

Control Number 45570

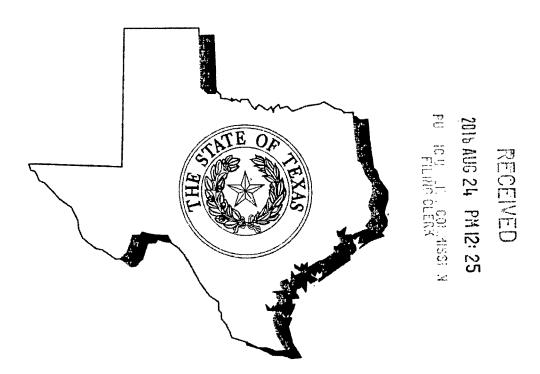


Item Number 287

Addendum StartPage 0

SOAH DOCKET NO. 473-16-2873.WS PUC DOCKET NO. 45570

APPLICATION OF MONARCH	§	BEFORE THE STATE OFFICE
UTILITIES I, L.P. FOR AUTHORITY	§	
TO CHANGE RATES FOR WATER	§	\mathbf{OF}
AND SEWER SERVICE	§	
	§	ADMINISTRATIVE
	§	
	§	HEARINGS



DIRECT TESTIMONY OF
HEIDI GRAHAM
WATER UTILITY REGULATION
PUBLIC UTLITY COMMISSION OF TEXAS
AUGUST 24, 2016

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I. PROFESSIO	ONAL QUALIFICATIONS	.3
II. PURPOSE A	AND SCOPE OF TESTIMONY	.4
III. RECOMME	ENDATION	.12
IV CONCLUSI	ON	.15
ATTACHMENTS		
Attachment HG-1	Resume of Heidi Graham	
Attachment HG-2	List of Testimonies	
Attachment HG-3	Monarch's Response to OPUC RFI 5-2, Errata to Monarch PPE as of	
	6-30-2015 (CD)	
Attachment HG-4	Staff's Depreciation Schedule (CD)	
Attachment HG-5	NARUC Uniform System of Accounts, Monetary Level for Capitalizin	g vs.
	Expensing	
Attachment HG-6	Monarch's Response to OPUC RFI 1-24	
Attachment HG-7	Response to Staff Request for Information RFI 17-1 (CD)	
Attachment HG-8	Water Rate Design	
Attachment HG-9	Sewer Rate Design	
Attachment HG-10	Errata Schedule II-H-1, Cost of Service	
Attachment HG-11	Errata Schedule III (S), Wastewater Rate Design	
Attachment HG-12	Weather Adjustment of Water Usage	

I. PROFESSIONAL QUALIFICATIONS

- 2 Q. Please state your name and business address.
- 3 A. Heidi Graham, Public Utility Commission of Texas, 1701 N. Congress Avenue, Austin,
- 4 Texas 78711-3326.

- 5 Q. By whom are you currently employed and in what capacity?
- 6 A. I have been employed by the Public Utility Commission of Texas (PUC or Commission)
- since September 1, 2014, as an Engineering Specialist V in the Water Utilities Division. I
- 8 was promoted to Program Specialist VII in May of 2016 and I have been the technical team
- 9 leader since then.
- 10 Q. What are your principal responsibilities at the Commission?
- 11 A. My responsibilities include managing the technical team, reviewing and processing
- applications to obtain or amend certificates of convenience and necessity (CCNs);
- reviewing rate filings and participating in negotiating settlements; preparing testimony and
- exhibits for contested case matters involving investor-owned, non-profit and governmental
- water and sewer utilities; and conducting rate-related inspections of water or sewer utility
- systems within the state. I also make recommendations on policy with regard to water and
- wastewater depreciation and rate design and review and recommend changes to proposed
- forms and rules.
- 19 Q. Please state your educational background and professional experience.
- 20 A. I have provided a summary of my educational background and professional regulatory
- 21 experience in Attachment HG-1 to my direct testimony.
- 22 Q. Have you testified as a regulatory technical expert before the Commission or the State
- 23 Office of Administrative Hearings (SOAH)?

- 1 A. Yes. Attachment HG-2 provides a summary of the dockets in which I have filed direct testimony or memoranda in lieu of testimony.
- 3 Q. On whose behalf are you testifying?
- 4 A. I am testifying on behalf of the Staff of the Public Utility Commission (Staff).
- 5 II. PURPOSE AND SCOPE OF TESTIMONY
- 6 Q. What is the purpose of your testimony in this proceeding?
- 7 A. I will present Staff's recommendation for depreciation and a rate design for water and sewer service.
- 9 Q. What is the scope of your review?
- 10 A. I reviewed the application, all of the discovery responses, the pre-filed testimony of
- Monarch's witnesses, OPUC's witness and the pre-filed testimonies of Staff Regulatory
- Accountant/Auditor, Leila Guerrero, Engineering Specialist Jolie Mathis, Rates Manager,
- Debi Loockerman and Staff Financial Analyst, Emily Sears, as well as previous rate, CCN
- and STM cases.
- 15 Invested Capital
- 16 Q. What test year did you consider when preparing your testimony?
- 17 A. July 1. 2014 through June 30, 2015.
- 18 Q. Have you made any adjustments to Monarch's claimed depreciation components and
- 19 capital assets?
- 20 A. Yes. I used the filing of Monarch's Response to OPUC's request for information (RFI) 5-
- 21 2, OPUC 5-2 Errata to Monarch PPE as of 6-30-2015 (OPUC 5-2) as a basis to build a
- straight-line depreciation schedule. See Attachment HG-3 (CD) for OPUC 5-2 Errata to
- 23 Monarch PPE as of 6-30-2015 and HG-4 (CD) for Staff's Depreciation Schedule.

Ο.	Why did you m	ake these a	djustments	and build	a straight.	line depre	ciation schedule?

- 2 A. I built the schedule because the depreciation study included in the application for group
- depreciation purposes was determined to be unreliable, as reflected in Ms. Jolie Mathis'
- 4 testimony. Absent a proper depreciation study, the straight-line method should be used.
- 5 Q. Please define the term "used and useful"
- 6 A. The American Water Works Association's Principles of Water Rates, Fees, and Charges
- 7 Manual of Water Supply Practices, sixth edition, (M-1 Manual) defines 'used and useful'
- 8 as follows: A term applicable to utility plant investment that is includable in the
- development of the rate base as part of the rate-making process. Plant investment is
- 10 considered to be used and useful if it is actively used in the provision of service to
- 11 customers.
- 12 Q. What adjustments did you make to the list of assets in Attachment OPUC 5-2?
- 13 Attachment OPUC 5-2 included customer contribution in aid of construction (CIAC) items,
- new taps, capitalized items, retired items, Holiday Village conference room rehabilitation
- assets and assets that were designed and built by ECO Resources, Inc. (provided in
- Monarch's Response to Staff RFI Attachment 17-1). I analyzed and adjusted the used and
- useful percentage of each of these types of items listed in Attachment OPUC 5-2.
- 18 Q. What adjustments did you make to items described as CIAC?
- 19 A. For plant built using CIAC, the line item in my depreciation schedule reflecting the
- 20 percentage of the plant that is used and usefulness was reduced to zero. This has the effect
- of removing the original cost of plant that was funded by ratepayers from rate base. CIAC
- shall be deducted from rate base per 16 TAC § 24.31(c)(3)(D).
- Q. What adjustments did you make to items described as "taps"?

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Monarch's response to Staff RFI 16-1(c) with regard to how tap fees are accounted for, was for first time taps, a tap fee is charged to the customer. The tap fee is then credited to revenue and a charge to expense is made for the cost of the tap. Errata WP/II G-1.h shows a credit for tap fees for both water and sewer. Monarch's response to Staff RFI 16-1(b) states that no tap fees were recorded for the assets listed in response to OPUC RFI 5-2. However, numerous items listed in the list of assets provided in response to OPUC RFI 5-2 were described as 'new' tap, meter, grinder pump or sewage pump and were included as used and useful. There were also numerous items provided in the same list and described as 'replacement' tap, meter, grinder pump or sewage pump. Since it appeared that Monarch was not consistent in its entries when describing capitalized items, I adjusted any 'new' tap, meter, grinder pump or sewage pump item's used and useful percentage to zero. This adjustment is consistent with Monarch's accounting policy to expense new tap fees in the cost of service and reduce the cost of service for revenues related to the new tap fees.

Q. What adjustments did you make to items described as "capital"?

National Association of Regulatory Utility Commissioners' (NARUC) *Uniform System of Accounts* monetary level for capitalizing vs. expensing for capitalized items included in Attachment HG-3, OPUC RFI 5-2. NARUC's guidance for a Class A utility is a monetary level of \$750 for capitalizing as opposed to expensing the item. If an item is less than \$750 and is not useful in providing water or sewer service, I adjusted the original cost to zero by adjusting the used and useful percentage to zero. If the capitalized item was less than \$750 and useful in providing water or sewer service, I made no adjustment to the used and useful percentage of capitalized items over \$750. See Attachment HG-5 for NARUC guidance.

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- A. In Staff RFI 10-1. Staff requested a reconciliation of Monarch's original cost, annual depreciation expense, accumulated depreciation, and net plant beginning from Monarch's last fully litigated rate case, which ended in 2002, until the end of the test year for this docket, which is June 30, 2015. As part of its response, Monarch provided Attachment Staff 10-1(a), which lists Monarch's capital retirements dating later than 2000.
- Q. What adjustments did you make to retired items that were listed in Monarch's
 response to Staff RFI 10-1(a)?
- 9 I adjusted the retired items listed in Monarch's response to Staff RFI 10-1(a) to zero by A. 10 adjusting the used and useful percentage to zero. 16 TAC § 24.31(c)(2)(B)(iii) requires 11 the utility to account for the reasonableness of retirement decisions for any item that is 12 retired after June 19, 2009. Monarch did not provide any explanation of any retirement 13 decisions for the retired assets provided in their response to Staff RFI 10-1(a), in Mr. 14 Robinson's testimony or his depreciation study or an explanation as to why retired assets 15 were included in the List of Non-Retired Assets included in Mr. Fenner's Attachment BWF-2 and their later filing provided in response to OPUC RFI 5-2. In short, I removed 16 17 assets from Monarch's total capital assets.
- 18 Q. What adjustments did you make to the Holiday Village items listed in Attachment
 19 HG-3, OPUC RFI 5-2 and addressed in Monarch's Response to OPUC RFI 1-24?
 20 Monarch's response to OPUC RFI 1-24 was that, the Holiday Village capital investment
 21 items for the conference room rehabilitation, were excluded from rate base in this
 22 application. The same assets were listed in Attachment OPUC RFI 5-2. Therefore, the used

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and usefulness percentage of each item, was adjusted to zero. See Attachment HG-6 for
Monarch's Response to OPUC RFI 1-24.

Q. Did any of Monarch Utilities' invested capital arise from payments made to an affiliate?

Yes. According to the testimony of Monarch's witness, Charles Profilet, during past years, ECO Resources, Inc. an affiliate of Monarch, charged Monarch and two other affiliates, Windermere and Hornsby Bend, for costs associated with design-build services for capital improvements, along with a mark-up on these costs of 30% which Monarch proposes to include in rate base. These improvements are included in the proposed rate base in Monarch's current application. According to Mr. Profilet, the design-build services encompassed all the activities required to design and build capital improvements for the utility, and involved ECO personnel who provided the expertise to supervise, inspect, and administer capital expenditures by utilities. He also stated that ECO charged the three affiliated utilities for actual labor and material costs, and added a 'margin' amount that was calculated to be 30% of the total project revenues, which applied to all capital expenditures to repair, replace, or expand the utility systems. In other words, the raw costs plus the margin equaled ECO's revenues for the project.

18 Q. Does the Texas Water Code (TWC) allow affiliated transactions?

TWC § 13.185(e) states that payment to affiliated interests for costs of any services, or any property, right or thing, or for interest expense may not be allowed either as capital cost or as expense except to the extent that the regulatory authority finds that payment to be reasonable and necessary. A finding of reasonableness and necessity must include specific statements setting forth the cost to the affiliate of each item or class of items in question

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and a finding that the price to the utility is no higher than prices charged by the supplying
affiliate to its other affiliates or divisions for the same item or items, or to unaffiliated
persons or corporations.

Q. Did Staff request information through discovery regarding this issue?

Yes. In Staff RFI 4-3, Staff requested an itemization, by dollar value, of the costs actually incurred by ECO, that make up the 30% margin charged by ECO to Monarch for each component of invested capital. In response, Monarch provided a spreadsheet that imputed the itemized costs, using the ratio of expense categories to the total revenues of the parent company's affiliated service group, during 2005-2007 as shown in Monarch's 2008 Form 10-K, which is filed for fiscal year ended December 31, 2007 (2008 10-K). These imputed percentage values do not correspond to the actual costs incurred by ECO, because the 2008 10-K referenced in the response to Staff RFI 4-3, provides data summarized for several of the parent company's jurisdictions, including Alabama, California, Colorado, Georgia, Mississippi, New Mexico, South Dakota, and Texas. In other words, the expense categories were spread over all the jurisdictions rather than only Texas, where the expenses were incurred. The spreadsheets in Attachment Staff 4-3 are also flawed, because they show an imputed margin added to ECO's claimed actual costs that is significantly different from the margin of 30% described in Mr. Profilet's testimony. Therefore, Monarch is unable to provide an itemization of the actual costs incurred by ECO in providing the services to Monarch.

Q. Do you agree that the assets constructed by ECO should be included in the original cost of Monarch's water and sewer plant?

1	A.	No. The transactions between ECO and Monarch represent affiliated transactions because
2		both entities have Southwest Water as a parent company. The Third Court of Appeals'
3		decision in Railroad Commission of Texas et al. v. Rio Grande Valley Gas
4		Company, 683 S.W.2d 783 (Tex. App.—Austin 1984, no writ) set a precedent for a utility's
5		burden to show, that an affiliate's charges are just and reasonable. I am not an attorney.
6		but, it my understanding that, in the case, it was decided that a utility has the burden
7		of proof to show:
8		1. Prices it was charged by its affiliate were no higher than the prices charged by the
9		supplying affiliate to its other affiliates;
10		2. Expenses which may not be allowed for rate-making purposes for any reason were
l İ		not included in the 'allocated' expenses'
12		3. Each item of allocated expense was reasonable and necessary: and
13		4. Allocated amounts reasonably approximated the actual cost of services to it.
14	Q.	Which of the Rio Grande factors does Monarch fail to show proof of in this case?
15	A.	Monarch fails to meet all four factors. However, in particular, Monarch's inability to
16		itemize ECO's actual costs means that it cannot meet its burden to prove the following
17		factors:
18		2. Expenses which may not be allowed for rate-making purposes for any reason were
19		not included in the 'allocated expenses' and
20		3. Each item of allocated expense was reasonable and necessary.
21	Q.	Why does Monarch fail to meet its burden?
22	A.	Based on Monarch's discovery responses discussed above, it is unable to provide the actual
23		costs and margin charged by ECO. Because Monarch did not itemize the relevant expense

1		items, it is unable to meet its burden to show that the relevant expense items did not include
2		expenses which may not be allowed for rate-making purposes for any reason and were not
3		included in the 'allocated expenses' In addition, Monarch is unable to show that the
4		relevant expenses were reasonable and necessary. because Monarch did not itemize the
5		relevant expenses nor did it provide documentation supporting the expenses.
6	Q.	What adjustments did you make to the ECO items listed in Monarch's Response to
7		Staff 17-1?
8	A.	Within my deprecation schedule, I adjusted the original cost of the ECO assets, provided in
9		Monarch's Response to Staff RFI 17-1 and also listed in OPUC 5-2, to zero. See Attachment
10		HG-7 for Monarch's Response to Staff RFI Attachment 17-1 (CD).
11	Q.	If the Commission decides not to disallow the entire original cost of the ECO assets,
12		what do you recommend as an alternate option?
13	A.	I recommend the original costs of the ECO assets be reduced by the 30% margin. The 30%
14		margin fails to meet Rio Grande factors 1 and 4, which are:

- 1. Prices it was charged by its affiliate were no higher than the prices charged by the supplying affiliate to its other affiliates;
- Monarch has not demonstrated that the 30% margin charged by ECO is no higher than the prices charged by ECO to other affiliates and non-affiliated entities. In fact, Mr. Profilet's testimony indicates that, at the time of the transactions at issue, ECO charged to unaffiliated municipalities a 15% margin for similar services. Monarch has also not demonstrated that the 30% margin charged by ECO approximates the actual cost of ECO's services, as it has been unable to itemize the costs that comprise the 30% margin.

4. Allocated amounts reasonably approximated the actual cost of services to it.

Depreciation

- 2 Q. Did you make any adjustments to Monarch's depreciation with regard to cost of
- 3 removal and salvage value?
- 4 A. Monarch did not use an engineer's estimate to determine the cost of removal and salvage
- 5 value of their plant assets. Instead Monarch used an expert who has a financial background
- to determine the cost of removal and salvage value of their plant assets. Occupations Code
- 7 (OC) Title 6 Regulation of Engineering, Architecture, Land Surveying, and Related
- 8 Practices, Subtitle A. Regulation of Engineering and Related Practices Chapter 1001.
- 9 Engineer includes The Texas Engineering Practice Act. 6 OC § 1001.003 defines the
- practice of engineering.
- 6 OC § 1001.003(b) states, the 'practice of engineering' means the performance of or an
- offer or attempt to perform any public or private service or creative work, the adequate
- performance of which requires engineering education, training, and experience in applying
- special knowledge or judgment of the mathematical, physical, or engineering sciences to
- that service or creative work. 6 OC § 1001.003(c)(1) states that the practice of engineering
- includes: consultation, investigation, evaluation, analysis, planning, engineering for
- program management, providing an expert engineering opinion or testimony, engineering
- for testing or evaluating materials for construction or other engineering use, and mapping:
- 19 6 OC § 1001.003(c)(10) states that the practice of engineering includes: a service, design,
- analysis, or other work performed for a public or private entity in connection with a utility.
- structure, building, machine, equipment, process, system, work, project, or industrial or
- consumer product or equipment of a mechanical, electrical, electronic, chemical, hydraulic,
- 23 pneumatic, geotechnical, or thermal nature.

1		TCEQ rules require that all water and sewer plant construction be submitted by an engineer
2		licensed in the State of Texas. Mr. Robinson does not have the education or practical
3		experience to determine the cost of removal and salvage values for Monarch's plant assets.
4		Ms. Mathis recommended disallowance of Monarch's cost of removal and salvage values. I
5		agree with Ms. Mathis and join her in recommending that Monarch's cost of removal and
6		salvage values be removed from the cost of service.
7	Q.	If Monarch's cost of removal and salvage values are removed from the cost of service,
8		what salvage ratio did you use in your depreciation recommendation?
9	A.	My depreciation recommendation does not incorporate any adjustments to plant values for
10		removal or salvage costs or revenues. In effect, my recommendation incorporates a salvage
11		ratio of 0%.
12	Q.	What depreciation service lives did you use in determining the annual depreciation
13		expense?
14	A.	I used the depreciation service lives recommended by Staff witness Jolie Mathis.
15	Q.	What is your allocation between water and sewer for depreciation?
16	A.	Monarch used an allocation of 83% for Water and 17% for Sewer. I used the same allocation
17		to calculate the water and the sewer portion of total depreciation.
18	Q.	Will any of your adjustments to Monarch's depreciation data affect accumulated
19		deferred federal income taxes (ADFIT)?
20	A.	Yes. My adjustments may affect ADFIT However, Staff is unable to calculate the result of
21		any affect. I recommend that Monarch be ordered to provide the appropriate adjustments to
22		ADFIT through its expert witnesses, if there is an affect.

Rate design

- 2 Q. How did you calculate the total water revenue that would be generated by the proposed
- 3 base rates?
- 4 A. I multiplied the total number of customers for each meter size by the corresponding base rate
- 5 times twelve months. For example, a 5/8-inch water meter with a base rate of \$51.78 would
- 6 generate \$13,968,794 over twelve months. Adding the values for all the meter sizes, the total
- 7 revenue generated for water would be \$14,566,457. Please see attachment HG-8 for these
- 8 calculations.
- 9 Q. How did you calculate the total water revenue that would be generated by the proposed
- 10 gallonage charges?
- 11 A. I calculated the revenue generated by the gallonage charges by multiplying the requested
- inclining block rates listed in the notice and the weather normalized gallons billed in the test
- year for each tier. For example, Monarch billed for 394,633,000 gallons in the 0 to 2,000
- gallons-tier. At \$7.84/1,000 gallons, that tier would generate \$3,093,923. Adding the values
- for all the tiers, the total revenue that would be generated is \$9,458,540. Please see
- 16 Attachment HG-8 for these calculations.
- 17 Q. What would be the total water revenue generated by the proposed base rates and the
- 18 **gallonage charges?**
- 19 A. Adding the base rate revenue of \$14,566,457 to the gallonage charge revenue of
- \$9,458,540 gives a total revenue of \$24,024,997.
- 21 Q. How did you calculate the total sewer revenue that would be generated by the proposed
- 22 base rates?

1	Ā.	I multiplied the total number of customers for each meter size by the corresponding base
2		rate times twelve months. For example, the 5/8-inch base rate of \$77.63 would generate
3		\$3,347,095 over twelve months. Adding the values for all the meter sizes, the total revenue
4		generated for water would be \$3,537,604. Please see attachment HG-9 for these
5		calculations.
6	Q.	How did you calculate the total sewer revenue that would be generated by the proposed
7		gallonage charges?
8	A.	I calculated the revenue generated by the gallonage charge by multiplying the requested
9		rate listed in the notice and the gallons billed in the test year. For example, Monarch billed
0		for 170,885,000 gallons in the test year. At \$2.73/1,000 gallons, the gallonage revenue
<u> 1</u>		generated would be \$466,516. Please see Attachment HG-9 for these calculations.
12	Q.	What would be the total sewer revenue generated by the proposed base rates and the
13		gallonage charges?
14	A.	Adding the base rate revenue of \$3,537,604 to the gallonage charge revenue of
15		\$466,516 gives a total revenue of \$4,004,120.
16	Q.	What revenue requirement did you use to calculate Staff's recommended rates?
17	A.	I used the annual revenue requirement of \$19,355,831 for water, and \$3,251,669 for sewer,
18		recommended by Ms. Guerrero.
19	\mathbf{Q}_{i}	Did you prepare a water and sewer rate design using Ms. Guerrero's calculated
20		revenue requirement and Monarch's proposed rates?
21	A.	Yes, my water rate design is included in Attachment HG-8 and my sewer rate design is
22		included in Attachment HG-9.
23	Q.	What connection count did you use in your analysis and calculations?

1	A.	I used the connection count provided by Monarch in the Errata – Schedule II-H-1 Cost of
2		Service for water and the Errata Schedule III(S) for Sewer. See Attachment HG-10 for
3		the Errata - Schedule II-H-1 Cost of Service. See Attachment HG-11 for the Errata
4		Schedule III(S).
5	Q.	What usage data did you use in your analysis and calculations?
6	A.	I used the usage provided in Errata – Schedule II-H-1 Cost of Service, adjusted for weather
7		normalization of 2.1% and Errata Schedule III(S), Wastewater Rate Design.
8	Q.	Did you make any adjustments to the usage provided by Monarch in Errata -
9		Schedule II-H-1 Cost of Service for water and Errata Schedule III(S), Wastewater
10		Rate Design?
11		The adjustment made by John W Hutts, based on his analysis of weather metrics and the
12		impact on water consumption, was incorrectly applied to Monarch's usage. On Bates page
13		242 of Mr. Hutts testimony, he states that the magnitude of the weather normalization
14		adjustment is a reduction of 24,134 kgal or approximately 2.1%. On Errata Schedule II-H-
15		Cost of Service, the 2.1% weather adjustment was added to the recorded water usage
16		instead of subtracted from the recorded water usage. I recalculated the usage by subtracting
17		the 2.1% weather adjustment. See Attachment HG-12. My results are:

6

Water Usage Charge Revenue Calculation

All Usage	7/14-6/15 Re	corded Usage	Adjus	tment	Normalized Usage (including Contractuals)		
		-	-2.10%	-2.10%			
In 1k gallons	Residential	Non-	Residential	Non-	Residential	Non-	Total
	(Gallons)	Residential	(Gallons)	Residential	(Gallons)	Residential	(Gallons)
		(Gallons)		(Gallons)		(Gallons)	
Tier 1 0 2	374,349	28,749	-7,861	-604	366,488	28,145	394,633
Tier 2 2,001 10	457,436	52,807	-9,606	·1,109	447,830	51,698	499,528
Tier 3 10,001 20	57,022	9,988	-1,197	-210	55,825	9,778	65,603
Tier 4 Over 20,001	7757	64,031	-163	-1,345	7,594	62,686	70,280
						Total	1,030,044

2 II. RECOMMENDATIONS

- 3 Q. What are your recommended water and sewer original cost, annual depreciation
- 4 expense, accumulated depreciation and net plant amounts?
- 5 A. See the table on the next page.

Total

	Allocation	Staff Verified Original Cost	Annual Depreciation	Accumulated Depreciation	Net Plant (Net Book Value)
Water	83%	\$72,698,273	\$1,688,908	\$27,087,175	\$45,600,135
Sewer	17%	\$12,262,359	\$345,921	\$5,547,976	\$9,339,787
——		Cost \$72,698,273	\$1,688,908	\$27,087,175	\$45,600

\$2,034,829 | \$32,635,151 | \$54,939,922

7 Q. What are your recommended rates?

100%

8 A. I recommend no increase from existing water rates. In fact, Staff recommends a decrease

\$84,960,632

9 in rates for water service as follows:

Minimum Bill includes 0 gallons		Gallonage Rates per 1,000 gallons	
Meter Size	Rate	Usage	Rate
5/8'	\$42.87	0 2,000 gallons	\$6.05
3/4'	\$64.31	2,001 10,000 gallons	\$7.45
1	\$107.18	10,001 20,000 gallons	\$8.45
11/2'	\$214.35	20,001 + gallons	\$9.00
2'	\$342.96	,	
31	\$643.05		
4'	\$1,071.75		
6'	\$2,143.50		

2 I recommend no increase from existing sewer rates. In fact, Staff recommends a decrease

3,429.60

3 in rates for sewer service as follows:

8'

Minimum Bill includes 0 gallons		Gallonage Rates per 1,000 gallons	
Meter Size	Rate	Usage	Rate
5/8'	\$63.48	All Usage	\$2.10
3/4'	\$95.22		
1	\$158.70		
11/2'	\$317.40		
2'	\$507.84		
3'	\$952.20		
4'	\$1,587.00		
6'	\$3,174.00		

4 IV CONCLUSION

- 5 Q. Does this conclude your direct, pre-filed testimony?
- 6 A. Yes, but I reserve the right to supplement this testimony during the course of the proceeding
- 7 as new evidence is presented.

Heidi Graham 1701 N. Congress Ave. PO Box 13326 Austin, Texas 78711-3326 512-936-7139 heidi.graham@puc.texas.gov

Work Experience

Program Specialist VII

5/2016 - Present

Public Utility Commission, Austin, Texas

Perform senior-level work on a broad range of water and sewer utility issues. Lead the technical team of experts who analyze and provide recommendations for depreciation studies, quality of service evaluations and rate design for rate applications and provide technical recommendations for Certificate of Convenience and Necessity (CCN) applications. Testify in hearings.

Engineering Specialist V

9/2014 Present

Public Utility Commission, Austin, TX

Process Convenience and Necessity (CCN) applications. Perform depreciation studies, quality of service evaluations, design rates for rate applications and testify in hearings.

Engineering Specialist V

12/2006 - 8/2014

Texas Commission on Environmental Quality. Austin, TX

Review plans, specifications and engineering reports for new or modified public water systems to ensure compliance with Federal and State standards. Process Convenience and Necessity (CCN) applications. Perform depreciation studies, quality of service evaluations, design rates for rate applications and testify in hearings.

Project Manager

6/2006 12/2006

Gunze Electronics USA, Austin, TX

Developed schedules establishing sequence and time frame of manufacturing operations in order to meet production requirements for Electroluminescent Lamps and External Gasket production lines. Reviewed orders, shipping needs, plant capacity and inventory before drawing up schedules. Review engineering drawings and bill of materials (BOM) for accuracy before releasing to production. Responsible for materials database implementation.

Shift Manager

8/2005 4/2006

Bealls, Bastrop, TX

Accountable for managing all aspects of retail clothing store.

Assistant Store Manager

8/2003 5/2005

McDonalds, Elgin, TX

Accountable for managing all aspects of fast food restaurant, including inventory, cash management and scheduling.

Inventory Control/Production Control Planner

4/1994 4/2003

Applied Materials, Austin, TX

Created and maintained documents in the Quality Management System. Provided inventory and production forecast and scheduling using Oracle materials database. Built, developed and tested Thin Film Technology (TFT) prototypes.

Aircraft Maintenance Officer

12/1988 12/1992

U.S. Air Force, Holloman Air Force Base, NM

Led, trained and equipped 75 to 250 maintenance personnel at home base and deployed locations. Managed maintenance and modification of 25 fighter aircraft and associated equipment. Maintained workforce discipline and responded to personnel issues while balancing workforce availability and skill levels with operational requirements. Ensured adherence to technical data, policy, procedures and safe maintenance practices. Maintained aircraft configuration: daily aircraft servicing, weapons loading, launch recovery and repair, periodic aircraft maintenance inspections and requirements.

Education

5/1988

University of Missouri, Rolla, MO

Bachelor's Degree in Mechanical Engineering

Heidi Graham, EIT Public Utility Commission of Texas (PUC) List of Previous Testimony

Testimonies for TCEQ Staff

Docket	Company	Application Type
SOAH 582-08-4354	James Maib dba H2O Systems Plus	Rate Application Water
SOAH 582-08-2863	Lower Colorado River Authority	Rate Appeal Water
SOAH 582-08-4353	Interim-La Ventana	Sale, Transfer, Merger Water
SOAH 582-09-0660	North San Saba WSC	Rate Appeal Water
SOAH 582-09-0592	City of Nixon	CCN Amendment Water
SOAH 582-10-3422	Denton Co. WCID No. 1	Rate Appeal Water
SOAH 582-10-5999	City of Kerrville	CCN Amendment Water
SOAH 582-13-4616	HHJ dba Decker Utilities	Rate Application Water and Sewer
SOAH 582-13-4616	M.E.N. WSC	Cost of Service Appeal Water

Testimonies for PUC Staff

PUC Docket	SOAH Docket	Company	Application Type
42858	473-14-0366	SJWTX, Inc. dba Canyon Lake	Rate Application Water
		Water Service Co.	
42942	473-15-0623.WS	Castle Water, Inc. dba	Rate Application Water
		Horseshoe Bend Water System	
42857	473-14-5138	City of Austin	Wholesale Appeal
42866	473-14-5144.WS	West Travis County PUA	Wholesale Appeal
42924	473-15-0371	Crystal Springs Water Co. Inc.	CCN Amendment Water
42862	473-14-5139	Town of Woodloch	Rate Appeal – Water and Sewer
42860	473-14-5140	Douglas Utility Company	Rate Settlement – Water and Sewer
43554	473-15-1230.WS	Mansions of Turkey Creek	Rate Appeal – Water and Sewer
44657	473-16-0927.WS	Interim-La Ventana Sale Transfer Merger	
43076	473-16-2049.WS	Consumers Water, Inc.	Rate Application Water
44046	473-15-4390.WS	Laguna Vista/Laguna Tres	STM Water

Available on attached CD

Available on attached CD

Summary of Proposed Revisions to the NARUC Uniform System of Accounts for Class A, B & C Water and Wastewater Utilities

	Proposed Changes	Water	Wastewater
1.	Change the term "sewer" to "wastewater" where applicable to conform with the terminology currently used by the industry.	АВС	АВС
2.	Increased the Class A, B & C revenue levels to account for inflation since the levels were last changed in 1984. This was done based on the same index used to set the levels in the 1984 revision. New levels are:	ABC	АВС
	Class A. \$1,000,000 and more, Class B: \$200,000 to \$999,999, and Class C: Less than \$200,000.		
3.	Included a monetary level for capitalizing versus expensing for all Classes as follows:	ABC	ABC
	Class A: \$750 Class B: \$400 Class C: \$150		
4.	Added definitions, accounting instructions and subaccounts to provide for the accounting for regulatory assets and liabilities.	АВ	A B
5.	Added a new water plant account to separately account for backflow prevention devices.	A B C	
6.	Added new wastewater plant accounts to separately account for reuse facilities used to produce reclaimed water.		АВ
7	Added new wastewater expense accounts to separately account for the operation of reuse facilities to produce reclaimed water		АВ

PUC DOCKET NO. 45570 SOAH DOCKET NO. 473-16-2873.WS

MONARCH'S RESPONSES TO OPUC'S FIRST REQUESTS FOR INFORMATION

OPUC RFI 1-24: Referencing the testimony of Craig Gott, Page 55 (Bates Stamp 180),

Lines 8-11, please provide a line-item description and associated cost of each item of capital investment which encompass the conference

room rehabilitation at Holiday Villages.

RESPONSE: The description in the testimony used an incorrect description of a single

asset instead of describing the class of assets the expenditures included.

The amount shown encompasses office furniture, fixtures, software, and

other assets throughout the Monarch system.

These assets were excluded from rate base in the application.

See Attachment OPUC 1-24.

Prepared by:

Bruce Connolly/George Freitag/Craig Gott

Sponsored by: Craig Gott

Monarch Utilities I, LP Supporting Schedule for OPUC RFI 1-24 at June 30, 2015

Asset No.	Asset Description	Original Cost
60000104	MITCHELL HUMPHREY ACCOUNTING SOFTWARE-AUSTIN OFFIC	21,000.00
60000094	MITCHELL HUMPHREY ACCTING SOFTWARE-	10,500.00
60000107	MITCHELL HUMPHREY SOFTWARE NEW REPORTS-	9,000.00
60000028	Asset Manager software licenses-	8,654.59
60000043	ArcEditor software and license for Joe Torralva-	7,577.50
60000091	(3) DESKS AND (5) 5 DRAWER LATERAL FILES-	5,686.37
60000126	CAD SOFTWARE-JOE TORRALVA-PFLUGERVILLE OFFICE	5,197.59
60000106	ECO-SERVER; (5) MS OFFICE; (5) NORTON-DALLAS OFFIC	3,859.11
60000097	MITCHELL HUMPHREY ACCTING SOFTWARE-	3,000.00
60000141	Conference Room Tables Conroe Office	2,277.00
60000096	SOFTWARE / COMPUTER SETUP-	2,208.30
60000139	60' TV Monarch Call-Center	1,804.32
60000095	4 2 DRAWER LATERAL FILES-	1,779.63
60000093	LASERJET PRINTER	1,520.29
60000033	FA SOFTWARE IMPLEMENTATION-	1,266.53
60000090	CANON D880 COPIER AND CANON L50-	1,036.44
60000116	DESK AND OFFICE FURNITURE-PFLUGERVILLE	1,010.73
60000102	4 DRAW FILE CABINET; COMPUTER CHAIR-AUSTIN OFFICE	943.71
60000089	TELEPHONES OFFICE SET UP-	800.62
60000103	MITCHELL HUMPHREY ACCOUNTING SOFTWARE-AUSTIN OFFIC	750.00
60000018	Infor Global Solutions Asset Mgr Software Implemen	730.69
60000029	FA SOFTWARE IMPLEMENTATION-	681.98
60000122	CONFERENCE ROOM CHAIRS-PFUGERVILLE OFFICE	649.44
60000088	3 MS OFFICE SOFTWARE-	580.22
60000100	NEW OFFICE CHAIR DALLAS OFFICE-DALLAS OFFICE	487.13
60000105	5 (3) OFFICE CHAIRS-PFLUGERVILLE OFFICE	441.54
60000099	HP DESKJET PRINTER MODEL 9300-	430.64
60000101	1 SONIC WALL FOR DALLAS OFFICE-DALLAS OFFICE	407.34
60000124	4 PRINTER FOR J TORRALVA-PFLUGERVILLE OFFICE	405.93
60000109	9 HP LASERJET 3015 PRINTER/FAX-PFLUGERVILLE OFFICE	381.84
6000012	1 CONFERENCE TABLE-PFUGERVILLE OFFICE	377.21
6000008	7 LASER MULTI-FUNCTION PRINTER-	357.20
6000011	9 FILE CABINET BILL-PFLUGERVILLE OFFICE	345.31
6000001	7 Infor Global Solutions Asset Mgr Software Implemen	340.99
6000009	2 MS OFFICE SOFTWARE	290.11
6000011	5 OFFICE CABINET-PFLUGERVILLE	155.87
6000012	0 DRY ERASE BOARD-PFUGERVILLE OFFICE	140.72
6000003	8 ASSET MANAGER SYSTEM PROJ WORK-	97.43
6000005	8 E523-New office furniture renovation project	64,442.00

Monarch Utilities I, LP Supporting Schedule for OPUC RFI 1-24 at June 30, 2015

Asset No. Asset Do	escription	Original Cost
60000056 E416P-E416-Model 60 S/N 600128	B and Artic. Arm Mail	8,900.00
60000057 E461-Modular Furniture		5,534.00
60000059 E326P-E326-Knoll 6 x 8 cubical star	tions for bookke	4,100.00
60000054 E325P-E325-Herman Mille low par	nels 6 x 5 for billi	3,900.00
60000138 CONSTRUCTION OF CONFERENCE	ROOM 5251 PYRAMID BLV	3,648.14
60000137 HOT WATER HEATER & MISC PLUN	MBING @ LIVINGSTON OFFI	2,677.40
60000050 E196-New office furniture renova	ation project	2,537.00
60000136 SECURITY SYSTEM @ BENBROOK (OFFICE	2,462.69
60000046 E190P-E190-Chairs and tables for	conference room	2,400.00
60000060 E402P-E402-Lateral Files for book	keeping dept	2,200.00
60000051 E197P-E197-4 Rectangular shape v	veneer tables	1,500.00
60000055 E403P-E403-Reception Hutch		800.00
60000047 E191P-E191-Chair; stack; chrome	base; sofa	800.00
60000048 E192P-E192-File; lateral; 4-drawer	r	800.00
60000053 E199P-E199-3 guest wing-back leg	g base shairs	500.00
60000045 E189P-E189-Sofa for reception are	ea	300.00
60000049 E194P-E194-Coffee table and 2 la	mp tables	300.00
60000052 E198P-E198-95000 series credenz	a w/ doors	300.00
60000003 FILE CABINET-PFLUGERVILLE OFFI	CE	232.72
		205,508.27

Available on attached CD

Attachment HG-8: Water Rate Design

APPLICANT'S REQUESTED RATES				
			num Bill	
		(include	es 0 gallons)	
5/8"				\$51.78
3/4"				\$77.68
*				\$129.56
1/2"				\$258.92
2"				\$414.27
3"				\$776.75
4"				\$1,294.58
5"				\$2,589.17
3"				\$4,142.67
			nage Rates	# 7 0.4
	0	to	2,000	\$7.84
	2,001	to	10000	\$9.66
	10001	to	20000	\$10.96
	20001	+ No. of Mate	2.000	\$11.67
5/9" /:-	ncl whsl 5/8	No. of Meto	£1.8	22.491
5/8 (ir 3/4"	ici wiisi 5/8	equiv)		22,481
3/4" 1"				148
1 1/2"				24
2"				49
3"				3
<u>4"</u>				$\frac{3}{2}$
6"	*****			
8"				1
Total		· · · · · · · · · · · · · · · · · · ·		22,761
Total	-	Gall	ons Billed	22,701
	0	to	2000	394,633
	2001	to .	10000	499,528
	10001	to	20000	65,603
	20001	+		70,280
			Total	1,030,044
REVE	ENUE			, ,
		В	ase Rate	
5/8"				\$13,968,794
3/4"	·			\$49,404
1"		· · · · · · · · · · · · · · · · · · ·		\$230,099
1 1/2"	·	***************************************		\$74,569
2"				\$243,591
	,			\$27,963
3"				\$31,070
3" 4"				Ψ31,07
3"				, \$0
3" 4" 6" 8"				\$0 \$49,712
3" 4" 6" 8"	revenue g		Minimum Charge	, \$0
3" 4" 6" 8"	revenue g		etric Revenue	\$0 \$49,712
3" 4" 6" 8"	0		etric Revenue 2000	\$49,712 \$14,566,457 \$3,093,923
3" 4" 6" 8"		Volum	etric Revenue	\$49,712 \$49,756 \$14,566,457
3" 4" 6" 8"	0	Volum to	etric Revenue 2000	\$49,712 \$14,566,457 \$3,093,923
3" 4" 6" 8" Total	0 2001 10001 20001	Volum to to to to +	2000 10000 20000	\$49,712 \$14,566,457 \$3,093,923 \$4,825,440 \$719,009 \$820,168
3" 4" 6" 8" Total	0 2001 10001 20001	Volum to to to to +	2000 10000	\$49,712 \$14,566,457 \$3,093,923 \$4,825,440 \$719,009 \$820,168
3" 4" 6" 8" Total	0 2001 10001 20001	Volum to to to + nue generate	2000 10000 20000	\$49,712 \$14,566,457 \$3,093,923 \$4,825,440 \$719,009 \$820,168 \$9,458,540

STA		ECOMMENDED RATES	
		Minimum Bill	
	(ir	ncludes 0 gallons)	
5/8"			\$42.87
3/4"			\$64.31
1"			\$107.18
1 1/2"			\$214.35
2'			\$342.96
3"			\$643.05
4"			\$1,071.75
6"			\$2,143.50
8"			\$3,429.60
	(Gallonage Rates	
0	to	2,000	\$6.05
2,001	to	10000	\$7.45
10001	to	20000	\$8.45
20001	+		\$9.00
		Meters	
5/8" (incl whsl			22,481
3/4"			53
1"			148
1 1/2"			24
2"			49
3"			3
4"			2
6"			
8"			1
Total			22,761
Total		Gallons Billed	22,701
0	to	2000	394,633
2001		10000	499,528
10001	to	20000	65,603
20001	to	20000	70,280
20001	+	Total	1,030,044
REVENUE		Total	1,030,044
REVENUE		D . D./	
5/0"		Base Rate	φ11 5C5 10C
5/8"			\$11,565,126
3/4"			\$40,898
1"			\$190,343
1 1/2"		· · · · · · · · · · · · · · · · · · ·	\$61,733
2"		·· . ·	\$201,660
3"			\$23,150
4"			\$25,722
6"		••	\$0
8"			\$41,155
Total revenu		ed by Minimum Charge	\$12,059,760
	V	olumetric Revenue	
0	to	2000	\$2,387,530
2001	to	10000	\$3,721,484
10001	to	20000	\$554,345
20001	+.		\$632,520
Total reven	ue genera	ited by Gallonage Charge	
		Total Revenue Generated	
Staff's Ro		led Revenue Requirement	1
Journ D MC	- January III	AND PARENT AND AND AREA CONTONIO	1 4 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

APPLICANT'S REQUESTED RATES	APPLICANT'S REQUESTED RATES				
Minimum Bill					
(includes 0 gallons)					
5/8"		\$77.63			
3/4"		\$116.45			
1"		\$194.08			
1 1/2"		\$388.16			
2"		\$621.05			
3"		\$1,164.47			
4"		\$1,940.78			
6°		\$3,881.56			
8 ^r		, , , , , , , , , , , , , , , , , , , ,			
Gallonage Rates					
All Usage		\$2.73			
33.85		<u> </u>			
No. of Meters					
5/8"		3,593			
3/4"		22			
1"		19			
1 1/2"		7.			
2"		8			
3"					
2'' 3'' 4		1			
6					
8					
Total		3,650			
Gallons Billed		3,030			
All Usage		170,885			
Total		170,885			
REVENUE		170,005			
Base Rate					
5/8"	\$	3,347,095			
3/4"	\$	30,743			
1"	\$	44,250			
1 1/2"	\$	32,605			
2"	\$	59,621			
3"	\$	37,021			
4	\$	23,289			
6	\$	23,209			
8	\$				
U	╚				
Total revenue generated by Minimum	├				
Charge	\$	3,537,604			
Volumetric Revenue	Ψ	3,331,004			
All Usage	-	\$466,516			
Total revenue generated by	├-	φτου,υτο			
Gallonage Charge		\$166 51 <i>6</i>			
Total Revenue Generated	-	\$466,516 \$4,004,120			
	-				
Revenue Requested	<u>L_</u>	\$4,383,985			

STAFF'S RECOMMENDED RATES		
Minimum Bill		
(includes 0 gallons)		
5/8"		\$63.48
3/4."		\$95.22
1"		\$158.70
1 1/2" ,		\$317.40
2"		\$507.84
3°		\$952.20
4"		\$1,587.00
6'		\$3,174.00
8 ^r		
Gallonage Rates		
All Usage		\$2.10
No. of Meters		
5/8"		3,593
3/4"		22
1"		19
1 1/2"		7
2'		8
3"		
4		1
. 6	_	
8		
Total		3,650
Gallons Billed		3,030
All Usage		170,885
Total		170,885
REVENUE	_	170,005
Base Rate		
5/8'	\$	2,737,004
3/4"	\$	25,138
1'	\$	36,184
1 1/2"	\$	26,662
2'	\$	48,753
3'	\$	40,733
4	\$	19,044
6	\$	12,044
8	\$	
0	Ψ.	
Total revenue generated by Minimum	Γ	
Charge_	\$	2,892,784
Volumetric Revenue	┵	2,072,707
All Usage	 	\$358,859
Total revenue generated by Gallonage	\vdash	\$550,055
Charge Charge		\$358,859
Total Revenue Generated	-	3,251,642
Staff's Recommended Revenue	\$	3,251,669
other a recommended revelle	Ψ	2,221,009

Mon ch Utilities I, L.P.
Docket Nc 45570
Test Ye Ending 6/30/2015
Er ata Schedule II-H-1 Cost of Se vic
Witn ss: Robert Kelly

MONARCH UTILITIES I, LP COST OF SERVICE STUDY (TY 7/2014 -: 6/2015)

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Income Tax			Federa	income		interes	Control Dept	tred Charles	Total Rate Bas	REST & FIT		RETURN			:	Total Rate Base		Total Other Ra	umulated Def	Regulatory Assets	Other Rate Base Items	TI Damage and	riepayments	oup out	Working Capital	Materials & Supplies	Accumulated Provision	Plant Held for Future Us	struction W	Other Rate Base Items	Net Plant in Service	No. 7 House live	Less: Accumulated Deposit	Original Control of Living	et Plant in Ca	ATE BASE IS						Type of Capital:	6/30/2015	Summary as of	(a)	1
Tax		in a second	Federal Tay Pole	income After Tay		interest Expense	, de 01	Ē		EXPENSES C		RN (c)::(a)::(b)			D D			Total Other Rate Base Items	Accumulated Deferred Income Taxes	W	Items	Storm Damage and Extraordinary Property Loss	ı				ovision	Jame Us	Co struction Work in Progress	e items	Service	Vicinity de Depreciation	Depart		Carrie 11-10	RATE BASE (Schodille II B)	Proposed F		1		•	Đị đị.	15	as or	РПAL (Exhib (b)	3
Ø::0	3:	(9)	(c) = (c)	9		(e) =	9	(9	INTEREST & FIT EXPENSES CALCULATION) x (b)		verse or scenario (b)		è	,		axes			perty Loss							4			Ö			2	=	Proposed Rate of Return	00.00%	94.00%	10.00%	46 00%		Ratios	15	oit PRM-1, P.	3
(h) × (h) \$	(h) :: (g) / (1-g)		(r) = (c) - (e) \$			(e) = (a) ;; (d) s				2					п																								10.75%	5.45%			Cost Rate	(0)	COST OF CAPITAL (Exhibit PRM-1, Page 1 of 25, Schedule 1)	ē
								6				49			-		*	١	• •	<i>i</i>	"	•	4	"	41		•	ia (и		50	*	**					1				ŀ			Sched	
	51.5152%	34%	3,946,441		1,000	2 017 070	2.97%	67,983,488				5.963.512		8.77%	67,983,488		(4,634,755)	(630,918) \$		('', '', '', '', '', '', '', '', '', ''	(4 783 112) \$		52,369	427,304	299,601						72,618,243	(43,672,447)	116,290,690	Wate:			8.77%		5.81%	2.97%			Rafe Cost	•	ule 1)	•
•			"		4	•		\$			•				5		4	6		• •	,	, .		40	~			, ,	,			_	_	-		I						L	- ×			
325,476	70 PAR PA	34%	631,807		324,52C		2.97%	10,883,839			00.1900	954 730		8.77%	10,883,839		(2,284,190)	(1,120,523)		(1,200,093)	/4 DEB 0031	•;000	5 30 S	46,089	52,507						 13.168.029	7 191 114)	20,359,143	WasteWater												3
																																														ŝ.
																																														€

67 68 69 72 73 74 75 76	66 55 55 55 55 55 55 55 55 55 55 55 55 5	7 15 1 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Lin : No
WATER - SERVICE CHARGE REVENUE CALCULATION Fixed Expenses: Adjustment for Cost of Service per Original Filling Fixed Expenses Per Original Filling Number of Customers Fixed Expenses Allocatio (a) Total Meter Equivalent (b) Annual Meter Equivalent (c):: (b x12) Servic charge for \$78" Meter Size/Mc nth (a/c) \$	·		T
ARGE REVENUE CALC S 17 Original Filing S 17. 19 (a) (b) :: (b x12) letter Size/Month (a/c)	(a) 657 9 79 20 46 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MERS: \$ 11,998,516 \$ 1 \$ 7,629,160 \$ \$ 19,627,676 \$ 2 STOMERS: \$ 820,086 \$ \$ 1,34,713 \$ \$ 2,254,799 \$ \$ 5 21,882,475 \$ 2	D PROP
LCULATION 17,981,197 17,981,197 17,926,238 Residential 21,944 \$ 17,282,78 22,107 265,278 \$ 65,15	Iding BLUE MOUND, Inclu Total Meiter Equivalent (b) 22,481 1.00 53 1.50 148 2.50 24 5.00 49 5.00 49 15.00 20 25.00 20 25.00 20 20.00 10 80.00	17,282,781 \$ 5,21 8,406,926 \$ 7, 25,689,706 \$ 6,00 643,458 \$ (17 1,388,569 \$ (6 2,012,027 \$ (24 227,701,733 \$ 5,81	/2014 · 6/2015) (d) (e) OSED RATES WATER Proposed Dollar
Non-Residential 944 817 817 817 817 818 843,458 8 107 1,511 8 132 8 1332 15 \$ 35,49	ding Contractu Total Met Residential (c)= 21,824 66 173 20 24 22,107	5,284,285 44% 777,766 10% 6,052,030 31% (176,528) -22% (86,144) -5% (242,772) -11% 5,619,258 27%	(f)
Total 22 17,924	Ontractuals) Total Metre Equivalent Edential Non-Residential (C) = (a x \ (b)) 21,824 657 66 14 173 196 20 100 24 358 20 368 45 50 22 107 1,511	w w w w w w	€
		2,860,214 \$ 2,880,1 326,596 \$ 1,185,9 3,186,810 \$ 4,046,0 229,444 \$ 127,7 80,111 \$ 286,4 309,555 \$ 424,1 3,496,364 \$ 4,470,2	(h)
		55 SS S	(i) (j) WASTEWATER Proposed Dolar
		33 27 28 28 28 28 28 28 28 28 28 28 28 28 28	(k)

Mon rch Utilities I, L.P.
Dacket No 45570
Test Ye Ending 6/30/2015
Er ata Schedulk II-H-1 Cost of Se vice
With Robert Kelly

Docket No 45570 Test Ye Ending 6/30/2015 Er ata Schedule II-H-1 Cost of Se ice Witne Robert Kelly MONARCH UTILITIES I, LP COST OF SERVICE STUDY (TY 7/2014 6/2015)
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88 88 88 88 88 88 88 88 88 88 88 88 88		Li: No
(d) \$45.23 \$57.84 \$113.07 \$226.14 \$361.62 \$678.41 \$1,130.68 \$2,261.37 \$3,618.18	Present Rates Res = Non-Res	_
1.50 1.50 7 2.50 4 5 00 2 8.00 1 15.00 8 25.00 8 25.00 8 25.00	Present Rates Meter Res = Non-Res Equivalent	(b) - Service Cf
Į.	nt Meter Size	(c) targe Revent
\$ 65.15 \$ 97.72 \$ \$ 355.75 \$ \$ 325.75 \$ \$ 977.25 \$ \$ \$ 977.25 \$ \$	Monthly Service Charge	(a) (b) (c) (d) (e) WATER - Service Charge Revenue Calculatir (Continued)
3.23 \$ 11,8 3.23 \$ 5,72 \$ 5,74 \$ 5 3.24 \$ 5 3.25 \$ 5,19 \$ 5 3.27 \$ 5,19 \$ 5		3
Non-Residential Non-Residential Non-Residential 194	Present Annual Service Charge Revenues	9
201,788 43,146 65,126 65,126 112,750 24,423 27,136 43,418 Great	ge Revenues	()
Resident \$ 17,061,8 \$ 17,061,8 \$ 134,8 \$ 134,8 \$ 15,6 \$ 18,7 \$ \$ 17,282,7	Pro	3
	Proposed Annual Service	9
Residential TOTAL 2 279,783 \$ 17,341,706 57,749 \$ 57,346 84,105 \$ 58,221 156,712 \$ 1175,475 19,163 \$ 19,163 21,292 \$ 21,292 34,068 \$ 34,068 64/3,456 \$ 17,925,236	3	2

Mon ch Utilities I, L.P.
Docket No 45570
Test Year Ending 6/30/2015
Er ata Schedule II-H-I Cost of Servi
Witnes Robert Kelly

MONARCH UTILITIES I, LP COST OF SERVICE STUDY (TY 7/2014 - 6/2015)

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Additional/(Reduction) Re	Tamat Davis use no cinis al f		s	49	Tier 2 \$ 8.190	u	•		Present Rate/Thousand Gallons						Tier 4 Over 20.001	Tier 3 10.001 - 20			3		In Thousand Gallons	{ Pinna	, I	Contractual Usage		Vallable expenses per Original numb	Adjustment for Cost of Service per Crigaria France	Va able Expenses						Tier 2 2.001 - 10	Tier 1 0 - 2		In Thousand Gallons		A# Usage		WATER USAGE CHARGE REVENUE CALCULATION	
ě									lű.					5,387		5,387	! !			Non-Residential	√iew	Pinnacie & Cedar	akeshore		_	s per Origin	Service per on														EVENUE	
\$ 777,766	\$ 8.406.926	\$ 7,629,160	\$ 362,963	\$ 578,925	\$ 4,042,756	1011010	2 2 844 516		Kesioennai	112021.1				20,669	545	1,022	9,41	0,0	0 801		NIE			7/14 - 6/15		Paris Paris	golaring	1			896.564	7,757	57,022	457,436	374,349		Residential		7/14 - 6/15 i		ALCULATION	
	\$ 1,368,569	\$ 1,434,713	\$ 649,756	\$ 151,028	\$ 438,735	100 73	\$ 195.194		MOLEVENICATION	LIESCHI VEACUTO				890,088	37,5/3	200,0	30,232	10 OF 1	22.701		PMCK	!		7/14 - 6/15 Recorded Usage							155,574	64,031	9,988	52,807	28,749		Non-Residential		7/14 - 6/15 Recorded Usage			
5	-	1-	, ,	~	•	•	•		I		ı		ı	19,805		_			9.249		Kesigeniiai			 -							81)	(163)	(1,197)			21	Residential		Adji			
	\$ 8,406,926	\$ 8,406,926	3 398,880	\$ 637,944	4,404,901	1 154 001	\$ 2,914,115			Residential	Pmms			804	671	1	3 :	275	112		Non-Kesidenbar	Parishandal		NITE	En .									9		-2.10%	Non-Residential		Adjustment			
6	\$ 1,368,569	\$ 1,368,569	1,00,00	4	•	418 508	\$ 186,195	(0)		Non-Residential	Proposed Revenue			00,470	20,000	30 661	5 492	36.655	21,935		Vesideliden	Davidantial		1800	NOW	47.7	\$ 8.406.926		\$ 8,448,866,45	86.0	990,310	36,700					Residential	:	Normalized L			
		u	_						_					30,013	2,00	3 587	1.070	1.597	766		Vestigen	Docidootial	<u>z</u>	7	7	•	\$ 1,358,569		\$ 1.375.397	14.0%	164,877	65,698	16,257	07.570	53,555	20.253	Kesideridai	Non	Normalized Usage (Including Contractuals)			
				40.00	40.327	\$ 9.025	\$ 7.328 \$		L	Residentia	Proposed Ra			16,070	143 673	20 106	6.492	45,791	31,184			Residential			Tota		\$ 9,775,495		\$ 9,824,263	100.0%	1,155,187	102,398	78,374	347,191	547 101	407 DO4	IOIA	101	Contractuals)			
						7.812		1. (2)	D 7/3	Non-Residential	Proposed Rates/Thousand Gallon:				12 671	3,012	6,479	1,872	1,208			No -Residential		(0)	Total Confractual		•			•	•	•								4		

Mona ch Utilities I, L.P.
Docket No. 45570
Test Ye Ending 6/30/2015
Er ata Schedule II-H-I Cost of Se vic Witness: Robert Kelly

MONARCH UTILITIES I, LP COST OF SERVICE STUDY (TY 7/2014 - 6/2015)
 WATER - COMPARISON PRESENT AND PROPOSED RATES ON MONTHLY BILL WITH 5/8" METER SIZE

 Tie: 1
 Tier 2
 Tier 3
 Tier 4

 Pe Thousand Gallon
 0 - 2
 2.001 - 10
 10.001 - 20
 over 20.001
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Lin : No

Pe Thousand Gallon 0-2

RESIDENTIAL

NON-RESIDENTIAL
Proposed Dollar
Rates Dollar

(\$9.74) (\$10.36) (\$11.49) (\$12.24) (\$13.38) (\$14.23) (\$16.52) (\$16.37) (\$16.37) (\$17.66) (\$19.94) (\$22.22) (\$26.78)

-21.5% -17.7% -13.8% -12.3% -10.8% -10.0% -9.1% -8.7% -8.1% -7.5% -7.5%

II-H-1/5

155 156 157 158 159 160 163 (a) (b) (c) (d) (e)
WASTEWATER - SERVICE CHARGE REVENUE CALCULATION Number of Customers
Fixed Expenses Alocatio (e)
Total Meter Equivalent (b)
Ann al Meter Equivalent (c) :: (b x12)
Service charge for 5/8" Meter - SizerMonth (a/c) Monarch Utiliti I, L.P.
Docket No 45570
Test Ye Ending 6/30/2015
Errata Schedul: II-H-1 Cost of Service
Witn ss: Robert Kelly Fixed Expenses: \$ 2,987,854 MONARCH UTILITIES I, LP COST OF SERVICE STUDY (TY 7/2014 - 6/2015) 3,494 2,860,154 3,516 42,186 67,80 \$ 156 127,700 \$ 282 3,384 37.74 3 2,987,854 8 3 3 9

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	6	(2),/	A 7,000,104	3,089,000	3 229,444	\$ 2,860,214					
2 987 854	3 -	4777	2000 484	200.000		-	"	\$ 5,423.89	ထု	80.00	\$5,424.30
	n			•		•	30.00.1	3,263,50	o,	50.00	\$3,390.25
	41	4	4	-	•	1	•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	: -	20.00	\$1,000.12
	. 4		•	20,541	3 20,341	4	\$ 943,41	1.694.97	4	25.00	2000
11 321	, ,	1133	•	3			·	\$ 7,016.56	ų	15.00	\$1,017.07
	G	5	in	-	•	•	• •			0.00	3342.44
205,02	4	26,9	4	\$ 52,074	\$ 52,074		301.89	£ 542 39	ş	3	
30 000					******		•	338.55	1 1/2"	50	\$339.02
15,849	6	15.8	•	28 478	871.80	•	•		-	7.30	10.8014
20,720	•	.7.	5 16,2/2	38,548	\$ 22,375	S 16.273	'n	169.50	4	3 60	-
30 735	3				4	20,100	10.00	4.101	3/4"	1.50	\$101.71
25,225	38 49	3 20	5 23.187	26.851	3 662	3 100	• }		9		907.00
2,877,752	57 5	\$ 57,057	\$ 2,820,695	s 2,923,265	\$ 102,514	\$ 2,820,751	\$ 37.74	\$ 67.50	5/8"	3	f (1)
	L	(c) x 12	(a) × (c)) x 12	(a) x (d) x 12	(C)				3
CIA	-		Kesicental	IOIAL	Non-Residential	Residential	Non-Residential	Residential	Meter Size	Œ.	Res = Non-Res
TOTAL		:l	200000	A VEACUTOR	Present Annual Service Charge Revenues	Fresent Au	Monthly Service Charge	Monthly Se		Mete-	Present Rates

185 186 188 189 190 191	180 181 183	177 178 179	174	173	172	171	170	169	150	j s	165	¥	•]
Present Rate/Tho (Residential :: No \$ Target Revenues	Va abla	All Usage in Thouse	WASTEWA		\$5,424.30	\$3,390.25	\$1,695.12	\$1,017.07	\$542.44	500 est 2	9101.7	307.00		(A)	Ros = Non-Res Equivalent	Doesant Rates
Present Rate/Thousand Gallous (Residential :: Non-Re ildential) \$ 2.380 Target Revenues	Percentage	Usage In Thousand Gallons	TER USAGE		80.00	50.00	25.00	15.00	8.00	5 00	3 50	1 -	Š		Equivalent	Mete
a <u>llo⊪s</u> mtian)			CHARGE RE		ထူ	σį	4	ယ္	Ŋ	1 13	4 1	3/4	7 27		Mete/ Size	
Present Residential 3 326,596 5 1,185,914 5 859,318	137,225 137,225 80.0% \$ 1,185,914 \$	7/1 Residential	WASTEWATER USAGE CHARGE REVENUE CALCULATION		\$ 5,423.89	\$ 3,389.93	\$ 1,694.97	\$ 1,016.38	\$ 542.39	\$ 338.99	\$ 169.50	101.70	2 27 20		Residential	Monthly S
Present Revenues ential Non-Residential 226,596 \$ 80,111 85,914 \$ 296,478 559,318 \$ 216,368	33,660 33,660 20.0% \$ 296,478	7/14 - 6/15 Recorded Usage	ATION		\$ 3,010.51	5 1,586.52	· 44	`••	41	. ,	u i	\$ 56.60	\$ 37.74	(C)	Non-Residential	Monthly Service Charge
8 3 7 1	8 8	Usage		F	+			5	2	5	<u>~</u>	5 5	2	-	-	\dashv
	170,885 170,885 100.0% 1,482,392	TOTAL		2,000,214	3 960 314						16,273	23,190	2 820,751	(a) H	Residential	Present £
Proposed Revanues Residential Non-Residential (5) \$ 1,185,914 \$ \$ 1,185,914 \$ \$ 1,185,914 \$	υ •			600,000	220 444	, .	\$ 20,341	4	\$ 52,074	\$ 28,478	\$ 22,375	\$ 3,662	\$ 102,514	(a) x (d) x 12	Non-Residential	Present Annual Service Charge Revenuts
Non-Residential Non-Residential) 296,478 \$ 296,478				Open 5	3 089 658	-	20,341	333	\$ 52,074	\$ 28,478	38,648	\$ 26,851	s 2,923,265		TOTAL	e Revenuss
					\$ 2.880.154 S				•	44	\$ 16,272 \$	5 23,187 \$	\$ 2,820,695 \$	(a) × (Residential	Propose
					127,700		13,561	44 33	28,982	15,849	12,453	2,038	57,057	3) x 12	Non-Residential	d Annual Service
Proposed Rate/Thousand Galloc: entital Non-Residential (b) 7 (a) 5.808					\$ 2,987,854	6 3 (11 321	28,982	15,849	\$ 28,725	\$ 25,225	5 2,877,752		tial Non-Residential (CIAL	Charge Revenuca

Mon ch Utilities I, L.P.
Do:ket No 45570
Test Year Ending 6/30/2015
Er ata Schedule II-H-1 Cost of Servi
With Robert Kelly

MONARCH UTILITIES I, LP COST OF SERVICE STUDY (TY 7/2014 - 6/2015)

Lin : No.	194 W	195	361	107	ig t		193	200	201	202	201	704	308	305	707	100	100	502		210
æ	ASTEWATER			5	8															
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ĉ	ARISON PRES			Present	Rate	\$57.80	273 56	41 1.00	\$79.70	\$84.46	\$91.60	\$96.36	\$103.50	\$108.26	\$115.40	\$127.30	NC OF LA	4104.60	₩ (00,00	
<u>a</u>	ENT AND PROP		RESIDENT	Proposed	Rates	\$67.80	200		\$117.07	\$128.29	\$154.22	\$171.50	\$197.43	5214.71	\$240.64	\$283.85	\$307.06		44.0.40	<u>.</u>
ē	OSED RATES ON		ENTIAL	Increas	Dollars	(\$0.00)	\$10.50		10.100	\$43.83	\$62,62	\$75.14	\$93.93	\$106.45	\$125.24	\$156.55	\$187.88	2000	, H	23.2
3	MONTHLY BILL			se	Percent	0.0%	17.3%	20.20	05.076	51.9%	68,4%	78.0%	90.8%	98.3%	108.5%	123.0%	135.0%	167 784		1R7 6%
•	t and proposed rates on monthly bill with 5/8" Meter Size			Present	Rates	\$67.80	\$72.56	67B 70	4, 6, 7	\$84,46	\$91.60	\$96.36	\$103.50	\$108.26	\$115,40	\$127.30	\$139.20	*163 DO	****	
2	ER SIZE	DOM BESIDE	NON-KENIDE	Proposed	Rates	\$37.74	\$55.35	481 78		399.39	\$125.82	\$143.43	\$169.86	\$187,47	\$213.90	\$257.94	\$301.98	\$390.06	*470 44	1
3		NT A	NUML	incr	Dollars	(\$30.06)	(\$17.21)	3	3	\$14.50	\$34.22	\$47.07	\$66,36	\$79.21	\$98,50	\$130.64	\$162,78	\$227.06	204.2	940.04
9				creasc	Percent	44.3%	-23.7%	28%	1770	17.170	37.4%	48.9%	64.1%	73.2%	85.4%	102.6%	116.9%	139.3%	150 000	.00.02

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Other Ratis Bass I Items Construction Work in Progress Plant Held for Future Us Accumulated Provisions Materials & Supplies Working Capital Prepayments Storm Damage and Extraordir any Property Loss Other Ratis Base Items Regulatory Asset Accumulated Deferred Income Taxes Total Other Ratis Base Items Total Other Ratis Base	Type of Capital: Type of Capital: Debt Equity Total Total Proposed R RATE BASE (Schedule B-B) Net Plant in Service Net Plant in Service Net Plant in Service	ch Utilities I, L.P. Pr. No. 45570 Ye Ending 6/30/2015 Ta Schedule III (5) Wastewa Rate Design George Fr itag (a) (b) (c) (d) (e) COST OF CAPITAL (Exhibit PRM-1, Page 1 of 25, Schedule 1)
rress edir ay Property L ome Taxxes	§ 21.1 1	Wastewa (d)
. D\$4		Rate Design
	2.97% 5.81% 8.77%	(f) Weighted Cost
\$ 52,507 \$ 46,089 \$ 5,830 \$ (1,268,083) \$ (1,120,523) \$ (2,284,190) \$ 10,883,849	Wasiewater \$ 20,359,143 \$ (7,191,114) \$ 13,168,029	(g)
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\$ 52,507 \$ 46,089 \$ (1,268,089) \$ (1,271,514) \$ (2,375,182) \$ 11,080,469	Include The retical Depreciation Reserve Adjustment Wastewater \$ 20,359,143 \$ (6,923,489) \$ 13,435,651	8
	al Depreciation	8
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(e) (f) (g) (e) (f) (g) Wastewater 1.0711% 1.0711% 0.996289 0% 0.0000% 0.0993 0% 0.0000% 1.0711% 0.9993 0% 0.0000% 34.7059% 1.0711% 0.9993 1.53168 827,627,844 \$399,592 \$23,143,745 827,627,844 \$399,592 \$23,143,745 \$27,627,844 \$399,592 \$23,143,745 \$27,627,844 \$399,592 \$23,143,745 \$27,627,844 \$399,592 \$23,143,745 \$333,022 \$233,43,745 \$235,742 \$233,022 \$233,023 \$279,024 1.1884% 1.1884% \$399,446 \$31,999,649 \$4,499,105	Title Ra De ign (b) (f) (g) (h) Wastewaler 1.0711% 1.0711% 0.98029 0% 0.0000% 0.0000% 0.0000% 1.0711% 0.9803 0% 0.0000% 0.0000% 0.0000% 0.0000% 1.0711% 0.9803 1.53168 577627.944 \$399.692 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$333,022 \$23,143,745 \$4,284,407 \$333,022 \$33	(e)	(e) (f) (g) (h) (h)	(a) (b) (c) (b) (d) Pe nti	s lequired sies	ss Mutiplie	income Additional Required	rating Income Required rating Income At Pres nt Rates	stum requested		EREQUIREMENTS	tible percentage rate	Debt Expense	Expense	venue		ar Balances (Normalized)	liectibles rate	Updated as of 5-14-2016	PER DED (Coming)	Gloss Mulapher (1 / lin : 11)	er Taxes (1-line 10)	al Taxes Paid (In 5 + In 8 + In 9)	lax (x line 6)	6 Subject to State Tax & FIT	ning Amount (1 minus line 5)	State (x line 2)	Franchise (x lin : 2)	us line 1	lectibles rate	(e)	6/30/2015 III (S) r itag	
(g) (Viastewaler 1% 1.0711% 0.08028 9% 0.0000% 1.0711% 0.0893 % 0.0000% 3.36358% 3.47069% 0.65229 1.53168 86% 86% 86% 823,143,745 \$335,742 \$23,479,487 (8715) \$279,729 \$279,729 \$279,729	(b) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	(b) (h) (i) Westewaler 15% 1.0711% 0.88628 0.0000% 1.0711% 0.0000% 3.6369% 0.0000% 3.47689% 0.66283 1.53168 84% 16% 86% 14%	(b) (h) (j) (h) (j) (iii) (k) (h) (j) (j) (j) (j) (j) (j) (j) (j) (j) (j	(g) (h) (h) (h) (h) (h) (h) (h) (h) (h) (h	nt in rease (Mb)	ı	1.53156	\$521,982	\$954,730 \$432,749	\$10,883,839 8.77%	WasteWater		1 1967%						П					¥						1.071		-	R _a
	*- 00 1/44	S 100 x 144	9												-		\$23,143,745		1			1.53168	34.7069%			0.9893	1.0711%			- 1	Wastewater	(g)	

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idat Expenses before Interest Expense Subtotal Deduction Taxable income/(Loss) Federal income Tax (Figure 1 ax (Figure 1	Rate of Return, Percent Detailed of Summary of Current Income Tax Total Operating Revenue	tang (In	101 Operating 103 Depreciat 107 Amortizati 107 Amortizati 108 Taxes Oth 108 Interest E- 108 ENERAL Expenses t 104 Expenses t 104 Expenses 104 Expenses	URY OF
i fotal Expenses before income Interest Expense Subtotal Deduction Taxable income/(Loss) Federal income Tax (FIT) Rate Current in ome Tax	Rale of Return, Percent Detailed of Summary of Ea Current Income Tax Total Operating Revenues	13 'Net Operating (Income)/Loss 14 Rate Bas	401 Operating Expense 403 Depreciation Expen 407 Amoritzation Expe 408 Taxes Other Than to 27 Interest Expense 3ENERAL Expenses catego fotal Expenses before in CURRENT INCOME TAX Total Expenses	UMMARY OF EARNINGS A
India Expenses before income Tax Interest Expense Subbital Deduction Exable income(Loss) Federal income Tax (FIT) Rate Jurrent in one Tax	Raie of Return, Percent Detailed of Summary of Earnings Components: <u>Current Income Tax</u> Total Operating Revenues	35	401 Operating Expense 403 Degreciation Expenses 407 Anonization Expenses 407 Taxes Other Tha 1 on Income 428 Interest Expense GENERAL Expenses category (excl. nierest Expense) per T/B Total Expenses before in ome Tex CURRENT INCOME TAX Total Expenses	
×	Сотрол		is Income Income (excl	(d) (e) AT PRESENT RATES Shared per Original REP Filing: Shared Updated a of 5-14-16 Shared at Pn ent Rates) g Reve ues
	ents:		nterest	ent RA er Origin Updates Pri ent
			Expens	TES nal RFP F fi of 5-1 Rates)
			e) per T	Filing:
			66	
				After K 84% 86% Water
	Wa	'		(f) (g) After K&M Adjustment 84% 14% 14% Waster Waster \$3,49 250 \$3,696
\$3,209,334 \$322,924 \$3,532,257 \$165,402 \$4% \$56,577	10,883,639 3,98% WasteWater \$3,698,659	-	1,998,365 585,023 (25,738 33,385 (16,948 635,236 \$3,209,334 \$56,577 \$3,265,910	(g) 16% 14% 14% 14% Wastewater \$3,496,31 202,25
9,334 2,924 2,257 2,257	3.98% 3.98% aler 8,659	\$432,749	1,998,369 585,029 (25,736) 33,385 (16,948) 635,236 5,209,334 \$56,577	(g) trient 16% 16% 16% 15% 158 158 158 158 158 158 158 158 158 158
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EDO (S) III

Mo ch Utilities I, L.P.
Docket No 45570
Test Ye Ending 6/30/2015
Er ata Schedult III (5) Wastewate Ra De ign
Witness George Fr itag

125 127 1 Proposed Operating Revenues 128 2 Other Revenues 128 2 Other Revenues 130 4 Fire Revenues 131 4 Franchise Fee 132 5 Fold Proposed Re nues 133 6 401 Operating Expenses 134 7 403 Depreciation Expenses 135 8 407 Amortization Expenses 136 8 401 Operating Expenses 137 10 427 Interest Expense 138 11 GENERAL Expense category (e.cl. interest Exp.) per 178 139 12 Total Expenses before Income Tax 140 13 CURRENT INCOME TAX 141 14 Total Expenses 143 15 Net Operating Income/(Loss) 144 15 Ratu of Return, Percent 148 18 149 150 13 TAXES OF PROPOSED INCOME COMPUTATION 151 152 Total Expenses 153 Total Expenses 154 Interest Expense 155 Taxable Income/(Loss) 156 FIT Ratie 157 Taxable Income/(Loss) 158 FIT Ratie 159 FIT Expense	No (a) (b) (c) (d) 123 124 SUMMARY OF EARNINGS AT PROPOSED RATES
Before Theoretical Dept. Reserve Adjustment (a) Adjustment (b)	(e)
After Theoretical Dept. Reserve Adjustment (b) WastelViete \$4,181,565 \$202,265 \$4,303,850 \$7,339 \$0 1,989,389 451,218 (25,736) 33,385 (16,944) 63,526 \$3,082,862 \$3,082,862 \$330,763 \$4,383,860 \$4,383,860 \$5,413,626 \$5,266 \$5,266,489 \$11,060,489 \$11,060,489 \$5,413,626 \$5,286,2862 \$5,286,164 \$5,410,256 \$5,302,862 \$5,303,763 \$5,302,863 \$5,307,833 \$5,307,833 \$5,307,833 \$5,307,833	(0)
Differences (b)-(a) (b)-(a) (5114,246) (51224) (513,841) (50 (5135,035) (5135,035) (5135,035) (5135,035) (5135,035) (5135,035) (5135,035) (5135,035) (5135,035)	(k) (l) (m) (n)

Mo ch Utilities I, L.P.
Docket No 45570
Test Year Ending 6/30/2015
Er ata Schedule III (S) Wastewate Rate De ign
Witn George Fr itag

(2) (h) (i) (ii) (ii) (ii) (k) \$4,499,105 (\$202,295) \$5,425,410 \$5,425,420 \$	195 Service charge 197 Usage charge 198 Less 2016 contractual revenues Proposed for these	Proposed revenues from: Service charge Usage charge	181 <u>Proposed additional revenues from:</u> 182 Service charge 183 Usage charge 184 Usage charge 185 Proposed: I rate increase: 19.60% 186 Proposed: 1 rate increase: 19.60%	Balanced revenues : ubject to rate increase (b - c)	173 Present rate revenues from: 174 Service charge 175 Usage charge 176 To al present rate revenues (c)	Remair ng revenues recoverable from rates (a) 170 Less Theoretical Reserve Adjustment 171 Remair ng revenues recoverable from rates After adjustment (b) 172	166 Reven a requirement 167 Less other revenues 168 Less 2016 contractual revenues	163 COST OF SERVICE CALCULATION	Test Ye Ending 6/30/2015 Test Ye Ending 6/30/2015 Er ata Schedule III (S) Wastewate Rate De ign With George Fr itag
(k) Re Increase Re Increase Flasse III Phase III S3,695,154 \$4,181,565 \$0,084 \$5,486,411		\$3,695,154 \$485,411	\$605,496 \$79,704 \$685,201				4	(9)	
로 8 임[원[강 8 그리		Phase III \$3,895,154 \$486,411	Phased in Rate Increase Phase Phase		ì			0	

COMPARISON OF PRESENT RATES AND PROPOSED MONTHLY BILL FOR 5/8"

		242	241 B"		239 4"							232 Meier 346	231	7 065			22 23	ğ	223 Incl. Aqu	٤	221				213				209 1 1/2"	208 1"		206 5/8"		TOTAL Nur BLUE MO		201
Annual Cost per Meter Equivalent, Dollars	Total revenues from recoverable from service charge														HARGE PROPOSED I					170,865	Gal x 1000	Usage Charge/thousand gallons		Total Number of Customers					Ŋ		•	-	Monthly Service Charge	TOTAL Number of Customers less BLUE MOUND, incl. Lakeshore Printacle	RATE DESIGN CALCULATION	
Annual Cost per Meter Equivalent, Dollars	om service charge		_										ž	Custor	SERVICE CHARGE PROPOSED RATE CALCULATION					170,685	After Adj.	Usage		3,492				9	7	21	#	3,437		TY Begir.		
		3,650					•	7	1	ឧ	3,593	L		Customer Count										3,850		٠			7	1	23	3,593		TY End		
-			80.00	50.00	25.00	15.00	8.00	5.00	250	1.50	8	(b)	iter Equivalent (a x b)				70	Total Usage					Total Service												•	
\$931.58	\$3,537,658	3,788	-		25	ł	£	æ	8	33	3,593	Phase	<u>بر</u>				TOTAL REVENUES [Total Usage Charge Revenues		\$2.38			Total Service Charge Revenues		\$5,424,30	\$1,000,12	\$1,077.07	\$542.4	\$339.02	\$159.51	\$101.71	\$67.80		Present Rate		
60,756\$	\$3,615,549	3,750	3		. 6	₹ ~	. Z	8	à	8	3,593	Phase II					\$3,496,364	\$400,700	201 201	\$406,706			\$3,089,658		8 8	10,03e	30.34	20Z07	320,476	\$38,648	\$26,851	\$2,923,265		Annual Revenues		
297.5.05	\$3,695,154	3,190	3 770			, c	. 2	: 8	à à	3 8	3,583	Phase III																								
-			•											•						**/3	***				\$6,210.50	\$3 881 56	21,102,17	\$1 184 A7	9300, 10	9194.U0	\$170,45	3/7.00		Phase	Proposed Rates	
																ç	L.			32.75	3				\$6,347.24	\$3,967.03	\$1 983.51	\$1 190 11	\$ 200 C	\$398.70	910 and 01	9 000	• 70 34	Phase II		
																district			-T-		3	-	 	T-	\$6,486,99	\$4.054.37	\$2 027 19	\$1,216.31	5648 70	202.72	27.00	101.00	3	Phase III	Propo	
																ę	\$4,003,337	4 1000	M65 679	4100,010	6485 679		المراسية المراسة	20 F27 SEB	\$	\$	\$23.289	8	\$50 521	208 052	350,742	60,011,101	151 W 151	Phase I	Proposed Annual Revenues	
																•	\$4,091,481	4 11 41 41	\$475.932	410,000	1 75 930		*4,012,040	073 513 67	5	\$0	\$23,802	5	260 934	£33,323	\$45,724	231 419	\$3,420,847	Phase II	88	
																,	\$4,181,565		3486.411	,	\$486 411		40,000,10	23 206 164	\$0	·	\$24,326	6	\$62.275	\$34,057	\$46 220	\$32 111	\$3.496.16	Phase III		

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Monarch Utilities I, L.P.

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.1	Q.	WHAT WAS THE EFFECT OF THE WEATHER ADJUSTMENT ON TOTAL
2		TEST YEAR WATER CONSUMPTION?
3	A.	Overall, considering the weather metrics that impact water consumption and the
4		varying impacts of these metrics during the year, weather during the Test Year was
5		more extreme than normal, and the magnitude of the weather normalization
6		adjustment is a reduction of 24,134 kgal, or approximately 2.1 percent.
7	Q.	HAVE YOU DETERMINED THE REASONABLENESS OF THE WEATHER
8		ADJUSTMENTS PROPOSED BY MONARCH IN THIS PROCEEDING?
9	A.	Yes. I have reviewed the regressions, the weather data, and the calculation of the
10		weather normalization adjustments, and have found the weather adjustments to be
11		within an acceptable range of reasonableness and accuracy based on long-standing
12		statistical standards in the industry.
13	Q.	DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?
14	A.	Yes, it does.

DIRECT TESTIMONY 15 JOHN W. HUTTS