNXC completed construction of a conventional mine water treatment plant. Increased discharge of treated mine water can be attributed to continuous operation of this new facility in 2016.

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
2438	Much lower	In 2016, CNXC increased its volume of recycled water used in operations. Because of the availability of recycled water, less water was needed for operations by way of fresh and surface water withdrawals. The overall decrease in consumption is directly related to the decrease in water withdrawal.

W1.3

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

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
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W1.4

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

No

W1.4a

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

Country	River basin	Impact driver	Impact	Description of impact	Length of impact	Overall financial impact	Response strategy	Description of response strategy
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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
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Further Information

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	All facilities	CNXC includes water risks in our broader company-wide risk assessments. Because our operations are dependent on water, each phase of project development is assessed for water usage needs and careful planning is critical to ensure sufficient water availability.

W2.3

Please state how frequently you undertake water risk assessments, at 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
Annually	Region	3 to 6 years	Water risk is re-evaluated on a yearly planning basis to take into consideration any additional seasonal impacts beyond known low and high flow conditions, and any operational restrictions that may arise due to market conditions, for example. CNXC's operational water needs and risks are assessed ten years into

Frequency	Geographic scale	How far into the future are risks considered?	Comment
			the future, with permit renewals every five years.

W2.4

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

Yes, evaluated over the next 1 year

W2.4a

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

Water risk is re-evaluated on a yearly planning basis to take into consideration any additional seasonal impacts beyond known low and high flow conditions, any operations restrictions that may arise due to market conditions, for example. CNXC's operational water needs and risks are assessed ten years into the future, with permit renewals every five years.

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

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 Life Cycle Assessment	Facility specific water balance models are utilized for our operations, including mine water production volumes and water usage needs during mining and coal preparation processes.

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 parameters at a local level	Not relevant, included	Current water availability is more than adequate to meet our demand at the local level.
Current water regulatory frameworks and tariffs at a local level	Not relevant, included	There are currently no specific regulatory frameworks that might impact our operations at the local level. We are committed to following all applicable local, state, and federal laws regarding water use.
Current stakeholder conflicts concerning water resources at a local level	Not relevant, included	There are currently no conflicts among stakeholder users in the watershed basins in which we operate.
Current implications of water on your key commodities/raw materials	Not relevant, explanation provided	Water sources in the regions in which we operate are abundant and therefore do not impact the production of commodities.
Current status of ecosystems and habitats at a local level	Relevant, included	We operate in many ecosystems and habitats that are critical or threatened and endangered, and thus employ a robust stewardship management process. We have chemists and hydrogeologists as well as environmental engineers on staff to ensure we do not negatively impact these critical habitats. We assess and incorporate those risks into our operational planning process.
Current river basin management plans	Not relevant, explanation provided	We manage our discharges within a given river basin where necessary to avoid impacts during seasonal low flow conditions.
Current access to fully-functioning WASH services for all employees	Not relevant, included	We include this in our assessments, but only from the standpoint of ensuring municipal and/or potable water sources are available to ensure the health and safety of all our employees and also as

Issues	Choose option	Please explain
		part of our corporate responsibility.
Estimates of future changes in water availability at a local level	Relevant, not yet included	As industry activity increases in the region, along with the corresponding growth in the surrounding communities, future water demands could dictate a difference in water use. These demands have not yet exceeded capacity, so it is difficult to predict whether and if there may be an impact. However, we employ a management plan that is predicated on the fullest use of recycled and alternative sourced water in order to minimize our impact and ensure long-term supply.
Estimates of future potential regulatory changes at a local level	Relevant, included	Local governments are engaging more in the oversight of the energy industry. As part of the permitting process, we regularly engage town councils and community organizations in our operational footprint in order to proactively address emerging issues.
Estimates of future potential stakeholder conflicts at a local level	Relevant, included	As communities grow up around the energy boom in the Appalachian region, stakeholder conflicts could potentially arise. We regularly engage with local townships and organizations as a community partner to help strategize and plan for future growth and demands in order to minimize conflicts.
Estimates of future implications of water on your key commodities/raw materials	Not relevant, explanation provided	Since we do not rely on raw materials or feedstocks in our supply chain to be able to produce energy, we do not believe there is the potential for future implications for our businesses.
Estimates of future potential changes in the status of ecosystems and habitats at a local level	Relevant, included	We actively monitor and evaluate the ecosystems in which we operate, and engage in the regulatory process to protect these systems. We incorporate those estimated changes in our assessments and their corresponding impacts.
Scenario analysis of availability of sufficient quantity and quality of water relevant for your operations at a local level	Relevant, included	Water quantity (versus quality) is critical to our operations, and we engage in scenario planning to ensure our business plans incorporate alternatives that will maintain continuity of operations.
Scenario analysis of regulatory and/or tariff changes at a local level	Relevant, included	We believe increased federal and state policies and rulemakings will impact local planning that may in turn be reflected in additional restrictions or conditions in our operating permits.
Scenario analysis of stakeholder conflicts concerning water resources at a local level	Relevant, included	Potential conflict in the future may create a negative brand image for our company's businesses, and therefore we engage at the local level to educate the communities on our water management approach and incorporate any concerns in our planning. This may involve building water treatment for local communities in exchange for licenses to operate.
Scenario analysis of implications of water on your key commodities/raw materials	Not relevant, explanation provided	We do not depend on water-intensive products in our supply chain in order to produce energy
Scenario analysis of potential changes in the status of ecosystems and habitats at a local level	Relevant, included	We understand the impacts of our operations on local ecosystems and habitats, and therefore design our layout to minimize our operational footprint and avoid, minimize, and mitigate our impacts to natural resources.
Other		

W2.7

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

Stakeholder	Choose option	Please explain
Customers	Not relevant, included	We do consider the needs of our coal customers within our water risk assessments. For example, our utility customers annually assess their supply chain. During these assessments we are able to demonstrate our stewardship approach to energy production. We engage with our customers through corporate reporting such as our annual corporate responsibility report, and through communications with our marketing department as needed.
Employees	Relevant, included	All employees receive annual safety and environmental training. This training includes topics related to working safely near sensitive areas such as wetlands. In addition best management practices for water usage, water handling, and water withdrawal are communicated to applicable employees through regular training.
Investors	Relevant, included	Water is a critical component of our business, and our investors are savvy to recognize that fact. Thus their expectations are included in our planning and assessment. We communicate regularly with our investors through publications such as our annual corporate responsibility report, ESG surveys such as this, and in-person meetings throughout the year.
Local communities	Relevant, included	We partner with our local communities because they are critical to our social license to operate. We regularly engage with local elected officials and members of the public by participating in public meetings in the local communities where we operate, and through our annual corporate responsibility report.
NGOs	Relevant, included	As part of the permitting process, we regularly engage non-governmental organizations within our operational footprint in order to proactively address emerging issues.
Other water users at a local level	Relevant, included	Other water users such as local townships, other industry users, etc., are critical to the overall water demand and supply equation, and thus must be factored into our analysis to ensure proper valuation. We regularly engage with local township officials through public meetings. We also participate in industry working groups and regularly correspond with our peers regarding issues such as water use, which affect our businesses. We are also required to maintain a regulatory required water management plan which includes these considerations.
Regulators	Relevant, included	We must comply with the water withdrawal and disposal regulations for the state agencies in the areas where we operate. We employ a team of regulatory affairs and permitting staff to maintain compliance. We are also required to maintain a regulatory required water management plan which includes these considerations.
River basin management authorities	Not relevant, explanation provided	We operate within the regulatory framework of the state agencies in our operating regions. We are sensitive to Susquehanna River Basin Commission and Delaware River Basin Commission best management practices as a model for river basin management.
Statutory special interest groups at a local level	Not relevant, included	By engaging with the local townships through attendance at public meetings, we include all local stakeholders and incorporate their issues and concerns into our operational plans.
Suppliers	Not relevant, included	Suppliers' water usage is not a concern for us since we do not rely on raw materials or commodities for feedstock in the production of energy.
Water utilities at a local level	Relevant, included	Local water utilities are a minimal source of water for our operations. Their needs and ability to supply water are factored into our planning process.
Other		

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

Primary reason	Please explain
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Further Information

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 only

W3.2

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

Substantive changes include restricted access to freshwater, the inability to obtain permits to recycle water within our operations, inability to build the requisite infrastructure to recycle our water, and any changes in regulatory requirements which would make it infeasible or us unable to economically treat and ultimately dispose of wastewater.

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 company-wide facilities this represents

Country	River basin	Number of facilities exposed to water risk	Proportion of company-wide facilities that this represents (%)	Comment
United States of America	Other: Ohio	1	91-100	CNXC defines the term facility as the entire Pennsylvania Mining Complex, under which we have operational control. The Pennsylvania mining complex includes three underground mines as well as a coal preparation facility. Substantive changes include restricted access to freshwater, the inability to obtain permits to recycle water within our operations, inability to build the requisite infrastructure to recycle our water, and any changes in regulatory requirements which would make it infeasible or us unable to economically treat and ultimately dispose of wastewater.

W3.2b

For each river basin mentioned in W3.2a, please provide the proportion of the company's total financial value that could be affected by water risks

Country	River basin	Financial reporting metric	Proportion of chosen metric that could be affected	Comment
United States of America	Other: Ohio	% global production volume	91-100	Substantive changes include restricted access to freshwater, the inability to obtain permits to recycle water within our operations, inability to build the requisite infrastructure to recycle our water, and any changes in regulatory requirements which would make it infeasible or us unable to economically treat and ultimately dispose of wastewater.

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 potential impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
United States of America	Other: Ohio	Physical-Seasonal supply variability/Inter annual variability Regulatory-Increased difficulty in obtaining withdrawals/operations permit	Water supply disruption	Due to seasonal variation in water supply or increased difficulty in obtaining withdrawals due to regulatory restrictions, there may be a need to transport water greater distances for use in our operations. This would increase the cost of production.	Unknown	Probable	Medium	Infrastructure investment Promote best practice and awareness Supplier diversification	Unknown	Reevaluation of means of transporting water and diversification of water supply sources. Also potential infrastructure investment.
United States of America	Other: Ohio	Regulatory-Increased difficulty in obtaining withdrawals/operations permit Regulatory-Regulation of discharge quality/volumes leading to higher compliance costs	Delays in permitting	Inability to obtain approval of water management plans due to increased regulatory oversight and regional water demand.	1-3 years	Unlikely	Medium	Engagement with public policy makers Engagement with other stakeholders in the river basin Promote best practice and awareness	Unknown	We avoid potential problem in obtaining permits through advanced planning and long lead times for review of permits.
United States of America	Other: Ohio	Physical-Inadequate infrastructure Regulatory-Regulation of discharge quality/volumes leading to higher compliance costs	Higher operating costs	If regulatory requirements become more stringent, meeting these requirements could increase the cost of compliance and				Engagement with public policy makers Establish site-specific targets Promote best practice and	Unknown	By promoting best practices, establishing site-specific targets, and engaging with public policy makers

Country	River basin	Risk driver	Potential impact	Description of potential impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
				require us to build more infrastructure to support our operations.				awareness		regarding water quality issues, we hope to avoid building additional infrastructure.

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 potential impact	Timeframe	Likelihood	Magnitude of potential financial impact	Response strategy	Costs of response strategy	Details of strategy and costs
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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
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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
Other:	Since we do not rely on raw materials or feedstocks in our supply chain to be able to produce energy, we do not believe there is the potential for future implications for our businesses.

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
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Further Information

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	Comment
United States of America	Sales of new products/services	Our operations overlay the Marcellus and Utica shale plays, where natural gas exploration & production activity levels have increased in recent years. Natural gas production uses large volumes of water to hydraulically fracture horizontal shale gas wells. We believe these two activities can be mutually combined to the benefit of the company, to gas producers in the region, and to the environment. This can occur by utilizing treated mine water in combination with freshwater and flowback water used in gas operations to reduce freshwater needs for gas production.	Current-up to 1 year	

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
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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
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Further Information

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
Facility 1	United States of America	Other: Ohio	Pennsylvania Mining Complex	2438	Much lower	The need for withdrawals from fresh or surface water sources decreased as a result of an increase in the volume of recycled water available for preferential use in operations.

Further Information

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 1	1867	0	0	428	0	0	136	0	

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
Facility 1	1343	Higher	In the fourth quarter of 2015, CNXC completed construction of a new conventional mine water treatment plant. The increase in water discharged in 2016 can be attributed to the continuous operation of this new facility throughout the year.

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/industrial wastewater treatment plant	Seawater	Groundwater	Wastewater for another organization	Comment
Facility 1	1343	0	0	0	0	All discharges are to fresh surface water bodies, in accordance with our NPDES permits.

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
Facility 1	2438	Much lower	Due to increased availability of recycled water, the need to withdraw water for use in operations decreased during the year. As a result of the decrease in withdrawal, the overall facility consumption decreased accordingly.

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	Not verified	CNXC did not seek third party verification of our water metrics in 2016.
Water withdrawals- volume by sources	Not verified	CNXC did not seek third party verification of our water metrics in 2016.
Water discharges- total volumes	Not verified	CNXC did not seek third party verification of our water metrics in 2016.
Water discharges- volume by destination	Not verified	CNXC did not seek third party verification of our water metrics in 2016.
Water discharges- volume by treatment method	Not verified	CNXC did not seek third party verification of our water metrics in 2016.
Water discharge quality data- quality by standard effluent parameters	Not verified	CNXC did not seek third party verification of our water metrics in 2016.
Water consumption- total volume	Not verified	CNXC did not seek third party verification of our water metrics in 2016.

Further Information

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
Senior Manager/Officer	Other: Daily	The Director, Coal Engineering, is responsible for the daily environmental compliance of the company. As such, he is briefed daily on matters concerning water use, disposal, compliance, and other water related issues.

W6.2

Is water management integrated into your business strategy?

Yes

W6.2a

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

Influence of water on business strategy	Please explain
Establishment of sustainability goals	The Pennsylvania Mining Complex has established a policy of recycling water stored in our freshwater lake and coal slurry impoundments for operational purposes, as opposed to discharging this water to fresh surface water bodies. The goal for recycling this water is 100%.
Introduction of water management KPIs	Our employees' short term incentive compensation is tied to water KPIs, so all employees understand the importance of safely and compliantly handling water across the company.
Water resource considerations are factored into location planning for new	Our operational water needs are assessed based on our mine plan. Long term plans are developed for both anticipated water supply needs and compliant water discharges.

Influence of water on business strategy	Please explain
operations Publicly demonstrated our commitment to water	We have reported our water withdrawals, reuse, and disposal volumes in our annual Corporate Responsibility Report.

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
Increased capital expenditure	Increased expenditure may be incurred if capital intensive wastewater treatment technologies are needed to achieve compliance with permitted discharge requirements. Consequently, we've installed the infrastructure necessary for water recycling to the greatest extent possible.

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
Company-wide Other: Incorporated within group environmental, sustainability, or EHS policy	Our company-wide policy regarding water usage and reuse/recycling, as well as compliance with discharge permits is incorporated into our Environmental Management System and managed at various levels of company responsibility.

W6.4

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

Water CAPEX (+/- % change)	Water OPEX (+/- % change)	Motivation for these changes
-98	1	In 2015, construction of a new conventional mine water treatment facility was completed. Construction of this facility accounted for the vast majority of capital expenditures in 2015. No capital projects of that scale or magnitude were completed in 2016, accounting for the significant decrease in expenditure.

Further Information

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, 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
Pennsylvania Mining Complex	Penalty	Settlement with United States Environmental Protection Agency, the Department of Justice, and the Pennsylvania Department of Environmental Protection related to historical effluent limit violations occurring between 2007 and 2012.	1	1000000	USD(\$)	In 2013, installation of a fully operational pumpback system was completed at the Pennsylvania Mining Complex. The system allows for wastewater that was primarily subject to the effluent violations referenced in this penalty to be reused for operational purposes.

W7.1b

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

100%

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
0.47	No change

Further Information

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
Absolute reduction of water withdrawals	Recommended sector best practice	Meet 100% recycle/reuse of water stored in our freshwater lake and coal slurry impoundments to reduce withdrawal volumes and prevent discharge.	Other: % Recycle/Reuse in Operations	2014	2016	100%
Water pollution prevention	Risk mitigation	KPI and associated short term incentive compensation for CNXC employees tied to a reduction in noncompliance events. The goal is 100% compliance and we achieved 99% in 2016.	Other: Number of Noncompliant Events	2016	2016	99%

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
Strengthen links with local community	Shared value	Increased community outreach to educate the public about our water stewardship practices. We routinely engage the public and communities in our operating area through public meetings and outreach events conducted as part of the regulatory permitting process.	Implemented, ongoing.
Other: Promote the use of recycled mine water in oil & gas production	Water stewardship	Promote the re-use of treated mine influenced water for use in oil and gas production.	Implemented, ongoing.
Watershed remediation and habitat restoration, ecosystem preservation	Shared value	Creation of wetland mitigation banks.	Implemented, ongoing.

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

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?

Yes

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
Biodiversity	Linkage	Continue to manage our treated water discharge as to not impact biodiversity in the watersheds where we operate.
Reuse of wastewater in mining and coal preparation activities.	Linkage	Reuse of produced mine water and operations eliminates the need for and impacts of surface water withdrawals, thus minimizing the impact to the environment.

Further Information

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
Katharine A. Fredriksen	President	President

W10.2

Please indicate that your organization agrees for CDP to transfer your publicly disclosed data regarding your response strategies to the CEO Water Mandate Water Action Hub.

Note: Only your responses to W1.4a (response to impacts) and W3.2c&d (response to risks) will be shared and then reviewed as a potential collective action project for inclusion on the WAH website.

By selecting Yes, you agree that CDP may also share the email address of your registered CDP user with the CEO Water Mandate. This will allow the Hub administrator to alert your company if its response data includes a project of potential interest to other parties using water resources in the geographies in which you operate. The Hub will publish the project with the associated contact details. Your company will be provided with a secure log-in allowing it to amend the project profile and contact details.

Yes