MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT

CLASS COST OF SERVICE

APPENDIX 1

Staff Credentials

THE EMPIRE DISTRICT ELECTRIC COMPANY

CASE NO. ER-2019-0374

Jefferson City, Missouri January 29, 2020

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Mark Kiesling

Present Position

I am a Utility Management Analysis III in the Energy Resources Department, Industry Analysis Division of the Missouri Public Service Commission. I have been in my current position since January 18th, 2018. I have been employed by the Commission since October, 2014.

Educational Background and Work Experience

I have a Bachelor of Science degree in Marketing from Lincoln University, Jefferson City, MO in 2001. Prior to joining the Commission, I was employed by the Missouri Department of Economic Development as a Project Manager, working to help communities attract business to their communities and help existing business expand.

Previous Testimony of Mark Kiesling

Case No.	Company	Type of Filing	Issue
WR-2017-0343	Gascony Water	Staff Report	Customer Service

Robin Kliethermes

Present Position:

I am the Rate and Tariff Examination Manager of the Tariff and Rate Design Department, Industry Analysis Division, of the Missouri Public Service Commission ("Commission"). I have held this position since July 16th, 2016. I have been employed by the Commission since March of 2012. In May of 2013, I presented on Class Cost of Service and Cost Allocation to the National Agency for Energy Regulation of Moldova ("ANRE") as part of the National Association of Regulatory Utility Commissioners ("NARUC") Energy Regulatory Partnership Program. I am also a member of the Electric Meter Variance Committee.

Educational Background and Work Experience:

I have a Bachelor of Science degree in Parks, Recreation and Tourism with a minor in Agricultural Economics from the University of Missouri – Columbia in 2008, and a Master of Science degree in Agricultural Economics from the same institution in 2010. Prior to joining the Commission, I was employed by the University of Missouri Extension as a 4-H Youth Development Specialist and County Program Director in Gasconade County.

Additionally, I completed two online classes through Bismarck State College: Energy Markets and Structures (ENRG 420) in December, 2014 and Energy Economics and Finance (ENRG 412) in May, 2015.

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Previous Testimony of Robin Kliethermes

Case No.	Company	Type of Filing	Issue
ER-2012-0166	Ameren Missouri	Staff Report	Economic
			Considerations
ER-2012-0174	Kansas City Power&	Staff Report	Economic
	Light Company		Considerations
ER-2012-0175	KCP&L Greater	Staff Report	Economic
	Missouri Operations		Considerations & Large
	Company		Power Revenues
ER-2012-0345	Empire District Electric	Staff Report	Economic
	Company		Considerations, Non-
			Weather Sensitive
			Classes & Energy
			Efficiency
HR-2014-0066	Veolia Kansas City	Staff Report	Revenue by Class and
CD 2014 0096	Summit Natural Gas	Ct off Down out	Class Cost of Service
GR-2014-0086	Summit Natural Gas	Staff Report	Large Customer Revenues
GR-2014-0086	Summit Natural Gas	Rebuttal	
GR-2014-0080	Summit Natural Gas	Kebuttai	Large Customer Revenues
EC-2014-0316	City of O'Fallon	Staff Memorandum	Overview of Case
LC 2014 0510	Missouri and City of	Starr Memorandum	overview of case
	Ballwin, Missouri v.		
	Union Electric		
	Company d/b/a Ameren		
	Missouri		
EO-2014-0151	KCP&L Greater	Staff Recommendation	Renewable Energy
	Missouri Operations		Standard Rate
	Company		Adjustment Mechanism
			(RESRAM)
ER-2014-0258	Ameren Missouri	Staff Report	Rate Revenue by Class,
			Class Cost of Service
			study, Residential
			Customer Charge
ER-2014-0258	Ameren Missouri	Rebuttal	Weather normalization
			adjustment to class
ED 2014 0250		C arana 1	billing units
ER-2014-0258	Ameren Missouri	Surrebuttal	Residential Customer
			Charge and Class allocations
ER-2014-0351	Empire District Electric	Staff Report	Rate Revenue by Class,
LIX-2014-0331	Company	Stall Report	Class Cost of Service
	Company		study, Residential
			Customer Charge
			Customer Charge

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<u>cont'd Previous Testimony of</u> <u>Robin Kliethermes</u>

Case No.	Company	Type of Filing	Issue
ER-2014-0351	Empire District Electric Company	Rebuttal & Surrebuttal	Residential Customer, Interruptible Customers
ER-2014-0370	Kansas City Power & Light Company	Staff Report	Rate Revenue by Class, Class Cost of Service study, Residential Customer Charge
ER-2014-0370	Kansas City Power & Light Company	Rebuttal & Surrebuttal	Class Cost of Service, Rate Design, Residential Customer Charge
ER-2014-0370	Kansas City Power & Light Company	True-Up Direct & True-Up Rebuttal	Customer Growth & Rate Switching
EE-2015-0177	Kansas City Power & Light Company	Staff Recommendation	Electric Meter Variance Request
EE-2016-0090	Ameren Missouri	Staff Recommendation	Tariff Variance Request
EO-2016-0100	KCP&L Greater Missouri Operations Company	Staff Recommendation	RESRAM Annual Rate Adjustment Filing
ET-2016-0185	Kansas City Power & Light Company	Staff Recommendation	Solar Rebate Tariff Change
ER-2016-0023	Empire District Electric Company	Staff Report	Rate Revenue by Class, CCOS and Residential Customer Charge
ER-2016-0023	Empire District Electric Company	Rebuttal & Surrebuttal	Residential Customer Charge and CCOS
ER-2016-0156	KCP&L Greater Missouri Operations	Staff Report	Rate Revenue by Class, CCOS and Residential Customer Charge
ER-2016-0156	KCP&L Greater Missouri Operations	Rebuttal & Surrebuttal	Data Availability, Energy Efficiency Revenue Adj., Residential Customer Charge
ER-2016-0179	Ameren Missouri	Rebuttal	Blocked Usage
ER-2016-0285	Kansas City Power & Light Company	Rebuttal & Surrebuttal	Clean Charge Network Tariff, Rate Design
GR-2017-0215	Spire (Laclede Gas Company)	Staff Report, Rebuttal & Surrebuttal	Tariff Issues, Rate Design and Class Cost of Service

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<u>cont'd Previous Testimony of</u> <u>Robin Kliethermes</u>

Case No.	Company	Type of Filing	Issue
GR-2017-0216	Spire (Missouri Gas	Staff Report, Rebuttal &	Tariff Issues, Rate
	Energy)	Surrebuttal	Design and Class Cost
EG 2010 0102			of Service
EC-2018-0103	Kansas City Power & Light	Staff Report	Customer Complaint
EO-2015-0055	Ameren Missouri	Rebuttal	Flex-Pay Program
GR-2018-0013	Liberty	Staff Report	Class Cost of Service and Rate Design Report
ER-2018-0145	Kansas City Power & Light	Staff Report & Rebuttal & Surrebuttal	Tariff Issues, Rate Design, Revenue, Class Cost of Service
ER-2018-0146	KCP&L Greater Missouri Operations	Staff Report & Rebuttal & Surrebuttal	Tariff Issues, Rate Design, Revenue, Class Cost of Service
EO-2018-0211	Ameren Missouri	Staff Rebuttal Report	MEEIA Margin Rates
GO-2019-0059	Spire Missouri West	Staff Recommendation & Rebuttal	Weather Normalization Adjustment Rider (WNAR)
GO-2019-0058	Spire Missouri East	Staff Recommendation & Rebuttal	Weather Normalization Adjustment Rider (WNAR)
ET-2018-0132	Ameren Missouri	Surrebuttal	Risk Sharing Mechanism
ER-2019-0291	Ameren Missouri	Staff Recommendation	MEEIA EEIC rates
GR-2019-0077	Ameren Missouri	Staff Report, Rebuttal & Surrebuttal	Tariff Issues, Rate Design, Revenue, Class Cost of Service
EO-2019-0132	KCPL and GMO	Staff Rebuttal Report	MEEIA DSIM mechanism, Tariff Issues
ER-2019-0335	Ameren Missouri	Staff Report	Cost of Service and Class Cost of Service

Sarah L.K. Lange

I received my J.D. from the University of Missouri, Columbia, in 2007, and am licensed to practice law in the State of Missouri. I received my B.S. in Historic Preservation from Southeast Missouri State University, and took courses in architecture and literature at Drury University. Since beginning my employment with the MoPSC I have taken courses in economics through Columbia College and courses in energy transmission through Bismarck State College, and have attended various trainings and seminars, indicated below.

I began my employment with the Commission in May 2006 as an intern in what was then known as the General Counsel's Office. I was hired as a Legal Counsel in September 2007, and was promoted to Associate Counsel in 2009, and Senior Counsel in 2011. During that time my duties consisted of leading major rate case litigation and settlement, and presenting Staff's position to the Commission, and providing legal advice and assistance primarily in the areas of depreciation, cost of service, class cost of service, rate design, tariff issues, resource planning, accounting authority orders, construction audits, rulemakings and workshops, fuel adjustment clauses, document management and retention, and customer complaints.

In July 2013 I was hired as a Regulatory Economist III in what is now known as the Tariff / Rate Design Department. In this position my duties include providing analysis and recommendations in the areas of RTO and ISO transmission, rate design, class cost of service, tariff compliance and design, and regulatory adjustment mechanisms and tariff design. I also continue to provide legal advice and assistance regarding generating station and environmental control construction audits and electric utility regulatory depreciation. I have also participated before the Commission under the name Sarah L. Kliethermes.

Presentations

Billing Determinants Lunch and Learn (March 27, 2019)

Support for Low Income and Income Eligible Customers, Cost-Reflective Tariff Training, in cooperation with U.S.A.I.D. and NARUC, Addis Ababa, Ethiopia (February 23 - 26, 2016)
Fundamentals of Ratemaking at the MoPSC (October 8, 2014)
Ratemaking Basics (Sept. 14, 2012)
Participant in Missouri's Comprehensive Statewide Energy Plan working group on Energy

Participant in Missouri's Comprehensive Statewide Energy Plan working group on Energy Pricing and Rate Setting Processes.

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Relevant Trainings and Seminars

"Fundamentals of Utility Law" Scott Hempling lecture series (January – April, 2019)

Today's U.S. Electric Power Industry, the Smart Grid, ISO Markets & Wholesale Power Transactions (July 29-30, 2014)

MISO Markets & Settlements training for OMS and ERSC Commissioners & Staff (Jan. 27 – 28, 2014)

Validating Settlement Charges in New SPP Integrated Marketplace (July 22, 2013)

PSC Transmission Training (May 14 – 16, 2013)

Grid School (March 4 - 7, 2013)

Specialized Technical Training - Electric Transmission (April 18 – 19, 2012)

Renewable Energy Finance Forum (Sept. 29 – Oct 3, 2010)

The New Energy Markets: Technologies, Differentials and Dependencies (June 16, 2011)

Mid-American Regulatory Conference Annual Meeting (June 5 - 8, 2011)

Utility Basics (Oct. 14 – 19, 2007)

Testimony and Staff Memoranda

Company	<u>Case No.</u>
Union Electric Company d/b/a Ameren Missouri In the Matter of of Union Electric Company d/b/a Ameren Missouri's Its Revenues for Electric Service	ER-2019-0335 Tariffs to Decrease
KCP&L Greater Missouri Operations Company In the Matter of KCP&L Greater Missouri Operations Company Required to Implement Rate Adjustments Required by 4 CSR 240-20.090(8) An Approved Fuel and Purchased Power Cost Recovery Mechanism	•
Union Electric Company d/b/a Ameren Missouri In the Matter of of Union Electric Company d/b/a Ameren Missouri's Its Revenues for Natural Gas Service	GR-2019-0077 Tariffs to Increase
Union Electric Company d/b/a Ameren Missouri In the Matter of the Application of Union Electric Company d/b/a Am Revised Tariff Sheets	ET-2019-0149 neren Missouri

<u>Company</u>	<u>Case No.</u>
The Empire District Electric Company In the Matter of The Empire District Electric Company's Revise Rider Tariff Sheets	ET-2019-0029 ed Economic Development
The Empire District Electric Company In the Matter of a Proceeding Under Section 393.137 (SB 564) Rates of The Empire District Electric Company	ER-2018-0366 to Adjust the Electric
Union Electric Company d/b/a Ameren Missouri In the Matter of the Application of Union Electric Company d/ Permission and Approval and a Certificate of Public Convenier Authorizing it to Construct a Wind Generation Facility	
Kansas City Power & Light Company KCP&L Greater Missouri Operations Company In the Matter of Kansas City Power & Light Company's R Implement a General Rate Increase for Electric Service	ER-2018-0145 ER-2018-0146 equest for Authority to
Union Electric Company d/b/a Ameren Missouri In the Matter of the Application of Union Electric Company d/b Approval of Efficient Electrification Program	ET-2018-0132 b/a Ameren Missouri for
Union Electric Company d/b/a Ameren Missouri In the Matter of the Application of Union Electric Company d/ Approval of 2017 Green Tariff	ET-2018-0063 b/a Ameren Missouri for
Laclede Gas Company Laclede Gas Company d/b/a Missouri Gas Energy In the Matter of Laclede Gas Company's Request to Increas Service, In the Matter of Laclede Gas Company d/b/a Missouri Increase Its Revenue for Gas Service.	
Kansas City Power & Light Company In the Matter of Kansas City Power & Light Company's Deman Rate Adjustment And True-Up Required by 4 CSR 240-3.163(8	
Kansas City Power & Light Company In the Matter of Kansas City Power & Light Company's Deman Rate Adjustment And True-Up Required by 4 CSR 240-3.163(8	
KCP&L Great Missouri Operations Company In the Matter of KCP&L Greater Missouri Operations Company's Tariff Filing	ET-2017-0097 Annual RESRAM

<u>Company</u>	Case No.
Grain Belt Express Clean Line, LLC In the Matter of the Application of Grain Belt Express Clean Lin of Convenience and Necessity Authorizing It to Construct, C Manage, and Maintain a High Voltage, Direct Current Tran Associated Converter Station Providing an Interconnection Montgomery 345 kV Transmission Line	Own, Operate, Control, asmission Line and an
Kansas City Power & Light Company In the Matter of Kansas City Power & Light Company's Demand Rate Adjustment And True-Up Required by 4 CSR 240-3.163(8)	
Kansas City Power & Light Company In the Matter of Kansas City Power & Light Company's Re Implement A General Rate Increase for Electric Service	ER-2016-0285 equest for Authority to
Union Electric Company d/b/a Ameren Missouri In the Matter of Union Electric Company d/b/a Ameren Missour Approval and a Certificate of Public Convenience and Necessity Pilot Subscriber Solar Program and File Associated Tariff	
Union Electric Company d/b/a Ameren Missouri In the Matter of Union Electric Company d/b/a Ameren Missour Revenues for Electric Service	ER-2016-0179 i's Tariff to Increase Its
KCP&L Great Missouri Operations Company In the Matter of KCP&L Greater Missouri Operations Company' to Implement a General Rate Increase for Electric Service	ER-2016-0156 s Request for Authority
Empire District Electric Company In the Matter of The Empire District Electric Company's Re Implement a General Rate Increase for Electric Service	ER-2016-0023 equest for Authority to
Ameren Transmission Company of Illinois In the Matter of the Application of Ameren Transmission Compa Relief or, in the Alternative, a Certificate of Public Conve Authorizing it to Construct, Install, Own, Operate, Maintain and Manage a 345,000-volt Electric Transmission Line from Palmyr Border and an Associated Substation Near Kirksville, Missouri	enience and Necessity Otherwise Control and

<u>Company</u>	<u>Case No.</u>
Ameren Transmission Company of Illinois In the Matter of the Application of Ameren Transmission Company Relief or, in the Alternative, a Certificate of Public Convenie Authorizing it to Construct, Install, Own, Operate, Maintain and Otl Manage a 345,000-volt Electric Transmission Line in Marion Coun Associated Switching Station Near Palmyra, Missouri	ence and Necessity herwise Control and
Union Electric Company d/b/a Ameren Missouri In the Matter of Union Electric Company d/b/a Ameren Mis to Implement Regulatory Changes in Furtherance of Energy Effi by MEEIA	
Kansas City Power & Light Company In the Matter of Kansas City Power & Light Company's Reque Implement a General Rate Increase for Electric Service	ER-2014-0370 est for Authority to
Empire District Electric Company In the Matter of The Empire District Electric Company for Author Increasing Rates for Electric Service Provided to Customers in the C Service Area	
Union Electric Company d/b/a Ameren Missouri City of O'Fallon, Missouri, and City of Ballwin, Missouri, Com Electric Company d/b/a Ameren Missouri, Respondent	EC-2014-0316 plainants v. Union
Union Electric Company d/b/a Ameren Missouri In the Matter of Union Electric Company d/b/a Ameren Missouri's Revenues for Electric Service	ER-2014-0258 Tariff to Increase Its
Union Electric Company d/b/a Ameren Missouri Noranda Aluminum, Inc., et al., Complainants, v. Union Electric Com Missouri, Respondent	EC-2014-0224 npany d/b/a Ameren
Grain Belt Express Clean Line, LLC In the Matter of the Application of Grain Belt Express Clean Line L of Convenience and Necessity Authorizing It to Construct, Own Manage, and Maintain a High Voltage, Direct Current Transmi Associated Converter Station Providing an Interconnection of Montgomery 345 kV Transmission Line	, Operate, Control, ission Line and an
KCP&L Great Missouri Operations Company In the Matter of KCP&L Greater Missouri Operations Company Authority to Establish a Renewable Energy Standard Rate Adjustme	

Company	<u>Case No.</u>
Kansas City Power & Light Company In the Matter of Kansas City Power & Light Company's Filing fo Side Programs and for Authority to Establish A Demand-Side Mechanism	11
Veolia Energy Kansas City, Inc. In the Matter of Veolia Energy Kansas City, Inc. for Authority to Rates	HR-2014-0066 File Tariffs to Increase

Case Participation

Brooke Mastrogiannis

Utility Regulatory Auditor

Present Position:

I am a Utility Regulatory Auditor in the Energy Resources Department of the Missouri Public Service Commission. I have been employed by the Missouri Public Service Commission since May 2014. I previously was a Utility Regulatory Auditor in the Auditing Unit of the Utility Services Department, and a Utility Management Analyst in the Consumer and Management Analysis Unit.

Education Background and Work Experience:

I received a Bachelor of Science degree in Accounting from Lincoln University, in Jefferson City, MO in May of 2012. I then continued to further my education and received my Masters of Business Administration with an emphasis in Accounting in December 2013. In earning these degree's I completed numerous core Accounting and Business classes. Prior to joining the Commission, I was employed by the State of Missouri - Department of Natural Resources from June 2013 to May 2014 as an Account Specialist. My duties entailed: reviewing and monitoring expense account forms to ensure employees followed correct procedures, prepared and set up project and job codes so they could be coded correctly on employee's time sheets, analyzed and prepared necessary cash draws, and also prepared financial information or reports to facilitate budget information and execution.

Company Name	Case Number	Testimony/Issues
The Empire District	ER-2014-0351	January 2015
Electric Company		Cost of Service Report- Plant in Service,
		Depreciation Reserve, Prepayments, Materials and
		Supplies, Customer Deposits, Customer Deposit
		Interest, Customer Advances, Amortization of
		Electric Plant, Amortization of PeopleSoft
		Intangible Asset, Corporate Franchise Taxes,
		Depreciation Expense, Amortization Expense, Dues
		and Donations, EEI Dues, Advertising Expense,
		Outside Services, and Postage.
Seges Partners Mobile	SR-2015-0106	January 2015
Home Park L.L.C.		Staff Report- Rate Base, Revenues, Purchased
		Sewer Costs, Payroll and Payroll Taxes,
		Management Fee, Postage, Telephone Expense,
		Maintenance Expense, Insurance, Outside Services,
		PSC Assessment, and Rate Case Expense
The Empire District	ER-2014-0351	March 2015
Electric Company		Surrebuttal Testimony- Advertising Expense,
		Customer Advances, and EEI Dues.

Company Name	Case Number	Testimony/Issues
Ozark International, Inc.	WR-2015-0192	September 2015
		Staff Report- Payroll, Telephone and Cell Phone
		Expense, Auto Expense, Insurance Expense, Bank
		Service Charges, Customer Deposits, Customer
		Deposit Interest, PSC Assessment, Revenues,
		Miscellaneous Income, Contract Labor, General
		Maintenance Expense, Electric Expense, Returned
		Check Fees, Outside Services, Dues and
		Subscriptions, and Credit Card Fees
Hillcrest Utility Operating	WR-2016-0064	March 2016
Company, Inc.		Staff Report- Customer Service and Business
		Operations Review
Cannon Home Association	SR-2016-0112	April 2016
		Staff Report- Customer Service and Business
		Operations Review
Roy-L Utilities, Inc.	WR-2016-0109	May 2016
		Staff Report- Customer Service and Business
		Operations Review
Raccoon Creek Utility	SR-2016-0202	August 2016
Operating Company, Inc.		Staff Report- Customer Service and Business
		Operations Review
Raccoon Creek Utility	SR-2016-0202	October 2016
Operating Company, Inc.		Rebuttal Testimony- Collection of Bad Debt
Kansas City Power and	EO-2016-0124	January 2017
Light Company		Management Audit Report- Employee Expense
	NUD 2017 0110	Account Process and Internal Audit Activities
Terre Du Lac Utilities	WR-2017-0110	April 2017
Corporation		Staff Report- Customer Service and Business
T 1' TT'11 TT.'1'.	NUD 2017 0250	Operations Review
Indian Hills Utility	WR-2017-0259	July 2017
Operating Company, Inc.		Staff Report- Customer Service and Business
Coine Missessei Les	CD 2017 0215	Operations Review
Spire Missouri, Inc.	GR-2017-0215	December 2017
		Rebuttal Testimony- Performance Metrics
	EO 2019 0155	Incentive Proposal
Ameren Missouri	EO-2018-0155	April 2018 Stoff Deport, First MEELA Cycle 2 Drydones
		Staff Report- First MEEIA Cycle 2 Prudence
Liberty Utilities LLC	WR-2018-0170	Review
Liberty Utilities LLC	WK-2010-01/0	April 2018 Staff Report- Normalized and Annualized
		Revenues, Miscellaneous Revenues, Bad Debt
		Expense, Outside Services/Contract Maintenance,
		DNR Fees, Meter Reading Expense, Transportation
		• • •
		Expense, and Property Taxes

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continued, Brooke Mastrogiannis

Company Name	Case Number	Testimony/Issues
KCPL Greater Missouri	ER-2018-0146	June 2018
Operations		Direct Testimony- Fuel Adjustment Clause
		Rebuttal Testimony- Fuel Adjustment Clause and
		Renewable Energy Rider
		Surrebuttal Testimony- Fuel Adjustment Clause
The Empire District	EO-2018-0244	September 2018
Electric Company		Staff Report- Fuel Adjustment Clause Prudence
		Review
KCPL	EO-2018-0363	November 2018
		Staff Report- First MEEIA Cycle 2 Prudence
		Review
KCPL Greater Missouri	EO-2018-0364	November 2018
Operations		Staff Report- First MEEIA Cycle 2 Prudence
		Review
KCPL	EO-2019-0068	February 2019
		Staff Report- Fuel Adjustment Clause Prudence
		Review
KCPL Greater Missouri	EO-2019-0067	February 2019
Operations		Staff Report- Fuel Adjustment Clause Prudence
		Review
Ameren Missouri	EO-2019-0257	August 2019
		Staff Report- Fuel Adjustment Clause Prudence
		Review
Ameren Missouri	EO-2019-0376	October 2019
		Staff Report- Second MEEIA Cycle 2 Prudence
		Review

Krishna Poudel

Present Position

I am Regulatory Economist III in the Energy Resources Department, Industry Analysis Division of the Missouri Public Service Commission. I have been employed by the Commission since May 20th, 2019.

Educational Background and Work Experience

I have a Bachelor of Science degree in Agriculture, and Master of Science degree in Agricultural Economics from Tribhuvan University, Nepal in 1999 and 2002 respectively. I completed PhD in Applied Economics from the University of Missouri – Columbia in 2017. Prior to joining the Commission, I was employed by the Missouri Department of Natural Resources as an Economist in the Water Protection Program to carry out cost-benefit analysis of water quality rule making and other water protection projects and programs.