CHAIRWOMAN Dianne Martin

COMMISSIONERS Kathryn M. Bailey Michael S. Giaimo

EXECUTIVE DIRECTOR Debra A. Howland



PUBLIC UTILITIES COMMISSION 21 S. Fruit St., Suite 10

21 S. Fruit St., Suite 10 Concord, N.H. 03301-2429

April 17, 2020

Debra A. Howland, Executive Director New Hampshire Public Utilities Commission 21 South Fruit Street Concord, New Hampshire 03301-2429

Re: DW 19-147, Hampstead Area Water Company, Inc.

Petition for Approval of Financings

Dear Ms. Howland:

In this letter, Staff of the New Hampshire Public Utilities Commission (Staff) recommends the Commission approve an assented to motion to bifurcate consideration of two loans contained in a financing petition submitted by Hampstead Area Water Company, Inc. (HAWC or Company) in the above-mentioned matter. Staff further recommends the Commission approve a financing for HAWC for an amount up to \$1,204,815 from the New Hampshire Drinking Water and Groundwater Trust Fund (DWGTF) administered by the NH Department of Environmental Services (DES). A detailed narrative of the proposed financings as well as the basis for Staff's recommendations follow.

Background

On September 9, 2019, HAWC filed a petition with the Commission requesting approval of two financings related to its portion of Phase I construction of the Southern NH Regional Water Interconnection Project (Project). The testimonies and attachments of HAWC's consultant, Stephen P. St. Cyr, and HAWC's President, Harold Morse, accompanied the petition.

The first loan (CIAC Tax Loan) in an amount up to \$1,204,815 from the NH DWGTF is for payment of anticipated federal and state income taxes. These taxes are the result of HAWC's approved receipt of Contributions in Aid of Construction (CIAC) in

-

TDD Access: Relay NH

1-800-735-2964

Tel. (603) 271-2431

FAX No. 271-3878

Website:

www.puc.nh.gov

¹ The Southern NH Regional Water Interconnection Project is an initiative supported by DES to transmit water supply from Manchester Water Works to the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow. The Project has two phases. Phase I will enable a total maximum daily flow of 1 million gallons per day (MGD) to the regional systems. The current total estimate for Phase I, including HAWC's portion, is \$26.9 Million. The completion of Phase I is anticipated by the end of 2020. Phase II, when completed, will enable the supply of an additional 3.13 MGD of water to the region. The current estimated cost of Phase II is \$13.8 Million. There is currently no specific timeline for initiation of Phase II's construction. (See Weston & Sampson Memorandum dated January 4, 2019 included as Attachment A to Exhibit 8 of HAWC's original filing.)

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the form of a \$3,283,750 grant², also from the DWGTF, and \$778,000 in estimated contributed plant from the Towns of Salem and Plaistow.³ Each contribution will finance HAWC's portion of Phase I construction of the Project. Mr. Morse's testimony explained that a substantial portion of the planning process for the project took place prior to 2018 when the receipt of CIAC was exempt from taxation for water utilities. The enactment by Congress of the Tax Cuts and Jobs Act (TCJA) of 2017, however, removed that exemption. As such, it is now necessary for HAWC to borrow funds to pay its anticipated income tax liability on the CIAC that it will receive related to Phase I.

Even though the Company is able to borrow an amount up to \$1,204,815 from the DWGTF for this purpose, HAWC's original filing estimated that it would only need to borrow \$894,494 to pay its potential tax liability. Through discovery, however, HAWC now estimates that it will borrow \$1,102,356 from the total approved funds.⁴

With regard to the terms of the CIAC Tax Loan, the financing will amortize over a twenty-five year period through monthly payments including interest based on a rate of 2.96%. Commencing six months from the date of substantial completion of HAWC's portion of the Project, interest payments will be required for a term of six months. After which point, principal and interest payments will be required for the balance of the loan term. Final procurement of the loan is first subject to Commission approval in accordance with RSA 369:1, and then approval by the Governor and Council.

The second loan (MSDC Loan) described in HAWC's initial petition is for an amount of \$392,500 to finance a portion of a total \$892,500 Merrimack Source Development Charge (MSDC)⁷ assessed by Manchester Water Works (MWW) as a result of Phase I. HAWC's total MSDC is in accordance with an agreement dated March 29, 2019 between MWW and the Project's participants, included as Attachment C to Exhibit 8 of HAWC's original filing, which established a purchased capacity rate of \$3.57 per gallon per day. The Company's purchased capacity resulting from Phase I will be 250,000 gallons per day, resulting in HAWC's calculated MSDC of \$892,500 (\$3.57 x 250,000 gallons per day). According to Mr. St. Cyr's testimony, a \$500,000 capital contribution from the Company's shareholder will provide the necessary funding for the remaining portion of the total MSDC.

² See Exhibit 1 of Company's original filing.

³ See Staff 3-10.

⁴ See Staff 3-10.

⁵ The Company's initial filing indicated an interest rate of 2.97%. In its response to Staff 3-1, the Company confirmed that the interest rate on the loan is actually 2.96%.

⁶ See DES response to Staff Question 1(c) dated December 3, 2019.

⁷ The MSDC is a capacity charge assessed by MWW as a means of developing the Merrimack River as an additional source of supply for MWW. The Commission first approved the MSDC in *Manchester Water Works*, Order No. 18,628 (April 6, 1987). For a further brief history of the MSDC and MWW's regulation by the Commission, see *Pennichuck East Utility, Inc. & Pennichuck Water Works, Inc.*, Order No. 26,076 at 2 (November 17, 2017).

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Staff's discovery revealed that HAWC applied for the MSDC Loan through the DWGTF. In August 2019, the DWGTF Advisory Commission informed HAWC of its decision to defer consideration of the MSDC Loan until a later date. The Company anticipates the DWGTF Commission will take this matter up again at a subsequent time, but as of this date, that has not yet occurred. In the alternative, HAWC is prepared to borrow the required funds from Pentucket Bank via the line of credit it holds with that institution at an estimated interest rate of 5.00%. The Company's preference, however, is to borrow the funds from the DWGTF. To

Given the continued uncertainty regarding HAWC's MSDC Loan request, Staff inquired as to the Company's willingness to submit a motion to the Commission to bifurcate consideration of the two proposed loans, to which the Company agreed. ¹¹ Consequently, on February 25, 2020, HAWC filed an Assented-to Motion to Bifurcate Consideration of the Company's proposed MSDC Loan and CIAC Tax Loan. In that motion, HAWC indicates that the Commission's consideration of the CIAC Tax Loan is most critical as it pertains to this summer's actual construction of Phase I. Further, given the current uncertainty regarding the precise terms and conditions that HAWC will obtain relative to the MSDC Loan and the fact that its consideration is not presently as critical as that of the CIAC Tax Loan, HAWC requests that the Commission consider the two financing requests separately, giving priority to the CIAC Tax Loan.

HAWC's original petition filed last September specifically requests the following of the Commission:

- Authority to accept a grant from the DWGTF in the amount of \$3,283,750 for the construction of HAWC's portion of infrastructure related to Phase I of the Southern NH Regional Water Interconnection Project (Project),
- Authority to borrow an amount up to \$1,204,815 from the DWGTF to pay anticipated income taxes incurred from the acceptance of CIAC,
- Authority to borrow an amount up to \$392,500 from either the DWGTF or a bank to finance a portion of the total MSDC assessed by MWW to HAWC relative to the Project,
- A finding that the execution of loan documents by the Company for the purpose of consummating the two requested financings are consistent with the public good,
- A finding that the proposed amounts and uses of the proceeds of the two financings are prudent and consistent with the public interest, and
- Authority to increase rates by such amounts as to enable the Company to recover its investment and earn a reasonable rate of return on such investment.

⁸ See Exhibit 1 of the Company's initial filing and Staff 1-4.

⁹ See Staff 1-1.

¹⁰ See Staff 2-3.

¹¹ See Staff 4-2.

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On September 19, 2019, Staff informed HAWC that it would only be examining the two requests for financing contained in the filing pursuant to RSA 369:1 and RSA 369:4. Staff further stated that it would not be examining the prudency of the Company's proposed improvements, at this time, nor HAWC's request for authority to increase rates. HAWC agreed with Staff's characterization of the purpose of its filing and scope of review. 12

Between October 2019 and January 2020, Staff propounded four rounds of discovery on the Company, to which HAWC provided responses. Staff also made inquiries of DES personnel relative to the Company's participation in Phase I of the Project and the related approved funding from the DWGTF.

Motion to Bifurcate Consideration of the Two Proposed Financings

On February 26, 2020, HAWC filed its assented to motion to bifurcate the underlying financing petition that seeks Commission approval of two distinct financings. HAWC requested that the Commission allow bifurcation of the two financings, allowing the approval of the CIAC Tax Loan, as described below, to proceed. HAWC argued that the time sensitive nature of the CIAC Tax Loan, with the upcoming construction season, and the uncertainty of the terms regarding the MSDC Loan support bifurcation. The Commission has approved a similar bifurcation of financing in the past, stating that the bifurcation "would promote the orderly and efficient conduct of the proceeding." *Pennichuck Water Works, Inc.*, Secretarial Letter, January 18, 2018, (Docket No. DW 17-183) at 1. Staff recommends the Commission approve HAWC's motion for the same reasons.

As previously stated, the terms and conditions of the proposed MSDC Loan at present remain uncertain, as is also the exact lender of these funds. That uncertainty prohibits Staff from making a recommendation to the Commission. Given the critical juncture that now exists relative to the impending commencement of Phase I construction, Staff recommends the Commission move forward with approval of the proposed CIAC Tax Loan at this time as those terms are certain and examined by Staff. Staff anticipates that once the DWGTF Advisory Commission provides a definitive answer to HAWC regarding the pending MSDC Loan, the Company will advise the Commission relative to its financing plans in this regard. Staff will then review those plans, including any updated terms and conditions of the proposed MSDC financing. Staff will then provide the Commission with its recommendation regarding the MSDC Loan at a future date.

CIAC Tax Loan

¹² See Staff 1-29.

April 17, 2020

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Under RSA 369:1, public utilities engaged in business in this state may issue evidence of indebtedness payable more than twelve months after the date thereof only if the Commission finds the proposed issuance to be "consistent with the public good." Analysis of the public good involves looking beyond the actual terms of the proposed financing to the use of the funds and the effect on rates to insure protection of the public good. *Appeal of Easton*, 125 N.H. 205, 211 (1984). "[C]ertain financing related circumstances are routine, calling for more limited Commission review of the purposes and impacts of the financing, while other requests may be at the opposite end of the spectrum, calling for vastly greater exploration of the intended uses and impacts of the proposed financing." *Lakes Region Water Company, Inc.*, Order No. 25,753 (January 13, 2015) at 4-5, citing *Public Service Company of NH*, Order No. 25,050, 94 NH PUC 691, 699 (2009).

The Commission engages in a more limited review for routine financing requests. *Pennichuck Water Works, Inc.*, Order No. 26,247 at 4 (May 3, 2019). A routine request is one that "will have no discernable impact on rates or deleterious effect on capitalization, [and] in which the funds are to enable . . . investments appropriate in the ordinary course of utility operations." *Id.* In the case of the instant financing, while the resulting estimated rate increase is not *de minimus*, it is also not discernable, nor will the proposed financing have a deleterious effect on capitalization, as discussed below. As such, and consistent with other Commission-approved financings from the DWGTF, Staff reviewed HAWC's filing as a routine financing.

In its filing, HAWC avers that the CIAC Tax Loan is in the public interest because the underlying Project enables the Company to provide safe and reliable water service to its existing customers as well as consumers within the Town of Plaistow. Petition at 4. Mr. Morse, in his testimony, states that completion of the Project is beneficial to HAWC with regard to system operation and resource planning. Specifically, the Project will enable HAWC to provide stability to its two core systems relative to both regular and emergency water supply.

In its response to Staff 1-20, HAWC provided a letter from DES Commissioner Robert R. Scott in support of the Company's filing. In his letter, Commissioner Scott stated that HAWC's participation in the Project would benefit its existing customers by facilitating:

- 1) Increased reliability of HAWC's water supply, as some existing wells are experiencing declining yield.
- 2) Improved water quality by enabling HAWC to prioritize higher quality wells.
- 3) A reduction in system complexity by allowing HAWC to take more than half of its existing wells offline.
- 4) An ability to expand to address contamination and/or loss of water in private wells.

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Commissioner Scott further emphasized the critical nature of the Company's participation in the Project because of the necessity to wheel the regional water supply through the HAWC water system to enable service to the Town of Plaistow. Finally, Commissioner Scott echoed the Company's arguments for approval of the financing by stating that it will support HAWC's continuing ability to provide safe and reliable service to its customers at just and reasonable rates.

With regard to the impact that Phase I will have on customer rates, HAWC estimates a resulting increase of 17.31% in its revenue requirement from existing customers. This estimate, however, is inclusive of projected increases in HAWC's operating expenses resulting from Phase I of \$340,000, and is after anticipated revenues from the Town of Plaistow of \$88,000.

With regard to HAWC's capital structure, the Company indicates there will be a relatively small adjustment. Revised Schedule SPS-3 included in the Company's response to Staff 3-10 shows a debt/equity ratio after the completion of Phase I of 66%/34%. This is compared to the Company's projected debt/equity ratio after approval of HAWC's recent tank financing in DW 18-138 of 63%/37%. While the Company's highly leveraged position remains of great concern, Staff notes the commitment made by HAWC's shareholder in DW 18-138 to make capital contributions of at least \$750,000 between 2019 and 2021. Staff also notes that Mr. St. Cyr's testimony states that HAWC will file a general rate case with the Commission at the conclusion of Phase I. As such, Staff anticipates that HAWC's overall capital structure will be an issue taken up for consideration during that proceeding.

Staff recommends the Commission approve HAWC's request for financing relative to its proposed CIAC Tax Loan in an amount up to \$1,204,815. Staff believes the Company has shown that it is necessary to borrow these funds to pay the anticipated income tax liability resulting from its acceptance of CIAC from Phase I. Based on DES's assertions, Staff further believes the Project, itself, appears to be appropriate and in the public good. Lastly, the terms of this financing from the DWGTF are favorable. As such, Staff believes that these terms, when compared with other possible financing options, mitigates the overall impact the Project will have on overall customer rates.

Requests for Additional Commission Approvals

¹³ See Staff 3-10. HAWC's original filing projected an increase in its revenue requirement of 20.17%.

¹⁴ Commission Order No. 26,230 (March 29, 2019) approved a financing of up to \$1,020,000 from the DWGTF. That Order reported a potential debt/equity ratio projection calculated by Staff of 72%/28% upon full withdrawal of that loan and assuming a full withdrawal of HAWC's \$1 Million line of credit with Pentucket Bank. HAWC's debt/equity projection contained on Schedule SPS-3 does not reflect any withdrawal on its available line of credit funds.

April 17, 2020

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As stated previously, HAWC included in its petition a number of other requests for Commission approval in addition to its request for financing approval. Among these was a request for authority from the Commission to accept a grant from the DWGTF of \$3,283,750 for the construction of HAWC's portion of the Phase I infrastructure. While Staff reviewed the grant funds approved for HAWC within the context of the financing requests, Staff believes that Commission approval for the receipt of those grant funds is not specifically required as it does not conflict with the terms of its tariff and the funds are not subject to repayment or considered a financing. RSA 369:1.

HAWC's petition also sought a Commission finding that the proposed amounts and uses of the proceeds of the financings are prudent and consistent with the public interest. While Staff reviewed the proposed Phase I projects anticipated for construction by HAWC within the context of the financing requests, it did not evaluate the prudency of these projects. Staff believes RSA 369:1 and RSA 369:4 do not require a prudency determination at this time and that such would be premature until the proposed plant is in service, and used and useful. *See Hampstead Area Water Company, Inc.*, Order No. 26,230 (March 29, 2019) at 9 (the Commission's approval of the loan "does not foreclose or limit our review in a future rate case of the prudency, use, and usefulness of any specific project directly or indirectly financed by this transaction. The Commission and Staff also retain the authority under RSA 374:4 to keep informed of HAWC's use of the financing independently and apart from any RSA 378:28 review").

Lastly, HAWC's petition requested Commission authority to increase its rates by such necessary amounts as to enable the Company to recover its investment and earn a reasonable rate of return on its proposed investment. Staff has not historically supported a rate increase simultaneous with a request for financing approval, as it believes such constitutes single-issue ratemaking. Staff further believes that a request to increase rates should be in conjunction with a finding that the underlying plant is prudent, in service, and used and useful.

Conclusion

Staff recommends the Commission approve HAWC's request to bifurcate consideration of the two loans originally requested for approval in its financing petition. As such, Staff further recommends the Commission approve, at this time, HAWC's proposed CIAC Tax Loan in an amount up to \$1,204,815 from the DWGTF administered by DES. Staff also recommends the Commission defer consideration of the MSDC Loan of \$392,500 until the actual terms and conditions associated with that loan are fully determined. If you have any further questions related to this matter, please do not he he he had been determined.

Page 8

Sincerely,

/s/ Jayson P. Laflamme

Jayson P. Laflamme Assistant Director, Gas-Water Division

Attachments: Staff Discovery

cc: Service List



TEL: 603.362.4299 FAX: 603.362.4936 www.hampsteadwater.com

October 28, 2019

Christopher R. Tuomala, Esq. NH Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

RE:

Hampstead Area Water Company, Inc.

DW 19-147 - Answers to Staff Data Requests - Set

Dear Attorney Tuomala:

Pursuant to NH Code PUC 203.09, please find attached, the Company's Answers to Staff Data Requests-Set1, regarding the above referenced docket.

If you have any questions, please don't hesitate to contact us.

Very truly yours

Anthony Augeri, Esq General Counsel

AA/ljs enclosures

cc: DW 19-147 Service list electronically

Whawc02 HAWC-Data' Legal HAWC'DW-19-147 Financing Pet for SNH Water Project Correspondence Letter to Attorney Tuomala with data request answers set 1 docx

HAMPSTEAD AREA WATER COMPANY, INC. FOR APPROVAL OF DWGTE FINANCING AND BAN

PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-1

Date of Response: 10/28/2019

Witness: John Sullivan

Staff 1-1

The Company's petition at paragraph 11 states, "A bank has preliminarily indicated that it would approve HAWC's request for financing for a portion of the [Merrimack Source Development Charge (MSDC)] the Company will incur subject to various terms and conditions."

- a) What is the name of the bank indicated in the above statement?
- b) Please describe the nature and extent of the communications between the Company and the bank regarding the proposed financing.
- c) Did the Company submit either an application or pre-application to the bank regarding the proposed financing? If yes, please provide a copy of this documentation.
- d) Has the bank provided a commitment letter or some other documentation relative to a preliminary commitment regarding the proposed financing? If yes, please provide a copy of this documentation.
- e) Please explain why the proposed bank loan will finance only a portion of the total MSDC charges.
- f) Please provide documentation in support of the anticipated terms and conditions of the proposed bank loan, i.e., interest rate of 5.00%; 20-year term consisting of monthly principal and interest payments commencing 30 days from date of closing.
- g) What type of security, if any, is the bank requesting relative to the proposed loan?
- h) Please describe other financing options contemplated by the Company for financing the MSDC charges and why the Company is opting for bank financing.

Response 1-1

- A) Pentucket Bank
- B) The bank has committed to loan to the Company \$392,000 towards the MSDC through the line of credit.
- C) No.
- D) No.
- E) Chris Morse has contributed the balance of the MSDC through additional paid in capital.
- F) This has not yet been finalized with the bank.
- G) This has not yet been finalized with the bank.
- H) See response 1-4. Should the DWGWTF not approved the MSDC loan, The Company will purse private financing.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-2

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-2

Exhibit 1 indicates the NH Drinking Water and Groundwater Advisory Commission (DWGTF Commission) approved a CIAC Tax loan of \$1,204,815. The Company's filing indicates that the anticipated CIAC Tax will be \$894,494, or a difference of \$310,321.

- a) Please provide further explanation as to why the DWGTF Commission approved a loan amount of \$1,204,815 rather than \$894,494.
- b) Please provide the calculation used by NHDES in determining a CIAC Tax loan amount of \$1,204,815.

Response 1-2

- a) Please see response to Staff 1-13. The CIAC tax should be \$1,229,375.
- b) Please see the attached Regional Water Costs summary sheet.

1,597,314

Weston (&) Sampsori Regional Water Costs - DWGTF Application Update 19-Jul-19 Water System Phase I Component **SNHRW Phase I Cost** HAWC Chloramine Conversion (see separate breakout of costs) \$ 1,240,000 Westside Drive Pump Station \$ 1,210,000 Main St. PRV Improvements \$ 575,000 Westside Drive/Main St Contingnecy (15%) 258,750 HAWC Construction & Contingnecy Subtotal* \$ *3*,283,*750* Loan Requests: CIAC Tax (27%) HAWC Construction & Contingency (27% of above subtotal) \$ 929,813 Shannon Road Water Main (bid by Salem) CIAC Tax (27% of Value contributed to HAWC) \$ 151,882 East Road Water Main (bid by Plaistow) CIAC Tax (27% of Value contributed to HAWC) \$ 123,120 MSDC Fee \$ 392,500 Project Total \$ 5,041,064 Grant Request Total \$ 3,443,750 Loan Request Total \$

^{*}Costs include engineering

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-3

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-3

Exhibit 1 indicates that the finalized grant agreement was scheduled to be approved by the Governor and Executive Council (G&C) at its meeting on September 18, 2019. Has the G&C approved the finalized grant agreement? If yes, please provide supporting documentation of that approval. If no, please explain.

Response 1-3

The grant agreement has been finalized. See attached.



The State of New Hampshire

DEPARTMENT OF ENVIRONMENTAL SERVICES

Robert R. Scott, Commissioner



September 27, 2019

Via Electronic Mail

Christine Lewis Morse, Vice President The Hampstead Area Water Company, Inc. 54 Sawyer Avenue Atkinson, NH 03811

Subject:

Drinking Water and Groundwater Trust Fund (DWGTF) # DWGT-39

Southern New Hampshire Regional Water Interconnection Project – HAWC Infrastructure

Grant Agreement Approved

Dear Ms. Morse:

The purpose of this letter is to officially notify The Hampstead Area Water Company, Inc. (HAWC) of action taken by the Governor and Executive Council. On September 18, 2019, the Governor and Executive Council authorized the approval of a Drinking Water and Groundwater Trust Fund (DWGTF) grant agreement between the Department of Environmental Services (DES) and The Hampstead Area Water Company, Inc. in the total amount of \$3,283,750 under the provisions of RSA 485:F for the Southern New Hampshire Regional Water Interconnection Project — HAWC Infrastructure.

Upon receiving approval from the Governor and Council, HAWC has six (6) months from this date to submit its first request for disbursement of funds. Failure to request a disbursement shall cause the grant agreement to be declared null and void. If HAWC has advanced funds prior to the date of this grant agreement, provided they are eligible expenses, you may submit a disbursement request immediately for those expenses. Attached is the Request for Disbursement form which must be submitted with all supporting documentation. The form is also available online at <u>Link to DWGTF forms</u>. Each disbursement request will be paid 100% grant funds. The total reimbursement shall not exceed the grant award of \$3,283,750.

Please note, plans and specifications must be submitted on all significant elements of the project; design approval and authorization must be obtained from the NHDES to advertise for bids on the project; and authorization must be received from NHDES to award the construction contract. All work must be completed by June 1, 2021.

Sincerely,

Erin Holmes, P.E., Administrator

Drinking Water and Groundwater Trust Fund

MtBE Remediation Bureau

Enclosures:

Grant and Loan Agreement and Disbursement Request Form

Approved G&C Grant and Loan Agreement

Cc: Michael Juranty, P.E., MtBE Remediation Bureau Administrator, NHDES

Michael Unger, P.E., DWGB, NHDES

Harold Morse, HAWC (harold@hampsteadwater.com)
Charlie Lanza, HAWC (charlie@hampsteadwater.com)

DES Web Site: www.des.nh.gov
P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095
Telephone: (603) 271-2513 Fax: (603) 271-5171 TDD Access: Relay NH 1-800-735-2964



The State of New Hampshire Department of Environmental Services

Robert R. Scott, Commissioner



August 29, 2019

His Excellency, Governor Christopher T. Sununu and the Honorable Council State House Concord, New Hampshire 03301

APPROVED G & C
ATE 18 Sep19
EM# 75

REQUESTED ACTION

Authorize the Department of Environmental Services to award a grant to The Hampstead Area Water Company, Inc. (VC# 156646-B001), of Atkinson, NH in the amount not to exceed \$3,283,750 for water system capital improvements under the provisions of RSA 485:F, effective upon Governor & Council approval through June 1, 2021. 100% Drinking Water and Groundwater Trust Fund.

Funds to support this request are anticipated to be available in the following account in FY2020 upon the availability and continued appropriation of funds in the future operating budget:

03-44-44-442010-3904-073-500580

FY 2020

Dept. Environmental Services, Drinking Water and Groundwater Trust, Grants Non-Federal

\$3,283,750

EXPLANATION

The Drinking Water and Groundwater Trust Fund (Trust Fund) was created in 2016, using \$276 million of MtBE trial judgement funds, as authorized by RSA 485-F. The purpose of the Trust Fund is to provide sustainable, long-term funding for the protection, preservation, and enhancement of the drinking water and groundwater resources of the state. The Trust Fund Advisory Commission was established to administer the Trust Fund and to provide guidance to the State on the use of the Trust Fund.

On August 13, 2019, the Advisory Commission voted to authorize \$3,283,750 as a grant to the Hampstead Area Water Company, Inc. for payment for capital improvements including water transmission mains and associated facilities and conversion of the system's disinfection method to support the supply of drinking water from Manchester Water Works that will ultimately be delivered to downstream water systems participating in the Southern New Hampshire Regional Water Interconnection Project. This agreement has been approved by the Attorney General's Office as to form, substance and execution.

We respectfully request your approval of this item.

Robert R. Scott Commissioner

DES Website: www.des.nh.gov
P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095
Telephone: (603) 271-2513 • Fax: (603) 271-5171 • TDD Access: Relay NH 1-800-735-2964

Subject: The Hampstead Area Water Company, Inc.

GRANT AGREEMENT

The State of New Hampshire and the Grantee hereby mutually agree as follows:

GENERAL PROVISIONS

1. Identification.

| 1.1 State Agency Name | | 1.2 State Agency Address | | |
|---|---------------------|---|----------------------|--|
| NH Department of Environmental Services | | 29 Hazen Drive, Concord, NH 03301 | | |
| 1.3 Grantee Name | | 1.4 Grantee Address | | |
| The Hampstead Area Water Co | mpany, Inc. | 54 Sawyer Avenue, Atkinson, NH 03811 | | |
| 1.5 Effective Date | 1.6 Completion Date | 1.7 Audit Date | 1.8 Grant Limitation | |
| Upon G&C Approval | June 1, 2021 | N/A | \$3,283,750 | |
| 1.9 Grant Officer for State Ag | | 1.10 State Agency Telephone Number | | |
| Erin Holmes, Drinking Water & | Groundwater Trust | 603-271-8321 | | |
| Fund, NH Department of Enviro | onmental Services | | | |
| I.II Grantce Signature | · | 1.12 Name & Title of Grantee Signor | | |
| Christ Peu | Mom | Christine Lewis Moise, Vie President County of Rackingham | | |
| 1.13 Acknowledgment: State | of Lew Hamashie, | County of Rocking | ham | |
| On 3/28/19, before the undersigned officer, personally appeared the person identified in block 1.12, or satisfactorily proven to be the person whose name is signed in block 1.11, and acknowledged that s/he executed this document in the capacity indicated in block 1.12. 1.13.1 Signature of Notary Public or Justice of the Peace My Commission Explain December 6, 2023 [SEAL] 1.13.2 Name & Title of Notary Public or Justice of the Peace Asst: Secretary - Grand (p-sel- 1.14 State Agency Signature(s) 1.15 Name/Title of State Agency Signor(s) | | | | |
| 1.14 State Agency Signature(s | 1 | 1.15 Name/Title of State | Agency Signor(s) | |
| Rust 1 | rel | Robert R. Scott, Commissioner NH Department of Environmental Services | | |
| 1.16 Approval by Attorney General (Form, Substance and Execution) | | | | |
| | | | | |
| By: 8 6 7 | | On: 9 | 73/19 | |
| By: 1.17 Approval by the Governor and Executive Council | | | | |
| | | | | |
| Ву: | | On: | | |

- 2 SCOPE OF WORK. In exchange for grant funds provided by the state of New Hampshire, acting through the agency identified in block 1.1 (hereinafter referred to as "the State"), pursuant to RSA 21-O, the Grantee identified in block 1.3 (hereinafter referred to as "the Grantee"), shall perform that work identified and more particularly described in the scope of work attached hereto as EXHIBIT A (the scope of work being referred to as "the Project").
- 3 AREA COVERED. Except as otherwise specifically provided for herein, the Grantee shall perform the Project in, and with respect to, the State of New

4 EFFECTIVE DATE: COMPLETION OF PROJECT.

- 4 I This Agreement, and all obligations of the parties hereunder, shall become effective on the date in block 1.5 or on the date of approval of this Agreement by the Governor and Council of the State of New Hampshire whichever is inter (hereinofter referred to as the "Effective Date").
- 4.2 Except as otherwise specifically provided for herein, the Project, including all reports required by this Agreement, shall be completed in ITS entirety prior to the date in block 1.6 (hereinafter referred to as the "Completion Date").
- 5 GRANT AMOUNT: LIMITATION ON AMOUNT: PAYMENT,
 5 I The Grant Amount is identified and more particularly described in EXHIBIT B, stached hereto
- 5.2 The manner of, and schedule of payment shall be as set forth in EXHIBIT
- 53 In accordance with the provisions set forth in EXHIBIT B, and in consideration of the satisfactory performance of the Project, as determined by the State, and as limited by subparagraph 5.3 of these general provisions, the State shall pay the Grantee the Grant Amount. The State shall withhold from the amount otherwise payable to the Grantee under this subparagraph 5.3 those sums required, or permitted, to be withheld pursuant to N H. RSA 80 7
- 5.4 The payment by the State of the Grant amount shall be the only, and the complete, compensation to the Grantee for all expenses, of whatever nature. incurred by the Grantee in the performance hereof, and shall be the only, and the complete, compensation to the Grantee for the Project. The State shall have no liabilities to the Grantee other than the Grant Amount.
- 5.5 Notwithstanding anything in this Agreement to the contrary, and notwithstanding unexpected circumstances, in no event shall the total of all payments authorized, or actually made, hereunder exceed the Grant limitation
- set forth in block 1 8 of these general provisions.

 6 COMPLIANCE BY GRANTEE WITH LAWS AND REGULATIONS. In connection with the performance of the Project, the Grantee shall comply with all statutes, laws, regulations, and orders of federal, state, county, or municipal authorities, which shall impose any obligations, or duty upon the Grantee, including the acquisition of any and all necessary permits 7 RECORDS AND ACCOUNTS.

- 7.1 Between the Effective Date and the date seven (7) years after the Completion Date the Grantee shall keep detailed accounts of all expenses incurred in connection with the Project, including, but not limited to, costs of administration, transportation, insurance, telephone calls, and clerical materials and services. Such accounts shall be supported by receipts. invoices, bills and other similar documents
- 7.2 Between the Effective Date and the date seven (7) years after the Completion Date, at any time during the Grantee's normal business hours, and as often as the State shall demand, the Grantee shall make available to the State all records pertaining to matters covered by this Agreement. The Grantee shall permit the State to audit, examine, and reproduce such records, and to make audits of all contracts, involces, materials, payrolls, records or personnel, data (as that term is hereinafter defined), and other information relating to all matters covered by this Agreement. As used in this paragraph, "Grantee" includes all persons, natural or fictional, affiliated with, controlled by, or under common ownership with, the entity identified as the Grantee in block 1.3 of these general provisions

- 8. PERSONNEL.

 8. I The Granice shall, at its own expense, provide all personnel necessary to perform the Project. The Grantee warrants that all personnel engaged in the Project shall be qualified to perform such Project, and shall be properly licensed and authorized to perform such Project under all applicable laws.
- 8.2 The Granice shall not hire, and it shall not pennit any subcontractor, subgrantee, or other person, firm or corporation with whom it is engaged in a combined effort to perform such Project, to hire any person who has a contractual relationship with the State, or who is a State officer or employee, elected or appointed.

8.3 The Grantee officer shall be the representative of the State hereunder. In the event of any dispute hereunder, the interpretation of this Agreement by the Grantee Officer, and his/her decision on any dispute, shall be final 9 DATA: RETENTION OF DATA: ACCESS.

9.1 As used in this Agreement, the word data shall mean all information and things developed or obtained during the performance of, or acquired or developed or obtained during the performance of, or acquired or developed by reason of, this Agreement, including, but not limited to, all studies, reports, files, formulae, surveys, maps, charts, sound recordings, video recordings, pictorial reproductions, drawings, analyses, graphic representations, computer programs, computer printouts, notes, letters, memorands, papers, and documents, all whether finished or unfinished

9.2 Between the Effective Date and the Completion Date the Grantee shall grant to the State, or any person designated by it, unrestricted access to all data for examination, duplication, publication, translation, sale, disposal, or for any other purpose whatsoever

9.3 No data shall be subject to copyright in the United States or any other country by anyone other than the State

9.4 On and after the Effective Date all data, and any property which has been received from the State or purchased with funds provided for that purpose under this Agreement, shall be the property of the State, and shall be returned to the State upon demand or upon termination of this Agreement for any reason, whichever shall first occu-

9.5 The State, and anyone it shall designate, shall have unrestricted authority to publish, disclose, distribute and otherwise use, in whole or in part, all data 10 CONDITIONAL NATURE OR AGREEMENT. Notwithstanding anything in this Agreement to the contrary, all obligations of the State hereunder, including without limitation, the continuance of payments hereunder, are contingent upon the availability or continued oppropriation of funds, and in no event shall the State be liable for any payments hereunder in excess of such available or appropriated funds. In the event of a reduction or termination of those funds, the State shall have the right to withhold payment until such funds become available, if ever, and shall have the right to terminate this Agreement immediately upon giving the Grantee notice of such termination

11. EVENT OF DEFAULT: REMEDIES.

- 11.1 Any one or more of the following acts or omissions of the Grantee shall constitute on event of default hereunder (hereinafter referred to as "Events of Default");
- 11 1.1 failure to perform the Project satisfactorily or on schedule, or

11.1.2 failure to submit any report required hereunder; or

- 14-1.3 failure to maintain, or permit occess to, the records required hereunder,
- 11.1.4 failure to perform any of the other covenants and conditions of this Agreement
- 11.2 Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:
- 11.2.1 give the Grantee a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) days from the date of the notice, and if the Event of Default is not timely remedied, terminate this Agreement, effective two (2) days after giving the Grantee notice of termination; and
- 11.2.2 give the Grantee a written notice specifying the Event of Default and suspending all payments to be made under this Agreement and ordering that the portion of the grant amount which would otherwise accrue to the Grantee during the period from the date of such notice until such time as the State determines that the Grantee has cured the Event of Default shall never be paid to the Grantee; and
- 11 23 set off against any other obligation the State may owe to the Grantee any damages the State suffers by reason of any Event of Default, and
- 11.2.4 treat the Agreement as breached and pursue any of its remedies at law or in equity, or both

- 12 TERMINATION.
 12 I in the event of any early termination of this Agreement for any reason other than the completion of the Project, the Grantee shall deliver to the Grant Officer, not later than fifteen (15) days after the date of termination, a report ("Termination Report") describing in detail all Project Work performed, and the Grant Amount earned, to and including the date of termination
- 12.2 In the event of Termination under paragraphs 10 or 12.4 of these general provisions, the approval of such a Termination Report by the State shall entitle the Grantee to receive that portion of the Grant amount earned to and including the date of termination.
- 12.3 In the event of Termination under paragraphs 10 or 12.4 of these general provisions, the approval of such a Termination Report by the State shall in no Grantee Initials CLM

Date 848 19

event relieve the Grantee from any and all liability for damages sustained or incurred by the State as a result of the Grantee's breach of its obligations hereunder.

- 12.4 Notwithstanding anything in this Agreement to the contrary, either the State or except where notice default has been given to the Grantee hereunder, the Grantee, may terminate this Agreement without cause upon thirty (30) days written notice.
- 13 CONFILICT OF INTEREST. No officer, member or employee of the Grantee and no representative, officer of employee of the State of New Hampshire or of the governing body of the locality or localities in which the Project is to be performed, who exercises any functions or responsibilities in the review or approval of the undertaking or carrying out of such Project, shall participate in any decision retating to this Agreement which affects his or her personal interests or the interest of any corporation, partnership, or association in which he or she is directly or indirectly interested, nor shall he or she have any personal or pecuniary interest, direct or indirect, in this Agreement or the proceeds thereof
- 14 GRANTEE'S RELATION TO THE STATE. In the performance of this Agreement the Grantee, its employees, and any subcontractor or subgrantee of the Grantee are in all respects independent contractors, and are neither agents nor employees of the State. Neither the Grantee nor any of its officers, employees, agents, members, subcontractors or subgrantees, shall have authority to bind the State nor are they entitled to any of the benefits, workers' compensation or empluments provided by the State to its employees. 15. ASSIGNMENT AND SUBCONTRACTS. The Grantee shall not assign, or otherwise transfer any interest in this Agreement without the prior written.

or otherwise transfer any interest in this Agreement without the prior written consent of the State None of the Project Work shall be subcontracted or subgrammed by the Grance other than as set forth in Exhibit A without the prior written consent of the State.

16 INDEMNIFICATION. The Grantee shall defend, indemnify and hold harmless the State, its officers and employees, from and against any and all losses suffered by the State, its officers and employees, and any and all claims, liabilities or penalties asserted against the State, its officers and employees by or on behalf of any person, on account of, based on or resulting from arising out of (or which may be claimed to anse out of) the acts or omissions of the Grantee of Subcontractor, or subgrantee or other agent of the Grantee. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the sovereign immunity of the State, which immunity is hereby reserved to the State. This covenant shall survive the termination of this Agreement.

17 INSURANCE AND BOND.

- 17 The Grantee shall, at its sole expense, obtain and maintain in force, or shall require any subcontractor, subgrantee or assignee performing Project work to obtain and maintain in force, both for the benefit of the State, the following insurance
- 17 I I statutory workers' compensation and employees liability insurance for all employees engaged in the performance of the Project, and
- 17.1.2 comprehensive public liability insurance against all claims of bodily injuries, death or property damage, in amounts not less than \$2,000,000 for bodily injury or death any one incident, and \$500,000 for property damage in any one incident, and
- 17.2 The policies described in subparagraph 18.1 of this paragraph shall be the standard form employed in the State of New Hampshire, issued by underwriters acceptable to the State, and authorized to do business in the State of New Hampshire. Each policy shall contain a clause prohibiting cancellation of modification of the policy earlier than ten (10) days after written notice the of has been received by the State.
- is <u>WAIVER OF BREACH</u>. No failure by the State to enforce any provisions hereof after any Event of Default shall be deemed a waiver of its rights with regard to that Event, or any subsequent Event. No express waiver of any Event of Default shall be deemed a waiver of any provisions hereof No such failure or waiver shall be deemed a waiver of the right of the State to enforce each and all of the provisions hereof upon any further or other default on the part of the Grantee
- 19 NOTICE. Any notice by a party hereto the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses first above given
- 20 <u>AMENDMENT</u>. This Agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto and only after approval of such amendment, waiver or discharge by the Governor and Council of the State of New Hampshire
- 21 CONSTRUCTION OF AGREEMENT AND TERMS. This Agreement shall be construed in accordance with the law of the State of New

Hempshire, and is binding upon and inures to the benefit of the parties and their respective successors and assignces. The captions and contents of the "subject" blank are used only as a matter of convenience, and are not to be considered a part of this Agreement or to be used in determining the intent of the parties hereto.

- 22 THIRD PARTIES. The parties hereto do not intend to benefit any third parties and this Agreement shall not be construed to confer any such benefit
- 23 ENTIRE AGREEMENT. This Agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire Agreement and understanding between the parties, and supersedes all prior Agreements and understandings relating hereto

Grantee Initials (LeA Date 5/3%/19

EXHIBIT A SCOPE OF SERVICES

The Hampstead Area Water Company, Inc.:

The Hampstead Area Water Company, Inc. (HAWC) will use the grant funds to complete water system improvements directly related to and necessitated by the Southern New Hampshire Regional Water Interconnection Project (Southern NH Project). Grant funds will cover eligible construction phase costs including engineering, construction and land easement costs for the following tasks:

- Conversion of nine (9) existing well systems from chlorine to chloramine disinfection for compatibility with water received from Salem, delivered to HAWC as part of the Southern NH Project.
- Construction of a new pumping station on Westside Drive in Salem.
- Drinking water system improvements to the existing Main Street pressure reducing valve station in Atkinson.

EXHIBIT B BUDGET & PAYMENT METHOD

The NHDES shall pay to the Grantee the total reimbursable program costs in accordance with the following requirements:

Reimbursement requests for program costs shall be made no more than once per calendar month by the Grantee using the Drinking Water and Groundwater Trust Disbursement form as supplied by the NHDES, which shall be completed and signed by the Grantee. The disbursement form shall be accompanied by proper supporting documentation based upon direct costs. The Grantee will maintain adequate documentation to substantiate all Program related costs. All work shall be performed to the satisfaction of the NHDES before payment is made.

Each disbursement request will be paid 100% of eligible expenses as grant funds not to exceed \$3,283,750 of DWGTF grant funds.

EXHIBIT C SPECIAL PROVISIONS

1. Changes to the Scope of Services require NHDES approval in advance. Work must be completed and request for reimbursement must be made by the completion date listed on the grant agreement (section 1.6).

Grantee Initials (LM)
Date 9 5 4

TO: Christine Lewis Morse
Hampstead Area Water Company, Inc.
54 Sawyer Avenue
Atkinson, NH 03811

CONSENT IN LIEU OF SPECIAL MEETING OF THE BOARD OF DIRECTORS

WHEREAS, New Hampshire RSA 293-A:8.21 and the Hampstead Area Water Company, Inc. (Corporation) Bylaws provide for the taking by written consent of any action which may otherwise be taken by vote of the Corporation's Board of Directors (Directors); and

WHEREAS, the Corporation Directors deem the actions as set forth in the following Votes to require prompt action; and

WHEREAS, it is not convenient to call a Directors' Meeting;

NOW, THEREFORE, in lieu of a regular Directors' Meeting each member of the Directors, by execution of this Consent, hereby consents to the following action:

VOTE:

That the Vice President of the Corporation, Christine Lewis Morse, is authorized to enter into a grant agreement on behalf of the Corporation to accept an award of up to \$3,283,750 in grant funds from the Drinking Groundwater Trust Fund as part of the Southern New Hampshire Regional Water Interconnection Project; and is authorized to execute and deliver all documents necessary that are required to complete this transaction.

Date: August 28, 2019

Christine Lewis Morse, Director

ATTEST:

Anthony S Augeri, Assistant Secretary

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| ACORD' |
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| THIS CERTIFICAT |

DATE (MIX/DD/YYYY)

| | CERTIFICATE OF LIABILITY INSURANCE 08/20/2019 | | | | | | | | | |
|--|---|--|---------------------------------------|--|--|------------------------------|------------------------------|-----------------------------------|-------------|-------------|
| C B R | THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. | | | | | | | | | |
|] !/ | IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s). | | | | | | | | | |
| | | the | certif | icate holder in lieu of auci | | | | | | |
| PRODUCER Brown & Brown of New Hampshire | | | CONTACT Patrick Payette ARM | | | | | | | |
| l | Daniel Webster Highway | | | | PHONE (503) 424-9901 FAX (556) 848-1223 (AC, No.): (556) 848-1223 (AC, | | | | | |
| | • | | | | | | | | | |
| Merrimack NH 03054 | | MSURER(S) AFFORDING COVERAGE MSURER A: Acadia Insurance Company | | | NAIC# 31325 | | | | | |
| INSURED. | | | MSURERB: Unon Insurance Company 25844 | | | | | | | |
| Hampstead Area Water Company, Inc. | | MSURER C: | | | | | | | | |
| 54 Sawyer Avenue | | NSURERD: | | | | | | | | |
| | | | | | INSUFLE | RE: | | | | |
| L | Alkinson | | | NH 03811 | MSURE | AF: | | | | |
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| Gene | eral Liability additional insured provided whe | en req | uired | by written contract for ongoing | operat | lons | | | | |
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| CER | TIFICATE HOLDER | | | | CANC | ELLATION | | | | |
| State of New Hampshire Dept of Environmental Services 29 Hazen Drive | | SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. | | | | | | | | |
| | Concord | | | NH 03301 | | _ | 11 1 | Ebernir | | 1 |
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The ACORD name and logo are registered marks of ACORD

State of New Hampshire Department of State

CERTIFICATE

I, William M. Gardner, Secretary of State of the State of New Hampshire, do hereby certify that THE HAMPSTEAD AREA WATER COMPANY, INC. is a New Hampshire Profit Corporation registered to transact business in New Hampshire on April 05, 1989. I further certify that all fees and documents required by the Secretary of State's office have been received and is in good standing as far as this office is concerned.

Business ID: 140553

Certificate Number; 0004428406

O THE STATE OF THE

IN TESTIMONY WHEREOF,
I hereto set my hand and cause to be affixed
the Seal of the State of New Hampshire,
this 5th day of March A.D. 2019.

William M. Gardner Secretary of State n form aboa.

Business Information

Business Details

Business Name: THE HAMPSTEAD AREA WATER COMPANY, INC.

Business ID: 140553

Business Type: Domestic Profit Corporation

Business Status: Good Standing

Business Creation 04/05/1989 Date:

Name in State of Not Available Incorporation:

Date of Formation in Jurisdiction: 04/05/1989

Principal Office \$4 SAWYER AVENUE,

Address: ATKINSON, NH, 03811, USA

Mailing Address: 54 Sawyer Ave, Atkinson, NH,

03811, USA

Citizenship / State of Incorporation: Domestic/New Hampshire

Last Annual Report Year: 2019

Next Report Year: 2020

Duration: Perpetual

Business Email: aaugeri@lewisbuilders.com

Phone #: NONE

Notification Email: aaugeri@lewisbuilders.com

Fiscal Year End NONE

Principal Purpose

S.No NAICS Code

NAICS Subcode

Utilities 1

Water Supply and Irrigation Systems

OTHER / DEAL IN WATER SYSTEMS: 2

COMMUNITY & PUBLIC

Page 1 of 1, records 1 to 2 of 2

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|---------------------------------|
| Staff 1-4 | Witness: Charles Lanza and John |
| | Sullivan |

Staff 1-4

Exhibit 1 states, "... the [DWGTF] Commission has deferred the decision to award Merrimack Source Development Charge (MSDC) loan request for \$392,500 until a later date."

- a) Please provide the explanation as to why the DWGTF Commission is deferring its decision regarding the MSDC loan request until a later date.
- b) What does the Company anticipate as the likelihood of the DWGTF Commission of eventually granting approval for the MSDC loan request?
- c) Please describe the subsequent process for obtaining eventual DWGTF Commission approval for its MSDC loan request. Will the Company need to reapply for these funds? Please explain.
- d) Please explain why the Company appears to be seeking to procure an alternative financing source for the MSDC.
- e) If the DWGTF Commission subsequently approves awarding the MSDC loan to the Company, will HAWC cease its pursuit of an alternative financing source? Please explain.

Response 1-4

- a) The Commission tabled a number of items including the MSDC loan request as the meeting ran over allotted time for the agenda.
- b) The Company does not know what the likelihood is of the Commission granting the loan request.
- c) Our understanding is that the item will be on the agenda of the November or December meeting.
- d) The Company is seeking "alternative financing source for the MSDC" in the event that DWGTF are not approved.
- e) Yes

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-5

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-5

Exhibit 2 regarding the Westside Drive Booster Station and Treatment Facility Project Cost includes a \$60,000 amount recorded in Account 339, Miscellaneous, that is noted as "Past HAWC Costs to be Reimbursed under this contract." Please provide further explanation as to nature of these prior costs incurred by HAWC.

Response 1-5

These costs relate to miscellaneous technical, engineering, and administrative tasks performed over the past two years that DES asked the Company to request reimbursement under this project rather than the Atkinson Tank Project.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

Date request received: 10/11/2019

Staff 1-6

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-6

Mr. St. Cyr's Testimony on Page 3, Lines 1-5 indicates that HAWC's Phase I construction costs will be funded by the DWGTF grant of \$3,283,750. Please explain how those grant funds will be disbursed to the Company, i.e., will these funds be disbursed prior to construction or, as the various components of the Phase I construction are completed or, after the Phase I construction is fully completed, etc.

Response 1-6

Grant funds will be reimbursed to the Company on a monthly basis as work is completed under each portion of the project. There are up to four separate HAWC contracts that are under construction or will be put out to bid and as work is completed monthly disbursement requests are submitted to HAWC by the General Contractor for each contract. HAWC's engineer reviews these disbursement requests and if they are in order HAWC pays the General Contractor and HAWC requests reimbursement from DES on a monthly basis.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|------------------------------|
| Staff 1-7 | Witness: John Sullivan |

Staff 1-7

Mr. St. Cyr's Testimony on Page 3, Lines 8-12 indicates that the total MSDC charge owed by HAWC is \$892,500 and that \$392,500 of this amount is to be financed by a loan with the remaining \$500,000 to be contributed by the shareholder.

- a) Please explain how the total MSDC charge owed by HAWC of \$892,500 was calculated. (Please provide supporting calculations, as necessary.)
- b) Please explain why it was determined that \$392,500 of the total MSDC charge is to be financed by a loan and that the remaining \$500,000 is to be financed by a capital contribution by the shareholder.

Response 1-7

- a) This was a charge set by Manchester Water Works. \$3.57 times the contracted gallons per day (250,000).
- b) The owner has contributed substantial sums of money to the Company over the last few years. \$500,000 is the amount she has available to contribute.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|------------------------------|
| Staff 1-8 | Witness: Charles Lanza |

Staff 1-8

Mr. St. Cyr's Testimony on Page 3, Line 21 states, concerning the DWGTF financing of \$894,494 for the CIAC Tax, "The length of the loan is 25 years. The interest rate is 2.97%." Please provide documentation from NHDES in support of these terms.

Response 1-8

Per the DWGTF Advisory Commission Rules for Construction Projects, "The Commission will establish loan rates the first Thursday in August each year based on the 11 G.O. Bond Index published weekly by Bond Buyer." The rate was set using the August 1, 2019 index and is 2.96%. The loan term will be set in the original loan agreement that will be drafted after NHDES receives the applicant's Final Application. A loan in the amount of \$1,204,815 for the CIAC tax was approved as described in NHDES's letter to HAWC dated August 16, 2019, attached, and will be subject to the rate established on August 1, 2019.

Link to Commission rules: https://www4.des.state.nh.us/nh-dwg-trust/wp-content/uploads/2019/03/DWGTF-Commission-Construction-Rules-adopted-Mar11 2019.pdf





Commission Members

Senator Chuck Morse, Chair

Senator Tom Sherman, Vice Chair

Representative Deborah Hobson, Clerk

Representative Kevin Maes

Rodney Bartlett, Public Member

William W. Boyd, III, Town Council Member

Bruce Breton, Town Selectman

Clark B. Freise, Governor's Designee

Andrea Kenter, P.G., Public Member

Dorothy Kurtz, Public Member

Rachel Miller, NH State Treasury

Lisa Morris, Division of Public Health

Marco Philippon, NH Water Works Association

Rick Russman, State or Regional Land Trust Member

Paul Sanderson, NH Fish and Game Department

Bernie Rousseau, Public Member

Robert R. Scott, NH
Department of Environmental
Services

Tim Vadney, P.E., NH Water Pollution Control Association

Christopher S. Way, NH Economic Development

August 16, 2019

Harold Morse, President Hampstead Area Water Company, Inc. 54 Sawyer Avenue Atkinson, NH 03811

Subject: Southern New Hampshire Regional Water Interconnection Project – HAWC

Infrastructure

Dear Mr. Morse,

On August 13, 2019, the NH Drinking Water and Groundwater Advisory Commission (Commission) authorized an award of \$4,488,565 in grant and loan funds to The Hampstead Area Water Company, Inc. (HAWC) for payment of the construction of drinking water infrastructure improvements necessary for HAWC to accept and transmit project water to downstream water systems participating in the Southern NH Regional Water Interconnection Project and for payment of the Federal Contribution in Aid of Construction (CIAC) tax. This letter is also to inform you that the Commission has deferred the decision to award Merrimack Source Development Charge (MSDC) loan request for \$392,500 until a later date. The New Hampshire Department of Environmental Services will follow-up with HAWC with any additional information regarding the MSDC loan request when it becomes available.

The project descriptions and respective award amounts are provided below:

Project Description

Construction related costs including conversion of treatment systems from chlorine to chloramine

Funding Award Amount \$3,283,750 grant funds

CIAC Tax

\$1,204,815 loan funds

It is our understanding that entering into a grant agreement and obtaining Governor and Executive Council approval for the grant award described above is time critical due to the need to bid the project in early fall. The next step is for you to submit a final application. The documents are listed on the enclosed checklist and available online at: <u>Link to Final Application Forms</u>. The documents for the loan are also listed on the website at the link above. As the loan is not a time critical item and will require approval by the Public Utilities Commission, NHDES recommends immediate submittal of the final application for the grant and will process the grant and loan awards separately.

August 16, 2019 Harold Morse Page 2 of 2

Once the final application for the grant has been submitted, HAWC will enter into a grant agreement which must be approved by the Governor and Executive Council. The final application must be submitted at your earliest convenience but no later than **August 22, 2019** in order to meet the September 4, 2019 closing for the September 18, 2019 Governor and Executive Council meeting.

Please note, the final application requires a Certificate of Vote of Authorization to enter into this agreement. If you do not have the authority to accept the grant award, we encourage you to move forward at this time and provide us the anticipated award date. Any non-construction project related work that has been completed may be eligible for reimbursement once the funding agreement is in place and approved by the Governor and Executive Council.

If you have any questions, please contact me at 603-271-8321 or at erin.holmes@des.nh.gov.

Sincerely,

Erin Holmes, P.E.

TyS HUTT

Drinking Water and Groundwater Trust Fund Administrator

MtBE Remediation Bureau

Attachments: Final Application Checklist

Cc: Michael Juranty, P.E., MtBE Remediation Bureau Administrator, NHDES

Michael Unger, P.E., DWGB, NHDES

Charlie Lanza, HAWC (Charlie@Hampsteadwater.com)

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-9

Date of Response: 10/28/2019

Witness: Charles Lanza and John
Sullivan

Staff 1-9

Mr. St. Cyr's Testimony on Page 7, Lines 8-10 indicates that the Company's Operation and Maintenance Expense pro forma adjustment of \$200,000 consists of \$372,000 in additional purchased water expense less \$172,000 in reduced expenses from "turning off some wells."

- a) Please explain how the additional purchased water expense of \$372,000 was determined. (Please provide supporting calculations, as necessary.)
- b) Please explain how the \$172,000 in reduced expenses from "turning off some wells" was determined. (Please provide supporting calculations, as necessary.)
- c) Please provide further explanation regarding what is specifically meant when the Company states that it will be "turning off some wells", i.e., will the disconnection of these wells be temporary or permanent?
- d) Please indicate the specific wells that are anticipated to be disconnected as a result of the Phase I improvements.

Response 1-9

- a) This was determined by multiplying 250,000 gallons per day from Salem at \$3.05 per 100 cubic foot for 365 days.
- b) The \$172,000 was established by reducing well expenses by 50%, power purchased by 50%, pumping expenses by 25%, and treatment expenses by 25%.
- c) Nine existing pumping and treatment stations in Atkinson and Hampstead will be converted to chloramines under the SNHRWP. The remaining stations will remain active sources; However, they will not provide water on a regular basis into the system until they have been converted to chloramines. Some stations will be converted on an as needed basis over time and some will be abandoned entirely. This will be determined as we better understand the operations and costs associated with the chloramines.
- d) See response (c).

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-10

Date of Response: 10/28/2019

Witness: John Sullivan

Staff 1-10

Mr. St. Cyr's Testimony on Page 8, Lines 7-9 states, "The Company's owner has made significant equity contribution[s] in recent years including \$500,000 in 2019."

- a) Please clarify whether the owner's \$500,000 equity contribution in 2019 was for the MSDC charge owed by HAWC, as described in the filing, or was a separate and distinct equity infusion from that anticipated relative to the MSDC charge.
- b) Please indicate the owner's equity contributions made in each of the past 5 years (2014 2018).

Response 1-10

- A) This question is unclear. The owner, as requested by the PUC, has agreed to contribute money to HAWC to help lower the debt to equity ratio. The \$500,000 is part of that commitment.
- B) 2014 \$0
- C) 2015 \$150,000
- D) 2016 \$500,000
- E) 2017 \$400,000
- F) 2018 \$400,000

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

Date request received: 10/11/2019

Staff 1-11

Date of Response: 10/28/2019

Witness: John Sullivan

Staff 1-11

Mr. St. Cyr's Testimony on Page 8, Lines 9-12, with regard to increasing the equity component of the Company's overall capital structure, makes no mention of future anticipated equity infusions by the shareholder in order to achieve a more balanced capital structure. In Order No. 26,195 (11/28/18), the Commission mandated that HAWC move closer to an actual 55% debt and 45% equity capital structure prior to its next rate case filing. Further, in Order Nos. 26,218 (2/1/19) and 26,230 (3/29/19), the Commission expressed its expectation that HAWC's shareholder would make "meaningful and appropriate equity infusions" in order to move the Company towards the balanced capital structure mandated in Order No. 26,195. In light of the anticipated capital structure after Phase I of 64% debt and 36% equity calculated on Schedule SPS-3 of Exhibit 4, please indicate what further equity infusions the Commission may expect to see made by the shareholder prior to the filing of the Company's next rate case.

Response 1-11

On 3/26/19 HAWC sent a letter to the PUC for docket DW 18-138 stating HAWC's shareholder committing a total of \$750,000 as paid in capital over the next 3 years.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019
Staff 1-12
Date of Response: 10/28/2019
Witness: Stephen St. Cyr

Staff 1-12

Mr. St. Cyr's Testimony on Page 10, Lines 1-2 states, "... HAWC's payments of the MSDC fees are being treated as "wells" and being recovered [over] 30 years." Please explain why the MSDC fees should not be recorded as a Deferred Asset and amortized over the period of the MSDC Agreement (until 12/31/58) included as Attachment C to Exhibit 8.

Response 1-12

Response: HAWC did consider recording the MSDC as a Deferred Asset. As long as the Deferred Asset is reflected in rate base, then either way is probably okay with HAWC. HAWC did consider various depreciation / amortization periods including shorter ones associated with certain commitments for certain periods of time. In the end, it decided that 30 years was appropriate since it was treating the MSDC fees as source of water similar to wells.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|------------------------------|
| Staff 1-13 | Witness: Stephen St. Cyr |

Staff 1-13

The Major Assumptions page of Exhibit 4 indicates that the anticipated CIAC Tax is calculated as follows: $\$3,283,750 \times 27.24\% = \$894,494$. However, based on the formula contained in the Company's CIAC Tax tariff amendment docket, DW 19-136, it appears the calculated CIAC Tax should be \$1,229,375 (($\$3,283,750 \div (1-0.2724)$) - \$3,283,750). Please explain.

Response 1-13

The CIAC Tax should be \$1,229,375 as per the CIAC tariff amendment docket.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019
Staff 1-14
Date of Response: 10/28/2019
Witness: Stephen St. Cyr

Staff 1-14

The Revenue Requirement calculation contained on Schedule SPS-5 of Exhibit 4 does not appear to reflect any allocation to the Town of Plaistow for a portion of the additional investment and O&M Expenses related to Phase I. Please explain.

Response 1-14

The primary purposes of SPS-5 is to calculate the additional revenue requirement in order to demonstrate that the Company will have the cash resources to pay the loans. Some portion of the additional investment and related O&M expenses will be factored into the amount that HAWC charges the Town of Plaistow and such amount will reduce the additional revenue requirement.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING

ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|------------------------------|
| Staff 1-15 | Witness: Stephen St. Cyr |

Staff 1-15

Regarding the Weighted Average Cost of Capital calculation on Schedule SPS-6 of Exhibit 4:

- a) Please provide the calculations for the respective interest expense amounts included on this schedule, i.e., State of NH \$26,312 and Bank Loan \$19,359.
- b) Please provide the calculations for the respective amortization of finance cost amounts included on this schedule, i.e., State of NH \$250 and Bank Loan \$165.

Response 1-15

- a) See attached page 1 of loan amortization schedules for State of NH and bank loans.
- b) It appears as though the Company underestimated the amortization of the finance costs amounts. The amortization should be as follows:

\$10,000 x .695% = \$6,950 / 25 years = \$278 \$10,000 x .305% = \$3,050 + \$5,000 = \$8,050 / 20 years = \$402.50.

Loan Amortization Schedule

| | Enter values |
|-----------------------------|---------------|
| Loan amount | \$ 894,494.00 |
| Annual interest rate | - :- 2.97.*% |
| Loan period in years | 25 |
| Number of payments per year | 12 |
| Start date of loan | |
| Optional extra payments | |

| | Loan summary |
|------------------------------|------------------|
| Scheduled payment | \$ 4,227.85 |
| Scheduled number of payments | 300 |
| Actual number of payments | 300 |
| Total early payments | \$ - |
| Total interest | 373,860.28 |

Lender name: DGTF loan for CIAC Tax

| | | | | | | | | | | | | | | <u></u> | |) | |
|-------------|--------------|----------|------------|-----|---------------------|-------|---------|------|------------|----|------------|----------------|------------|-------------|-------------|-----|-------------------|
| Pmt. No. | Payment Date | Beginni | ng Balance | | cheduled Payment | Extra | Payment | Tota | al Payment | | Principal | | Interest | Endi | ing Balance | Cur | nulative Interest |
| | 2/1/2021 | <u> </u> | 894,494.00 | S | 4,227.85 | \$ | - | \$ | 4,227.85 | 5 | 2,013.97 | \$ | / 2,213.87 | \$ / | 892,480.03 | \$ | 2,213.87 |
| 2 | 3/1/2021 | | • | Š | 4,227.85 | \$ | | \$ | 4,227.85 | \$ | 2,018.96 | \$ | / 2,208.89 | \$ | 890,461.07 | \$ | 4,422.76 |
| 2 | 4/1/2021 | Š | 890,461.07 | Š | 4,227.85 | \$ | - | \$ | 4,227.85 | 5 | 2,023.96 | \$/ | 2,203.89 | \$ | 888,437.11 | \$ | 6,626.65 |
| ., A | 5/1/2021 | | - | \$ | 4,227.85 | \$ | - | \$ | 4,227.85 | \$ | 2,028.97 | s/ | 2,198.88 | S | 886,408.14 | \$ | 8,825.53 |
| 5 | 6/1/2021 | | 886,408.14 | | 4,227.85 | S | - | 5 | 4,227.85 | \$ | 2,033.99\ | اگر | 2,193.86 | \$ | 884,374.16 | \$ | 11,019.39 |
| 6 | 7/1/2021 | | 884,374.16 | | 4,227.85 | Ş | | \$ | 4,227.85 | \$ | 2,039.02 | Y _S | 2,188.83 | \t <u>5</u> | 882,335.13 | \$ | 13,208.22 |
| 7 | 8/1/2021 | | 882,335.13 | | 4,227.85 | \$ | | \$ | 4,227.85 | \$ | 2,044.07 | \$ | 2,183.78 | \$ | 880,291.07 | \$ | 15,392.00 |
| 8 | 9/1/2021 | | 880,291.07 | | 4,227.85 | 5 | | \$ | 4,227.85 | \$ | 2,049.13 | \$ | 2,178.72 | \$ | 878,241.94 | \$ | 17,570.72 |
| 9 | 10/1/2021 | | 878,241.94 | | 4,227.85 | | - | s | 4,227.85 | S | 2,054.20 | \$ | 2,173.65 | \$ | 876,187.74 | \$ | 19,744.37 |
| 10 | 11/1/2021 | | 876,187.74 | | 4,227.85 | | | \$ | 4,227.85 | \$ | 2,059.28 | 5 | 2,168.56 | \$\ | 874,128.46 | \$ | 21,912.93 |
| 17 | 12/1/2021 | | - | \$ | 4.227.85 | | _ | \$ | 4,227.85 | s | 2,064.38 | \$ | 2,163.47 | \$ \ | | \$ | 24,076.40 |
| 12 | 1/1/2022 | | | \$ | 4,227.85 | | - | S | 4,227.85 | \$ | 2,069.49 | 5) | 2,158.36 | \$/ | 869,994.59 | \$ | 26,234.76 |
| 13 | 2/1/2022 | | 869,994.59 | | 4,227.85 | | | \$ | 4,227.85 | S | 2,074.61 | \$ | 2,153.24 | \$ | 867,919.98 | S | 28,388.00 |
| 14 | 3/1/2022 | | , | Ş | 4,227.85 | | _ | S | 4,227.85 | \$ | 2,079.75 | \$ | 2,148.10 | \$ | 865,840.23 | \$ | 30,536.10 |
| 15 | 4/1/2022 | | | 5 | 4,227.85 | | - | \$ | 4,227.85 | \$ | 2,084.89 | S | 2,142.95 | Ş | 863,755.34 | 5 | 32,679.05 |
| 16 | 5/1/2022 | | 863,755.34 | | 4,227.85 | | - | S | | | | \$ | 2,137.79 | \$ | 861,665.29 | \$ | 34,816.85 |
| 17 | 6/1/2022 | | 861,665.29 | | 4,227.85 | | - | \$ | | | 2,095.23 | \$ | 2,132.62 | \$ | 859,570.06 | \$ | 36,949.47 |
| | 7/1/2022 | | 859,570.06 | | 4,227.85 | | - | \$ | 4,227.85 | \$ | 2,100.41 | \$ | 2,127.44 | \$ | 857,469.65 | \$ | 39,076.90 |
| 18 | 8/1/2022 | | 857,469.65 | | 4,227.85 | | _ | S | 4,227.85 | | | \$ | 2,122.24 | s | 855,364.04 | \$ | 41,199.14 |
| 19 | 9/1/2022 | | 855,364.04 | | 4,227.85 | | _ | s | • | | | \$ | 2,117.03 | S | 853,253.22 | \$ | 43,316.17 |
| 20 | , , | | 853,253.22 | | 4,227.85 | | _ | 5 | • | | 2,116.05 | \$ | 2,111.80 | \$ | 851,137.17 | S | 45,427.97 |
| 21 | 10/1/2022 | | 851,137.17 | | 4,227.85 | | _ | Š | 4,227.85 | | | | 2,106.56 | \$ | 849,015.89 | S | 47,534.53 |
| 22 | 11/1/2022 | | 849,015.89 | | 4,227.85 | | _ | Š | | | | | 2,101.31 | S | 846,889.35 | \$ | 49,635.85 |
| 23 | 12/1/2022 | | 846,889.35 | | 4,227.85 | | | Š | 4,227.85 | | · · | | 2,096.05 | \$ | 844,757.56 | \$ | 51,731.90 |
| 24 | 1/1/2023 | | 844,757.56 | | 4,227.85 | | | \$ | 4,227.85 | | | | 2,090.77 | S | 842,620.49 | \$ | 53,822.67 |
| 25 | 2/1/2023 | | 842,620.49 | | 4,227.85 | | _ | s | 4,227.85 | | | | 2,085.49 | \$ | 840,478.12 | 5 | 55,908.16 |
| 26 | 3/1/2023 | | 840,478.12 | | 4,227.85 | | _ | s | 4,227.85 | | | | 2,080.18 | \$ | 838,330.46 | \$ | 57,988.34 |
| 27 | 4/1/2023 | | 838,330.46 | | 4,227.85 | | | Ś | 4,227.85 | | | | 2,074.87 | | 836,177.48 | \$ | 60,063.21 |
| 28 | 5/1/202 | | 836,177.48 | | 4,227.85 | | _ | \$ | 4,227.85 | | | | 2,069.54 | | 834,019.17 | \$ | 62,132.75 |
| 29 | 6/1/202 | | 834,019.17 | | 4,227.85 | | _ | S | 4,227.85 | | | | 2,064.20 | | 831,855.52 | \$ | 64,196.95 |
| 30 | 7/1/202 | | 831,855.52 | | 4,227.8 | | _ | \$ | 4,227.85 | | | | 2,058.84 | | 829,686.52 | \$ | 66,255.79 |
| 31 | 8/1/202 | | 829,686.52 | | 4,227.8 | | - | \$ | 4,227.85 | | | | 2,053.47 | | 827,512.14 | \$ | 68,309.26 |
| 32 | 9/1/202 | | | | 4,227.8 | | = | S | 4,227.85 | | | | 2,048.09 | | 825,332.39 | \$ | 70,357.36 |
| 33 | 10/1/202 | 5 \$ | 827,512.14 | t a | 4,227.0 |) \$ | - | ې | 4,44,300 | | _,_,,,,,,, | 7 | _,, | • | | | |

X = 1 = 1 = 1 = 1

Loan Amortization Schedule

| I. | Enter values |
|----|----------------------------------|
| | Loan amount \$ 392,500:00 |
| | Annual interest rate 5.00 % |
| | Loan period in years 20 30 25 20 |
| i | Number of payments per year 12 |
| Į. | Start date of loan 1/1/2021 |
| | Optional extra payments |

| | Loan summary |
|------------------------------|------------------|
| Scheduled payment | \$ 2,590.33 |
| Scheduled number of payments | 240 |
| Actual number of payments | 240 |
| Total early payments | \$ - |
| Total interest | 229,178.31 |

Bak rss Fan Lender name: DGIF Loan for CIAC Tax

| Pmt. No. | Payment Date | Ве | eginning Balance | | Scheduled Payment | Extra | a Payment | Tota | al Payment | | Principal | | Interest | E | inding Balance | Cı | ımulative Interest |
|-------------|--------------|----|------------------|----|----------------------|-------|-----------|------|------------|----|-----------|----|------------|-----------|----------------|----|--------------------|
| 1 | 2/1/2021 | \$ | 392,500.00 | \$ | 2,590.33 | S | - | \$ | 2,590.33 | \$ | 954.91 | \$ | /1,635.42 | S | 391,545.09 | \$ | 1,635.42 |
| 2 | 3/1/2021 | \$ | 391,545.09 | \$ | 2,590.33 | \$ | + | S | 2,590.33 | S | 958.89 | s | / 1,631.44 | s / | 390,586.20 | \$ | 3,266.85 |
| 3 | 4/1/2021 | \$ | 390,586.20 | S | 2,590.33 | \$ | - | \$ | 2,590.33 | S | 962.88 | \$ | / 1,627.44 | \$/ | 389,623.32 | \$ | 4,894.30 |
| 4 | 5/1/2021 | s | 389,623.32 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 966.90 | S | 1,623.43 | \$/ | 388,656.42 | \$ | 6,517.73 |
| 5 | 6/1/2021 | \$ | 388,656.42 | \$ | 2,590.33 | S | | \$ | 2,590.33 | \$ | 970.92 | \$ | 1,619.40 | <i>\$</i> | 387,685.50 | \$ | 8,137.13 |
| 6 | 7/1/2021 | \$ | 387,685.50 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 974.97 | \s | 1,615.36 | /s | 386,710.53 | \$ | 9,752.49 |
| 7 | 8/1/2021 | \$ | 386,710.53 | S | 2,590.33 | \$ | | \$ | 2,590.33 | \$ | 979.03 | \$ | 1,611.29 | \$ | 385,731.50 | \$ | 11,363.78 |
| 8 | 9/1/2021 | S | 385,731.50 | \$ | 2,590.33 | S | * | \$ | 2,590.33 | \$ | 983.11 | s | 1,607.21 | \$ | 384,748.38 | \$ | 12,970.99 |
| 9 | 10/1/2021 | \$ | 384,748.38 | \$ | 2,590.33 | 5 | - | \$ | 2,590.33 | \$ | 987.21 | \$ | 1,603.12 | \$ | 383,761.18 | \$ | 14,574.11 |
| 10 | 11/1/2021 | \$ | 383,761.18 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 991.32 | \$ | 1,599.00 | \\$ | 382,769.85 | \$ | 16,173.12 |
| 11 | 12/1/2021 | \$ | 382,769.85 | 5 | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 995.45 | \$ | 1,594.87 | \$ | 381,774.40 | \$ | 17,767.99 |
| 12 | 1/1/2022 | s | 381,774.40 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 999.60 | \$ | 1,590.73 | þs | 380,774.80 | \$ | 19,358.72 |
| 13 | 2/1/2022 | Š | 380,774.80 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 1,003.76 | S | 1,586.56 | 15 | 379,771.04 | \$ | 20,945.28 |
| 14 | 3/1/2022 | \$ | 379,771.04 | \$ | 2,590.33 | \$ | - | S | 2,590.33 | \$ | 1,007.95 | 5 | 1,582.38 | \$ | 378,763.09 | \$ | 22,527.66 |
| 15 | 4/1/2022 | S | 378,763.09 | \$ | 2,590.33 | \$ | * | \$ | 2,590.33 | Ş | 1,012.15 | \$ | 1,578.18 | \$ | 377,750.94 | S | 24,105.84 |
| 16 | 5/1/2022 | \$ | 377,750.94 | \$ | 2,590.33 | S | - | \$ | 2,590.33 | \$ | 1,016.36 | \$ | 1,573.96 | \$ | 376,734.58 | \$ | 25,679.80 |
| 17 | 6/1/2022 | \$ | 376,734.58 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | \$ | 1,020.60 | \$ | 1,569.73 | \$ | 375,713.98 | \$ | 27,249.53 |
| 18 | 7/1/2022 | \$ | 375,713.98 | \$ | 2,590.33 | \$ | | \$ | 2,590.33 | \$ | 1,024.85 | \$ | 1,565.47 | \$ | 374,689.13 | \$ | 28,815.00 |
| 19 | 8/1/2022 | | 374,689.13 | \$ | 2,590.33 | \$ | - | \$ | 2,590.33 | S | 1,029.12 | \$ | 1,561.20 | \$ | 373,660.01 | S | 30,376.21 |
| 20 | 9/1/2022 | | 373,660.01 | | 2,590.33 | | _ | \$ | 2,590.33 | \$ | 1,033.41 | \$ | 1,556.92 | \$ | 372,626.60 | \$ | 31,933.12 |
| 21 | 10/1/2022 | | 372,626.60 | \$ | 2,590.33 | | _ | \$ | 2,590.33 | 5 | 1,037.72 | \$ | 1,552.61 | \$ | 371,588.88 | \$ | 33,485.74 |
| 22 | 11/1/2022 | | 371,588.88 | | 2,590.33 | | | \$ | 2,590.33 | Ş | | | 1,548.29 | \$ | 370,546.84 | \$ | 35,034.02 |
| 23 | 12/1/2022 | | 370,546.84 | | 2,590.33 | | | S | 2,590.33 | \$ | 1,046.38 | \$ | 1,543.95 | \$ | 369,500.46 | \$ | 36,577.97 |
| 24 | 1/1/2023 | | 369,500.46 | | 2,590.33 | | _ | s | 2,590.33 | | | | 1,539.59 | \$ | 368,449.72 | \$ | 38,117.55 |
| 25 | 2/1/2023 | | 368,449.72 | | 2,590.33 | | | S | 2,590.33 | | - | | 1,535.21 | \$ | 367,394.60 | \$ | 39,652.76 |
| 26 | 3/1/2023 | | 367,394.60 | | 2,590.33 | | _ | S | 2,590.33 | | | 5 | 1,530.81 | \$ | 366,335.09 | \$ | 41,183.57 |
| 27 | 4/1/2023 | | 366,335.09 | | 2,590.33 | | _ | s | 2,590.33 | | | | 1,526.40 | \$ | 365,271.16 | \$ | 42,709.97 |
| 28 | 5/1/2023 | | 365,271.16 | | 2,590.33 | | - | \$ | 2,590.33 | \$ | 1,068.36 | \$ | 1,521.96 | \$ | 364,202.79 | \$ | 44,231.93 |
| 29 | 6/1/2023 | | 364,202.79 | | 2,590.33 | | _ | 5 | 2,590.33 | \$ | 1,072.81 | \$ | 1,517.51 | \$ | 363,129.98 | \$ | 45,749.44 |
| 30 | 7/1/2023 | | 363,129.98 | | 2,590.33 | | _ | S | 2,590.33 | \$ | | | 1,513.04 | \$ | 362,052.70 | \$ | 47,262.48 |
| 31 | 8/1/2023 | | 362,052.70 | | 2,590.33 | | - | s | 2,590.33 | \$ | 1,081.77 | 5 | 1,508.55 | \$ | 360,970.92 | \$ | 48,771.04 |
| 32 | 9/1/2023 | | 360,970.92 | | 2,590.33 | | _ | \$ | 2,590.33 | 5 | 1,086.28 | \$ | 1,504.05 | \$ | 359,884.64 | \$ | 50,275.08 |
| 33 | 10/1/2023 | | 359,884.64 | 5 | 2,590.33 | | _ | ş | 2,590.33 | S | 1,090.81 | \$ | 1,499.52 | \$ | 358,793.83 | \$ | 51,774.60 |
| | , , = | | | | | | | | | | | | | | | | |

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HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-16

Date of Response: 10/28/2019

Witness: John Sullivan

Staff 1-16

Schedule SPS-12 of Exhibit 4 includes a \$6,000 estimate for costs incurred by Lewis Builders Development. Please provide further explanation regarding the nature of these anticipated costs.

Response 1-16

These costs include the time of Charlie Lanza, Anthony Augeri, John Sullivan and other related staff members to prepare this petition, attend hearings, answer data requests, etc.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-17

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-17

Mr. Morse's Testimony on Page 2, Line 8 states that the MSDC is "levied by NHDES." Please provide further explanation as to why the MSDC applicable to HAWC is being levied by NHDES instead of Manchester Water Works directly.

Response 1-17

This was incorrectly stated. The MSDC is levied by Manchester Water Works per the Southern NH Interconnect Agreement.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-18

Date of Response: 10/28/2019

Witness: Charles Lanza and John
Sullivan

Staff 1-18

Mr. Morse's Testimony on Page 2, Lines 10-12 states, "The Company seeks expedited approval of this Petition in order to qualify for low-interest financing which is available for a limited time period." However, the letter dated 8/16/19 from the DWGTF Commission provided as Exhibit 1 states, "... the loan is not a time critical item and will require approval by the Public Utilities Commission ..."

- a) Please indicate the approximate timeframe for when a Commission order needs to be issued relative to the proposed financings.
- b) Please explain the process and remaining approvals that need to be obtained before the Company can close on the proposed DWGTF financing relative to the CIAC Tax.
- c) Please explain the remaining process in order for the Company close on the Bank financing relative to the MSDC.

- a) Please see NHDES's following response "The statement in the letter was letting the award recipient know that NHDES set a deadline of August 22, 2019 for the Final Grant Application in order to move quickly getting the grant approved by the Governor and Executive Council in order to proceed with bidding and construction of the project. The loan was not "critical" at that moment to the grant approval process or to meeting the project's construction schedule. NHDES anticipated processing the grant and loan separately because the loan needed to go through the PUC approval process, and we wanted to make that clear in the letter. This is not a contradiction to Mr. Morse's testimony and only applies to NHDES' internal processing".
- b) Following PUC approval, the applicant will need to submit a Final Loan Application, and NHDES will process it as they do all other loan agreements that must be approved by the Governor and Executive Council.
- c) In order for the bank to provide firm terms on the loan, the bank needs us to provide them with a solid timetable as to when we will be receiving PUC approval.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-19

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-19

Mr. Morse's Testimony on Page 2, Lines 19-20 states, regarding the DWGTF loan, "The payment of principal and interest based on a 25-year amortization will be due monthly beginning 30 days from the date of closing." Please provide documentation from NHDES in support of these terms.

Response 1-19

The original loan agreement will include a scheduled completion date and indicate when repayment will begin. In accordance with Administrative Rules for the DWGTF, Administrative Procedures for Grants and Loans From the Drinking Water and Groundwater Trust Fund, Env-Dw 1300 (effective October 23, 2019), Sections Env-Dw 1304.12(c)(3)(a) and 1304.12(c)(3)(b), interest repayments begin 6 months after the scheduled completion date or substantial completion date, and principal and interest repayments will begin one year after the scheduled completion date or substantial completion date or substantial completion date, whichever is earlier.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-20

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-20

Please provide correspondence from NHDES that specifically addresses the following:

- a) A description of the benefits to HAWC's existing customers that will result from HAWC's overall participation in the Southern NH Regional Water Initiative (SNHRWI) project as well as from the specific completion of Phase I of that project.
- b) An explanation as to why HAWC's participation in the SNHRWI project is crucial to the overall success of the project. (See Petition, Page 4, Paragraph 14)

- a) See attached.
- b) See attached.



The State of New Hampshire **Department of Environmental Services**



Robert R. Scott, Commissioner

October 25, 2019

Debra A. Howland, Executive Director New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, NH 03301

Re: DW-19-147 Hampstead Area Water Company Southern New Hampshire Regional Water Project

Dear Ms. Howland:

The New Hampshire Department of Environmental Services (NHDES) is writing this letter of support for the Hampstead Area Water Company's (HAWC) Petition for approval of financing for costs directly related to and necessitated by the Southern New Hampshire Regional Water Project.

The Southern New Hampshire Regional Water Project (SNHRWP) seeks to use Manchester Water Works as a supplemental source of supply for water systems serving the Towns of Windham, Salem, Atkinson, Hampstead and Plaistow. HAWC water users and rate payers will realize the following benefits as a result of the additional supply capacity provided by the SNHRWP.

- 1. Increased reliability of water supply. Some existing wells are experiencing declining yields.
- 2. Improved water quality by allowing HAWC to prioritize higher quality wells. Some wells have experienced increasing concentrations of regulated contaminants such as arsenic, radium, and alpha particles. HAWC will be able to serve a safer product to customers by taking their lowest quality wells offline and blending in regional water.
- 3. Reduction in system complexity by allowing HAWC to take up to ten of its existing 19 wells offline.
- 4. Ability to expand to address contamination and/or loss of water in private wells.

HAWC's participation in the SNHRWP is critical because the regional water supply must be wheeled through the HAWC water system in order to serve the Town of Plaistow. The Town of Plaistow has no alternative source of water supply.

Please note that the New Hampshire Drinking Water and Ground Water Trust Fund (the Trust Fund) is providing a grant for HAWC's construction costs necessitated by and solely related to the SNHRWP. In addition, costs HAWC will incur as a result of the SNHRWP, including but not limited to, operation and maintenance, bulk water purchase and tax liabilities will be offset in part by wholesale water sales to the Town of Plaistow. In view of the foregoing, NHDES believes that

www.des.nh.gov

Debra A. Howland October 25, 2019 Page 2

HAWC's Petition is in the best interests of its customers as it will enable the company to continue to provide safe and reliable service at just and reasonable rates, and to play a critical role in the SNHRWP.

In summary, NHDES supports HAWC's request for financing for costs directly related to and necessitated by the Southern New Hampshire Regional Water Project.

Sincerely,

Robert R. Scott

cc: Charlie Lanza, General Manager, HAWC

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-21

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-21

The Cover Letter to the Cost of Service Study (COSS) (Exhibit 7) states that Raftelis also was engaged to, "Calculate a cost justified volumetric rate that Salem can assess [HAWC] for providing wholesale water wheeling services." Please provide a copy of that report.

Response 1-21

We have requested the information sought in this request from Raftelis and will forward any response as soon as it is received.



100 International Drive, Suite 152, Portsmouth, NH 03801 Tel: 603.431.3937

November 30, 2018

Michael Unger, P.E. Water Engineer, Drinking Water and Groundwater Trust Fund Drinking Water and Groundwater Bureau | NHDES 29 Hazen Drive Concord, NH 03302

Re:

Southern NH Regional Water Main Initiative (SNHRWI)

Cost of Service Study - HAWC

Dear Mike:

We are pleased to submit this report to the New Hampshire Department of Environmental Services (DES) for the Cost of Service Study (COSS) performed for the Hampstead Area Water Company (HAWC) on behalf the SNHRWI project. The proposed SNHRWI project includes the potential connection of water systems maintained by Manchester Water Works (MWW), HAWC, and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

DES initiated the COSS to determine the cost to each community for supplying water to adjacent communities as part of the SNHRWI project. The existing water system operations for HAWC were examined to determine how and why costs are incurred. Developing this understanding allowed for a proper allocation of future costs to HAWC to distribute water to adjacent communities.

Per our work scope and budget dated August 17, 2018 we have completed the draft COSS for HAWC with the assistance of Raftelis Financial Consultants. We wish to acknowledge the assistance of DES and HAWC staff with gathering background information for the project. The cooperation was essential to the completion of the report and is sincerely appreciated.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.

Jeffrey W. McClure, P.E.

Senior Associate

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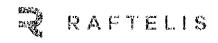
SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study – Hampstead Area Water Company

Draft Report / November 30, 2018







November 30, 2018

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth, NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study - Hampstead Area Water Company

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Draft Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute
 costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one
 community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for HAWC. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox

Manager

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1. OBJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Hampstead Area Water Company (HAWC) portion of the SNHRWI.

The charges to be calculated through this study include developing a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers:
- A rate of return applied to the utility's investment in these assets; and
- * A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Salem, of approximately 250,000 gallons per day, will be assessed at a rate of \$3.09 per one hundred cubic feet (Ccf), which is draft and contingent on the finalizing of our similar report to Salem which presented the calculation of wholesale rates for HAWC as well as the Town of Windham. Table 1 presents the test year full cost components for HAWC. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| Extragal and the control of the second secon | |
|--|-----------------|
| Source of Supply | 399,702 |
| Pumping Expenses | 284,516 |
| Water Treatment Expenses | 170,729 |
| Transmission and Distribution Expense | 83,991 |
| Customer Accounts Expense | 113,121 |
| Administrative and General Expenses | 504,818 |
| MSDC Charges | 64,070 |
| Additional Support | 55,000 |
| Chloramine Conversion (for 20 stations) | 66,367 |
| Shannon Road Booster Station | 11,593 |
| Rate of Return | 453,727 |
| Taxes Other Than Income | 67,002 |
| Income Taxes | 131,581 |
| CIAC | (84,376) |
| Depreciation | 185,088 |
| | 有数数据多数数数 |

Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with HAWC staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| Source of Supply | \$ 397,703 | \$ 1,999 | \$ | - |
|---|---------------|-------------|----|----------|
| Pumping Expenses | 283,093 | 1,423 | · | - |
| Water Treatment Expenses | 169,875 | 854 | | - |
| Transmission and Distribution Expense | 34,113 | 2,252 | | 47,626 |
| Customer Accounts Expense | - | - | | 113,121 |
| Administrative and General Expenses | 424,553 | 3,132 | | 77,133 |
| MSDC Charges | 63,750 | 320 | | - |
| Additional Support | 46,255 | 341 | | 8,404 |
| Chloramine Conversion (for 20 stations) | 55,815 | 412 | | 10,140 |
| Shannon Road Booster Station | 9,750 | 72 | | 1,771 |
| Rate of Return | 350,564 | 5,802 | | 97,361 |
| Taxes Other Than Income | 123,361 | 2,042 | | 34,261 |
| Income Taxes | 101,664 | 1,682 | | 28,235 |
| CIAC | (165,169) | (2,733) | | (45,872) |
| Depreciation | 386,679 | 6,399 | | 107,392 |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from HAWC's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| Source of Supply | \$ 10,226 | \$ 12,499 | \$ 374,978 | \$ |
|---|--------------|---------------------|---------------|--------|
| Pumping Expenses | 127,392 | 155,701 | - | |
| Vater Treatment Expenses | - | - | - | 169,87 |
| ransmission and Distribution Expense | 21,668 | 12,445 | - | |
| Customer Accounts Expense | - | - | - | |
| Administrative and General Expenses | 132,649 | 150,436 | - | 141,46 |
| 1SDC Charges | - | - | 63,750 | |
| Additional Support | 20,815 | 25, 44 0 | - | |
| Chloramine Conversion (for 20 stations) | 25,117 | 30,698 | - | |
| hannon Road Booster Station | 4,388 | 5,363 | - | |
| tate of Return | 190,404 | 140,282 | - | 19,87 |
| axes Other Than Income | 67,002 | 49,364 | - | 6,99 |
| ncome Taxes | 55,217 | 40,682 | - | 5,70 |
| IAC | (89,709) | (66,094) | - | (9,36 |
| Depreciation | 210,019 | 154,734 | - | 21,92 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for HAWC's calculated non-operating expenses such as its depreciation and rate of return.

The following table (Table 4) presents the final rate calculation that HAWC could assess the Town of Plaistow.

Table 4: Calculation of Wholesale Rate (per Ccf)

| Cost of Service | |
|------------------------|---------------|
| Operating Expenses | \$ 221,019 |
| Rate of Return | 128,405 |
| Depreciation | 52,380 |
| Other Non-Operating | 32,321 |
| Total: Cost of Service | \$ 434,125 |
| Estimated Flow (Ccf) | 121,992 |
| | |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| erations and Maintenance Expense | | | Functional | General | unctional Categori | |
|---|--------|---|--|---|--|--|
| Source of Supply | | | Category | General <u>Water</u> | Fire <u>Service</u> | Custom Service |
| Operations | | | | | | |
| Operation Supervision and Engineering | \$ | - | General Water | 99.5% | 0.5% | 0.0% |
| Operation Labor and Expenses | | 4,832 | General Water | 99.5% | 0.5% | 0.0% |
| Purchased Water | | 376,863 | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | 23 | General Water | 99.5% | 0.5% | 0.0% |
| Rents | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ | 1,677 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Structures and Improvements | | 4,647 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Collecting and Impounding Reservoirs | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Lake, River, and Other Intakes | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Wells and Springs | | 11,660 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Infiltration Galleries and Tunnels | | | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Supply Mains | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Miscellaneous Water Source Plant | | - | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Source of Supply | \$ | 399,702 | | \$ 397,703 | \$ 1,999 | |
| umping Expenses Operations | | | | | | |
| | | í | Control III | 7 62 52 | | |
| Operation Supervision and Engineering | \$ | - | General Water | 99.5% | 0.5% | 0.0% |
| Fuel for Power Production | | - | General Water | 99.5% | 0.5% | 0.0% |
| Power Production Labor and Expenses | | - | General Water | 99.5% | 0.5% | 0.0% |
| Fuel or Power Purchased for Pumping | | 177,913 | General Water | 99.5% | 0.5% | 0.0% |
| Pumping Labor and Expenses | | 23,050 | General Water | 99.5% | 0.5% | 0.0% |
| Expenses Transferred-Credit | | | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | 16,254 | General Water | 99.5% | 0.5% | 0.0% |
| Rents | | 10,254 | General Water | 99.5% | 0.5% | 0.0% |
| Maintanana | | , | | J (| 1 | 2.270 |
| Maintenance Maintenance Supervision and Engineering | \$ | . 1 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Structures and Improvements | • | 31,112 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Power Production Equipment | | 31,112 | General Water | 99.5% | 0.5% | |
| Maintenance of Pumping Equipment | | 36,187 | General Water | 99.5% | 0.5% | 0.0% |
| ubtotal: Pumping Expenses | \$ | 284,516 | · | \$ 283,093 | <u></u> | · |
| | • | ,, | | -10,050 | 7 27.25 | * |
| Vater Treatment Expenses Operations | | | | | | |
| Operation Supervision and Engineering | * | ſ | Canada Walan | 00.50/ | 0.50 | 0.00/ |
| | \$ | | General Water | 99.5% | 0.5% | 0.0% |
| Chemicals | | | G | 1 99.5% | | |
| | | 10,961 | General Water | | 0.5% | 0.0% |
| Operation Labor and Expenses | | 10,961 149,034 | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | | General Water General Water | 99.5% 99.5% | 0.5% 0.5% | 0.0% 0.0% |
| | | | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses Rents Maintenance | | | General Water General Water General Water | 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering | \$ | | General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements | \$ | 149,034 | General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment | | 149,034 | General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment | \$ | 149,034 | General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense | | 149,034 | General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses cansmission and Distribution Expense Operations | \$ | 149,034 | General Water General Water General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% \$ 854 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses cansmission and Distribution Expense Operations Operations Operation Supervision and Engineering | | 149,034 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 2.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses | \$ | 149,034 10,734 170,729 | General Water T&D Supervision General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% \$ 854 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Cansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses | \$ | 149,034 10,734 170,729 | General Water T&D Supervision General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses tansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses | \$ | 149,034 - 10,734 170,729 13,300 16,564 | General Water T&D Supervision General Water General Water Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 100.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operations Operations Operations and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 | General Water T&D Supervision General Water General Water Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 100.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Miscellaneous Expenses | \$ | 149,034 - 10,734 170,729 13,300 16,564 | General Water T&D Supervision General Water General Water Customer Service General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 99.5% 0.0% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 100.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 | General Water T&D Supervision General Water General Water Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 0.0% 100.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses cansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 | General Water T&D Supervision General Water General Water General Water Customer Service Customer Service General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 0.0% 100.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 | General Water T&D Supervision General Water General Water Customer Service General Water General Water General Water T&D Supervision | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Stansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water T&D Supervision General Water Customer Service Customer Service General Water General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% 99.5% 40.6% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 100.0% 100.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses transmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 | General Water Customer Service General Water General Water General Water General Water Service General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Authoral: Water Treatment Expenses Cansmission and Distribution Expense Operations Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water T&D Supervision General Water Customer Service Customer Service General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% 99.5% 40.6% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 100.0% 100.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses transmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water T&D Supervision General Water General Water Customer Service Customer Service General Water General Water T&D Supervision General Water Storage General Water | 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 \$ 169,875 \$ 0.0% 99.5% 0.0% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operations Operations Operations and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Fire Mains | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 | General Water T&D Supervision General Water General Water General Water Customer Service General Water General Water General Water General Water General Water General Water F&D Supervision General Water Storage General Water Hydrants | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 99.5% 99.5% 99.5% 100.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 23,035 | General Water Customer Service Customer Service General Water Storage General Water Hydrants Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% 99.5% 100.0% 99.5% 100.0% 99.5% 0.5% 0.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 100.0% 100.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses tansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services Maintenance of Meters | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 - 23,035 6,799 | General Water Customer Service General Water General Water General Water T&D Supervision General Water T&D Supervision General Water Storage General Water Hydrants Customer Service Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 \$ 169,875 0.0% 99.5% 0.0% 99.5% 99.5% 100.0% 99.5% 100.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses Cansmission and Distribution Expense Operations Operations Operations Operations Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance of Structures and Improvements Maintenance of Stribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Hydrants | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 23,035 | General Water Customer Service General Water General Water General Water Storage General Water Storage General Water Storage General Water Hydrants Customer Service Customer Service Gustomer Service Hydrants | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 0.0% 0.0% 99.5% 100.0% 99.5% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Stransmission and Distribution Expense Operations Operations Operations Operations Operations Operations Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services Maintenance of Services Maintenance of Meters | \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 - 23,035 6,799 | General Water Customer Service General Water General Water General Water T&D Supervision General Water T&D Supervision General Water Storage General Water Hydrants Customer Service Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 \$ 169,875 0.0% 99.5% 0.0% 99.5% 99.5% 100.0% 99.5% 100.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% |

| Supervision | Customer Accounts Expense Operations | | | | | | | | | |
|---|---|---------------------------------------|--|---|--|-------------------------|--|--------------|--------------|--------------|
| Medic Reading Exponses | · | • | _ | Customer Sendon | 7 [| 0.00% | | 0.00/ | 1 | 100.0% |
| Customer Records and Calmetton Exponence 10,314 Customer Service 10,076 0,096 100 | | • | 12 797 | | | | + | | | |
| Customer Service S | | | | | $\dashv \vdash$ | | + | | | 100.0% |
| Miscolamous Customer Accounts Expenses Customer Service 0.0% | | | 100,554 | | | | | | ├ | |
| Substitution Subs | | | | | ┥┝╌ | | | | - | 100.0% |
| Saltes Exponses Substantial Exponses Su | • | | 112 131 | Customer Service | ┦┖╼ | | | | ٠. | 100.0% |
| Sales Expenses S | | * | 113,121 | | \$ | - | \$ | • | \$ | 113,17 |
| Subtotal: Sales Expenses \$ \$ \$ \$ \$ \$ \$ \$ \$ | | | | | | | | | | |
| Subtotal: Solve Expenses \$ \$ \$ \$ \$ \$ \$ \$ \$ | Safes Expenses | \$ | _ | General Water | 7 (| 99 5% | Т | 0.5% | т | 0.0% |
| Administrative and General Salaries | • | \$ | | | _' <u>'</u> \$ | - | \$ | | \$ | 0.070 |
| Administrative and General Salaries | Administrative and General Expenses | | | | · | | • | | • | |
| Administrative and General Salaries | | | | | | | | | | |
| Office Supples and Other Expenses | | | 16 542 | Total O&M | | Q4 104 | 1 | 0.504 | | 15.3% |
| Administrative Expenses Transferred-Cr. Outside Services Employed 29,165 Total OBM 81,1% 0,0% 15. Proporty Insurance 15,731 Total OBM 81,1% 0,0% 15. Insurias and Damages 35,731 Total OBM 91,1% 0,0% 15. Employee Pontsion and Benefits 85,838 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 5,720 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 5,720 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 5,720 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 5,720 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 5,720 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Benefits 1,000 Total OBM 84,1% 0,0% 15. Employee Pentsion and Pentsio | | • | , | | | | - | | | 15.3% |
| Outside Services Employed 259,165 Total OaM 84,1% 0.6% 15. | | | 10,701 | | ┥┝╾ | | + | | | |
| Property Insurance | | | 250 165 | | ┨┢ | | ┿ | | ┼ | 15.3% |
| Injuries and Damages 35,731 Total O6H 84.1% 0.6% 15.5 | | | 239,103 | | | | | | - | 15.3% |
| Employee Pension and Benefits | | | 25 721 | | ┨┝ | | - | | ļ | 15.3% |
| Franchise Requirements | | | | | ┨ ├─ | | <u> </u> | | - | 15.3% |
| Regulatory Commission Expenses 6,408 Total O&M 84.1% 0.6% 15. | | | | | ↓ | | ļ | | _ | 15.3% |
| Duplicate Charges (r. Miscellaneous Expenses 31,550 Total O&M 84,1% 0.6% 15. | | | | | ┦ ┣ | | ļ., | | <u> </u> | 15.3% |
| Miscelaneous Expenses 31,950 Total O&M 84,1% 0,6% 15. | | | 6,408 | | ↓ | | · | | | 15.3% |
| Maintenance 16,900 Total O&M 84,196 0.6% 15. | | | - | | J L. | | 1 | | | 15.3% |
| Maintenance Maintenance of General Plant Subtotal: Administrative and General Expenses \$ 504,818 \$ 424,553 \$ 3,132 \$ | , | | | | J | 84.1% | | 0.6% | | 15.3% |
| Maintenance of General Plant \$ Total O&M 84.1% 0.6% 15. | General Rents | | 16,900 | Total O&M | | 84.1% | | 0.6% | I | 15.3% |
| Subtotal: Administrative and General Expenses \$ 504,818 \$ 424,533 \$ 3,132 \$ | | | | | | | | | | |
| MSDC Charges | | \$ | <u> </u> | Total O&M |] [| 84.1% | <u> </u> | 0.6% | | 15.3% |
| Annual Expense \$ 64,070 General Water 99,5% 0,5% 0,5% 0.5 Subbotal: MSDC Charges \$ 64,070 \$ 63,750 \$ 320 \$ Additional Support FTE to support new water flows and chloramination \$ 55,000 Total O&M \$ 44,1% 0,6% 155. Subtotal: Additional Support Chloramine Conversion (for 20 stations) Chloramine Pump Package System \$ 14,000 Total O&M \$ 41,1% 0,6% 155. Annuncia Analyzer \$ 15,200 Total O&M \$ 41,1% 0,6% 155. Annuncia Cost \$ 5,5900 Total O&M \$ 41,1% 0,6% 155. Annuncia cost \$ 15,200 Total O&M \$ 41,1% 0,6% 155. Annuncia cost \$ 15,200 Total O&M \$ 41,1% 0,6% 155. Annuncia cost \$ 10,537 Total O&M \$ 41,1% 0,6% 155. Pump House Updates \$ 20,000 Total O&M \$ 41,1% 0,6% 155. Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Subtotal: Shannon Road Booster Station \$ 11,593 \$ 70tal O&M \$ 84,1% \$ 0,6% \$ 15.5 \$ Subtotal: Shannon Road Booster Station \$ 11,593 \$ 70tal O&M \$ 84,1% \$ 0,6% \$ 15.5 \$ Subtotal: Contingency \$ 5 | Subtotal: Administrative and General Expenses | \$ | 504,818 | | \$ | 424,553 | \$ | 3,132 | \$ | 77,1 |
| Subtotal: MSDC Charges \$ 64,070 \$ 63,750 \$ 320 \$ | | | | | _ | | | | | |
| Additional Support FTE to support new water flows and Chloramination \$ 55,000 Total O&M 84.1% 0.6% 15.5 | Annual Expense | \$ | 64,070 | General Water |] [| 99.5% | | 0.5% | | 0.0% |
| FTE to support new water flows and chloramination \$ 55,000 Total O&M 84,196 0.6% 15.5 | Subtotal: MSDC Charges | \$ | 64,070 | | 5 | 63,750 | \$ | 320 | \$ | |
| Subtotal: Additional Support \$ 55,000 \$ 46,255 \$ 341 \$ Chloramine Conversion (for 20 stations) Total O&M 841,96 0.6% 15. Chloramine Pump Package System \$ 14,000 Total O&M 84.1% 0.6% 15. Ammonia Analyzer 15,200 Total O&M 84.1% 0.6% 15. Chlorine cost 5,990 Total O&M 84.1% 0.6% 15. Ammonia cost 10,837 Total O&M 84.1% 0.6% 15. Pump House Updates 20,000 Total O&M 84.1% 0.6% 15. Electricity for chemical system only 340 Total O&M 84.1% 0.6% 15. Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 412 \$ Shannon Road Booster Station \$ 3,500 Total O&M 84.1% 0.6% 15. Shannon Road Booster Station \$ 11,593 \$ 700al O&M 84.1% 0.6% 15. Subtotal: Shannon Road Booster Station \$ 11,593 \$ 9,750 | Additional Support | | | | | | | | | |
| Subtotal: Additional Support \$ 55,000 \$ 46,255 \$ 341 \$ | FTE to support new water flows and chloramination | \$ | 55,000 | Total O&M | 7 [- | 84.1% | | 0.6% | | 15.3% |
| Chloramine Pump Package System | Subtotal: Additional Support | \$ | 55,000 | | \$ | 46,255 | \$ | 341 | \$ | 8,40 |
| Ammonia Analyzer Chlorine cost Chlorine cost Chlorine cost Sp999 Total O&M B4.1% O.6% 15. Chlorine cost 10,837 Pump House Updates Electricity for chemical system only Subtotai: Chloramine Conversion (for 20 stations) Subtotai: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Pumps Spannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Spannon Road Booster Station Electricity Spannon Road Booster Station Subtotai: Chloramine Conversion Subtotai: Chloramine Conversion Subtotai: Spannon Road Booster Station Subtotai: Chloramine Conversion Subtotai: Spannon Road Booster Station Subtotai: Spannon Road Booster Spannon Road Booster Spannon Road Booster Spannon R | Chloramine Conversion (for 20 stations) | | | | | | | | | |
| Ammonia Analyzer Chlorine cost Chlorine cost Chlorine cost S.990 Total O&M B4.1% 0.6% 15. Ammonia cost 10,837 Pump House Updates Electricity for chemical system only Mag-meter SCADA Monitoring & Equipment Electricity S.5760 Total O&M B4.1% 0.6% 15. Shannon Road Booster Station Pumps Mag-meter S.CADA Monitoring & Equipment Electricity S.5760 Total O&M B4.1% 0.6% 15. Subtotal: Chairmine Conversion (for 20 stations) Total O&M B4.1% 0.6% 15. Shannon Road Booster Station Pumps S.3,500 Mag-meter S.CADA Monitoring & Equipment Electricity S.5760 Total O&M B4.1% 0.6% 15. Subtotal: Shannon Road Booster Station Subtotal: Shannon Road Booster Shannon Shannon Road Booster Shannon Shannon Road Booster Shannon Shannon Road Bo | Chloramine Pump Package System | \$ | 14,000 | Total O&M | ٦ - ٦ | 84.1% | | 0.6% | 1 | 15.3% |
| Chlorine cost 5,990 Total O&M 84.1% 0.6% 15. Ammonia cost 10,837 Total O&M 84.1% 0.6% 15. Ammonia cost 20,000 Total O&M 84.1% 0.6% 15. Electricity for chemical system only 340 Total O&M 84.1% 0.6% 15. Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ Shannon Road Booster Station Pumps \$ 3,500 Total O&M 84.1% 0.6% 15. Shannon Road Booster Station Pumps 8 3,500 Total O&M 84.1% 0.6% 15. SCADA Monitoring & Equipment 1.500 Total O&M 84.1% 0.6% 15. SCADA Monitoring & Equipment 1.500 Total O&M 84.1% 0.6% 15. Subtotal: Shannon Road Booster Station \$ 11,593 \$ 9,750 \$ 72 \$ Contingency \$ 1,753,907 \$ 1,484,908 \$ 10,804 \$ 2. Contingency \$ 1,753,907 \$ 1,484,908 \$ 10,804 \$ 2. International Control of the Control of | | | | | ┪┝── | | 1 | | | 15.3% |
| Ammonia cost | | | | | ┧┝ | | - | | <u> </u> | 15.3% |
| Pump House Updates 20,000 Total O&M 84.1% 0.6% 15.2 | | · · · · · · | | | | | | | | 15.3% |
| Electricity for chemical system only 340 Total O&M 84.1% 0.6% 15.3 | | <u> </u> | | | ┪┝━ | | | | | |
| Subtotal: Chloramine Conversion (for 20 stations) \$ 66,367 \$ 55,815 \$ 412 \$ | • | - | | | ┨ ├── | | | | | |
| Shannon Road Booster Station | • • | ـــــــــــــــــــــــــــــــــــــ | | Total O&M | <u>ــ</u> ال | | <u> </u> | | | 15.3% |
| Pumps | • | • | 00,507 | | • | 33,613 | Ŧ | 412 | ₹ | 10,1- |
| Mag-meter S.33 | | - | 2 500 1 | 7.100 | | | , | | | |
| SCADA Monitoring & Equipment 1,500 Total O&M 84,1% 0,6% 15,3 | | 13 | | | ↓ | | Ц. | | | 15.3% |
| Subtotal: Shannon Road Booster Station | | ļ | | | ↓ | | | | | 15.3% |
| Subtotal: Shannon Road Booster Station \$ 11,593 \$ 9,750 \$ 72 \$ | | <u> </u> | | | 1 | | <u> </u> | | | 15.3% |
| \$ - Total O&M 84.1% 0.6% 15.3 | • | بِ | | Total O&M | <u> </u> | | <u>ــــ</u> ــــــــــــــــــــــــــــــــ | | _ | 15.3% |
| \$ - Total O&M 84.1% 0.6% 15.3 | Subtotal. Statistics Road booster Station | \$ | 11,593 | | \$ | 9,750 | \$ | 72 | \$ | 1,77 |
| Subtotal: Contingency \$ \$ \$ \$ \$ \$ \$ \$ \$ | Contingency | S | | Total O&M | 1 — | 84.1% | _ | 0.6% | | 15.3% |
| Intangible Plan Intangible Plan Stockal: Intan | Subtotal: Contingency | \$ | - | | \$ | | \$ | - | \$ | |
| Service Serv | al: Operating & Maintenance Expenses | \$ | 1,753,907 | | \$ | 1,484,908 | \$ | 10.804 | Š | 258,19 |
| ### Service ### Interview ### Service ## | | | - | | • | 2,101,500 | • | 20,004 | 7 | 250/25 |
| Intangible Plant - Franchise | | - | | | | | | | | |
| \$ 36,583 \$ 28,265 \$ 468 \$ | | | | | | | | | | |
| \$ 36,583 | Intangible Plant - Franchise | \$ | 36,583 | Plant Investment | 1 [| 77.3% | | 1.3% | | 21.5% |
| Land and Land Rights \$ 76,185 General Water 99.5% 0.5% 0.0° Stuctures & Improvements 1,276,644 General Water 99.5% 0.5% 0.0° Wells & Springs 921,763 General Water 99.5% 0.5% 0.0° | ototal: Intangible Plan | | | | \$ | | \$ | | \$ | 7,85 |
| Land and Land Rights \$ 76,185 General Water 99.5% 0.5% 0.0% Stuctures & Improvements 1,276,644 General Water 99.5% 0.5% 0.0% Wells & Springs 921,763 General Water 99.5% 0.5% 0.0% | | | | | | | | | | |
| Stuctures & Improvements 1,276,644 General Water 99.5% 0.5% 0.0° Wells & Springs 921,763 General Water 99.5% 0.5% 0.0° | rce of Supply and Pumping | | 76 105 | General Water | 1 | 99.5% | 1 | 0.5% | | 0.0% |
| Wells & Springs 921,763 General Water 99.5% 0.5% 0.0 | | • | | CONTINUI WALL | 4 1 | | L | | | |
| 35.57 | Land and Land Rights | \$ | | |] [| 00 E0/ | 1 | U EOV | | |
| | Land and Land Rights Stuctures & Improvements | \$ | 1,276,644 | General Water | F- | | <u> </u> | | | 0.0% |
| 3,000 | Land and Land Rights Stuctures & Improvements Wells & Springs | \$ | 1,276,644 921,763 | General Water General Water | | 99.5% | | 0.5% | | 0.0% |
| | Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains | \$ | 1,276,644 921,763 106,525 | General Water General Water General Water | | 99.5% 99.5% | | 0.5% 0.5% | | 0.0% 0.0% |
| total: Source of Supply and Pumping \$ 4,038,098 \$ 4,017,907 \$ 20,190 \$ | Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Purnping Equipment | | 1,276,644 921,763 106,525 1,656,980 | General Water General Water | | 99.5% 99.5% 99.5% | | 0.5% | | 0.0% |

| Water Treatment | | | | | | | | | |
|--|--------------|------------------------|-----------------------------------|--------------|--------------|--------------|---------------|--------------|----------------|
| Water Treatment Equipment | \$ | 735,971 | General Water |] [| 99.5% | | 0.5% | <u> </u> | 0.0% |
| Subtotal: Water Treatment | \$ | 735,971 | | \$ | 732,291 | \$ | 3,680 | \$ | - |
| Transmission & Distribution | | | | | | | | | |
| Distribution Reservoirs & Standpipes | \$ | 1,665,952 | Storage | | 100.0% | | 0.0% | I | 0.0% |
| T&D Mains Services | | 6,240,925 | General Water | - | 99.5% | <u> </u> | 0.5% | <u> </u> | 0.0% |
| Meters and Meter Installations | | 2,250,484 1,340,115 | Customer Service | ł | 0.0% | ↓ | 0.0% | _ | 100.0% |
| Hydrants | | 1,340,115 | Customer Service Hydrants | ∤ } - | 0.0% 0.5% | - | 0.0% 99.5% | | 100.0% 0.0% |
| Other | | 303,311 | General Water | ┨╟ | 99.5% | ┼── | 0.5% | | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 11,958,942 | | - | 8,178,258 | \$ | 190,087 | \$ | 3,590,598 |
| General Plant | | | | | | | | | |
| Office Furniture and Equipment | \$ | 1,420 | Piant Investment | | 77.3% | 1 | 1.3% | 1 | 21.5% |
| Transportation Equipment | • | 153,990 | Plant Investment | 1 | 77.3% | | 1.3% | | 21.5% |
| Tools, Shop and Garage Equipment | | 3,975 | Plant Investment | 1 - | 77.3% | | 1.3% | 1 | 21.5% |
| Computer Equipment | | 97,088 | Plant Investment | | 77.3% | | 1.3% | | 21.5% |
| Subtotal: General Plant | \$ | 256,473 | | \$ | 198,159 | \$ | 3,279 | \$ | 55,034 |
| Total: Plant in Service | \$ 1 | 17,026,067 | | \$ | 13,154,881 | \$ | 217,704 | \$ | 3,653,483 |
| | | | | | | | | | |
| Depreciation Intangible Plan | | | | | | | | | |
| Intangible Plant - Franchise | | 915 | Depreciation | 1 | 72 40/- | | 0.004 | 1 | 26 704 |
| | <u>\$</u> | | Depreciation | ـــا ل | 72.4% | | 0.9% | L | 26.7% |
| Subtotal: Intangible Plan | \$ | 915 | | \$ | 662 | \$ | 9 | \$ | 244 |
| Source of Supply and Pumping | | | | | | | | | |
| Land and Land Rights | \$ | 1,905 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Stuctures & Improvements | | 31,074 | General Water | | 99.5% | | 0.5% | Ī | 0.0% |
| Wells & Springs | | 29,303 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Supply Mains | | 1,530 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Pumping Equipment | | 64,129 | General Water | | 99.5% | L | 0.5% | | 0.0% |
| Subtotal: Source of Supply and Pumping | \$ | 127,941 | | \$ | 127,301 | \$ | 640 | \$ | - |
| Water Treatment | | | | | | | | | |
| Water Treatment Equipment | \$ | 31,316 | General Water |] [| 99.5% | | 0.5% | ļ | 0.0% |
| Subtotal: Water Treatment | \$ | 31,316 | | \$ | 31,159 | \$ | 157 | \$ | - |
| Transmission & Distribution | | | | | | | | | |
| Distribution Reservoirs & Standpipes | \$ | 36,760 | Storage | 1 | 100.0% | · | 0.0% | | 0.0% |
| T&D Mains | • | 129,952 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Services | | 51,959 | Customer Service | | 0.0% | | 0.0% | | 100.0% |
| Meters and Meter Installations | | 76,485 | Customer Service | | 0.0% | | 0.0% | | 100.0% |
| Hydrants | | 3,019 | Hydrants | | 0.5% | - | 99.5% | | 0.0% |
| Other | | 24,428 | General Water | | 99.5% | | 0.5% | <u> </u> | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 322,604 | | \$ | 190,384 | \$ | 3,776 | \$ | 128,444 |
| General Plant | | | | | | | | | |
| Office Furniture and Equipment | \$ | - | Depreciation | | 72.4% | | 0.9% | Ι | 26.7% |
| Transportation Equipment | | 12,731 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| Tools, Shop and Garage Equipment | | 205 | Depreciation | [| 72.4% | | 0.9% | | 26.7% |
| Computer Equipment | | 4,759 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| Subtotal: General Plant | \$ | 17,695 | | \$ | 12,810 | 5 | 168 | \$ | 4,717 |
| Total: Depreciation | \$ | 500,470 | | \$ | 362,317 | \$ | 4,748 | \$ | 133,405 |
| _ | | | | | | | | | |
| Taxes Other Than Income | | | | | | | | | |
| Utility Property Tax | \$ | 20.274 | Diget Investment | | 77 70/ | · | + 20/ | | 24 504 |
| Real Estate | P | 30,274 129,390 | Plant Investment Plant Investment | | 77.3% | | 1.3% | - | 21.5% |
| Subtotal: Taxes Other Than Income | | 159,664 | riant myestment | L | 77.3% | _ | 1.3% | <u> </u> | 21.5% |
| | \$ | 159,004 | | \$ | 123,361 | \$ | 2,042 | \$ | 34,261 |
| Income Taxes Business Enterprise Tax | \$ | 131,581 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Income Taxes | \$ | 131,581 | General Huter | \$ \$ | 130,923 | _ | 658 | <u> </u> | |
| Poteti Pove | <u> </u> | | | | | | | _ | |
| Total: Taxes | \$ | 291,245 | | \$ | 254,284 | \$ | 2,699 | \$ | 34,261 |
| Amortization | | | | | | | | | |
| CIAC | \$ | (216,489) | Plant Investment | - 1 | 77.3% | | 1.3% | | 21.5% |
| Other | • | 2,715 | Plant Investment | | 77.3% | | 1.3% | | 21.5% |
| Total: Amortization | , | (213,774) | | \$ | (165,169) | \$ | (2,733) | \$ | (45,872) |
| | | Í | | • | | | | • | |
| Return | | | , | | | | | | == |
| Estimate | <u>\$</u> | 453,727 | Plant Investment | L | 77.3% | L | 1.3% | | 21.5% |
| Total: Return | \$ | 453,727 | | \$ | 350,564 | \$ | 5,802 | \$ | 97,361 |
| | • | • | | • | -, | • | ., | • | , |

| | | | | Water Co | et Drivers | |
|--|------------|---|------------------|------------------|----------------|-------------|
| O&M Expenses | | | | Extra | Wholesale | Retali |
| Source of Supply Operations | | | Bare | Capacity | <u>Ontv</u> | <u>Qnly</u> |
| Operation Supervision and Engineering | ş . | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Operation Labor and Expenses | 4,808 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Purchased Water | 374,978 | Purchased Water | 0.00% | 0.00% | 100.00% | 0.00% |
| Miscellaneous Expenses | 23 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Rents | • | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ 1,669 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Structures and Improvements | 4,624 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Collecting and Impounding Reservoirs | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Lake, River, and Other Intakes Maintenance of Wells and Springs | 11,602 | Production & Pumping Costs Production & Pumping Costs | 45.00% 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Maintenance of Infiltration Galleries and Tunnels | 11,002 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Supply Mains | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Miscellaneous Water Source Plant | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Source of Supply | \$ 397,703 | | \$ 10,226 | \$ 12,499 | \$ 374,978 | \$ - |
| Pumping Expenses Operations | | | | | | |
| Operation Supervision and Engineering | s - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Fuel for Power Production | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Power Production Labor and Expenses | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Fuel or Power Purchased for Purnping Purnping Labor and Expenses | 177,023 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Expenses Transferred-Credit | 22,935 | Production & Pumping Costs Production & Pumping Costs | 45.00% 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Miscellaneous Expenses | 16,173 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Rents | ., | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance | | | | | | |
| Maintenance Maintenance Supervision and Engineering | s - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Structures and Improvements | 30.956 | Production & Pumping Costs Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Power Production Equipment | 30,330 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Pumping Equipment | 36,006 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Pumping Expenses | s 283,093 | | \$ 127,392 | s 155,701 | 5 | ş - |
| | | | | | | |
| Water Treatment Expenses | | | | | | |
| Operations Operation Supervision and Engineering | \$ | Treatment | 0.00% | 0.00% | 0.000 | 100 000 |
| Chemicals | 10,906 | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Operation Labor and Expenses | 148,289 | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Miscellaneous Expenses | | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Rents | - | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Maintenance | | | | | | |
| Operation Supervision and Engineering | \$ - | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Maintenance of Structures and Improvements | - | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Maintenance of Water Treatment Equipment | 10,680 | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Subtotal: Water Treatment Expenses | \$ 169,875 | | \$ - | \$ - | \$ - | \$ 169,875 |
| Transmission and Distribution Expense | | | | | | |
| Operations | | | | | | |
| Operation Supervision and Engineering | \$ | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Storage Facilities Expenses | • | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Transmission and Distribution Lines Expenses | 13,234 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Meter Expenses Customer Installations Expenses | • | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Miscellaneous Expenses | 2,127 | T&D Mains T&D Mains | 63.52% 63.52% | 36.48% 36.48% | 0.00% | 0.00% |
| Rents | 2,127 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Malahanana | | | V.M. | | | |
| Maintenance Maintenance Supervision and Engineering | | TRD Mains | 63.530/ | 26 4004 | 0.000/ | 0.000/ |
| Maintenance Supervision and Engineering Maintenance of Structures and Improvements | \$ - | T&D Mains T&D Mains | 63.52% 63.52% | 36.48% 36.48% | 0.00% | 0.00% |
| Maintenance of Distribution Reservoirs and Standpipes | 7,026 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Transmission and Distribution Mains | 11,715 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Fire Mains | • | T&D Mains | 63.52% | 36,48% | 0.00% | 0.00% |
| Maintenance of Services Maintenance of Meters | • | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Hydrants | 11 | T&D Mains T&D Mains | 63.52% 63.52% | 36.48% 36.48% | 0.00% 0.00% | 0.00% |
| Maintenance of Miscallenous Equipment | -: | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Subtotal: Transmission and Distribution Expense | 5 34,113 | | \$ 21,668 | \$ 12,445 | \$ - | \$ - |
| · | | | , | , | | |
| Customer Accounts Expense Operations | | | | | | |
| Uperations Supervision | \$ | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Meter Reading Expenses | • | Production & Pumping Costs Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Customer Records and Collection Expenses | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Uncollectible Accounts | - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Miscellaneous Customer Accounts Expenses | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Customer Accounts Expense | \$ - | | 5 | \$ - | \$ - | <u>-</u> |
| Sales Expenses | | | | | | |
| Operations | | | | | | |
| Sales Expenses | \$ | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Sales Expenses | \$. | | \$ | | | \$ - |
| | * | | * | • | • | • |

| Administrative and General Expenses | | | | | | | | | | |
|--|--|--|-------------------|--|----------------|---|--|--|--|---|
| Operations Administrative and General Salaries | \$ 13,91 | 2 Total O&M | _ | 31.24% | - | 25 420 | -, | 0.000/ | , | - no nne: |
| Office Supplies and Other Expenses | 39,32 | | l i— | 31.24% | +- | 35.43% 35.43% | + | 0.00% | ┼— | 33.32% 33.32% |
| Administrative Expenses Transferred-Cr. | 37,52 | Total Q&M | 1 ! | 31.24% | | 35.43% | +- | 0.00% | - | 33.32% |
| Outside Services Employed | 217,95 | | 1 | 31.24% | + | 35.43% | + | 0.00% | | 33.32% |
| Property Insurance | | Total O&M | i | 31.24% | T | 35.43% | 1 | 0.00% | | 33.32% |
| Injuries and Damages | 30,05 | Total O&M | 1 | 31.24% | T | 35.43% | 1 | 0.00% | | 33.32% |
| Employee Pension and Benefits | 72,19 | |] 🗀 | 31.24% | | 35,43% | | 0.00% | | 33.32% |
| Franchise Requirements | 4,64 | | <u> </u> | 31.24% | Ĺ | 35.43% | | 0.00% | | 33.32% |
| Regulatory Commission Expenses | 5,38 | | | 31.24% | \perp | 35.43% | _ | 0.00% | | 33.32% |
| Duplicate Charges Cr. | 24.42 | Total O&M | | 31.24% | _ | 35.43% | ــــ | 0.00% | _ | 33.32% |
| Miscellaneous Expenses General Rents | 26,87 | | | 31.24% | ₩ | 35.43% | | 0.00% | ļ | 33.32% |
| Galerai Relig | 14,21 | Total O&M | l | 31.24% | | 35.43% | | 0.00% | J | 33.32% |
| Maintenance | | | | | | | | | | |
| Maintenance of General Plant | \$ | Total O&M | 1 | 31.24% | 1 | 35.43% | Т. | 0.00% | т— | 33.32% |
| Subtotal: Administrative and General Expenses | \$ 424,55 | | ' '- | | _ | | ' - | 0.0070 | | |
| Subtodat. Administrative and General Expenses | \$ 424,55 | | \$ | 132,649 | \$ | 150,436 | \$ | | \$ | 141,468 |
| MSDC Charges | | | | | | | | | | |
| Annual Expense | \$ 63,75 | Purchased Water | 1 | 0.00% | · · · | 0.00% | т — | 100.00% | 1 | 0.00% |
| Subtotal: MSDC Charges | \$ 63,75 | | J L | 0.50 /4 | | 0.00% | ـــِــــــــــــــــــــــــــــــــــ | | - | 0.0076 |
| Subtotal. PISDC Charges | \$ 03,75 | • | \$ | - | \$ | • | \$ | 63,750 | \$ | - |
| Additional Support | | | | | | | | | | |
| FTE to support new water flows and chloramination | \$ 46,25 | Production & Pumping Costs | · | 45.00% | | 55.00% | _ | 0.00% | ī | 0.00% |
| Subtotal: Additional Support | | | | | ٠. | | ٠ | | <u> </u> | 0.00% |
| зилист. настопа зирроп | \$ 46,25 | | \$ | 20,815 | \$ | 25,440 | \$ | | \$ | • |
| Chloramine Conversion (for 20 stations) | | | | | | | | | | |
| Chloramine Pump Package System | \$ 11,77 | Production & Pumping Costs | . — | 45.00% | , | 55.00% | 1 | 0.00% | · | 0.00% |
| Ammonia Analyzer | 12,78 | | i | 45.00% | 1— | 55.00% | + | 0.00% | | 0.00% |
| Chloring cost | 5,03 | | i | 45.00% | | 55.00% | 1 | 0.00% | ├ | 0.00% |
| Ammonia cost | 9,11 | | l | 45.00% | - | 55.00% | - | 0.00% | | 0.00% |
| Pump House Updates | 16,82 | | | 45.00% | ┼─ | 55.00% | | 0.00% | | 0.00% |
| Electricity for chemical system only | 286 | | | 45.00% | <u> </u> | 55.00% | +- | 0.00% | 1 | 0.00% |
| Subtotal: Chloramine Conversion (for 20 stations) | \$ 55,81 | | \$ | 25,117 | ' _ | 30,698 | | 0.00.0 | 5 | 0.0070 |
| The state of the s | 33,61 | | * | 23,117 | , | 30,090 | • | - | , | • |
| Shannon Road Booster Station | | | | | | | | | | |
| Pumps | \$ 2,94 | Production & Pumping Costs | 1 | 45.00% | ľ | 55.00% | П | 0.00% | $\overline{}$ | 0.00% |
| Mag-meter | 70: | | | 45.00% | - | 55.00% | t | 0.00% | | 0.00% |
| SCADA Monitoring & Equipment | 1,262 | | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Electricity | 4,844 | | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Subtotal: Shannon Road Booster Station | s 9,750 | | \$ | 4,388 | · - | 5,363 | - | | \$ | |
| | 3,73. | | • | 7,300 | , | 3,303 | , | | > | |
| Contingency | | | | | | | | | | |
| | 5 | 0 - 1 - 11 - 0 - 0 - 1 - 0 | | 45.00% | | CC 0004 | _ | 0.000/ | | 0.00% |
| | | Production & Pumping Costs | | 43,0070 | | 55.00% | ı | 0.00% | | |
| Subtotal: Contingency | 5 | Production & Pumping Costs | <u> </u> | | - | | <u> </u> | | - | |
| Subtotal: Contingency | 5 | Production & Pumping Costs | \$ | 43,00% | \$ | 55.00% | \$ | | \$ | - |
| | \$ | Production & Pumping Costs | \$ | | \$ | | \$ | | \$ | - |
| Total: Operating & Maintenance Expenses | \$ 1,484,908 | Production & Pumping Costs | \$ | | \$ | | _ | | \$ | 311,343 |
| | \$ | Production & Pulmping Costs | \$ | | | - | _ | - | _ | |
| Total: Operating & Maintenance Expenses | \$ | Production & Pumping Costs | \$ | | | - | _ | - | _ | |
| Total: Operating & Maintenance Expenses Check | \$ | Production & Pumping Costs | \$ | | | - | _ | - | _ | |
| Total: Operating & Meintenance Expenses Check Plant in Service | \$ | Production & Pumping Costs | \$ | | | - | _ | - | _ | |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan | \$ 1,484,908 \$ | | \$ | 342,254 | | 392,582 | _ | 438,728 | _ | 311,343 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise | \$ 1,484,908 \$ \$ | Plant Investment | \$ | 342,254 | \$ | 392,582 | • | - | \$ | 311,343 5.7% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan | \$ 1,484,908 \$ | Plant Investment | \$ | 342,254 | \$ | 392,582 | • | 438,728 | _ | 311,343 |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan | \$ 1,484,908 \$ \$ | Plant Investment | \$ | 342,254 | \$ | 392,582 | • | 438,728 | \$ | 311,343 5.7% |
| Total: Operating & Meintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping | \$ 1,484,908 \$ \$ \$ 28,265 \$ 28,265 | Plant Investment | \$ | 342,254 54.3% 15,352 | \$ | 392,582 40.0% 11,311 | • | 438,728 | \$ | 311,343 5.7% 1,603 |
| Total: Operating & Meintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights | \$ 1,484,908 \$ 28,265 \$ 28,265 | Plant Investment Production & Pumping Costs | \$ | 342,254 54.3% 15,352 | \$ | 392,582 40.0% 11,311 55.0% | • | 438,728 0.0% | \$ | 311,343 5.7% 1,603 |
| Total: Operating & Meintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping | \$ 1,484,908 \$ \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 | Plant Investment Production & Pumping Costs Production & Pumping Costs | \$ | 342,254 54,3% 15,352 45,0% 45,0% | \$ | 392,582 40.0% 11,311 55.0% 55.0% | • | 0.0% 0.0% | \$ | 311,343 5.7% 1,603 |
| Total: Operating & Meintenance Expenses Check Mant in Service Intangible Plan Intangible Plan Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs | \$ 1,484,908 \$ \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs | \$ | 342,254 54,3% 15,352 45.0% 45.0% | \$ | 392,582 40.0% 11,311 55.0% 55.0% | • | 0.0% 0.0% 0.0% 0.0% | \$ | 311,343 5.7% 1,603 0.0% 0.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements | \$ 1,484,908 \$ \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 342,254 54.3% 15,352 45.0% 45.0% 63.5% | \$ | 392,582 40.0% 111,311 55.0% 55.0% 55.0% 36.5% | • | 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment | \$ 1,484,908 \$ \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,693 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% | \$ | 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 55.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 311,343 5.7% 1,603 0.0% 0.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains | \$ 1,484,908 \$ \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 342,254 54.3% 15,352 45.0% 45.0% 63.5% | \$ | 392,582 40.0% 111,311 55.0% 55.0% 55.0% 36.5% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping | \$ 1,484,908 \$ \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,693 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% | \$ | 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 55.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,693 \$ 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% 1,827,687 | \$ | 40.0% 111,311 55.0% 55.0% 55.0% 55.0% 2,190,220 | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Water Treatment Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,893 1,648,695 \$ 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% | \$ | 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 55.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,693 \$ 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% 1,827,687 | \$ | 40.0% 111,311 55.0% 55.0% 55.0% 55.0% 2,190,220 | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,893 1,648,695 \$ 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% 1,827,687 | \$ | 40.0% 111,311 55.0% 55.0% 55.0% 55.0% 2,190,220 | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Water Treatment Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,695 \$ 4,017,907 \$ 732,291 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment | \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 63.5% 45.0% 1,827,687 | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Subtotal: Water Treatment Transmission & Distribution | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,695 \$ 4,017,907 \$ 732,291 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains | \$ | 342,254 54.3% 15,352 45.0% 45.0% 63.5% 0.0% 63.5% | \$ | 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 732,291 |
| Total: Operating & MeIntenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,691 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains | \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 63.5% 45.0% 1,827,687 | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 732,291 |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,691 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment TRO Mains T&D Mains T&D Mains | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 63.5% 63.5% | \$ | 40.0% 111,311 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 732,291 |
| Total: Operating & MeIntenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,691 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains Treatment Treatment Treatment | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 63.5% 1,827,687 0.0% 63.5% 63.5% | \$ | 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 100.0% 732,291 |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes TRD Mains Services Meters and Meter Installations Hydrants | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,955 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&O Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ \$ \$ \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 0.0% 63.5% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 36.5% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & MeIntenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&O Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ | 54.3% 15,352 45.0% 45.0% 45.0% 63.5% 63.5% 0.0% 0.0% 0.0% | \$ | 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 100.0% 732,291 0.0% 100.0% 100.0% |
| Total: Operating & MeIntenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,955 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&O Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ \$ \$ \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 0.0% 63.5% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 36.5% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,955 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&O Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ \$ \$ \$ | 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 0.0% 63.5% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 36.5% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes TRD Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 6,209,720 791 301,794 \$ 8,178,258 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs TRED Mains TRED Mains TRED Mains Treatment TRED Mains | \$ \$ \$ \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 63.5% 63.5% 0.0% 0.0% 0.0% 5,194,229 54.3% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 40.0% 40.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 732,291 0.0% 100.0% 100.0% 100.0% 791 |
| Total: Operating & MeIntenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Trools, Shop and Garage Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,693 \$ 4,017,907 \$ 732,291 \$ 1,665,952 6,209,720 \$ 8,178,258 \$ 1,097 118,977 3,071 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment Treatment Treatment | \$ \$ \$ \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 5,194,229 54.3% 54.3% 54.3% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 2,983,238 40.0% 40.0% 40.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes TRD Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 1,665,952 6,209,720 791 301,794 \$ 8,178,258 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs TRED Mains TRED Mains TRED Mains Treatment TRED Mains | \$ \$ \$ \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 63.5% 63.5% 0.0% 0.0% 0.0% 5,194,229 54.3% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 40.0% 40.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 732,291 0.0% 100.0% 100.0% 100.0% 791 |
| Total: Operating & MeIntenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Trools, Shop and Garage Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,154 105,993 1,648,693 \$ 4,017,907 \$ 732,291 \$ 1,665,952 6,209,720 \$ 8,178,258 \$ 1,097 118,977 3,071 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment Treatment Treatment | \$ \$ \$ \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 5,194,229 54.3% 54.3% 54.3% | \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 2,983,238 40.0% 40.0% 40.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 |
| Total: Operating & Maintanance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Trools, Shop and Garage Equipment Computer Equipment | \$ 1,484,908 \$ 28,265 \$ 28,265 \$ 75,804 1,270,261 917,155 105,993 1,648,695 \$ 4,017,907 \$ 732,291 \$ 1,665,952 6,209,720 791 301,794 \$ 8,178,256 \$ 1,097 118,977 3,071 75,013 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment Treatment Treatment | \$ \$ \$ \$ \$ \$ | 342,254 54.3% 15,352 45.0% 45.0% 45.0% 45.0% 63.5% 45.0% 1,827,687 0.0% 0.0% 0.0% 5,194,229 54.3% 54.3% 54.3% 54.3% | \$ \$ | 392,582 40.0% 11,311 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 2,983,238 40.0% 40.0% 40.0% 40.0% 40.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.7% 1,603 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 732,291 0.0% 100.0% 100.0% 100.0% 791 5.7% 5.7% 5.7% |

| Depreciation Intangible Plan | | | | | | | | | | | |
|--|----|-----------------|---|------------|-----------------|--|-----------------|----------------|------|-------------|----------|
| Intangible Plant - Franchise | \$ | 662 | Depreciation | | 51.1% | T- | 40.0% | Ι | 0.0% | | 8.9% |
| Subtotal: Intangible Plan | \$ | 662 | <u> </u> | 5 | 338 | \$ | 265 | \$ | | - \$ | 59 |
| Source of Supply and Purnoing | | | | | | | | | | | |
| Land and Land Rights | \$ | 1,895 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Stuctures & Improvements | | 30,919 | Production & Pumping Costs | l L. | 45.0% | | 55.0% | L | 0.0% | | 0.0% |
| Wells & Springs Supply Mains | | 29,156 | Production & Pumping Costs | ļ | 45.0% | _ | 55.0% | | 0.0% | _ | 0.0% |
| Pumping Equipment | | 1,523 63,809 | Production & Pumping Costs Production & Pumping Costs | | 45.0% | <u> </u> | 55.0% | ļ | 0.0% | - | 0.0% |
| Subtotal: Source of Supply and Pumping | \$ | 127,301 | Production & Pumping Costs | \$ \$ | 45.0% 57,285 | <u>-</u> | 55.0% 70,016 | \$ | 0.0% | \$ | 0.0% |
| Water Treatment | | | | | | | | | | | |
| Water Treatment Equipment | \$ | 31,159 | Treatment | | 0.0% | Ι | 0.0% | | 0.0% | 1 | 100.0% |
| Subtotal: Water Treatment | \$ | 31,159 | | \$ | | 5 | | \$ | | - 5 | 31,159 |
| Transmission & Distribution | | | | | | | | | | | |
| Distribution Reservoirs & Standpipes | \$ | 36,760 | T&D Mains | | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| T&D Mains | | 129,303 | T&D Mains | | 63.5% | | 36.5% | | 0.0% | <u> </u> | 0.0% |
| Services | | - | Treatment | | 0.0% | | 0.0% | | 0.0% | | 100.0% |
| Meters and Meter Installations | | | Treatment | ļ | 0.0% | ļ | 0.0% | | 0.0% | | 100.0% |
| Hydrants Other | | 15 | Treatment | ١ <u> </u> | 0.0% | <u>. </u> | 0.0% | <u> </u> | 0.0% | _ | 100.0% |
| | _ | 24,306 | T&D Mains | Ĺ | 63.5% | <u>: </u> | 36.5% | L | 0.0% | | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 190,384 | | \$ | 120,920 | \$ | 69,449 | \$ | | - \$ | 15 |
| General Plant | | | | | | | | | | | |
| Office Furniture and Equipment | \$ | - | Depreciation | Ī | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Transportation Equipment | | 9,217 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Tools, Shop and Garage Equipment | | 148 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Computer Equipment | | 3,445 | Depreciation | L | 51.1% | L | 40.0% | L <u>, .</u> _ | 0.0% | | 8.9% |
| Subtotal: General Plant | \$ | 12,810 | | \$ | 6,544 | \$ | 5,122 | \$ | | . \$ | 1,145 |
| Total: Depreciation | \$ | 362,317 | | \$ | 185,088 | \$ | 144,851 | \$ | | • \$ | 32,378 |
| Тахов | | | | | | | | | | | |
| Taxes Other Than Income | | | | | | | | | | | |
| Utility Property Tax | s | 23,391 | Plant Investment | | 54.3% | | 40.0% | | 0.0% | | 5.7% |
| Real Estate | | 99,971 | Plant Investment | ļ | 54.3% | | 40.0% | | 0.0% | | 5.7% |
| Subtotal: Taxes Other Than Income | \$ | 123,361 | | 5 | 67,002 | \$ | 49,364 | \$ | | \$ | 6,995 |
| Income Taxes | | | | | | | | | | | |
| Business Enterprise Tax | 5 | 130,923 | Total O&M | Ĺ | 31.2% | | 35.4% | | 0.0% | | 33.3% |
| Subtotal: Income Taxes | \$ | 130,923 | | \$ | 40,906 | \$ | 46,391 | \$ | | - \$ | 43,626 |
| Total: Taxes | \$ | 254,284 | | \$ | 107,908 | \$ | 95,756 | \$ | | - \$ | 50,621 |
| | | | | | | | | | | | |
| Amortization | | | | , | | | | | | | |
| CIAC Other | \$ | (167,266) | Depreciation | | 51.1% | | 40.0% | | 0.0% | <u></u> | 8.9% |
| ==:=: | | 2,098 | Depreciation | <u> </u> | 51.1% | | 40.0% | _ | 0.0% | | 8.9% |
| Total: Amortization | \$ | (165,169) | | \$ | (84,376) | \$ | (66,033) | \$ | | - \$ | (14,760) |
| Return | | | | | | | | | | | |
| Estimate | \$ | 350,564 | Plant Investment | [| 54.3% | | 40.0% | | 0.0% | 7 | 5.7% |
| Total: Return | \$ | 350,564 | | \$ | 190,404 | \$ | 140,282 | \$ | | - \$ | 19,878 |

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|------------------------------|
| Staff 1-22 | Witness: John Sullivan |

Staff 1-22

Table 1 and Appendix A of the COSS (Exhibit 7) contains a number of costs that were not derived from the Company's 2017 Annual Report. For <u>each</u> of the following charges not derived from the Company's 2017 Annual Report, please provide a detailed explanation regarding how they were determined. (Please provide the individual supporting calculations, as necessary.)

| a) | Source of Supply - Purchased Water | \$373,213 |
|----|--|-----------|
| b) | MSDC Charges | 64,070 |
| c) | Additional Support – FTE to support new water flows and chloramination | 55,000 |
| d) | Chloramine Conversion (for 20 stations) | 66,367 |
| e) | Shannon Road Booster Station | 11,593 |
| f) | Rate of Return | 499,547 |
| g) | Income Taxes (Business Enterprise Tax) | 144,869 |

Response 1-22

All these numbers were determined by the consultant hired by DES to do the Cost of Service Study.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

Date request received: 10/11/2019

Staff 1-23

Date of Response: 10/28/2019

Witness: John Sullivan

Staff 1-23

Appendix A of the COSS (Exhibit 7) indicates an amount relative to the Company's Distribution Reservoirs and Standpipes fixed asset account of \$2,795,608. The Company's 2017 Annual Report, however, indicates an amount of \$1,665,952 for Distribution Reservoirs and Standpipes (See Schedule F-8, Line 27); a difference of \$1,129,656. Please explain this difference.

Response 1-23

We have requested the information sought in this request from Raftelis and will forward any response as soon as it is received.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

| Date request received: 10/11/2019 | Date of Response: 10/28/2019 |
|-----------------------------------|------------------------------|
| Staff 1-24 | Witness: John Sullivan |

Staff 1-24

Table 4 of the COSS (Exhibit 7) contains the calculation of the wholesale rate that the Company could assess the Town of Plaistow.

- a) For <u>each</u> of the Cost of Service components contained in Table 4, please provide a detailed explanation regarding how that component was derived from Table 3. See below. (Please provide the individual supporting calculations, as necessary.
 - i. Operating Expenses \$201,917

| ii. | Rate of Return | 141,372 |
|------|---------------------|---------|
| iii. | Depreciation | 52,380 |
| iv. | Other Non-Operating | 85,516 |

b) Please explain how the calculated rate per ccf of \$3.94 calculated on Table 4 relates to the rate indicated in Exhibit 8, Page 12 of 26, which states, "HAWC shall charge Plaistow 54 cents more per Ccf than HAWC is being charged by Salem."

Response 1-24

These calculations were made by the consultant DES hired to do the Cost of Service Study.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-25

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-25

Exhibit 8, Page 10 of 26 states, "Salem will charge HAWC 50 cents more per Ccf than the combined rates charged to Salem by MWW and Derry for water usage."

- a) When is it anticipated that this rate will go into effect and be charged to HAWC?
- b) Please explain how this rate was determined. Please provide all necessary supporting calculations.
- c) Please indicate the anticipated actual rate per ccf that will be charged by Salem to HAWC.

- a) The anticipated date for this to go into effect is 6/15/2020.
- b) This was determined based on the Raftellis Cost of Service Study (COSS).
- c) Per the SIA agreement Salem will be billing HAWC 50 cents more per Ccf than the combined rates charged to Salem by MWW and Derry for water usage.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-26

Date of Response: 10/28/2019

Witness: Charles Lanza and

Stephen St. Cyr

Staff 1-26

Exhibit 8, Page 12 of 26 states, "HAWC shall charge Plaistow 54 cents more per Ccf than HAWC is charged by Salem."

- a) When is it anticipated that this rate will go into effect and be charged by HAWC?
- b) Is it the Company's intention to file for approval of this rate with the Commission, in accordance with its statutory authority to establish just and reasonable rates, before it is actually charged to the Town of Plaistow? If yes, please indicate when this filing will occur. If no, please explain.
- c) Staff's position is that it will not be examining approval of those rates, and any other rates contained in the proposed contract, in the current docket. Staff will review the contract but consider it merely for illustrative purposes. As indicated above, approval of those rates should be filed in an additional docket. Does the Company agree with Staff's position? Please explain.
- d) Please explain how this rate was determined. Please provide all necessary supporting calculations.
- e) Please indicate the anticipated actual rate per ccf that will be charged by HAWC to Plaistow.

- a) The Company does not anticipate selling water to Plaistow until sometime in 2021.
- b) Yes. At this point, HAWC anticipates filing a rate case in 2020 based on a 2019 proforma test year.
- c) Yes.
- d) The rate was determined by Raftelis in its Final Report dated June 27, 2019 entitled Southern New Hampshire Regional Water Initiative Cost of Service Study HAWC. See Exhibit 7 to Petition.
- e) The anticipated calculated rate per ccf is \$3.94.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-27

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-27

Regarding Exhibit 8, Attachment B relative to the Disinfection Study Report, dated January 7, 2019, please provide a brief narrative regarding the Chloramine Conversion project to be undertaken by the Company. Within that narrative, please specifically describe the following:

- a) The necessity for this project within the context of the overall SNHRWI Project.
- b) A description of the treatment option that will be established in the HAWC systems under Phase I to address this issue.
- c) The other alternatives that were considered relative to addressing this issue, and their approximate costs.
- d) The reasons why HAWC chose the treatment option that it did over other alternative treatment options.

- a) Under the Disinfection Study Report it was determined that the Company's water chemistry was not compatible with the water systems upstream including Manchester, Derry and Salem. In order for the Company to participate in the project and gain a long-term viable source of water it was ultimately determined that the Company would have to convert its core system to chloramines to be compatible with the water coming from the North.
- b) The treatment option that will be established in the HAWC core system to address the disinfection compatibility issue is converting from chlorine disinfection to chloramine disinfection.
- c) See the referenced Disinfection Study Report. There were several options considered including destruction of chloramines and filtration of the chloramines. Aside from conversion to chloramines all other options were determined to be cost prohibitive from a long term O&M standpoint.
- d) See responses A-C.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1

ANSWERS

Date request received: 10/11/2019

Staff 1-28

Date of Response: 10/28/2019

Witness: Charles Lanza

Staff 1-28

Regarding Exhibit 8, Attachment C, MSDC Agreement on Page 4 of 13, it appears that the MSDC rate to be charged to all water recipients is \$3.57 per gallon per day. Please provide a detailed explanation regarding how this rate was established.

Response 1-28

Please review Attachment C, item #8 of the MSDC grant agreement. Manchester Water Works established the rate of \$3.57 in 2018, and the MSDC grant agreement extended this rate to the water recipients through June 30, 2019.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 1 ANSWERS

Date request received: 10/11/2019

Staff 1-29

Date of Response: 10/28/2019

Witness: Stephen St. Cyr

Staff 1-29

Regarding Petition for Approval, Page 5, and Staff Email Dated September 19, 2019

In Staff's email to the Company, as attached, Staff indicated that it had reviewed HAWC's petition and determined that it would be examining the filing as two requests for financings, in the amounts of \$1,204,815.00 and \$392,500.00, pursuant to RSA 369:1 and RSA 369:4. Staff further indicated that it would not be examining the prudency of the proposed improvements to be made with the approved financings, nor would it be examining authorization for HAWC to increase its rates to cover its investments and earn a reasonable rate of return.

- a) Please indicate if the Company agrees to Staff's characterization of HAWC's filing. If not, please supplement the record with further argument and documentation to support those requests.
- b) Please provide justification as to why the separate proposed financings are "consistent with the public good," pursuant to RSA 369:1 and RSA 369:4, and should be approved by the Commission. Please provide Commission precedent for this argument. N.H. Code Admin. Rules Puc 203.05(a)(3).

- a) HAWC agrees.
- b) The State of NH loan to pay the CIAC Tax is in the public interest and consistent with the public good because it provides the two core systems with access to needed water supply for both regular and emergency supply allowing HAWC to provide safe and reliable drinking water to its customers. Similarly, the bank loan to pay a portion of the MWW MSDC fees is in the public interest and consistent with the public good because it provides the two core systems with access to needed water supply for both regular and emergency supply allowing HAWC to provide safe and reliable drinking water to its customers. Both financings should be approved by the Commission.





TEL: 603.362.4299 FAX: 603.362.4936 www.hampsteadwater.com

December 9, 2019

Christopher R. Tuomala, Esq. NH Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

RE:

Hampstead Area Water Company, Inc.

DW 19-147 - Answers to Staff Data Requests - Set

Dear Attorney Tuomala:

Pursuant to NH Code PUC 203.09, please find attached, the Company's Answers to Staff Data Requests-Set2, regarding the above referenced docket.

If you have any questions, please don't hesitate to contact us.

Very truly yours,

Anthony Augeri, Esq

General Counsel

AA/ljs enclosures

cc: DW 19-147 Service list electronically

\hawe02 HAWC-Data Legal HAWC\DW-19-147 Financing Pet for SNH Water Project Correspondence Letter to Atty Tuomala with data request answers set 2 12-9-19 docx

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING

ANSWERS TO STAFF DISCOVERY REQUEST – SET 2

ANSWERS

Date request received: 11/25/2019
Staff 2-1
Date of Response: 12/09/2019
Witness: Charles Lanza and
Stephen St. Cyr

Staff 2-1

Reference Company response to Staff 1-2, Exhibit 1-2 – Regional Water Cost Summary Sheet:

- a) The Project Total indicated on Exhibit 1-2 appears to actually sum to an amount of \$4,881,065 instead of \$5,041,064; a difference of approximately \$160,000. Please explain.
- b) Exhibit 1-2 indicates that one of HAWC's Phase I Components is a "Westside Drive / Main St Contingency [sic] (15%)" for \$258,750.
 - i. Please provide further explanation regarding this project or line item as listed on Exhibit 1-2.
 - ii. The Company's original filing indicates that HAWC will be undertaking a main replacement project on Shannon Road for the same estimated cost of \$258,750 (See Exhibit 2, Page 3 and Schedules SPS-8, 9, and 10.) Please clarify whether the project indicated in the Company's filing (Shannon Road) for \$258,750 is one and the same as the item indicated on Exhibit 1-2 (Westside Drive / Main St Contingency) for the same amount.
- c) The HAWC Construction & Contingency CIAC Tax line item indicated on Exhibit 1-2 as \$929,813 actually calculates to an amount of \$886,613 (\$3,283,750 @ 27%); a difference of \$43,200. Please explain. (Note: \$43,200 ÷ 27% = \$160,000. See (a))
- d) Exhibit 1-2 indicates a CIAC Tax amount of \$151,882 relative to the "Shannon Road Water Main (bid by Salem)" project:
 - i. It appears this would indicate that the Town of Salem will be undertaking this project at a cost of \$562,526 (\$151,882 ÷ 27%) and then contributing it to HAWC. Please clarify and explain this project as it pertains to HAWC.
 - ii. Please confirm that HAWC will be responsible for paying the CIAC Tax if this project is, in fact, intended to be a contribution from the Town of Salem.
 - iii. The Company's original filing appears to indicate that HAWC (not the Town of Salem) will be responsible for the construction of the Shannon Road project for an estimated cost of \$258,750 (See Exhibit 2, Page 3 and Schedules SPS-8, 9, and 10.) Please clarify and explain.
- e) Exhibit 1-2 indicates a CIAC Tax amount of \$123,120 relative to an "East Road Water Main (bid by Plaistow)" project. It would appear this indicates that the Town of Plaistow will be undertaking this project at a cost of \$456,000 (\$123,120 ÷ 27%) and then contributing it to HAWC.
 - i. Please confirm and explain.

 Please confirm that HAWC will be responsible for paying the CIAC Tax if this project is, in fact, intended to be a contribution from the Town of Plaistow.

Response 2-1:

- a) There is an error in the 1-2 Exhibit. The correct Cost Refinement is attached. The Project Total is \$4,847,227.
- b) (i) This line item is a contingency for a portion of the SNHRWP that HAWC will own and operate. Our Engineering consultant, Weston and Sampson carried 15% for unforeseen items related to the Main St. PRV Improvements and Westside Drive Pump Station. See attached for the updated Exhibit 1-2.
 - (ii) This is in error. The \$258,750 is as noted in b(i) above. The Shannon Rd. costs are estimated based on the percentage of the project that HAWC will own which is approximately 65% of the total of \$752,542.50. There was also a 15% contingency added on the \$752,542.50.
- c) Per our engineering Consultant this was a calculation error. See the revised Exhibit 1-2 dated 11/27/19. The total is \$891,677 (\$3,292,750 x 27.08%).
- d) (i) Approximately 65% of the Shannon Road Water Project water mains are being contributed to the Company by the Town of Salem as part of SNHRWP. The revised CIAC Tax is \$149,285 is as follows: ((752542.5*0.65*1.15)-(752542.5*0.65*1.15)/25*0.5)*0.2708 Where project cost is \$752,542.50 65% is the percentage of the contract amount to be provided to HAWC from Salem. 25 years is the tax depreciable life, 15% is the percentage of contingency included in calculation. 27.08% is the percent estimated to incur a CIAC tax liability.
 - (ii) HAWC is the party receiving the contributed plant. Therefore, HAWC believes it is responsible for any CIAC Tax under the current law.
 - (iii) The Shannon Rd. project is nearing completion and was completed by the Town of Salem. The portion of the Shannon Rd. project being contributed to HAWC is estimated at \$562,526. Exhibit 2 incorrectly stated the Project Cost of \$258,750. The \$258,750 is contingency for the Westside Dr. and PRV projects.
- e) (i) The Shannon Rd. project is nearing completion and was completed by the Town of Salem. The portion of the Shannon Rd. project being contributed to HAWC is estimated at \$562,526. Exhibit 2 incorrectly stated the Project Cost of \$258,750. The \$258,750 is contingency for the Westside Dr. and PRV projects.
 - (ii) HAWC is the party receiving the contributed plant. Therefore, HAWC believes it is responsible for any CIAC Tax under current tax law.

| 77 | Nov- | 10 |
|-------|-------|----|
| Z / - | IVOV- | 19 |

| Water System | Phase I Component | SNHRW F | Phase Cost |
|--------------|---|---------|--------------|
| HAWC | Chloramine Conversion (see separate breakout of costs) | \$ | 1,240,000 |
| | Westside Drive Pump Station | \$ | 1,210,000 |
| | Main St. PRV Improvements | \$ | 575,000 |
| | Westside Drive/Main St Contingnecy (15%) | \$ | 267,750 |
| | HAWC Construction & Contingnecy Subtotal* | \$ | 3,292,750 |
| | Loan Requests: | | |
| | CIAC Tax (27.08%) | | |
| | HAWC Construction & Contingency (based on above subtotal) | \$ | 891,677 |
| | Shannon Road Water Main (bid by Salem) | \$ | 149,285 |
| | East Road Water Main (bid by Plaistow) | \$ | 121,015 |
| | MSDC Fee | \$ | 392,500 |
| | | | |
| | Project Total | \$ | 4,847,227 |
| | Grant Request Total | \$ | 3,292,750 |
| | Loan Request Total | \$ | 1,554,477 |

EXHIBIT 2

CHLORAMINES CONVERSION

PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|----------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$473,333.33 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$246,666.61 |
| 320 | Water Treatment (filters etc.) | \$396,666.66 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 4", 3", and 2" piping | \$123,333.40 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters 50 customers x \$350 per customer | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | \$0.00 |
| Total | | \$1,240,000.00 |

MAIN ST. PRESSURE REDUCING STATION PROJECT

PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|--------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$310,000.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$250,000.00 |
| 320 | Water Treatment (filters etc.) | \$0.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 12", 8", and 6" piping | \$15,000.00 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | \$0.00 |
| Total | | \$575,000.00 |

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SHANNON RD. WATERMAIN PROJECT

PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|--------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$0.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$0.00 |
| 320 | Water Treatment (filters etc.) | \$0.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 12", 8", and 6" piping | \$542,526.00 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants (includes | |
| | installation) | \$20,000.00 |
| 339 | Miscellaneous (not otherwise included) | \$0.00 |
| Total | | \$562,526.00 |

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WESTSIDE DR. BOOSTER STATION & TREATMENT FACILITY PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|----------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$20,000.00 |
| 304 | Pump House and Site Work | \$475,000.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$390,000.00 |
| 320 | Water Treatment (filters etc.) | \$250,000.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 4", 3", and 2" piping | \$15,000.00 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | \$60,000* |
| Total | | \$1,210,000.00 |

^{*}Past HAWC Costs to be Reimbursed under this contract

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HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 2

ANSWERS

Date request received: 11/25/2019

Staff 2-2

Date of Response: 12/09/2019

Witness: Charles Lanza and

Stephen St. Cyr

Staff 2-2

Reference Company responses to Staff 1-2 and 1-13: Based on the Company's response to Staff 1-5 in DW 19-136, it now appears the CIAC Tax amount should be \$1,139,113, as follows: $((\$3,283,750 - [\$3,283,750 \times (1/25) \times .5]) \div (1 - 0.2724)) - \$3,283,750 = \$1,139,113$.

- a) Please indicate if the Company concurs.
- b) Please explain how this will affect the proposed CIAC Tax financing from the DWGTF.

Response 2-2:

- a) Staff 1-5 in DW 19-136 assumes Plant is being contributed and the Developer is paying the CIAC Tax. In this case, DWGTF is contributing cash and is not paying the CIAC Tax. DWGTF may loan the company the money for the CIAC Tax but it is not being contributed as CIAC. In DW 19-136, the calculation for CIAC Tax does not include depreciation when Land or Cash is being contributed. Based on this, the CIAC tax would be \$3,292,750 x 27.08% = \$891,677
- b) Based on the Company's response to 2-2-b, there will be no effect to the proposed CIAC Tax financing from DWGTF. Please note. The grant letter from DWGTF shows a total grant of \$3,283,750 which is \$9,000 less than our above calculations. Since many of our construction costs were budgeted estimates, we believe the \$9,000 difference will be incorporated in the contractual contingencies.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 2

ANSWERS

| Date request received: 11/25/2019 | Date of Response: 12/09/2019 |
|-----------------------------------|---------------------------------|
| Staff 2-3 | Witness: John Sullivan, Charles |
| | Lanza and Stephen St. Cyr |

Staff 2-3

Reference Company responses to Staff 1-1, 1-4, and 1-18: Based on the Company's responses, it appears HAWC's proposed financing with Pentucket Bank is tentative until, at least, the DWGTF Commission makes a final determination relative to the MSDC portion of the requested financing.

- a) Please confirm and/or explain.
- b) Given the current tentative nature of the proposed Pentucket loan, please explain why it would be in the public interest for the Commission to grant approval for this financing in accordance with RSA 369 at this time.
- c) Has the DWGTF Commission established a firm date in either November or December for its consideration of the proposed MSDC financing? If yes, please provide that date.

Response 2-3:

- a) You are correct.
- b) It is the Company's intent to pursue the State loan for any CIAC tax incurred. The State has yet to make a determination on whether or not they will loan the funds to the Company. As such, the Company is prepared to borrow the funds from Pentucket Bank if the State does not do so. It is in the public interest for the project and the related financing to go forward. HAWC's ability to access water from Manchester provides long term security of safe and adequate water supply.
- c) At this time, there is no firm date in December for consideration of the MSDC financing.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 2

ANSWERS

Date request received: 11/25/2019

Staff 2-4

Date of Response: 12/09/2019

Witness: Charles Lanza

Staff 2-4

Reference Company response to Staff 1-5: Based on the Company's response, should not the \$60,000 amount be recorded as part of the cost of the Atkinson Tank project instead of the Westside Drive Booster Station and Treatment Facility project. Please confirm and/or explain.

Response 2-4:

The company had requested reimbursement under the Atkinson Tank Project and DES advised the Company to request them under H1 Westside Contract.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 2

ANSWERS

Date request received: 11/25/2019
Staff 2-5

Date of Response: 12/09/2019
Witness: John Sullivan

Staff 2-5

Reference Company response to Staff 1-10:

- a) Please confirm that the shareholder's \$500,000 equity contribution made in 2019 pertained to the MSDC charge.
- b) Did the shareholder make any other equity contributions to the Company in 2019?
- c) Does the Company anticipate that the shareholder will make any further equity contributions during the remainder of 2019?

Response 2-5:

- a) The \$500,000 is part of the shareholder's commitment to contribute a total of \$750,000 over the next 3 years in Additional Paid in Capital.
- b) No
- c) Not determined at this time.

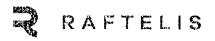
SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study - Town of Salem

Final Report / June 27, 2019







June 27, 2019

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth, NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study - Town of Salem

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute
 costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one
 community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for the Town of Salem. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox
Manager

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1.0BJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Town of Salem's portion of the SNHRWI.

The charges to be calculated through this study include the following:

- Develop a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services:
- Develop a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers;
- A rate of return applied to the utility's investment in these assets; and
- A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Derry, of approximately 300,000 gallons per day, will be assessed at a rate of \$2.55 per one hundred cubic feet (Ccf). Table 1 presents the test year full cost components for Salem. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| | 可带的在 数据 |
|--|----------------|
| Operational \$ | 1,060,852 |
| Buildings | 58,371 |
| Capital Projects | 586,669 |
| Administrative and General Expenses | 1,377,480 |
| MSDC Charges | 76,885 |
| Additional Support | 57,500 |
| Metering Building @ Derry Town Line | 22,716 |
| Metering Pit on Route 111 for Salem to PEU | 2,333 |
| Metering Building at Salem Town Line | 4,103 |
| Rate of Return | 716,143 |
| Depreciation | 25,590 |
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Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with Town Staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| | Estato do Otto de La composição de la co | 这种的首 | Total State | and a second | 情性對抗大使用 |
|--|--|------|-------------|--------------|----------|
| Operational | \$ 1,000,494 | \$ | 27,102 | \$ | 33,256 |
| Buildings | 58,079 | | 292 | | - |
| Capital Projects | 583,736 | | 2,933 | | - |
| Administrative and General Expenses | 1,326,138 | | 24,489 | | 26,853 |
| MSDC Charges | 76,500 | | 384 | | <u>.</u> |
| Additional Support | 57,213 | | 288 | | - |
| Metering Building @ Derry Town Line | 22,602 | | 114 | | - |
| Metering Pit on Route 111 for Salem to PEU | 2,322 | | 12 | | - |
| Metering Building at Salem Town Line | 4,083 | | 21 | | - |
| TRINSALTERATE | | | | | |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs

that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from the Town's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| | | | 194 GO | MEMORITA I | dam (S) | |
|--------------------------------------|---------------|--------------|--------|------------|---------|---------|
| Operational | \$ 267,724 | \$ 89,064 | \$ | 371,429 | \$ | 272,277 |
| Buildings | 19,360 | - | | - | | 38,719 |
| Capital Projects | 262,681 | 321,055 | | - | | |
| Administrative and General Expenses | 759,533 | 566,604 | | - | | - |
| MSDC Charges | | - | | - | | 76,500 |
| Additional Support | 25,746 | 31,467 | | - | | - |
| Metering Building @ Derry Town Line | 10,171 | 12,431 | | - | | - |
| Metering Pit on Route 111 | 1,045 | 1,277 | | - | | - |
| Metering Building at Salem Town Line | 1,837 | 2,246 | | - | | - |
| 还有完整公司的是特别是"新疆"的 | NY SOLDY III | en geralet d | twy. | | | 対映数字管 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for Salem's calculated depreciation and rate of return.

Finally, since Salem will be providing wholesale wheeling services to both HAWC and Windham, a determination must be made on whether the calculated wholesale rates should be different, or if both entities should be assessed the same wholesale rate, making the assumption that all customers classified as wholesale would fit into the same class. In the case of the dynamics of how Salem's system will be utilized by Windham and HAWC, it was determined that Windham will utilize much less of Salem's core system. Due to this, many of Salem's core system assets and costs were excluded from the calculation of Windham's rate for wheeling service.

The following table (Table 4) presents the final rate calculations for HAWC and Windham.

Table 4: Calculation of Wholesale Rate (per Ccf)

| Cost of Service | | |
|------------------------|---------------------|---------------|
| Operating Expenses | \$ 332,960 | \$ 225,062 |
| Rate of Return | 36,9 4 8 | 29,558 |
| Depreciation | 2,393 | 1,915 |
| Total: Cost of Service | \$ 372,301 | \$ 256,535 |
| Estimated Flow (Ccf) | 121,992 | 97,594 |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| | | | | | nctional Categori | es |
|--|----------|--|---|-------------------------|----------------------|----------------------|
| erations and Maintenance Expense Operational | | | Functional <u>Category</u> | General <u>Water</u> | Fire Service | Custome Service |
| Small Tools & Equipment | \$ | 10,829 | General Water | 99.5% | 0.5% | 0.0% |
| Gas & Oil | * | 21,714 | General Water | | | |
| Gravel/Sand | | | | 99.5% | 0.5% | 0.0% |
| Resurfacing | | 12,084 | General Water | 99.5% | 0.5% | 0.0% |
| | | 26,559 | General Water | 99.5% | 0.5% | 0.0% |
| Chemicals | | 62,016 | General Water | 99.5% | 0.5% | 0.0% |
| Tubing and Parts | | 33,256 | Customer Service | 0.0% | 0.0% | 100.0% |
| Safety | | 1,132 | General Water | 99.5% | 0.5% | 0.0% |
| Contracted Services | | 132,116 | General Water | 99.5% | 0.5% | 0.0% |
| Water Samples/Lab Services | | 51,858 | General Water | 99.5% | | 0.0% |
| Purchase of Water | | | | | 0.5% | |
| | | 373,295 | General Water | 99.5% | 0.5% | 0.0% |
| Meters/Replacement | | - | Customer Service | 0.0% | 0.0% | 100.0% |
| Hydrants | | 22,186 | Hydrants | 0.5% | 99.5% | 0.0% |
| Pipe Replacement | | 16,478 | General Water | 99.5% | 0.5% | 0.0% |
| Electricity | | 174,405 | General Water | 99.5% | 0.5% | 0.0% |
| Other Utilities | | 122,189 | General Water | 99.5% | 0.5% | 0.0% |
| Equipment | | 122,105 | General Water | | | |
| • • | | 770 | | 99.5% | 0.5% | 0.0% |
| Water Department Equipment | | 735 | General Water | 99.5% | 0.5% | 0.0% |
| ubtotal: Operational | \$ | 1,060,852 | | \$ 1,000,494 | \$ 27,102 | \$ 33 |
| tuildings | | 4.000 | | | | |
| Cleaning Services | \$ | 4,080 | General Water | 99.5% | 0.5% | 0.0% |
| Building Maintenance | | 30,654 | General Water | 99.5% | 0.5% | 0.0% |
| Heat | | 23,637 | General Water | 99.5% | 0.5% | 0.0% |
| ubtotal: Buildings | \$ | 58,371 | | \$ 58,079 | \$ 292 | \$ |
| apital Projects | | | | | | |
| Engineering Services | \$ | 16,854 | General Water | 99.5% | 0.5% | 0.0% |
| Building Improvements | , | 51,595 | General Water | 99.5% | 0.5% | 0.0% |
| Water - Vehicles | | 51,595 | General Water | | | |
| Improvements | | | | 99.5% | 0.5% | 0.0% |
| | | 60,624 | General Water | 99.5% | 0.5% | 0.0% |
| DBA Projects *ubtotal: Capital Projects | <u>-</u> | 406,000 586,669 | General Water | \$ 583,736 | 0.5% \$ 2,933 | 0.0% |
| pecial Articles Engineering Services Water Improvements | \$ | - | General Water General Water | 99.5% 99.5% | 0.5% 0.5% | 0.0% |
| ubtotal: Special Articles | \$ | - | | \$ - | \$ - | \$ |
| dministrative and General Expenses Regular Pay | \$ | 494,653 | Total O&M | 05.204 | | |
| Temporary Pay | 7 | | | 96.3% | 1.8% | 1.9% |
| | | 51,054 | Total O&M | 96.3% | 1.8% | 1.9% |
| Overtime Pay | | 76,276 | Total O&M | 96.3% | 1.8% | 1.9% |
| Employee Retirement Benefits | | 9 47 | Total Q&M | 96.3% | 1.8% | 1.9% |
| Stand-By Pay | | 7,110 | Total O&M | 96.3% | 1.8% | 1.9% |
| Retirement | | 71,852 | Total O&M | 96.3% | 1.8% | 1.9% |
| Disability Insurance | | 4,556 | Total O&M | 96.3% | 1.8% | 1.9% |
| Workers' Compensation | | 23,316 | Total O&M | | | |
| | | | | 96.3% | 1.8% | 1.9% |
| FICA-Social Security | | 46,243 | Total O&M | 96.3% | 1.8% | 1.9% |
| Health Insurance | | 208,048 | Total O&M | 96.3% | 1.8% | 1.9% |
| Unemployment Compensation | | 681 | Total O&M | 96.3% | 1.8% | 1.9% |
| Life Insurance | | 1,931 | Total O&M | 96.3% | 1.8% | 1.9% |
| Dental Insurance | | 7,384 | Total O&M | 96.3% | 1.8% | 1.9% |
| Clothing Allowance | | 6,268 | Total O&M | 96.3% | 1.8% | 1.9% |
| | | | | | | |
| Office Supplies | | 537 | Total O&M | 96.3% | 1.8% | 1.9% |
| Legal Services | | 10,616 | Total O&M | 96.3% | 1.8% | 1.9% |
| Audit | | 2,602 | Total O&M | 96.3% | 1.8% | 1.9% |
| Membership & Publications | | 1,430 | Total O&M | 96.3% | 1.8% | 1.9% |
| Printing and Binding | | 5,485 | Total O&M | 96.3% | 1.8% | 1.9% |
| Medical Exams/Hiring Expenses | | 344 | Total O&M | 96.3% | 1.8% | 1.9% |
| Food | | 4,110 | Total O&M | 96.3% | 1.8% | |
| Equipment Rental | | | | | | 1.9% |
| | | 26,034 | Total O&M | 96.3% | 1.8% | 1.9% |
| Telephone | | 30,392 | Total O&M | 96.3% | 1.8% | 1.9% |
| Postage | | 26,802 | Total O&M | 96.3% | 1.8% | 1.9% |
| Meetings and Training | | 4,840 | Total O&M | 96.3% | 1.8% | 1.9% |
| | | 90 | Total O&M | 96.3% | 1.8% | 1.9% |
| Radio Maintenance | | | Total O&M | | | |
| Radio Maintenance Vehicle Maintenance | | | | 96.3% | 1.8% | 1.9% |
| Vehicle Maintenance | | 13,987 | | | | 1.9% |
| Vehicle Maintenance General Liability | | 13,987 18,903 | Total O&M | 96.3% | 1.8% | |
| Vehicle Maintenance General Liability Fleet Insurance | | 13,987 18,903 5,034 | Total Q&M Total Q&M | 96.3% | 1.8% | 1.9% |
| Vehicle Maintenance General Liability | | 13,987 18,903 | Total O&M | | | 1.9% |
| Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge Property Insurance | | 13,987 18,903 5,034 | Total Q&M Total Q&M | 96.3% | 1.8% 1.8% | 1.9% 1.9% |
| Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge Property Insurance | | 13,987 18,903 5,034 210,477 14,723 | Total O&M Total O&M Total O&M Total O&M Total O&M | 96.3% 96.3% 96.3% | 1.8% 1.8% 1.8% | 1.9% 1.9% 1.9% |
| Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge | | 13,987 18,903 5,034 210,477 | Total O&M Total O&M Total O&M | 96.3% 96.3% | 1.8% 1.8% | 1.9% 1.9% |

| Annual Expense | <u>\$</u> | 76,885 | General Water | ┚┖ݐ | 99.5% | L | 0.5% | <u> </u> | 0.0% |
|--|-----------|--------|---------------|------|--------|----|------|----------|------|
| Subtotal: MSDC Charges | \$ | 76,885 | | \$ | 76,500 | \$ | 384 | \$ | |
| Additional Support | | | | | | | | | |
| FTE for support of new water flows | \$ | 30,000 | General Water | ם ∟. | 99.5% | | 0.5% | | 0.0% |
| FTE for additional admin support | | 27,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Additional Support | \$ | 57,500 | | \$ | 57,213 | \$ | 288 | \$ | |
| Metering Building @ Derry Town Line | | | | | | | | | |
| PRV | .\$ | 1,600 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chemical Bulk Tank | | 3,000 | General Water | 7 🗆 | 99.5% | | 0.5% | 1 | 0.0% |
| Chem Metering Pump (NaOH) | | 200 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chemicals (NaOH) | | 4,058 | General Water | 7 | 99.5% | | 0.5% | | 0.0% |
| Chloramine Pump Package System | | 1,500 | General Water |] [| 99.5% | | 0.5% | | 0.0% |
| Ammonia Analyzer | | 760 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chemicals (Chlorine) | | 3,225 | General Water |] [| 99.5% | | 0.5% | | 0.0% |
| Chemicals (Ammonia) | | 5,835 | General Water |] [| 99.5% | | 0.5% | | 0.0% |
| Mag-meter | | 833 | General Water | | 99.5% | | 0.5% | | 0.0% |
| SCADA Monitoring & Equipment | | 1,500 | General Water | | 99.5% | ļ | 0.5% | | 0.0% |
| Electricity | | 204 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ | 22,716 | | \$ | 22,602 | \$ | 114 | \$ | |
| Metering Pit on Route 111 for Salem to PEU | | | | | | | | | |
| Mag Meter | \$ | 833 | General Water | 7 🗀 | 99.5% | | 0.5% | Γ | 0.0% |
| SCADA Monitoring & Equipment | | 1,500 | General Water | 7 | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ | 2,333 | | \$ | 2,322 | \$ | 12 | \$ | |
| detering Building at Salem Town Line | | | | | | | | | |
| PRV | \$ | 1,600 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Mag Meter | | 833 | General Water | | 99.5% | | 0.5% | | 0.0% |
| SCADA Monitoring | | 1,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Electricity | | 170 | General Water | | 99.5% | L | 0.5% | | 0.0% |
| Subtotal: Metering Bullding at Salem Town Line | \$ | 4,103 | | \$ | 4,083 | \$ | 21 | \$ | |
| Contingency | \$ | - | General Water | 7 [| 99.5% | | 0.5% | · | 0.0% |
| Subtotal: Contingency | \$ | - | | \$ | - | \$ | - | \$ | |
| al: Operating & Maintenance Expenses | | | | | | _ | | | |

| M Expenses | | | | Base | Extra Cap. | ost Drivers Wholesale | Retai |
|--|----|--|---|--|---|--|--|
| Operational | | | | P494 | Exua Cap. | TTIIVIESAIC | Retai |
| Small Tools & Equipment | \$ | 10,775 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Gas & Oil | * | 21,605 | | | | | |
| Gravel/Sand | | 12,023 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Resurfacing | | | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| | | 26,426 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Chemicals | | 61,706 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Tubing and Parts | | - | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Safety | | 1,126 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Contracted Services | | 131,455 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Water Samples/Lab Services | | 51,598 | Treatment | 33.3% | | | |
| Purchase of Water | | 371,429 | Purchased Water | | 0.0% | 0.0% | 66.7% |
| Meters/Replacement | | 3/1,429 | | 0.0% | 0.0% | 100.0% | 0.0% |
| | | • | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Hydrants | | 111 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Pipe Replacement | | 16,395 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Electricity | | 173,533 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Other Utilities | | 121,578 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Equipment | | , | Production & Pumping Costs | 45.0% | 55.0% | | |
| Water Department Equipment | | 731 | | 45.076 | | 0.0% | 0.0% |
| | - | | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Subtotal: Operational | \$ | 1,000,494 | | \$ 267,724 | \$ 89,064 | \$ 371,429 | s 27 |
| Buildinas | | | | | | | |
| Cleaning Services | \$ | 4,059 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Building Maintenance | • | 30,501 | Treatment | | 0.0% | | |
| Heat | | | | 33.3% | | 0.0% | 66.7% |
| | | 23,519 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| ubtotal: Buildings | \$ | 58,079 | | \$ 19,360 | 5 - | s - | \$ 3 |
| Capital Projects | | | | | | | |
| Engineering Services | \$ | 16,770 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Building Improvements | * | | | | | | |
| | | 51,337 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Water - Vehicles | | 51,337 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Improvements | | 60,321 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| DBA Projects | | 403,970 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Subtotal: Capital Projects | \$ | 583,736 | | | s 321,055 | \$ - | \$ |
| | | | | | | | |
| ioecial Articles Engineering Services | ş | | Production & Pumping Costs | AE DOL | EE 00/ | 0.00 | 0.001 |
| | , | • | | 45.0% | 55.0% | 0.0% | 0.0% |
| Water Improvements | _ | | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Subtotal: Special Articles | \$ | - | | \$ - | \$ - | \$. | \$ |
| dministrative and General Expenses | | | | | | | |
| Regular Pay | \$ | 476.216 | Total C&M | 57.3% | 42.7% | 0.0% | 0.0% |
| Temporary Pay | * | | | | | 0.070 | |
| | | | | | | | |
| | | 49,151 | Total O&M | 57.3% | 42.7% | 0.0% | 0.0% |
| Overtime Pay | | 73,433 | Total O&M Total O&M | 57.3% | 42.7% | 0.0% | 0.0% |
| Overtime Pay Employee Retirement Benefits | | 73,433 912 | Total Q&M Total Q&M Total Q&M | 57.3% 57.3% | 42.7% 42.7% | 0.0% | |
| Overtime Pay Employee Retirement Benefits Stand-By Pay | | 73,433 | Total Q&M Total Q&M Total Q&M | 57.3% 57.3% | 42.7% | 0.0% 0.0% 0.0% | 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement | | 73,433 912 | Total O&M Total O&M | 57.3% | 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay | | 73,433 912 6,845 69,174 | Total O&M | 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance | | 73,433 912 6,845 69,174 4,387 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation | | 73,433 912 6,845 69,174 4,387 22,447 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security | | 73,433 912 6,845 69,174 4,387 22,447 44,519 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 | Total O&M | 57,3% 57,3% 57,3% 57,3% 57,3% 57,3% 57,3% 57,3% 57,3% 57,3% 57,3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Clothing Allowance | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 | Total O&M | \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% \$7,3% | 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 | Total O&M | 57, 3% 57, 3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 | Total O&M | \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 | Total O&M | \$7,3% \$7,3% \$7,3% \$7,3% \$57,3% \$7,3% | 42,7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 | Total O&M | \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 | Total O&M | \$7,3% \$7,3% \$7,3% \$7,3% \$57,3% \$7,3% | 42,7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 | Total O&M | \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 | Total O&M | \$7,3% \$7,3% \$7,3% \$7,3% \$57,3% \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 | Total O&M | \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 | Total O&M | \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Readio Maintenance | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 3,957 25,063 29,259 25,803 4,659 86 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance General Libbility | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 | Total O&M | \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Filest Insurance | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 4,847 | Total O&M | \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge | | 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 | Total O&M | \$7,3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Filect Insurance | | 73,433 912 6,845 69,174 43,87 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 86 13,466 18,198 4,647 20,632 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge Property Insurance | | 73,433 912 5,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 3,957 25,063 4,659 25,803 4,659 4,847 202,632 14,174 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge | | 73,433 912 6,845 69,174 43,87 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 86 13,466 18,198 4,647 20,632 | Total O&M | \$7.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |

| Annual Exepense | <u>\$</u> | 76,500 | Retail Only | _ | 0.0% | <u>L</u> | 0.0% | <u></u> | 0.0% | | 100.0% |
|--|---------------|----------|----------------------------|----|-----------|----------|-----------|--|---------|----|--------|
| Subtotal: MSDC Charges | \$ | 76,500 | | \$ | - | \$ | • | \$ | | \$ | 76,5 |
| Additional Support | | | | | | | | | | | |
| FTE for support of new water flows | \$ | 29,850 | Production & Pumping Costs | | 45.0% | I | 55.0% | | 0.0% | | 0.0% |
| FTE for additional admin support | | 27,363 | Production & Pumping Costs | L | 45.0% | <u> </u> | 55.0% | Ĺ | 0.0% | L | 0.0% |
| Subtotal: Additional Support | \$ | 57,213 | | \$ | 25,746 | \$ | 31,467 | \$ | - | \$ | |
| Meterina Buildina @ Derry Town Line | | | | | | | | | | | |
| PRV | \$ | 1,592 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemical Bulk Tank | | 2,985 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chem Metering Pump (NaOH) | | 199 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemicals (NaOH) | | 4,038 | Production & Pumping Costs | | 45.0% | | 55.0% | I | 0.0% | | 0.0% |
| Chloramine Pump Package System | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Ammonia Analyzer | | 756 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemicals (Chlorine) | | 3,209 | Production & Pumping Costs | | 45.0% | | 55.0% | l | 0.0% | | 0.0% |
| Chemicals (Ammonia) | | 5,806 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Mag-meter | | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring & Equipment | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Electricity | | 203 | Production & Pumping Costs | | 45.0% | L | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ | 22,602 | | \$ | 10,171 | \$ | 12,431 | \$ | - | 5 | |
| Meterino Pit on Route 111 for Salem to PEU | | | | | | | | | | | |
| Mag Meter | ş. | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring & Equipment | | 1,493 | Production & Pumping Costs | | 45.0% | Ĩ. | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ | 2,322 | | 5 | 1,045 | \$ | 1,277 | \$ | | \$ | |
| Metering Building at Salem Town Line | | | | | | | | | | | |
| PRV | \$ | 1,592 | Production & Pumping Costs | Ĺ | 45.0% | _ | 55.0% | | 0.0% | | 0.0% |
| Mag Meter | | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Electricity | | 169 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Metering Building at Salem Town Line | \$ | 4,083 | | 5 | 1,837 | \$ | 2,246 | 5 | | 5 | |
| Contingency | | | | | | | | | | | |
| | \$ | - | Production & Pumping Costs | | 45.0% | | 55.0% | Ĺ <u>. </u> | 0.0% | | 0.0% |
| Subtotal; Contingency | \$ | • | | \$ | • | \$ | | \$ | - | \$ | |
| | _ | | | _ | | _ | | _ | | | |
| al: Operating & Maintenance Expenses | \$ 3 | ,131,166 | | \$ | 1,348,097 | \$ | 1,024,144 | \$ | 371,429 | \$ | 387,4 |

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 2

ANSWERS

Date request received: 11/25/2019

Staff 2-6

Date of Response: 12/09/2019

Witness: Charles Lanza

Staff 2-6

Reference Company response to Staff 1-21:

- a) The column headings and totals for the tables contained in the copy of the Raftelis report provided in the Company's response are illegible. Please provide a copy of that report with legible table column headings and totals.
- b) The COSS for the Town of Salem dated November 30, 2018 appears to be a "draft" report. Did Raftelis subsequently issue a final report? If yes, please provide a copy of that report with legible table column headings and totals.
- c) If the Company's response to (b) is in the affirmative, will that report affect the rate that Salem will ultimately charge HAWC? Please explain. Will the Southern NH Project Agreement (Exhibit 8) be amended? Please explain.

Response 2-6:

- a) See Attached.
- b) Yes, see attached.
- c) Per the SIA, Salem will charge HAWC \$0.50 cents more per CCF than the combined rates charged to Salem by MWW and Derry for water usage. This calculates to \$3.05 per CCF. The draft report called for the charge to be \$3.09.

SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study – Hampstead Area Water Company

Final Report / June 27, 2019







June 27, 2019

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth, NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study - Hampstead Area Water Company

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for HAWC. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox

Manager

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1.0BJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Hampstead Area Water Company (HAWC) portion of the SNHRWI.

The charges to be calculated through this study include developing a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers;
- A rate of return applied to the utility's investment in these assets; and
- A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Salem, of approximately 250,000 gallons per day, will be assessed at a rate of \$3.06 per one hundred cubic feet (Ccf), which is draft and contingent on the finalizing of our similar report to Salem which presented the calculation of wholesale rates for HAWC as well as the Town of Windham. Table 1 presents the test year full cost components for HAWC. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| Source of Supply \$ | 396,052 |
|---|---------|
| Pumping Expenses | 284,516 |
| Water Treatment Expenses | 170,729 |
| Transmission and Distribution Expense | 83,991 |
| Customer Accounts Expense | 113,121 |
| Administrative and General Expenses | 504,818 |
| MSDC Charges | 64,070 |
| Additional Support | 55,000 |
| Chloramine Conversion (for 20 stations) | 66,367 |
| Shannon Road Booster Station | 11,593 |
| Rate of Return | 499,547 |
| Taxes Other Than Income | 159,664 |
| Income Taxes | 144,869 |
| CIAC | 219,204 |
| Depreciation | 500,470 |
| | |

Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with HAWC staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| CTICITICATION CONTRACTOR | 變變 c 当下 | IE WYSTY THE WAR | erinii? | STATE STATE | |
|--|---------|------------------|---------|--------------------|--------------------|
| Source of Supply | \$ | 394,071 | \$ | 1,980 | \$ - |
| Pumping Expenses | | 283,093 | | 1,423 | <u>.</u> |
| Water Treatment Expenses | | 169,875 | | 854 | - |
| Transmission and Distribution Expense | | 34,113 | | 2,252 | 47,626 |
| Customer Accounts Expense | | - | | - | 113,121 |
| Administrative and General Expenses | | 424,283 | | 3,134 | 77,401 |
| MSDC Charges | | 63,750 | | 320 | - |
| Additional Support | | 46,226 | | 341 | 8,433 |
| Chloramine Conversion (for 20 stations) | | 55,779 | | 412 | 10,176 |
| Shannon Road Booster Station | | 9,744 | | 72 | 1,778 |
| Rate of Return | | 393,149 | | 5,984 | 100,415 |
| Taxes Other Than Income | | 125,657 | | 1,912 | 32,094 |
| Income Taxes | | 114,013 | | 1,735 | 29,120 |
| CIAC | | 172,516 | | 2,62 6 | 44 ,062 |
| Depreciation | | 393,875 | | 5, 9 95 | 100,600 |
| LOSELLE EN PROPERTIE DE LA PRO | 小文件是有 | ged-boles | | | |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from HAWC's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| Source of Supply | \$ | 10,226 | \$ 12,499 | \$ | 371,346 | \$ | - |
|---|----|---------|--------------|----|---------|----|---------|
| Pumping Expenses | · | 127,392 | 155,701 | · | - | · | - |
| Water Treatment Expenses | | - | - | | - | | 169,875 |
| Transmission and Distribution Expense | | 21,668 | 12,445 | | - | | - |
| Customer Accounts Expense | | - | - | | - | | - |
| Administrative and General Expenses | | 132,565 | 150,340 | | - | | 141,378 |
| MSDC Charges | | - | - | | - | | 63,750 |
| Additional Support | | 20,802 | 25,424 | | - | | - |
| Chloramine Conversion (for 20 stations) | | 25,101 | 30,679 | | - | | - |
| Shannon Road Booster Station | | 4,385 | 5,359 | | - | | - |
| Rate of Return | | 216,442 | 156,206 | | - | | 20,501 |
| Taxes Other Than Income | | 69,179 | 49,926 | | - | | 6,553 |
| Income Taxes | | 62,768 | 45,300 | | - | | 5,945 |
| CIAC | | 94,976 | 68,544 | | - | | 8,996 |
| Depreciation | | 216,841 | 156,495 | | - | | 20,539 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for HAWC's calculated non-operating expenses such as its depreciation and rate of return.

The following table (Table 4) presents the final rate calculation that HAWC could assess the Town of Plaistow.

Table 4: Calculation of Wholesale Rate (per Ccf)

| Cost of Service Operating Expenses | \$ | 201,917 |
|---|----|-----------------------------|
| Rate of Return Depreciation Other Non-Operating | , | 141,372 52,380 85,516 |
| Total: Cost of Service | \$ | 481,185 |
| Estimated Flow (Ccf) | | 121,992 |
| | | |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| grations and Maintenance Eveness | | | Functional | | unctional Categori | |
|---|----------|--|--|---|--|---|
| erations and Maintenance Expense Source of Supply | | | Category | General <u>Water</u> | Fire <u>Service</u> | Custome Service |
| Operations | | | | | | |
| Operation Supervision and Engineering | \$ | - | General Water | 99.5% | 0.5% | 0.0% |
| Operation Labor and Expenses | | 4,832 | General Water | 99.5% | 0.5% | 0.0% |
| Purchased Water | | 373,213 | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | 23 | General Water | 99.5% | 0.5% | 0.0% |
| Rents | | | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ | 1,677 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Structures and Improvements | | 4,647 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Collecting and Impounding Reservoirs | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Lake, River, and Other Intakes | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Wells and Springs | | 11,660 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Infiltration Galleries and Tunnels | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Supply Mains | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Miscellaneous Water Source Plant | | - | General Water | 99.5% | 0.5% | 0.0% |
| ubtotal: Source of Supply | \$ | 396,052 | | \$ 394,071 | \$ 1,980 | \$ |
| umping Expenses Operations | | | | | | |
| Operation Supervision and Engineering | \$ | _ | General Water | 99.5% | 0.5% | 0.0% |
| Fuel for Power Production | • | _ | General Water | | | |
| | | - | | 99.5% | 0.5% | 0.0% |
| Power Production Labor and Expenses | | 4== | General Water | 99.5% | 0.5% | 0.0% |
| Fuel or Power Purchased for Pumping | | 177,913 | General Water | 99.5% | 0.5% | 0.0% |
| Purnping Labor and Expenses | | 23,050 | General Water | 99.5% | 0.5% | 0.0% |
| Expenses Transferred-Credit | | - | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | 16,254 | General Water | 99.5% | 0.5% | 0.0% |
| Rents | | • | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Structures and Improvements | | 31,112 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Power Production Equipment | | | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Pumping Equipment | | 36,187 | General Water | 99.5% | 0.5% | 0.0% |
| ubtotal: Pumping Expenses | \$ | 284,516 | | \$ 283,093 | \$ 1,423 | \$ |
| Unker Treek Francis | | | | | | |
| | | | | | | |
| Operations | | | | | | |
| Operations | ė | _ | Gonard Water | 99.50% | 0.504 | 0.00% |
| Operations Operation Supervision and Engineering | \$ | 10.061 | General Water | 99.5% | 0.5% | 0.0% |
| Operations Operation Supervision and Engineering Chemicals | \$ | 10,961 | General Water | 99.5% | 0.5% | 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses | \$ | 10,961 149,034 | General Water General Water | 99.5% 99.5% | 0.5% 0.5% | 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses | \$ | | General Water General Water General Water | 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses | \$ | | General Water General Water | 99.5% 99.5% | 0.5% 0.5% | 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance | | | General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering | \$ | | General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements | | 149,034 | General Water General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment | \$ | 149,034 | General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses | | 149,034 | General Water General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubbotal: Water Treatment Expenses | \$ | 149,034 | General Water General Water General Water General Water General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operations | \$ \$ | 149,034 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 5.5% 0.5% 5.5% 0.5% 5.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operation Supervision and Engineering | \$ | 149,034 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Authoratic Water Treatment Expenses ansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses | \$ \$ | 10,734 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 5.5% 0.5% 0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 0.0% \$ \$ 56.7% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses | \$ \$ | 149,034 - - 10,734 170,729 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 2.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 5.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses | \$ \$ | 10,734 170,729 13,300 16,564 | General Water Ceneral Water General Water General Water Ceneral Water Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 5.5% 0.5% 0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 100.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment utotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses | \$ \$ | 149,034 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 100.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ransmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Mescellaneous Expenses Miscellaneous Expenses | \$ \$ | 10,734 170,729 13,300 16,564 | General Water Ceneral Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ \$ 56.7% 0.0% 0.0% 100.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses Cansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents | \$ \$ | 149,034 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 100.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment subtotal: Water Treatment Expenses Fansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance | \$ \$ | 149,034 | General Water Ceneral Water General Water General Water General Water Customer Service Customer Service General Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 90.5% 90.5% 90.5% 90.5% 90.5% 90.5% 90.5% 90.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 56.7% 0.0% 0.0% 100.0% 100.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Supervision and Engineering | \$ \$ | 149,034 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 40.6% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Abbasis Water Treatment Expenses ansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water Ceneral Water General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 0.0% 0.0% 99.5% 99.5% 40.6% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 100.0% 100.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water Customer Service General Water Storage | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 40.6% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Authotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 0.0% 0.0% 99.5% 99.5% 40.6% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 100.0% 100.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses ansmission and Distribution Expense Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water Customer Service Customer Service General Water General Water General Water General Water Storage General Water | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 90.0% 90.0% 90.5% 99.5% 90.5% 90.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 |
| Operations Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment subtotal: Water Treatment Expenses ansmission and Distribution Expense Operations Operations Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 | General Water Customer Service General Water General Water General Water General Water Hydrants | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 0.0% 99.5% 40.6% 99.5% 100.0% 99.5% 100.0% 99.5% 100.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses Cansmission and Distribution Expense Operations Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 23,035 | General Water Storage General Water Hydrants Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,875 40.6% 99.5% 0.0% 0.0% 99.5% 99.5% 100.0% 99.5% 100.0% 99.5% 100.0% 99.5% 100.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ubtotal: Water Treatment Expenses Anasmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Meters | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 23,035 6,799 | General Water Customer Service General Water General Water General Water General Water General Water General Water Storage General Water Storage General Water Hydrants Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 0.0% 99.5% 40.6% 99.5% 99.5% 99.5% 100.0% 99.5% 0.5% 0.5% 0.0% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Autotal: Water Treatment Expenses Anansmission and Distribution Expense Operations Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Meters Maintenance of Hydrants | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 23,035 | General Water Storage General Water Hydrants Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 90.5% 90.5% 90.5% 90.5% 90.5% 90.0% 90.0% 90.5% 90.5% 90.5% 90.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 56.7% 0.0% 100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 |
| Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment wibtotal: Water Treatment Expenses transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services Maintenance of Meters | \$ \$ | 149,034 10,734 170,729 13,300 16,564 1,228 2,138 7,026 11,774 23,035 6,799 | General Water Customer Service General Water General Water General Water General Water General Water General Water Storage General Water Storage General Water Hydrants Customer Service Customer Service | 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 0.0% 99.5% 40.6% 99.5% 99.5% 99.5% 100.0% 99.5% 0.5% 0.5% 0.0% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |

| Customer Accounts Expense Operations | | | | | | | | | |
|--|------------------|------------------------|-----------------------------|--|----------------|----------------|------------|--|--------------|
| Supervision | \$ | | Customer Service | 1 — | 0.0% | | 0.007 | 1 | 100.0% |
| Meter Reading Expenses | • | 12,787 | Customer Service | ┥┝─ | 0.0% | } — | 0.0% | ┼ | 100.0% |
| Customer Records and Collection Expenses | | 100,334 | Customer Service | ┨┝ | 0.0% | 1- | 0.0% | | 100.0% |
| Uncollectible Accounts | | 100,554 | Customer Service | ┥ ├── | 0.0% | +- | 0.0% | ╁ | 100.0% |
| Miscellaneous Customer Accounts Expenses | | _ | Customer Service | ┫ ├ | 0.0% | | | 1 | |
| • | _ | | Customer Service | . L | 0.0% | I., | 0.0% | Ч_ | 100.0% |
| Subtotal: Customer Accounts Expense | \$ | 113,121 | | \$ | | \$ | - | \$ | 113,1 |
| Sales Expenses | | | | | | | | | |
| Operations | | | <u></u> | , _ | | | | _ | |
| Sales Expenses | * | | General Water | <u>ب</u> ا ل | 99.5% | ــــ | 0.5% | ــــــــــــــــــــــــــــــــــــــ | 0.0% |
| Subtotal: Sales Expenses | \$ | - | | \$ | - | \$ | - | \$ | |
| Administrative and General Expenses Operations | | | | | | | | | |
| Administrative and General Salaries | \$ | 16,542 | Total O&M | 1 [| 84.0% | r | 0.6% | 1 | 15.3% |
| Office Supplies and Other Expenses | , | 46,764 | Total O&M | ∮ ├ ─ | | | 0.6% | | |
| Administrative Expenses Transferred-Cr. | | 40,704 | Total O&M | ∮ ├─ | 84.0% | | | ├ | 15.3% |
| Outside Services Employed | | 250 165 | | ∤ | 84.0% | | 0.6% | - | 15.3% |
| Property Insurance | | 259,165 | Total O&M | l | 84.0% | | 0.6% | - | 15.3% |
| | | 75.224 | Total O&M | ∤ | 84.0% | | 0.6% | - | 15.3% |
| Injuries and Damages | | 35,731 | Total O&M | ┨┠━ | 84.0% | | 0.6% | ├ | 15.3% |
| Employee Pension and Benefits | | 85,838 | Total O&M | ┨┝ | 84.0% | ļ | 0.6% | ├ | 15.3% |
| Franchise Requirements | | 5,520 | Total O&M | ┨┝╍╸ | 84.0% | ļ <u>.</u> | 0.6% | — | 15.3% |
| Regulatory Commission Expenses | | 6,408 | Total O&M | ∤ | 84.0% | <u> </u> | 0.6% | ļ | 15.3% |
| Duplicate Charges Cr. | | | Total O&M | ↓ | 84.0% | <u> </u> | 0.6% | L | 15.3% |
| Miscellaneous Expenses | | 31,950 | Total O&M | 1 | 84.0% | - | 0.6% | <u> </u> | 15.3% |
| General Rents | | 16,900 | Total O&M | J L | 84.0% | | 0.6% | | 15.3% |
| Maintenance | | | | | | | | , | |
| Maintenance of General Plant Subtotal: Administrative and General Expenses | \$ \$ | - | Total O&M | 1 L_ | 84.0% | ــِـــ | 0.6% | <u> </u> | 15.3% |
| · | > | 504,818 | | \$ | 424,283 | \$ | 3,134 | \$ | 77,4 |
| MSDC Charges Annual Expense | \$ | 64,070 | General Water | 1 (| 99.5% | T | 0.5% | Ţ | 0.0% |
| Subtotal: MSDC Charges | <u>∟.¥</u> \$ | 64,070 | Octicial Water | ' <u>'</u> | 63,750 | <u> </u> | 320 | | 0.0% |
| • | * | 0 1,07 0 | | 7 | 03,730 | ٠ | 520 | 7 | |
| Additional Support FTE to support new water flows and chloramination | \$ | 55,000 | Total O&M | 1 | 84.0% | 1 | 0.6% | | 15.3% |
| Subtotal: Additional Support | \$ | 55,000 | 1000 0001 | ــــــا \$ | 46,226 | 5 | 341 | ; \$ | 8,43 |
| Chloramine Conversion (for 20 stations) | | | | | | | | | |
| Chloramine Pump Package System | 5 | 14,000 | Total O&M | 1 | 84.0% | | 0.6% | | 15.3% |
| Ammonia Analyzer | " | 15,200 | Total O&M | { | 84.0% | | 0.6% | | 15.3% |
| Chlorine cost | | 5,990 | Total O&M | ┤├ ─ | 84.0% | | | | |
| Ammonia cost | | | Total O&M | ∤ ├ - | | - | 0.6% | | 15.3% |
| Pump House Updates | ļ | 10,837 | | ∤ | 84.0% | | 0.6% | | 15.3% |
| | - | 20,000 | Total O&M | | 84.0% | | 0.6% | <u> </u> | 15.3% |
| Electricity for chemical system only | <u> </u> | 340 | Total O&M | ł L | 84.0% | <u> </u> | 0.6% | L | 15.3% |
| Subtotal: Chloramine Conversion (for 20 stations) | \$ | 66,367 | | \$ | 55,779 | \$ | 412 | \$ | 10,1 |
| Shannon Road Booster Station Pumps | r. | 2 500 | Tabl Cold | | 04.00/ | г—— | 0.606 | | 15 201 |
| Mag-meter | \$ | 3,500 | Total O&M Total O&M | | 84.0% | | 0.6% | \vdash | 15.3% |
| | | 833 | | | 84.0% | | 0.6% | | 15.3% |
| SCADA Monitoring & Equipment Electricity | <u> </u> | 1,500 | Total O&M | ! | 84.0% | | 0.6% | - | 15.3% |
| Subtotal: Shannon Road Booster Station | <u></u> | 5,760 11,593 | Total O&M | 」 <u></u> \$ | 84.0% 9,744 | ـــــــ \$ | 0.6% 72 | L | 15.3% 1,7 |
| | * | , | | 7 | 7,779 | • | /2 | * | 1,8. |
| Contingency | \$ | | Total O&M |] [| 84.0% | · · · · · | 0.6% | Γ- | 15.3% |
| Subtotal: Contingency | \$ | - | | \$ | - | \$ | | \$ | |
| al: Operating & Maintenance Expenses | \$ 1 | 1,750,257 | | <u> </u> | 1,480,934 | - | 10,789 | \$ | 258,53 |
| | | | | · | | • | , | , | , |
| nt in Service | 4 | 12.87 | | | | | | | |
| ngible Plan | | | | | | | | | |
| Intangible Plant - Franchise | \$ | 36,583 | Plant Investment |] [| 78.7% | | 1.2% | | 20.1% |
| total: Intangible Plan | \$ | 36,583 | | \$ | 28,791 | \$ | 438 | \$ | 7,39 |
| rce of Supply and Pumping | | | | | | | | | |
| Land and Land Rights | \$ | 76,185 | General Water | | 99.5% | Γ | 0.5% | | 0.0% |
| Stuctures & Improvements | * | 1,276,644 | General Water | | 99.5% | | 0.5% | - | 0.0% |
| Wells & Springs | | 921,763 | General Water | | 99.5% | | 0.5% | - | 0.0% |
| | | | | I | | | | | 0.0% |
| Supply Mains | | | | | | | | | |
| • • • | | 106,525 | General Water | | 99.5% | ├ | 0.5% | - | |
| Supply Mains Pumping Equipment <i>stotal: Source of Supply and Pumping</i> | | 1,656,980 4,038,098 | General Water General Water | | 99.5% | | 0.5% | | 0.0% |

| | | <u></u> | | | | | | |
|----------------|--|---|---|--|---|---|--|---|
| _ | | General Water | J 📖 | | l | 0.5% | <u> </u> | 0.0% |
| \$ | 735,971 | | \$ | 732,291 | \$ | 3,680 | \$ | • |
| | | | | | | | | |
| \$ | | | | | ļ | | ↓ | 0.0% |
| | | | | | ├ ── | | | 0.0% |
| | | | ∤ - | | | | | 100.0% |
| | | | l | | | | | 0.0% |
| | | | ╽├─ | | | | | 0.0% |
| | | Concide Water | <u></u> | | | | ۴ | 3,590,598 |
| * | 13,000,330 | | * | 7,307,517 | 7 | 130,007 | * | 3,350,350 |
| | 1 420 | Plant Investment | 1 — | 79 70% | | 1 204 | ı | 20.1% |
| • | | | ╽├─ | | | | | 20.1% |
| | | | ╽├─ | | | | | 20.1% |
| | | | | | | | | 20.1% |
| | | | ' 🕌 | | <u> </u> | <u>:</u> | | |
| * | 230,773 | | Þ | 201,647 | > | 3,072 | , | 51,554 |
| \$ 1 | 18,155,723 | | \$ | 14,288,750 | \$ | 217,467 | \$ | 3,649,506 |
| | | | | | | | | |
| \$ | 915 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| \$ | 915 | | \$ | | \$ | | \$ | 244 |
| | | | | | | | | |
| \$ | 1,905 | General Water | | 99.5% | | 0.5% | | 0.0% |
| • | 31,074 | General Water | | 99.5% | | 0.5% | | 0.0% |
| | 29,303 | General Water | | 99.5% | | 0.5% | | 0.0% |
| | 1,530 | General Water | | 99.5% | | 0.5% | | 0.0% |
| | 64,129 | General Water | L., | 99.5% | | 0.5% | | 0.0% |
| \$ | 127,941 | | \$ | 127,301 | \$ | 640 | \$ | - |
| | | | , , | | | | | |
| <u>\$</u> | 31,316 | General Water | ــــا ا | 99.5% | | 0.5% | L | 0.0% |
| \$ | 31,316 | | \$ | 31,159 | \$ | 157 | \$ | • |
| | | | | | | | | |
| \$ | 36,760 | Storage | [| 100.0% | | 0.0% | | 0.0% |
| | | General Water | l L | 99.5% | | 0.5% | | 0.0% |
| | | | | | | | | 100.0% |
| | | | | | | | ļ | 100.0% |
| | | | | | | | | 0.0% |
| - | | General Water | L | | | | <u> </u> | 0.0% |
| • | 322,004 | | 3 | 130,364 | • | 3,770 | ¥ | 128,444 |
| ė. | | Depreciation | - | 72 404 | | 0.00/ | r | 26.7% |
| • | 12 731 | | | | | | | 26.7% |
| | | | ├─ | | | | | 26.7% |
| | | | - | | | | | 26.7% |
| <u>-</u> | | | \$ | | 5 | | \$ | 4,717 |
| <u></u> | 500,470 | | _ | 362.317 | \$ | 4.748 | - | 133,405 |
| | | | | | | ., | | 333, 133 |
| * | 555, 5 | | * | | • | | * | |
| • | 200, 2 | | • | · | · | | • | |
| | · | <u></u> | _ | | , | | • | |
| , ; | 30,274 | Plant Investment | , | 78.7% | | 1.2% | | 20.1% |
| | 30,27 4 129,390 | Plant Investment Plant Investment | | 78.7% 78.7% | | 1.2% | | 20.1% |
| \$ * | 30,274 | | \$ | 78.7% | | | \$ | |
| \$ | 30,274 129,390 159,664 | Plant Investment | \$ | 78.7% 78.7% 125,657 | | 1,912 | \$ | 20.1% 32,094 |
| \$ \$ | 30,274 129,390 159,664 144,869 | | | 78.7% 78.7% 125,657 | \$ | 1,2% 1,912 0.5% | | 20.1% |
| \$ \$ | 30,274 129,390 159,664 144,869 | Plant Investment | <u> </u> | 78.7% 78.7% 125,657 99.5% 144,144 | \$ | 1,912 0.5% 724 | \$ | 20.1% 32,094 0.0% |
| \$ \$ | 30,274 129,390 159,664 144,869 | Plant Investment | | 78.7% 78.7% 125,657 | \$ | 1,2% 1,912 0.5% | \$ | 20.1% 32,094 |
| \$ \$ | 30,274 129,390 159,664 144,869 | Plant Investment | <u> </u> | 78.7% 78.7% 125,657 99.5% 144,144 | \$ | 1,912 0.5% 724 | \$ | 20.1% 32,094 0.0% |
| \$ \$ | 30,274 129,390 159,664 144,869 | Plant Investment | <u> </u> | 78.7% 78.7% 125,657 99.5% 144,144 269,802 | \$ | 1,912 1,912 0.5% 724 2,637 | \$ | 20.1% 32,094 0.0% |
| \$ \$ \$ | 30,274 129,390 159,664 144,869 144,869 304,533 | Plant Investment General Water | <u> </u> | 78.7% 78.7% 125,657 99.5% 144,144 | \$ | 1,912 0.5% 724 | \$ | 20.1% 32,094 0.0% |
| \$ \$ \$ | 30,274 129,390 159,664 144,869 144,869 304,533 | Plant Investment General Water Plant Investment | <u> </u> | 78.7% 78.7% 125,657 99.5% 144,144 269,802 | \$ \$ | 1,912 1,912 0.5% 724 2,637 | \$ | 20.1% 32,094 0.0% 32,094 |
| \$ \$ \$ | 30,274 129,390 159,664 144,869 144,869 304,533 | Plant Investment General Water Plant Investment | \$ \$ | 78.7% 78.7% 125,657 99.5% 144,144 269,802 78.7% | \$ \$ | 1,2% 1,912 0.5% 724 2,637 | \$ | 20.1% 32,094 0.0% 32,094 20.1% |
| \$ \$ \$ | 30,274 129,390 159,664 144,869 144,869 304,533 216,489 2,715 219,204 | Plant Investment General Water Plant Investment Plant Investment | \$ \$ | 78.7% 78.7% 125,657 99.5% 144,144 269,802 78.7% 78.7% | \$ \$ | 1,2% 1,912 0,5% 724 2,637 1.2% 1,2% | \$ | 20.1% 32,094 0.0% 32,094 20.1% 20.1% 44,062 |
| \$ \$ \$ | 30,274 129,390 159,664 144,869 144,869 304,533 | Plant Investment General Water Plant Investment | \$ \$ | 78.7% 78.7% 125,657 99.5% 144,144 269,802 78.7% | \$ \$ \$ | 1,2% 1,912 0.5% 724 2,637 | \$ \$ | 20.1% 32,094 0.0% 32,094 20.1% |
| | \$ \$ \$ \$ \$ | \$ 735,971 \$ 2,795,608 6,240,925 2,250,484 1,340,115 158,156 303,311 \$ 13,088,598 \$ 1,420 153,990 3,975 97,088 \$ 256,473 \$ 18,155,723 \$ 915 \$ 915 \$ 1,905 31,074 29,303 1,530 64,129 \$ 127,941 \$ 31,316 \$ 31,316 \$ 31,316 \$ 31,316 \$ 322,604 \$ 12,731 205 4,759 \$ 17,695 | \$ 2,795,608 Storage 6,240,925 General Water 2,250,484 Customer Service 1,340,115 IS8,156 Hydrants 303,311 General Water \$ 13,088,598 \$ 1,420 Plant Investment 153,990 Plant Investment 153,990 Plant Investment 97,088 Plant Investment \$ 256,473 \$ 18,155,723 \$ 1915 Depreciation \$ 915 \$ 1,905 General Water 29,303 General Water 29,303 General Water 29,303 General Water 29,303 General Water 31,074 General Water 29,303 General Water 31,530 General Water 31,530 General Water 31,794 General Water \$ 127,941 \$ 31,316 General Water \$ 32,952 General Water \$ 32,952 General Water \$ 32,952 General Water \$ 32,952 General Water \$ 30,019 Hydrants 24,428 General Water \$ 322,604 \$ Depreciation Dep | \$ 735,971 \$ 2,795,608 | \$ 735,971 \$ 732,291 \$ 2,795,608 General Water 9.95% 2,250,484 Customer Service 0.0% 1,340,115 Customer Service 0.0% 158,156 Hydrants 0.5% 303,311 General Water 9.95% \$ 13,088,598 \$ 9,307,914 \$ 1,420 Plant Investment 78.7% 153,990 Plant Investment 78.7% 97,088 Plant Investment 78.7% 97,088 Plant Investment 78.7% \$ 256,473 \$ 201,847 \$ 18,155,723 \$ 14,288,750 \$ 1915 Depreciation 72.4% \$ 915 General Water 99.5% 31,074 General Water 99.5% 31,074 General Water 99.5% 64,129 General Water 99.5% 64,129 General Water 99.5% \$ 127,941 \$ 127,301 \$ 31,316 General Water 99.5% \$ 31,42,428 General Water 99.5% \$ | \$ 735,971 \$ 732,291 \$ \$ 2,795,608 | \$ 735,971 \$ 3,680 \$ 2,795,608 | \$ 735,971 \$ 732,291 \$ 3,680 \$ \$ 2,795,608 |

| | | | | Water Co | st Drivers | |
|---|----------------|---|------------------|------------------|------------|--------------------|
| O&M Expenses | | | | Extra | Wholesale | Retail |
| Source of Supply | | | Base | Capacity | Qnly | Опіх |
| Operations Operation Supervision and Engineering | | Desduction & Dumples Costs | 45 0000 | | 0.000 | 0.000 |
| Operation Labor and Expenses | \$ 4,808 | Production & Pumping Costs Production & Pumping Costs | 45.00% 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Purchased Water | 371,346 | Purchased Water | 0.00% | 0.00% | 100.00% | 0.00% |
| Miscellaneous Expenses | 23 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Rents | - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ 1,669 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Structures and Improvements | 4,624 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Collecting and Impounding Reservoirs | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Lake, River, and Other Intakes | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Wells and Springs Maintenance of Infiltration Galleries and Tunnels | 11,602 | Production & Pumping Costs | 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Maintenance of Supply Mains | - | Production & Pumping Costs Production & Pumping Costs | 45.00% 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Miscellaneous Water Source Plant | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Source of Supply | \$ 394,071 | | \$ 10,226 | | | |
| | ,, | | • 10/220 | *,.,, | 372,510 | • |
| Pumoing Expenses Operations | | | | | | |
| Operation Supervision and Engineering | \$ - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Fuel for Power Production | • | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Power Production Labor and Expenses Fuel or Power Purchased for Pumping | 177,023 | Production & Purnping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Pumping Labor and Expenses | 22,935 | Production & Pumping Costs Production & Pumping Costs | 45.00% 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Expenses Transferred-Credit | - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Miscellaneous Expenses | 16,173 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Rents | • | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintanana | | | | | | |
| Maintenance Maintenance Supervision and Engineering | | Graduction & Committee Contr | AE DON | EE 000/ | A 5004 | 0.022 |
| Maintenance of Structures and Improvements | \$ - 30,956 | Production & Pumping Costs Production & Pumping Costs | 45.00% 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Maintenance of Power Production Equipment | 30,930 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Pumping Equipment | 36,006 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Pumping Expenses | \$ 283,093 | | \$ 127,392 | | | \$ - |
| | 4 203,033 | | 4 127,352 | \$ 133,701 | • | • |
| Water Treatment Expenses | | | | | | |
| Operations Operation Supervision and Engineering | | Tracking | 0.000/ | 0.004 | 0.000 | 400.000 |
| Chemicals | 10,906 | Treatment Treatment | 0.00% | 0.00% | 0.00% | 100.00% 100.00% |
| Operation Labor and Expenses | 148,289 | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Miscellaneous Expenses | | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Rents | - | Treatment | 0,00% | 0.00% | 0.00% | 100.00% |
| Majakasasa | | | | | | |
| Maintenance Operation Supervision and Engineering | \$ - | Treatment | 0.00% | 0.000 | 0.000 | 100.000 |
| Maintenance of Structures and Improvements | | Treatment Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Maintenance of Water Treatment Equipment | 10,680 | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Subtotal: Water Treatment Expenses | \$ 169,875 | | ' —— | ş - | \$ - | s 169,875 |
| | 4 100,015 | | • | • | • | \$ 105,073 |
| Transmission and Distribution Expense | | | | | | |
| Operations | | | | | | |
| Operation Supervision and Engineering | s - | T&D Mains | 63.52% | 36,48% | 0.00% | 0.00% |
| Storage Facilities Expenses Transmission and Distribution Lines Expenses | 13,234 | T&D Mains T&D Mains | 63.52% 63.52% | 36.48% 36.48% | 0.00% | 0.00% 0.00% |
| Meter Expenses | 13,234 | T&D Mains | 63.52% | 36,48% | 0.00% | 0.00% |
| Customer Installations Expenses | - | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Miscellaneous Expenses | 2,127 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Rents | | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance | | | | | | |
| Maintenance Maintenance Supervision and Engineering | s - | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Structures and Improvements | * | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Distribution Reservoirs and Standpipes | 7,026 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Transmission and Distribution Mains | 11,715 | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Fire Mains | - | T&D Mains | 63,52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Services | • | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Meters | - | T&D Mains | 63.52% | 36.48% | 0.00% | 0.00% |
| Maintenance of Hydrants Maintenance of Miscallenous Equipment | 11 | T&D Mains T&D Mains | 63.52% 63.52% | 36.48% 36.48% | 0.00% | 0.00% |
| Subtotal: Transmission and Distribution Expense | . 34.113 | TGD Plents | | | | |
| ээстэгт тапанизарт ана отваницерн ехренье | \$ 34,113 | | \$ 21,668 | \$ 12,445 | • | \$ - |
| Customer Accounts Expense | | | | | | |
| Operations | | | | | | |
| Supervision Meter Reading Expenses | \$ - | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Meter Reading Expenses Customer Records and Collection Expenses | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Uncollectible Accounts | | Production & Pumping Costs Production & Pumping Costs | 45,00% 45.00% | 55.00% 55.00% | 0.00% | 0.00% |
| Miscellaneous Customer Accounts Expenses | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Subtotal: Customer Accounts Expense | 5 . | | \$ | | \$ | \$ - |
| · | ~ | | • | • | • | • |
| Sales Expenses | | | | | | |
| Operations Sales Expenses | | Production & Pumping Costs | 45.00% | ee oooi | 0.00% | 0.00% |
| | * | Production & Pomping Costs | | 55.00% | | |
| Subtotal: Sales Expenses | • | | \$ - | • | \$. | \$ |
| | | | | | | |

| Administrative and Connect Eugenees | | | | | | | | |
|---|---|--|----------------|--|--|---|-------------|---|
| Administrative and General Excenses Operations | | | | | | | | |
| Administrative and General Salaries | \$ 13,903 | Total O&M | 7 [| 31.24% | 35.43% | 0.00% | | 33.32% |
| Office Supplies and Other Expenses | 39,304 | Total O&M | 1 🗀 | 31,24% | 35.43% | 0.00% | | 33,32% |
| Administrative Expenses Transferred-Cr. | • | Total O&M |] [| 31.24% | 35.43% | 0.00% | | 33.32% |
| Outside Services Employed | 217,820 | Total O&M | ↓ _ | 31.24% | 35.43% | 0.00% | | 33.32% |
| Property Insurance Injuries and Damages | | Total O8M | ا ⊢ | 31.24% | 35.43% | 0.00% | | 33.32% |
| Employee Pension and Benefits | 30,031 72,144 | Total O&M Total O&M | $+\vdash$ | 31.24% | 35.43% | 0.00% | _ | 33.32% |
| Franchise Requirements | 4,639 | Total O&M | ┨┝╌ | 31,24% 31,24% | 35.43% 35.43% | 0.00% | | 33.32% 33.32% |
| Regulatory Commission Expenses | 5,386 | Total O&M | ┪┝╴ | 31.24% | 35.43% | 0.00% | | 33.32% |
| Duplicate Charges Cr. | 5,300 | Total Q&M | ┧┝╴ | 31.24% | 35.43% | 0.00% | | 33.32% |
| Miscellaneous Expenses | 26,853 | Total O&M | 1 🗀 | 31.24% | 35.43% | 0.00% | \dashv | 33.32% |
| General Rents | 14,204 | Total O&M |] [| 31.24% | 35.43% | 0.00% | | 33.32% |
| | | | | | | | | |
| Maintenance | | | . — | | | | | |
| Maintenance of General Plant | <u>s </u> | Total O&M | ┚┕ | 31.24% | 35.43% | 0.00% | !_ | 33.32% |
| Subtotal: Administrative and General Expenses | \$ 424,283 | | \$ | 132,565 | \$ 150,340 | \$ | - \$ | 141,378 |
| MCDC Ch | | | | | | | | |
| MSDC Charges Annual Expense | \$ 63,750 | 7 | 1 - | 0.00% | 0.00% | A none | | 100.000/ |
| | | Treatment | J 🖵 | | | 0.00% | | 100.00% |
| Subtotal: MSDC Charges | \$ 63,750 | | \$ | • | \$- | \$ | ٠ \$ | 63,750 |
| Additional Support | | | | | | | | |
| FTE to support new water flows and chloramination | \$ 46,226 | Production & Pumping Costs | 1 [| 45.00% | 55.00% | 0.00% | | 0.00% |
| | | Floduction & Fullipling Costs | J L_ | | | | | 0.00% |
| Subtotal: Additional Support | \$ 46,226 | | \$ | 20,802 | s 25,424 | \$ | - \$ | |
| Chloramine Conversion (for 20 stations) | | | | | | | | |
| Chloramine Pump Package System | \$ 11,767 | Production & Pumping Costs | ٦ | 45.00% | 55.00% | 0.00% | | 0.000/ |
| Ammonia Analyzer | 12,775 | Production & Pumping Costs | 1 | 45.00% | 55.00% | 0.00% | | 0.00% |
| Chlorine cost | 5,034 | Production & Pumping Costs | 1 | 45.00% | 55.00% | 0.00% | | 0.00% |
| Ammonia cost | 9,108 | Production & Pumping Costs |] [| 45.00% | 55.00% | 0.00% | | 0.00% |
| Pump House Updates | 16,809 | Production & Pumping Costs | 4 🗀 | 45.00% | 55.00% | 0.00% | | 0.00% |
| Electricity for chemical system only | 286 | Production & Pumping Costs | 』∟_ | 45.00% | 55.00% | 0.00% | L | 0.00% |
| Subtotal: Chloramine Conversion (for 20 stations) | \$ 55,779 | | \$ | 25, 101 | \$ 30,679 | \$ | - \$ | |
| | | | | | | | | |
| Shannon Road Booster Station | | | , | | | | | |
| Pumps | \$ 2,942 | Production & Pumping Costs | ↓ | 45.00% | 55.00% | 0.00% | | 0.00% |
| Mag-meter SCADA Monitoring & Equipment | 700 | Production & Pumping Costs | ┨┝ | 45.00% | 55.00% | 0.00% | _ | 0.00% |
| Electricity | 1,261 4,841 | Production & Pumping Costs Production & Pumping Costs | ┨ ┣━ | 45.00% 45.00% | 55.00% 55.00% | 0.00% | | 0.00% |
| | | Production & Painiping Costs | <u>ـــا ا</u> | | | 0.00% | | 0.00% |
| Subtotal: Shannon Road Booster Station | \$ 9,744 | | \$ | 4,385 | 5,359 | \$ | - \$ | |
| Contingency | | | | | | | | |
| <u>contaigence</u> | | Production & Pumping Costs | 1 [| 45.00% | 55.00% | 0.00% | | 0.00% |
| Subtotal: Contingency | ' —— | Troobcook a Fullipling Costs | , <u>–</u> | | | | | 0.00% |
| Subloan. Contingency | • | | \$ | - ! | | \$ | - \$ | - |
| | | | | | | | | |
| Total: Operating & Maintenance Expenses | \$ 1,480,934 | | \$ | 342,138 | \$ 392,447 | \$ 371,3 | 46 \$ | 375,003 |
| Check | \$ - | | | | | ,,- | | |
| | | | | | | | | |
| New No. Company | | | | | | | | |
| Plant in Service Intangible Plan | | | | | | | | |
| Intangible Plant - Franchise | \$ 28,791 | Plant Investment | 1 | EE ANG | 20.70/ | 0.004 | | E 304 |
| | | Fight sivestifient | —' ' | 55.1% | 39.7% | 0.0% | _'- | 5.2% |
| Subtotal: Intangible Plan | \$ 28,791 | | \$ | 15,851 | 11,439 | \$ | - \$ | 1,501 |
| Source of Supply and Pumping | | | | | | | | |
| Land and Land Rights | \$ 75,804 | Production & Pumping Costs | 1 | 45.0% | 55.0% | 0.0% | | 0.0% |
| Stuctures & Improvements | 1,270,261 | Production & Pumping Costs | 1 | 45.0% | 55.0% | 0.0% | | 0.0% |
| Wells & Springs | 917,154 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | | 0.0% |
| Supply Mains | | | | | | 0.0% | | 0.0% |
| | 105,993 | T&D Mains | | 63.5% | 36.5% | | | |
| Pumping Equipment | 1,648,695 | Production & Pumping Costs | | 63.5% 45.0% | 36.5% 55.0% | 0.0% | | 0.0% |
| Subtotal: Source of Supply and Pumping | | | } = | | 55.0% | 0.0% | - \$ | 0.0% |
| Subtotal: Source of Supply and Pumping | 1,648,695 | | \$ | 45.0% | 55.0% | 0.0% | - \$ | |
| Subtotal: Source of Supply and Pumping Water Treatment | 1,648,695 \$ 4,017,907 | Production & Pumping Costs | \$ | 45.0% 1,827,687 | \$5.0% 2,190,220 | 0.0% \$ | - \$ | |
| Subtotal: Source of Supply and Pumping <u>Water Treatment</u> Water Treatment Equipment | 1,648,695 \$ 4,017,907 \$ 732,291 | | } • | 45.0% | 55.0% | 0.0% | - \$ | 100.0% |
| Subtotal: Source of Supply and Pumping Water Treatment | 1,648,695 \$ 4,017,907 | Production & Pumping Costs | \$ \$ \$ | 45.0% 1,827,687 | 55.0% ; 2,190,220 0.0% | 0.0% \$ | · \$ | - |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment | 1,648,695 \$ 4,017,907 \$ 732,291 | Production & Pumping Costs | | 45.0% 1,827,687 0.0% | 55.0% ; 2,190,220 0.0% | 0.0% | | 100.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution | 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 | Production & Pumping Costs Treatment | | 1,827,687 0.0% | 55.0% 2,190,220 0.0% | 0.0% | | 732,291 |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes | 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 2,795,608 | Production & Pumping Costs Treatment T&D Mains | | 45.0% 1,827,687 0.0% | 55.0% 2,190,220 0.0% 36.5% | 0.0% \$ 0.0% \$ | | 732,291 |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution | 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 | Production & Pumping Costs Treatment T&D Mains T&D Mains | | 1,827,687 0.0% 63.5% 63.5% | 55.0% 2,190,220 0.0% 36.5% 36.5% | 0.0% \$ 0.0% \$ 0.0% 0.0% | | 732,291 0.0% 0.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains | 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 2,795,608 | Production & Pumping Costs Treatment T&D Mains T&D Mains Teatment | | 45.0% 1,827,687 0.0% 63.5% 63.5% 0.0% | 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% | | 100.0% 732,291 0.0% 0.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants | 1,648,695 \$ 4,017,907 \$ 732,291 \$ 732,291 \$ 2,795,608 | Production & Pumping Costs Treatment T&D Mains T&D Mains | | 1,827,687 0.0% 63.5% 63.5% | 55.0% 2,190,220 0.0% 36.5% 36.5% | 0.0% \$ 0.0% \$ 0.0% 0.0% | | 732,291 0.0% 0.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations | \$ 732,291 \$ 2,795,608 \$ 2,795,608 \$ 6,209,720 | Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Treatment Treatment | | 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% | 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% 0.0% | 0.0% \$ 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% | | 100.0% 732,291 0.0% 0.0% 100.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 | Production & Pumping Costs Treatment T&D Mains T&D Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ | 45.0% 1,827,687 0.0% 63.5% 0.0% 0.0% 0.0% 63.5% 63.5% | \$5.0% \$2,190,220 0.0% \$36.5% 36.5% 0.0% 0.0% 0.0% 36.5% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% | - \$ | 100.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 0.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&O Mains Services Meters and Meter Installations Hydrants Other | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 | Production & Pumping Costs Treatment T&D Mains T&D Mains TRAD Mains Treatment Treatment Treatment Treatment | | 45.0% 1,827,687 0.0% 63.5% 63.5% 0.0% 0.0% 0.0% | \$5.0% \$2,190,220 0.0% \$36.5% 36.5% 0.0% 0.0% 0.0% 36.5% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% | | 732,291 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&O Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 | Production & Pumping Costs Treatment T&D Mains T&D Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 0.0% 0.0% 63.5% 5,911,773 | \$5.0% \$2,190,220 0.0% \$36.5% 36.5% 0.0% 0.0% 0.0% 36.5% \$36.5% \$36.5% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% | - \$ | 100.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 0.0% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 | Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Treatment Treatment TRAD Mains | \$ | 45.0% 1,827,687 0.0% 0.0% 63.5% 63.5% 0.0% 0.0% 63.5% 5,911,773 55.1% | 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% 0.0% 0.0% 3.395,350 | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% \$ 0.0% | - \$ | 0.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 0.0% 791 |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 \$ 1,118 121,192 | Production & Pumping Costs Treatment T&D Mains TRAD Mains Treatment Treatment Treatment Treatment TRAD Mains Plant Investment Plant Investment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% 63.5% 5,911,773 55.1% 55.1% | \$5.0% \$2,190,220 0.0% \$36.5% 36.5% 0.0% 0.0% 0.0% 36.5% \$3,395,350 | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% \$ 0.0% | - \$ | 732,291 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 791 |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Transportation Equipment Tools, Shop and Garage Equipment | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 \$ 1,118 121,192 3,128 | Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Treatment Treatment Treatment TRAD Mains Plant Investment Plant Investment Plant Investment Plant Investment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 0.0% 0.0% 0.0% 5,911,773 55.1% 55.1% | \$5.0% \$2,190,220 0.0% \$36.5% 0.0% 0.0% 0.0% 36.5% \$3,395,350 39.7% 39.7% 39.7% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% \$ 0.0% \$ 0.0% | - \$ | 100.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 0.0% 791 5.2% 5.2% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Tools, Shop and Garage Equipment Computer Equipment | \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 \$ 1,118 121,192 3,128 76,408 | Production & Pumping Costs Treatment T&D Mains TRAD Mains Treatment Treatment Treatment Treatment TRAD Mains Plant Investment Plant Investment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% 0.0% 5,911,773 55.1% 55.1% 55.1% 55.1% | 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% 0.0% 0.0% 3.395,350 39.7% 39.7% 39.7% 39.7% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% \$ 0.0% | - \$ | 100.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 0.0% 0. |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Transportation Equipment Tools, Shop and Garage Equipment | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 \$ 1,118 121,192 3,128 | Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Treatment Treatment Treatment TRAD Mains Plant Investment Plant Investment Plant Investment Plant Investment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 0.0% 0.0% 0.0% 5,911,773 55.1% 55.1% | 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% 0.0% 0.0% 3.395,350 39.7% 39.7% 39.7% 39.7% | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% \$ 0.0% \$ 0.0% | - \$ | 100.0% 732,291 0.0% 100.0% 100.0% 100.0% 100.0% 5.2% 5.2% 5.2% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&O Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Transportation Equipment Computer Equipment Subtotal: General Plant | \$ 732,291 \$ 732,291 \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 \$ 1,118 121,192 3,128 76,409 \$ 201,847 | Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Treatment Treatment Treatment TRAD Mains Plant Investment Plant Investment Plant Investment Plant Investment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 0.0% 0.0% 0.0% 63.5% 5,911,773 55.1% 55.1% 55.1% 111,123 | \$5.0% \$2,190,220 0.0% \$36.5% 0.0% 0.0% 0.0% 36.5% \$3,395,350 39.7% 39.7% 39.7% 39.7% 80,198 | 0.0% \$ 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% \$ 0.0% 0.0% | - \$ | 100.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 5.2% 5.2% 5.2% 5.2% |
| Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Tools, Shop and Garage Equipment Computer Equipment | \$ 732,291 \$ 2,795,608 6,209,720 791 301,794 \$ 9,307,914 \$ 1,118 121,192 3,128 76,408 | Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Treatment Treatment Treatment TRAD Mains Plant Investment Plant Investment Plant Investment Plant Investment | \$ | 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% 0.0% 5,911,773 55.1% 55.1% 55.1% 55.1% | \$5.0% \$2,190,220 0.0% \$36.5% 0.0% 0.0% 0.0% 36.5% \$3,395,350 39.7% 39.7% 39.7% 39.7% 80,198 | 0.0% \$ 0.0% \$ 0.0% \$ 0.0% \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ \$ 0.0% \$ 0 | - \$ | 0.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 0.0% |

| Depreciation Intangible Plan | | | | | | | | | | | |
|--|--------------|---------|----------------------------|-----------------|---------|------------|---------|----------|-------|----------------|--------------|
| Intangible Plant - Franchise | \$ | 662 | Depreciation | ٦, | 51.1% | | 40.0% | · · · | 0.0% | | 8.9% |
| Subtotal: Intangible Plan | \$ | 662 | | \$ | 338 | \$ | 265 | \$ | | · \$ | 59 |
| Source of Supply and Pumping | | | | | | | | | | | |
| Land and Land Rights | \$ | 1,895 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Stuctures & Improvements | | 30,919 | Production & Pumping Costs | | 45.0% | . <u> </u> | 55.0% | | 0.0% | | 0.0% |
| Wells & Springs | | 29,156 | Production & Pumping Costs |] | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Supply Mains | | 1,523 | Production & Pumping Costs | <u> </u> | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Pumping Equipment | | 63,809 | Production & Pumping Costs | l L <u></u> | 45.0% | <u> </u> | 55.0% | <u> </u> | 0.0% | L_ | 0.0% |
| Subtotal: Source of Supply and Pumping | s | 127,301 | | \$ | 57,285 | \$ | 70,016 | 5 | | - \$ | _ |
| Water Treatment | | | , | | | | | , | | | |
| Water Treatment Equipment | <u>\$</u> | 31,159 | Treatment | <u>ـــ</u> ـا ا | 0.0% | L | 0.0% | i | 0.0% | 1 | 100.0% |
| Subtotal: Water Treatment | \$ | 31,159 | | \$ | | \$ | | \$ | | - \$ | 31,159 |
| Transmission & Distribution | | | | | | | | | | | |
| Distribution Reservoirs & Standpipes | \$ | 36,760 | T&D Mains | | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| T&D Mains | | 129,303 | T&D Mains | | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| Services | | - | Treatment | l L | 0.0% | | 0.0% | | 0.0% | | 100.0% |
| Meters and Meter Installations | | - | Treatment | <u> </u> | 0.0% | | 0.0% | | 0.0% | | 100,0% |
| Hydrants | | 15 | Treatment | <u> </u> | 0.0% | | 0.0% | | 0.0% | | 100.0% |
| Other | | 24,306 | T&D Mains | L | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 190,384 | | 5 | 120,920 | \$ | 69,449 | 5 | | - 5 | 15 |
| General Plant | | | | | | | | | | | |
| Office Furniture and Equipment | \$ | - | Depreciation | | 51.1% | l . | 40.0% | | 0.0% | T | 8.9% |
| Transportation Equipment | | 9,217 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Tools, Shop and Garage Equipment | | 148 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Computer Equipment | | 3,445 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Subtotal: General Plant | \$ | 12,810 | | \$ | 6,544 | \$ | 5,122 | \$ | | - \$ | 1,145 |
| Total: Depreciation | \$ | 362,317 | | \$ | 185,088 | \$ | 144,851 | \$ | | • \$ | 32,378 |
| Taxes | | | | | | | | | | | |
| Jaxes Other Than Income | | | | | | | | | | | |
| Utility Property Tax | \$ | 23,826 | Plant Investment | | 55.1% | | 39.7% | | 0.0% | | 5.2% |
| Real Estate | • | 101,831 | Plant Investment | <u> </u> | 55.1% | _ | 39.7% | | 0.0% | — | 5.2% |
| Subtotal: Taxes Other Than Income | <u> </u> | 125,657 | The Land Control | \$ | 69,179 | <u> </u> | 49,926 | _ | 0.070 | | 6,553 |
| Income Taxes | | • | | | , | | -,- | · | | • | -4 |
| Business Enterprise Tax | s | 144,144 | Total O&M | | 31.2% | - | 35.4% | _ | 0.0% | - | 33.3% |
| Subtotal: Income Taxes | 5 | 144,144 | ·········· | \$ | 45,037 | \$ | 51,076 | ş | | \$ | 48,031 |
| Total: Taxes | \$ | 269,802 | | ś | 114,216 | <u> </u> | 101,002 | - | | - <u>-</u> | 54,584 |
| | • | 203,002 | | • | 114,210 | • | 101,002 | • | | • | 34,304 |
| Amortization | | | | | | | | | | | |
| CIAC | s | 170,379 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 0.004 |
| Other | • | 2,137 | Depreciation | | 51.1% | | 40.0% | | 0.0% | _ | 8.9% 8.9% |
| | - | | L Depreciation | - | | == | | _ | 0.070 | _'_ | |
| Total: Amortization | \$ | 172,516 | | \$ | 88,129 | \$ | 68,970 | \$ | | - \$ | 15,417 |
| Return | | | | | | | | | | | |
| Estimate | | 393,149 | Plant Investment | | 55.1% | | 39.7% | | 0.0% | - | 5.2% |
| | * | | Front Investment | سيدا | | _ | | | U.U% | | |
| Total: Return | \$ | 393,149 | | \$ | 216,442 | \$ | 156,206 | \$ | | - \$ | 20,501 |

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 2 ANSWERS

Date request received: 11/25/2019

Staff 2-7

Date of Response: 12/09/2019

Witness: Charles Lanza

Staff 2-7

Reference Company response to Staff 1-26:

- a) The column headings and totals for the tables contained in the copy of the Raftelis report provided in the Company's response are illegible. Please provide a copy of that report with legible table column headings and totals.
- b) The COSS for HAWC dated November 30, 2018 appears to be a "draft" report, yet the Company indicates the rate that it will charge the Town of Plaistow is based on that draft report. Will that rate be updated as a result of the final report dated June 27, 2019 included in the Company's filing as Exhibit 7? Please explain. Will the Southern NH Project Agreement (Exhibit 8) be amended? Please explain.

Response 2-7:

- a) See attached
- b) The rate cannot be updated without an amended SIA. The Company plans on requesting that the SIA be amended to reflect the Final COSS.



100 International Drive, Suite 152, Portsmouth, NH 03801 Tel: 603.431.3937

November 30, 2018

Michael Unger, P.E.
Water Engineer, Drinking Water and Groundwater Trust Fund
Drinking Water and Groundwater Bureau | NHDES
29 Hazen Drive
Concord, NH 03302

Re:

Southern NH Regional Water Main Initiative (SNHRWI) Cost of Service Study – Town of Salem

Dear Mike:

We are pleased to submit this report to the New Hampshire Department of Environmental Services (DES) for the Cost of Service Study (COSS) performed for the town of Salem on behalf the SNHRWI project. The proposed SNHRWI project includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

DES initiated the COSS to determine the cost to each community for supplying water to adjacent communities as part of the SNHRWI project. The existing water system operations for town of Salem were examined to determine how and why costs are incurred. Developing this understanding allowed for a proper allocation of future costs to the town of Salem to distribute water to adjacent communities.

Per our work scope and budget dated August 17, 2018 we have completed the draft COSS for the town of Salem with the assistance of Raftelis Financial Consultants. We wish to acknowledge the assistance of DES and town of Salem staff with gathering background information for the project. The cooperation was essential to the completion of the report and is sincerely appreciated.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.

Jeffrey W. McClure, P.E.

Senior Associate

SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study - Town of Salem

Draft Report / November 30, 2018







November 30, 2018

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth, NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study - Town of Salem

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Draft Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute
 costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one
 community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - * Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for the Town of Salem. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox Manager

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1.0BJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Town of Salem's portion of the SNHRWI.

The charges to be calculated through this study include the following:

- Develop a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
- Develop a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers;
- A rate of return applied to the utility's investment in these assets; and
- * A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Derry, of approximately 300,000 gallons per day, will be assessed at a rate of \$2.55 per one hundred cubic feet (Ccf). Table 1 presents the test year full cost components for Salem. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| | MITTER TO THE |
|--|---------------|
| Operational \$ | 1,060,852 |
| Buildings | 58,371 |
| Capital Projects | 586,669 |
| Administrative and General Expenses | 1,377,480 |
| MSDC Charges | 76,885 |
| Additional Support | 57,500 |
| Metering Building @ Derry Town Line | 22,716 |
| Metering Pit on Route 111 for Salem to PEU | 2,333 |
| Metering Building at Salem Town Line | 4,103 |
| Rate of Return | 716,143 |
| Depreciation | 25,590 |
| | 是於自然的對 |

Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with Town Staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| | 3 44 1 | ila Middania. | a an | ations and the | K arskat | udayishkila |
|--|--------|--|------|----------------|-----------------|-------------|
| Operational | \$ | 1,000,494 | \$ | 27,102 | \$ | 33,256 |
| Buildings | | 58,079 | | 292 | | - |
| Capital Projects | | 583,736 | | 2,933 | | - |
| Administrative and General Expenses | | 1,326,138 | | 24,489 | | 26,853 |
| MSDC Charges | | 76,500 | | 384 | | - |
| Additional Support | | 57,213 | | 288 | | - |
| Metering Building @ Derry Town Line | | 22,602 | | 114 | | - |
| Metering Pit on Route 111 for Salem to PEU | | 2,322 | | 12 | | - |
| Metering Building at Salem Town Line | | 4,083 | | 21 | | - |
| | | 500.0 000000000000000000000000000000000 | | | | |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs

that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from the Town's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| | 1859 | | | | | |
|--------------------------------------|---------|----------------------|------|---------|---------------|---------------|
| Operational | \$ | 267,724 | \$ | 89,064 | \$ 371,429 | \$ 272,277 |
| Buildings | | 19,360 | | - | - | 38,719 |
| Capital Projects | | 262,681 | | 321,055 | - | |
| Administrative and General Expenses | | 759,533 | | 566,604 | - | - |
| MSDC Charges | | 47,685 | | 28,815 | - | - |
| Additional Support | | 25,746 | | 31,467 | - | - |
| Metering Building @ Derry Town Line | | 10,171 | | 12,431 | - | - |
| Metering Pit on Route 111 | | 1,045 | | 1,277 | - | - |
| Metering Building at Salem Town Line | | 1,837 | | 2,246 | - | - |
| 105.00元的世界就正为第三的不同的方 | (186.4) | 5. 11 1. 17 K. 9 611 | (38) | 但是沒沒理 | 的域的影響 | 经有的证据 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for Salem's calculated depreciation and rate of return.

Finally, since Salem will be providing wholesale wheeling services to both HAWC and Windham, a determination must be made on whether the calculated wholesale rates should be different, or if both entities should be assessed the same wholesale rate, making the assumption that all customers classified as wholesale would fit into the same class. In the case of the dynamics of how Salem's system will be utilized by Windham and HAWC, it was determined that Windham will utilize much less of Salem's core system. Due to this, many of Salem's core system assets and costs were excluded from the calculation of Windham's rate for wheeling service.

The following table (Table 4) presents the final rate calculations for HAWC and Windham.

Table 4: Calculation of Wholesale Rate (per Ccf)

| Cost of Service | | |
|------------------------|---------------|---------------|
| Operating Expenses | \$ 337,439 | \$ 228,645 |
| Rate of Return | 36,948 | 29,558 |
| Depreciation | 2,393 | 1,915 |
| Total: Cost of Service | \$ 376,780 | \$ 260,118 |
| Estimated Flow (Ccf) | 121,992 | 97,594 |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| | | | Functional | | General | unctional Catego Fire | | Customer |
|---------------------------------------|----|-------------------|-----------------------------|--|----------------|--------------------------|----------------|-------------|
| perations and Maintenance Expense | | | Category | | Water | <u>Service</u> | | Service |
| Operational | | 10.000 F | C | 1 | 00.00 | | | |
| Small Tools & Equipment Gas & Oil | \$ | 10,829 21,714 | General Water General Water | ┨ ├── | 99.5% 99.5% | 0.5% 0.5% | - | 0.0% |
| Gravel/Sand | | 12,084 | General Water | | 99.5% | 0.5% | - | 0.0% |
| Resurfacing | | 26,559 | General Water | 1 - | 99.5% | 0.5% | + | 0.0% |
| Chemicals | | 62,016 | General Water | 1 - | 99.5% | 0.5% | + | 0.0% |
| Tubing and Parts | | 33,256 | Customer Service | ┨┝ | 0.0% | 0.0% | 1 | 100.0% |
| Safety | | 1,132 | General Water | 1 - | 99.5% | 0.5% | - | 0.0% |
| Contracted Services | | 132,116 | General Water | 1 | 99.5% | 0.5% | + | 0.0% |
| Water Samples/Lab Services | | 51,858 | General Water | 1 | 99.5% | 0.5% | +- | 0.0% |
| Purchase of Water | | 373,295 | General Water | 1 | 99.5% | 0.5% | | 0.0% |
| Meters/Replacement | | ´ - F | Customer Service | | 0.0% | 0.0% | | 100.0% |
| Hydrants | | 22,186 | Hydrants | | 0.5% | 99.5% | 1 | 0.0% |
| Pipe Replacement | | 16,478 | General Water | | 99.5% | 0.5% | | 0.0% |
| Electricity | | 174,405 | General Water |] L | 99.5% | 0.5% | | 0.0% |
| Other Utilities | | 122,189 | General Water | l L | 99.5% | 0.5% | | 0.0% |
| Equipment | | - | General Water | l | 99.5% | 0.5% | | 0.0% |
| Water Department Equipment | | 735 | General Water | J <u>L</u> | 99.5% | 0.5% | | 0.0% |
| Subtotal: Operational | \$ | 1,060,852 | | \$ | 1,000,494 | \$ 27,102 | \$ | 33,2 |
| Buildings | | | | | | | | |
| Cleaning Services | \$ | 4,080 | General Water |] [| 99.5% | 0.5% | | 0.0% |
| Building Maintenance | * | 30,654 | General Water | 1 | 99.5% | 0.5% | | 0.0% |
| Heat | | 23,637 | General Water | 1 | 99.5% | 0.5% | | 0.0% |
| Subtotal: Buildings | \$ | 58,371 | | \$ | 58,079 | | \$ | |
| Capital Basinsta | | | | | - | | | |
| Capital Projects Engineering Services | \$ | 16,854 | General Water | 1 | 99.5% | 0.5% | 1 | 0.0% |
| Building Improvements | • | | | | | | 1 | |
| Water - Vehicles | | 51,595 51,595 | General Water | │ | 99.5% | 0.5% | ┼— | 0.0% |
| Improvements | | · - | General Water | l | 99.5% 99.5% | 0.5% | ╁— | 0.0% |
| DBA Projects | | 60,624 406,000 | General Water General Water | ┤├ ── | 99.5% | 0.5% 0.5% | - | 0.0% |
| Subtotal: Capital Projects | \$ | 586,669 | deletal Water | <u>۔</u> | | ·- | <u> </u> | 0.0% |
| Sobiotal. Capital Projects | • | 300,009 | | \$ | 583,736 | \$ 2,933 | * | |
| Special Articles | | | | | | | | |
| Engineering Services | \$ | - | General Water | ļ | 99.5% | 0.5% | | 0.0% |
| Water Improvements | | | General Water | } L | 99.5% | 0.5% | .L <u></u> | 0.0% |
| Subtotal: Special Articles | \$ | • | | \$ | • | \$ - | \$ | |
| Administrative and General Expenses | | | | | | | | |
| Regular Pay | \$ | 494,653 | Total O&M | | 96.3% | 1.8% | T | 1.9% |
| Temporary Pay | | 51,054 | Total O&M | | 96.3% | 1.8% | 1 | 1.9% |
| Overtime Pay | | 76,276 | Total O&M | | 96.3% | 1.8% | - | 1.9% |
| Employee Retirement Benefits | | 947 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Stand-By Pay | | 7,110 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Retirement | | 71,852 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Disability Insurance | | 4,556 | Total O&M | | 96.3% | 1.8% | - | 1.9% |
| Workers' Compensation | | 23,316 | Total O&M | i | 96.3% | 1.8% | | 1.9% |
| FICA-Social Security | | 46,243 | Total O&M | | 96.3% | 1.8% | 1 | 1.9% |
| Health Insurance | | 208,048 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Unemployment Compensation | | 681 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Life Insurance | | 1,931 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Dental Insurance | | 7,384 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Clothing Allowance | | 6,268 | Total O&M | l | 96.3% | 1.8% | | 1.9% |
| Office Supplies | | 537 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Legal Services | | 10,616 | Total O&M | | 96.3% | 1.8% | <u> </u> | 1.9% |
| Audit | | 2,602 | Total O&M | | 96.3% | 1.8% | 1. | 1.9% |
| Membership & Publications | | 1,430 | Total O&M | | 96.3% | 1.8% | ļ | 1.9% |
| Printing and Binding | | 5,485 | Total O&M | l | 96.3% | 1.8% | . | 1.9% |
| Medical Exams/Hiring Expenses | | 344 | Total O&M | l | 96.3% | 1.8% | | 1.9% |
| Food Equipment Rental | | 4,110 | Total 0&M | | 96.3% | 1.8% | | 1.9% |
| , , | | 26,034 | Total O&M | | 96.3% | 1.8% | - | 1.9% |
| Telephone Postage | | 30,392 | Total O&M | l | 96.3% | 1.8% | + | 1.9% |
| Postage Meetings and Training | | 26,802 | Total O&M | l | 96.3% | 1.8% | | 1.9% |
| Radio Maintenance | | 4,840 90 | Total O&M Total O&M | } | 96.3% 96.3% | 1.8% | +- | 1.9% |
| Vehicle Maintenance | | | | | | 1.8% | + | 1.9% |
| General Liability | | 13,987 | Total O&M | l | 96.3% | 1.8% | + | 1.9% |
| Fleet Insurance | | 18,903 | Total O&M | | 96.3% | 1.8% | | 1.9% |
| Administrative Service Charge | | 5,034 | Total O&M | | 96.3% | 1.8% | + | 1.9% |
| | | 210,477 | Total O&M | l | 96.3% | 1.8% | | 1.9% |
| Property Insurance | | 14,723 | Total O&M | | 96.3% | 1.8% | + | 1.9% |
| Recording Fees | | 340 | Total O&M | ـــــا ا | 96.3% | 1.8% | 1 | 1.9% |
| Office Furniture & Equipment | | 416 | Total O&M | | 96.3% | 1.8% | | |

| al: Operating & Maintenance Expenses | \$ | 3,170,024 | | \$ | 3,054,666 | Ś | 55,249 | \$ | 60,10 |
|--|-----------|-----------|---------------|------|-----------|--|--------|-------------|-------|
| Subtotal: Contingency | \$ | - | | \$ | | \$ | | . \$ | |
| Contingency | \$ | - | General Water | | 99.5% | | 0.5% | I | 0.0% |
| Subtotal: Metering Building at Salem Town Line | \$ | 4,103 | | \$ | 4,083 | \$ | 2 | 1 \$ | |
| Electricity | <u> </u> | 170 | General Water | J L | 99.5% | | 0.5% | | 0.0% |
| SCADA Monitoring | | 1,500 | General Water | J L | 99.5% | | 0.5% | | 0.0% |
| Mag Meter | ļ | 833 | General Water |] [| 99.5% | | 0.5% | | 0.0% |
| Metering Bullding at Salem Town Line PRV | \$ | 1,600 | General Water | | 99.5% | | 0.5% | T | 0.0% |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ | 2,333 | | \$ | 2,322 | \$ | 1 | 2 \$ | |
| SCADA Monitoring & Equipment | Ĺ | 1,500 | General Water | J L | 99.5% | L | 0.5% | | 0.0% |
| Metering Pit on Route 111 for Salem to PEU Mag Meter | \$ | 833 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ | 22,716 | | \$ | 22,602 | \$ | 11 | 4 \$ | |
| Electricity | L <u></u> | 204 | General Water |] [| 99.5% | | 0.5% | 1_ | 0.0% |
| SCADA Monitoring & Equipment | | 1,500 | General Water | 1 | 99.5% | | 0.5% | | 0.0% |
| Mag-meter | | 833 | General Water | 7 | 99.5% | | 0.5% | | 0.0% |
| Chemicals (Ammonia) | | 5,835 | General Water | 1 | 99.5% | | 0.5% | | 0.0% |
| Chemicals (Chlorine) | | 3,225 | General Water | 1 | 99.5% | | 0.5% | 1 | 0.0% |
| Ammonia Analyzer | | 760 | General Water | 1 🗀 | 99.5% | | 0.5% | + | 0.0% |
| Chloramine Pump Package System | | 1,500 | General Water | 1 | 99.5% | | 0.5% | _ | 0.0% |
| Chemicals (NaOH) | | 4,058 | General Water | 1 | 99.5% | | 0.5% | + | 0.0% |
| Chem Metering Pump (NaOH) | | 200 | General Water | 1 | 99.5% | \vdash | 0.5% | + | 0.0% |
| Chemical Bulk Tank | T | 3,000 | General Water | | 99.5% | | 0.5% | + | 0.0% |
| Metering Building @ Derry Town Line PRV | \$ | 1,600 | General Water | - | 99.5% | ! | 0.5% | _ | 0.0% |
| Subtotal: Additional Support | \$ | 57,500 | | \$ | 57,213 | \$ | 28 | 8 \$ | |
| FTE for additional admin support | | 27,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Additional Support FTE for support of new water flows | \$ | 30,000 | General Water | 7 [| 99.5% | | 0.5% | | 0.0% |
| Subtotal: MSDC Charges | \$ | 76,885 | | \$ | 76,500 | \$ | 38 | 4 \$ | |
| Annual Expense | - 4 | 76,885 | General Water | _1 1 | 99.5% | | 0.5% | į | 0.0% |

| M Expenses | | | | | Water Co | | |
|--|----------|--|---|--|---|--|--|
| Derational | | | | Baro | Extra Cap. | Wholesale | Retail |
| | | 10.775 | [] | | | | |
| Small Tools & Equipment | \$ | 10,775 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Gas & Oil | | 21,605 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Gravel/Sand | | 12,023 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Resurfacing | | 26,426 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Chemicals | | 61,706 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Tubing and Parts | | 01,100 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | |
| Safety | | 1.126 | Production & Pullipling Costs | | | | 0.0% |
| | | 1,126 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Contracted Services | | 131,455 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Water Samples/Lab Services | | 51,598 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Purchase of Water | | 371,429 | Purchased Water | 0.0% | 0.0% | 100.0% | 0.0% |
| Meters/Replacement | | | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Hydrants | | 111 | | | | | |
| | | | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Pipe Replacement | | 16,395 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Electricity | | 173,533 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Other Utilities | | 121,578 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Equipment | | | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Water Department Equipment | | 731 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| | | | Production & Pumping Costs | <u> </u> | | | |
| ubtotal: Operational | \$ | 1,000,494 | | \$ 267,724 | \$ 89,064 | \$ 371,429 | \$ 27 |
| <u>uildings</u> | | | | | | | |
| Cleaning Services | \$ | 4,059 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Building Maintenance | • | 30,501 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Heat | | 23,519 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| | | | neguient | | | | |
| ıbtotal: Buildings | \$ | 58,079 | | \$ 19,360 | \$ - | • | \$ 3 |
| apital Projects | | | | | | | |
| Engineering Services | \$ | 16,770 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Building Improvements | * | 51,337 | | | | | |
| | | | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Water - Vehicles | | 51,337 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Improvements | | 60,321 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| DBA Projects | | 403,970 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| ubtotal: Capital Projects | 5 | 583,736 | | \$ 262,681 | | | \$ |
| pecial Articles | | | | | | | |
| Engineering Services | \$ | - | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Engineering Services Water Improvements | \$ | ٠. | Production & Pumping Costs Production & Pumping Costs | 45.0% 45.0% | 55.0% 55.0% | 0.0% | 0.0% |
| | \$ | ·: | Production & Pumping Costs Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Water Improvements ubtotal: Special Articles | \$ | | Production & Pumping Costs Production & Pumping Costs | 45.0% | 55.0% | | |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses | \$ | | Production & Pumping Costs | 45.0% \$ | \$ 55.0% | \$ - | 0,0% \$ |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses Regular Pay | \$ \$ | 476,216 | Production & Pumping Costs Total O&M | 45.0% \$ - | \$ 55.0% | 0.0% | 0.0% |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses | \$ | 476,216 49,151 | Production & Pumping Costs | 45.0% \$ | \$ 55.0% | 0.0% | \$ 0.0% |
| Water Improvements ubtotal: Special Articles dministrative and General Expenses Regular Pay Temporary Pay | \$ | 49,151 | Production & Pumping Costs Total O&M Total O&M | \$ 57.3% \$ 57.3% | \$55.0% \$ - 42.7% 42.7% | 0.0% \$ 0.0% 0.0% | 0.0% \$ 0.0% 0.0% |
| Water Improvements absolat: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay | \$ | 49,151 73,433 | Production & Pumping Costs Total O&M Total O&M Total O&M | \$ 57.3% 57.3% 57.3% 57.3% | \$55.0% \$ - 42.7% 42.7% 42.7% | 0.0% \$ 0.0% 0.0% 0.0% | 0.0% \$ 0.0% 0.0% 0.0% |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits | \$ | 49,151 73,433 912 | Production & Pumping Costs Total O&M Total O&M Total O&M Total O&M Total O&M | \$ 57.3% \$ 57.3% \$ 57.3% \$ 57.3% \$ 57.3% | \$55.0% \$ - 42.7% 42.7% 42.7% 42.7% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% |
| Water Improvements abtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay | \$ | 49,151 73,433 912 6,845 | Production & Pumping Costs Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$55.0% \$ - 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements absolat: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement | \$ | 49,151 73,433 912 6,845 69,174 | Production & Pumping Costs Total O&M | \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$55.0% \$ 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements abtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance | \$ | 49,151 73,433 912 6,845 | Production & Pumping Costs Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$55.0% \$ - 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements thtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement | \$ | 49,151 73,433 912 6,845 69,174 | Production & Pumping Costs Total O&M | \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$55.0% \$ 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements ibtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 | Production & Pumping Costs Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$5.0% \$ 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements bbotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$5.0% \$ 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements ibitotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 | Production & Pumping Costs Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$5,0% \$42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% 42,7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 | Production & Pumping Costs Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$5.0% \$42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Production & Pumping Costs Total O&M | \$ 57.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$5.0% \$ 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 | Production & Pumping Costs Total O&M | \$ 57.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$5.0% \$42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Production & Pumping Costs Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$5.0% \$ 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements thototal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Dental Insurance Clothing Allowance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 | Production & Pumping Costs Total O&M | \$57.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% \$7.3% | \$5.0% \$42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements ibitotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 | Production & Pumping Costs Total O&M | 45.0% 57.3% | \$5,0% \$42,7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 | Production & Pumping Costs Total O&M | \$ 57.3% \$7.3% | \$5.0% \$42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements biototal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 | Production & Pumping Costs Total O&M | \$ 57.3% \$7.3% | \$5.0% \$42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 5 0.0% 0.0 |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 | Production & Pumping Costs Total O&M | 57.3% | \$5,0% \$42,7% | 0.0% | 0.0% 5 0.0% 0.0 |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Compensation Life Insurance Unemployment Compensation Life Supplies Legal Services Audit Membership & Publications Printing and Binding | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$42.7% | 0.0% | 0.0% 5 0.0% 0.0 |
| Water Improvements thotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 10,221 13,77 5,280 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% |
| Water Improvements ubtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 655 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 | Production & Pumping Costs Total O&M | 57.3% | \$5.0% \$ 42.7% 42.7 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% |
| Water Improvements Abbotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 5,103 5,17 10,221 1,377 5,280 331 3,957 25,063 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements abstotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 635 517 10,221 2,505 1,377 5,280 33,957 25,063 29,259 | Production & Pumping Costs Total O&M | 57.3% | \$5.0% \$42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 5 0.0% 0.0 |
| Water Improvements Abbotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 635 517 10,221 2,505 1,377 5,280 33,957 25,063 29,259 | Production & Pumping Costs Total O&M | 57.3% | \$5.0% \$42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements bitotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Compensation Life Insurance Unemployment Postalian Unemployment Compensation Life Insurance Unemployment Compensation Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 6,035 517 10,221 2,505 311 3,957 25,063 29,259 25,803 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$ 42.7% 42.7 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements Abtotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,47 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements biototal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 635 517 10,221 2,505 1,377 5,280 33,957 25,063 29,259 25,803 4,659 86 | Production & Pumping Costs Total O&M | \$ 57.3% 57.3 | \$5.0% \$ 42.7% 42.7 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements bitotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Compensation Life Insurance Unemployment Compensation Uniformatical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance Vehicle Maintenance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 656 1,859 7,109 5,107 10,221 11,377 5,280 3,957 25,063 29,259 25,803 4,659 86 13,466 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements biototal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 656 1,859 7,109 5,107 10,221 11,377 5,280 3,957 25,063 29,259 25,803 4,659 86 13,466 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements abstotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Unemployment Compensation Unemployment Compensation Unemployment Compensation Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance Vehicle Maintenance General Liability | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 66,635 517 10,221 5,210 331 3,957 25,663 29,259 25,803 4,659 13,466 13,466 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements bibotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebrement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance | \$ | 49,151 73,433 912 6,845 9,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 537 5,280 3,957 25,063 29,259 25,803 4,659 25,803 4,659 4,648 13,466 18,198 | Production & Pumping Costs Total O&M | \$ 57.3% 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements biotal: Special Articles Iministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 656 61,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 18,198 4,849 4,849 4,849 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements bitotal: Special Articles [ministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Benefits Stand-By Pay Retirement Bisability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge Property Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 61,859 7,109 6,035 537 10,221 2,505 13,377 5,280 13,465 13,466 18,198 4,847 202,632 14,174 | Production & Pumping Costs Total O&M | \$ 57.3% 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 |
| Water Improvements ubtotal: Special Articles dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance General Liability Fleet Insurance General Liability Fleet Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 656 61,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 18,198 4,849 4,849 4,849 | Production & Pumping Costs Total O&M | \$ 57.3% 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Water Improvements absotat: Special Articles Aministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Rebirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge Property Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 61,859 7,109 6,035 537 10,221 2,505 13,377 5,280 13,465 13,466 18,198 4,847 202,632 14,174 | Production & Pumping Costs Total O&M | \$ 57.3% \$ 57.3 | \$5.0% \$ 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |

| al: Operating & Maintenance Expenses | \$ 3 | 3,131,166 | | \$ | 1,395,782 | \$ | 1,052,959 | \$ | 371,429 | \$ | 310,996 |
|---|------|----------------|--|----------------|----------------|----|----------------|--------------|---------|--|---------|
| Subtotal: Contingency | \$ | - | | \$ | • | \$ | • | \$ | - | \$ | • |
| | \$ | · | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Contingency | • | ,,000 | | • | 1,037 | * | L,L TO | • | - | 7 | - |
| Subtotal: Metering Building at Salem Town Line | 5 | 4.083 | | 5 | 1,837 | | 2,246 | | | 5 | -10.0 |
| Electricity | | 169 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | - | 0.0% |
| Mag Meter | , | 1,592 B29 | Production & Pumping Costs Production & Pumping Costs | \vdash | 45.0% | | 55.0% | | 0.0% | - | 0.0% |
| Metering Building at Salem Town Line PRV | 5 | 1.592 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.00/ | | 7.00/ |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ | 2,322 | | \$ | 1,045 | 5 | 1,277 | 5 | - | ş | |
| SCADA Monitoring & Equipment | | 1,493 | Production & Pumping Costs |) 🗀 | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Metering Pit on Route 111 for Salem to PEU Mag Meter | \$ | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | j | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ | 22,602 | | \$ | 10,171 | \$ | 12,431 | \$ | - | \$ | |
| Electricity | | 203 | Production & Pumping Costs | l [| 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring & Equipment | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Mag-meter | | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | İ | 0.0% |
| Chemicals (Ammonia) | | 5,806 | Production & Pumping Costs | | 45.0% | _ | 55.0% | - | 0.0% | <u> </u> | 0.0% |
| Chemicals (Chlorine) | | 3,209 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Ammonia Analyzer | | 756 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chloramine Pump Package System | | 1,493 | Production & Pumping Costs | - | 45.0% | | 55.0% | | 0.0% | ļ | 0.0% |
| Chemicals (NaOH) | | 4,038 | Production & Pumping Costs Production & Pumping Costs | { ├— | 45.0% | | 55.0% 55.0% | - | 0.0% | <u> — </u> | 0.0% |
| Chem Metering Pump (NaOH) | | 199 | Production & Pumping Costs Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | - | 0.0% |
| Chemical Bulk Tank | 5 | 1,592 2,985 | Production & Pumping Costs Production & Pumping Costs | | 45.0% 45.0% | | 55.0% | | 0.0% | ļ | 0.0% |
| Metering Building @ Derry Town Line PRV | | | | | | | | | | , | |
| Subtotal: Additional Support | \$ | 57,213 | | \$ | 25,746 | \$ | 31,467 | \$ | | \$ | - |
| FTE for additional admin support | | 27,363 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Additional Support FIE for support of new water flows | \$ | 29,850 | Production & Pumping Costs | 1 | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Subtous. Prope Granges | \$ | 76,500 | | \$ | 47,685 | \$ | 28,815 | \$ | - | \$ | |
| Subtotal: MSDC Charges | | | | | | | | | | | |

SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study – Hampstead Area Water Company

Final Report / June 27, 2019







June 27, 2019

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth. NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study – Hampstead Area Water Company

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for HAWC. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox *Manager*

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1. OBJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Hampstead Area Water Company (HAWC) portion of the SNHRWI.

The charges to be calculated through this study include developing a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers:
- A rate of return applied to the utility's investment in these assets; and
- A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Salem, of approximately 250,000 gallons per day, will be assessed at a rate of \$3.06 per one hundred cubic feet (Ccf), which is draft and contingent on the finalizing of our similar report to Salem which presented the calculation of wholesale rates for HAWC as well as the Town of Windham. Table 1 presents the test year full cost components for HAWC. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| Cost Component | Test Year |
|---|-----------------|
| Source of Supply | \$ 396,052 |
| Pumping Expenses | 284,516 |
| Water Treatment Expenses | 170,729 |
| Transmission and Distribution Expense | 83,991 |
| Customer Accounts Expense | 113,121 |
| Administrative and General Expenses | 504,818 |
| MSDC Charges | 64,070 |
| Additional Support | 55,000 |
| Chloramine Conversion (for 20 stations) | 66,367 |
| Shannon Road Booster Station | 11,593 |
| Rate of Return | 499,547 |
| Taxes Other Than Income | 159,664 |
| Income Taxes | 144,869 |
| CIAC | 219,204 |
| Depreciation | 500,470 |
| Total | \$ 3,274,011 |

Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with HAWC staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| Cost Component | General Water | Fire Service | Customer Service |
|---|---------------|--------------|------------------|
| Source of Supply | \$ 394,071 | \$ 1,980 | \$ - |
| Pumping Expenses | 283,093 | 1,423 | - |
| Water Treatment Expenses | 169,875 | 854 | - |
| Transmission and Distribution Expense | 34,113 | 2,252 | 47,626 |
| Customer Accounts Expense | - | - | 113,121 |
| Administrative and General Expenses | 424,283 | 3,134 | 77,401 |
| MSDC Charges | 63,750 | 320 | - |
| Additional Support | 46,226 | 341 | 8,433 |
| Chloramine Conversion (for 20 stations) | 55,779 | 412 | 10,176 |
| Shannon Road Booster Station | 9,744 | 72 | 1,778 |
| Rate of Return | 393,149 | 5,984 | 100,415 |
| Taxes Other Than Income | 125,657 | 1,912 | 32,094 |
| Income Taxes | 114,013 | 1,735 | 29,120 |
| CIAC | 172,516 | 2,626 | 44,062 |
| Depreciation | 393,875 | 5,995 | 100,600 |
| Total | \$ 2,680,145 | \$ 29,040 | \$ 564,826 |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from HAWC's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| Cost Component | Base | Extra | Capacity | Whol | esale-only | Re | etail-only |
|---|-----------------|-------|----------|------|------------|----|------------|
| Source of Supply | \$ 10,226 | \$ | 12,499 | \$ | 371,346 | \$ | - |
| Pumping Expenses | 127,392 | | 155,701 | | - | | - |
| Water Treatment Expenses | - | | - | | - | | 169,875 |
| Transmission and Distribution Expense | 21,668 | | 12,445 | | - | | - |
| Customer Accounts Expense | - | | - | | - | | - |
| Administrative and General Expenses | 132,565 | | 150,340 | | - | | 141,378 |
| MSDC Charges | - | | - | | - | | 63,750 |
| Additional Support | 20,802 | | 25,424 | | - | | - |
| Chloramine Conversion (for 20 stations) | 25,101 | | 30,679 | | - | | - |
| Shannon Road Booster Station | 4,385 | | 5,359 | | - | | - |
| Rate of Return | 216,442 | | 156,206 | | - | | 20,501 |
| Taxes Other Than Income | 69,179 | | 49,926 | | - | | 6,553 |
| Income Taxes | 62,768 | | 45,300 | | - | | 5,945 |
| CIAC | 94,976 | | 68,544 | | - | | 8,996 |
| Depreciation | 216,841 | | 156,495 | | - | | 20,539 |
| Total | \$ 1,002,343 | \$ | 868,917 | \$ | 371,346 | \$ | 437,538 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for HAWC's calculated non-operating expenses such as its depreciation and rate of return.

The following table (Table 4) presents the final rate calculation that HAWC could assess the Town of Plaistow.

Table 4: Calculation of Wholesale Rate (per Ccf)

| | Plaistow |
|-------------------------|---------------|
| Cost of Service | |
| Operating Expenses | \$ 201,917 |
| Rate of Return | 141,372 |
| Depreciation | 52,380 |
| Other Non-Operating | 85,516 |
| Total: Cost of Service | \$ 481,185 |
| Estimated Flow (Ccf) | 121,992 |
| Calculated Rate per Ccf | \$ 3.94 |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| | | | Functional | | Functional Categ | |
|---|----------|---|--|---|--|--|
| rations and Maintenance Expense | | | <u>Category</u> | General Water | Fire | Custom |
| ource of Supply | | | | <u>Water</u> | <u>Service</u> | Servic |
| Operations | _ | | 6 114 | 00.50/ | 0.50/ | 0.00/ |
| Operation Supervision and Engineering | \$ | - | General Water | 99.5% | 0.5% | 0.0% |
| Operation Labor and Expenses | | 4,832 | General Water | 99.5% | 0.5% | 0.0% |
| Purchased Water | | 373,213 | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | 23 | General Water | 99.5% | 0.5% | 0.0% |
| Rents | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ | 1,677 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Structures and Improvements | | 4,647 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Collecting and Impounding Reservoirs | | ., | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Lake, River, and Other Intakes | | _ | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Wells and Springs | | 11,660 | General Water | 99.5% | 0.5% | 0.0% |
| | | 11,000 | General Water | | | |
| Maintenance of Infiltration Galleries and Tunnels | | - | | 99.5% | 0.5% | 0.0% |
| Maintenance of Supply Mains | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Miscellaneous Water Source Plant | | | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Source of Supply | \$ | 396,052 | | \$ 394,0 | 71 \$ 1,9 | 80 \$ |
| umping Expenses | | | | | | |
| Operations | | | | | | |
| Operation Supervision and Engineering | \$ | - [| General Water | 99.5% | 0.5% | 0.0% |
| Fuel for Power Production | | - 1 | General Water | 99.5% | 0.5% | 0.0% |
| Power Production Labor and Expenses | | _ | General Water | 99.5% | 0.5% | 0.0% |
| Fuel or Power Purchased for Pumping | | 177,913 | General Water | 99.5% | 0.5% | 0.0% |
| | | | General Water | | | |
| Pumping Labor and Expenses | | 23,050 | | 99.5% | 0.5% | 0.0% |
| Expenses Transferred-Credit | | - | General Water | 99.5% | 0.5% | 0.0% |
| Miscellaneous Expenses | | 16,254 | General Water | 99.5% | 0.5% | 0.0% |
| Rents | | - | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ | - [| General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Structures and Improvements | | 31,112 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Power Production Equipment | | ´ - | General Water | 99.5% | 0.5% | 0.0% |
| | | | | | | |
| Maintenance of Pumping Equipment | | 36,187 | General Water | 99.5% | 0.5% | 0.0% |
| Maintenance of Pumping Equipment Subtotal: Pumping Expenses | \$ | | General Water | | | |
| , 3 , , | \$ | 36,187 284,516 | General Water | | | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses | \$ | | General Water | | | |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations | | | | \$ 283,0 | 93 \$ 1,4 | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses | \$ \$ | 284,516 | General Water General Water | \$ 283,0 | | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations | | | | \$ 283,0 | 93 \$ 1,4 | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals | | 284,516 | General Water General Water | \$ 283,0° \$ 99.5% 99.5% | 93 \$ 1,4 0.5% 0.5% | 0.0% 0.0% |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses | | 284,516 | General Water General Water General Water | \$ 283,0° 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses | | 284,516 | General Water General Water General Water General Water | \$ 283,0° 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses | | 284,516 | General Water General Water General Water | \$ 283,0° 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance | \$ | 284,516 | General Water General Water General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering | | 284,516 | General Water General Water General Water General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Autotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements | \$ | 284,516 - 10,961 149,034 | General Water General Water General Water General Water General Water General Water | \$ 283,0° 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment | \$ | 284,516 - 10,961 149,034 | General Water General Water General Water General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Subtotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements | \$ | 284,516 - 10,961 149,034 | General Water General Water General Water General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Autotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses | \$ | 284,516 - 10,961 149,034 | General Water General Water General Water General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations | \$ \$ | 284,516 - 10,961 149,034 | General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operations Operation Supervision and Engineering | \$ | 284,516 - 10,961 149,034 | General Water T&D Supervision | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations | \$ \$ | 284,516 - 10,961 149,034 | General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operations Operation Supervision and Engineering | \$ \$ | 284,516 - 10,961 149,034 | General Water T&D Supervision | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Autotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Fubtotal: Water Treatment Expenses Variansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses | \$ \$ | 284,516 10,961 149,034 - 10,734 170,729 | General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses | \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 | General Water Ceneral Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operations Operations Operations Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses | \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 1,228 | General Water Customer Service Customer Service | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses | \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 | General Water Ceneral Water General Water General Water General Water General Water General Water General Water Customer Service General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Nater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Operations Operation Supervision and Engineering Stransmission and Distribution Expense Operations Operations Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses | \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 1,228 | General Water Customer Service Customer Service | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance | \$ \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 1,228 | General Water Ceneral Water General Water General Water General Water Customer Service Customer Service General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Supervision and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Fransmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance | \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 1,228 | General Water Ceneral Water General Water General Water General Water General Water General Water General Water Customer Service General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 40.6% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Auter Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance | \$ \$ \$ | 284,516 - 10,961 149,034 1 10,734 170,729 - 13,300 16,564 1,228 | General Water Ceneral Water General Water General Water General Water Customer Service Customer Service General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% 0.0% 0.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Supervision and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Fransmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Maintenance Maintenance Maintenance | \$ \$ \$ | 284,516 10,961 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water Ceneral Water General Water General Water General Water Customer Service Customer Service General Water General Water General Water General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 40.6% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Nater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes | \$ \$ \$ | 284,516 10,961 149,034 10,734 170,729 - 13,300 16,564 1,228 2,138 - 7,026 | General Water Ceneral Water General Water General Water General Water Customer Service Customer Service General Water General Water General Water General Water General Water General Water Storage | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% 0.0% 0.0% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains | \$ \$ \$ | 284,516 10,961 149,034 10,734 170,729 13,300 16,564 1,228 2,138 | General Water Customer Service Customer Service General Water | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 90.5% 0.0% 0.0% 0.0% 99.5% 99.5% 99.5% 100.0% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Nater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Supervision and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains | \$ \$ \$ | 10,961 149,034 - 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 | General Water T&D Supervision General Water General Water General Water General Water General Water T&D Supervision General Water General Water General Water T&D Supervision General Water T&D Supervision General Water Storage General Water Hydrants | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% 0.0% 0.0% 99.5% 99.5% 99.5% 99.5% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Autotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Supervision and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Fubtotal: Water Treatment Expenses Variansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Tirensmission and Distribution Mains Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Services | \$ \$ \$ | 284,516 10,961 149,034 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 23,035 | General Water Customer Service Customer Service General Water Customer Service Customer Service General Water General Water Customer Service Customer Service | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 0.0% 99.5% 40.6% 99.5% 100.0% 99.5% 100.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0. |
| Nater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Labor and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Services Maintenance of Services Maintenance of Meters | \$ \$ \$ | 284,516 10,961 149,034 - 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 23,035 6,799 | General Water Ceneral Water General Water T&D Supervision General Water General Water General Water T&D Supervision General Water Storage General Water Hydrants Customer Service Customer Service | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% 40.6% 99.5% 99.5% 100.0% 0.0% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |
| Nater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Supervision and Engineering Chemicals Operation Supervision and Engineering Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Subtotal: Water Treatment Expenses Transmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services | \$ \$ \$ | 284,516 10,961 149,034 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 23,035 | General Water Customer Service Customer Service General Water Customer Service Customer Service General Water General Water Customer Service Customer Service | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 0.0% 99.5% 40.6% 99.5% 100.0% 99.5% 100.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0. |
| Autotal: Pumping Expenses Vater Treatment Expenses Operations Operation Supervision and Engineering Chemicals Operation Supervision and Expenses Miscellaneous Expenses Rents Maintenance Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Autotal: Water Treatment Expenses Variansmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Services Maintenance of Services Maintenance of Meters | \$ \$ \$ | 284,516 10,961 149,034 - 10,734 170,729 13,300 16,564 1,228 2,138 - 7,026 11,774 23,035 6,799 | General Water Ceneral Water General Water T&D Supervision General Water General Water General Water T&D Supervision General Water Storage General Water Hydrants Customer Service Customer Service | \$ 283,0 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% 99.5% \$ 169,8 40.6% 99.5% 99.5% 0.0% 40.6% 99.5% 99.5% 100.0% 0.0% 0.0% | 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% | 23 \$ |

| Customer Accounts Expense Operations | | | | | | | | | | |
|--|----------------------|---|---|-----|---------|---|-------|---|----------------|--|
| Supervision | \$ | _ | Customer Service | | | 0.0% | | 0.0% | | 100.0% |
| | Þ | 12 707 | | - | | 0.0% | | 0.0% | | 100.0% |
| Meter Reading Expenses | | 12,787 | Customer Service | - | | | | | | |
| Customer Records and Collection Expenses | | 100,334 | Customer Service | | | 0.0% | _ | 0.0% | | 100.0% |
| Uncollectible Accounts | | - | Customer Service | | | 0.0% | | 0.0% | | 100.0% |
| Miscellaneous Customer Accounts Expenses | | | Customer Service | | | 0.0% | | 0.0% | | 100.0% |
| Subtotal: Customer Accounts Expense | \$ | 113,121 | | | \$ | - | \$ | - | \$ | 113,12 |
| Sales Expenses Operations | | | | | | | | | | |
| Sales Expenses | \$ | _ | General Water | | | 99.5% | | 0.5% | | 0.0% |
| • | | | General Water | | | | _ | | _ | 0.070 |
| Subtotal: Sales Expenses | \$ | - | | | \$ | - | \$ | - | \$ | |
| Administrative and General Expenses Operations | | | | | | | | | | |
| Administrative and General Salaries | \$ | 16,542 | Total O&M | 1 | | 84.0% | | 0.6% | | 15.3% |
| Office Supplies and Other Expenses | 4 | 46,764 | Total O&M | - 1 | | 84.0% | | 0.6% | | 15.3% |
| Administrative Expenses Transferred-Cr. | | 10,701 | Total O&M | - | | 84.0% | | 0.6% | | 15.3% |
| Outside Services Employed | | 259,165 | Total O&M | - | | 84.0% | | 0.6% | | 15.3% |
| | | 259,105 | | - | | | | | | |
| Property Insurance | | 25 721 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Injuries and Damages | | 35,731 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Employee Pension and Benefits | | 85,838 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Franchise Requirements | | 5,520 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Regulatory Commission Expenses | | 6,408 | Total O&M | 4 | | 84.0% | | 0.6% | | 15.3% |
| Duplicate Charges Cr. | | - | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Miscellaneous Expenses | | 31,950 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| General Rents | | 16,900 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Maintenance | | | | | | | | | | |
| Maintenance of General Plant | \$ | - | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Subtotal: Administrative and General Expenses | \$ | 504,818 | | | \$ | 424,283 | \$ | 3,134 | \$ | 77,40 |
| MSDC Charges | | | | | | | | | | |
| Annual Expense | \$ | 64,070 | General Water | | | 99.5% | | 0.5% | L | 0.0% |
| Subtotal: MSDC Charges | \$ | 64,070 | | | \$ | 63,750 | \$ | 320 | \$ | |
| Additional Support | | | | | | | | | | |
| FTE to support new water flows and chloramination | \$ | 55,000 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Subtotal: Additional Support | \$ | 55,000 | | | \$ | 46,226 | \$ | 341 | \$ | 8,43 |
| Chloramine Conversion (for 20 stations) | | | | | | | | | | |
| Chloramine Pump Package System | \$ | 14,000 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Ammonia Analyzer | | 15,200 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Chlorine cost | | 5,990 | | | | 84.0% | | 0.6% | - | 15.3% |
| Ammonia cost | | | I ofal ()&M | | | | | | | |
| 7 tillilloriid cosc | | 10.837 | Total O&M Total O&M | | | 84 11% | l | | | |
| Pump House Undates | | 10,837 | Total O&M | | | 84.0% | | 0.6% | | 15.3% |
| Pump House Updates | | 20,000 | Total O&M Total O&M | | | 84.0% | | 0.6% 0.6% | | 15.3% 15.3% |
| Electricity for chemical system only | <u></u> | 20,000 340 | Total O&M | | <u></u> | 84.0% 84.0% | | 0.6% 0.6% 0.6% | <u></u> | 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) | \$ | 20,000 | Total O&M Total O&M | | \$ | 84.0% | \$ | 0.6% 0.6% | \$ | 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station | | 20,000 340 66,367 | Total O&M Total O&M Total O&M | | \$ | 84.0% 84.0% 55,779 | \$ | 0.6% 0.6% 0.6% 412 | \$ | 15.3% 15.3% 15.3% 10,17 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps | \$ | 20,000 340 66,367 | Total O&M Total O&M Total O&M Total O&M | | \$ | 84.0% 84.0% 55,779 84.0% | \$ | 0.6% 0.6% 0.6% 412 | \$ | 15.3% 15.3% 15.3% 10,17 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter | | 20,000 340 66,367 3,500 833 | Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% | \$ | 0.6% 0.6% 0.6% 412 | \$ | 15.3% 15.3% 15.3% 10,17 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment | | 20,000 340 66,367 3,500 833 1,500 | Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% | \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% | \$ | 15.3% 15.3% 15.3% 10,17 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity | \$ | 20,000 340 66,367 3,500 833 1,500 5,760 | Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | | | 84.0% 84.0% 55,779 84.0% 84.0% 84.0% 84.0% | | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% | | 15.3% 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment | | 20,000 340 66,367 3,500 833 1,500 | Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% | | 0.6% 0.6% 0.6% 412 0.6% 0.6% | | 15.3% 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity | \$ | 20,000 340 66,367 3,500 833 1,500 5,760 | Total O&M | | | 84.0% 84.0% 55,779 84.0% 84.0% 84.0% 9,744 | | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% | | 15.3% 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency | \$ | 20,000 340 66,367 3,500 833 1,500 5,760 | Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M Total O&M | | \$ | 84.0% 84.0% 55,779 84.0% 84.0% 84.0% 84.0% | | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% | | 15.3% 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency | \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% | \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 0.6% | \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 1,77 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency | \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 | \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% | \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 1,77 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency Otal: Operating & Maintenance Expenses | \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% | \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 0.6% | \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan | \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% | \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 72 0.6% | \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 1,77 15.3% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service | \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% | \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 0.6% | \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 1,77 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan | \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% | \$ \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 72 0.6% | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 1,77 15.3% 258,53 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% - 1,480,934 | \$ \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 0.6% 10,789 | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 1,77 258,53 20.1% 7,35 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 | Total O&M | | \$ \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% - 1,480,934 | \$ \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 72 0.6% | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 1,77 15.3% 258,53 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency Subtotal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan surce of Supply and Pumping | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 - 1,750,257 12.87 36,583 36,583 | Total O&M | | \$ \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% - 1,480,934 78.7% 28,791 | \$ \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 0.6% 10,789 | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 258,53 20.1% |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency ortal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan surce of Supply and Pumping Land and Land Rights | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 - - 1,750,257 12.87 36,583 36,583 | Total O&M | | \$ \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% - 1,480,934 78.7% 28,791 | \$ \$ | 0.6% 0.6% 0.6% 412 0.6% 0.6% 0.6% 0.6% 72 0.6% 10,789 1.2% 438 | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 1,77 15.3% 258,53 20.1% 7,35 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan unce of Supply and Pumping Land and Land Rights Stuctures & Improvements | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 - - 1,750,257 12.87 36,583 36,583 76,185 1,276,644 | Total O&M | | \$ \$ | 84.0% 55,779 84.0% 84.0% 84.0% 84.0% 9,744 84.0% - 1,480,934 78.7% 28,791 99.5% | \$ \$ | 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 1,77 15.3% 258,53 20.1% 7,35 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan burce of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 - 1,750,257 12.87 36,583 36,583 76,185 1,276,644 921,763 106,525 | Total O&M | | \$ \$ | 84.0% 84.0% 84.0% 84.0% 84.0% 84.0% 84.0% | \$ \$ | 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% | \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 1,77 15.3% 258,53 20.1% 7,35 |
| Electricity for chemical system only Subtotal: Chloramine Conversion (for 20 stations) Shannon Road Booster Station Pumps Mag-meter SCADA Monitoring & Equipment Electricity Subtotal: Shannon Road Booster Station Contingency Subtotal: Contingency otal: Operating & Maintenance Expenses ant in Service tangible Plan Intangible Plan Intangible Plan unce of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs | \$ \$ \$ \$ | 20,000 340 66,367 3,500 833 1,500 5,760 11,593 - - 1,750,257 12.87 36,583 36,583 76,185 1,276,644 921,763 | Total O&M | | \$ \$ | 84.0% 84.0% 855,779 84.0% 84.0% 84.0% 84.0% 1,480,934 78.7% 28,791 99.5% 99.5% 99.5% 99.5% | \$ \$ | 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% 0.6% | \$ \$ \$ | 15.3% 15.3% 10,17 15.3% 15.3% 15.3% 15.3% 15.3% 15.3% 258,53 20.1% 7,33 0.0% 0.0% 0.0% 0.0% |

| Water Treatment | . | 725 071 | General Water | | 99.5% | | 0.5% | | 0.0% |
|---|----------|--------------------|-----------------------------------|-----|----------------|-----------|--------------|----------|-----------|
| Water Treatment Equipment Subtotal: Water Treatment | \$ \$ | 735,971 735,971 | General Water | \$ | 732,291 | \$ | 3,680 | \$ | 0.0% |
| Typnomicsion 9. Distribution | | | | | | | | | |
| <u>Transmission & Distribution</u> Distribution Reservoirs & Standpipes | \$ | 2,795,608 | Storage | | 100.0% | | 0.0% | | 0.0% |
| T&D Mains | т | 6,240,925 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Services | | 2,250,484 | Customer Service | | 0.0% | | 0.0% | | 100.0% |
| Meters and Meter Installations | | 1,340,115 | Customer Service | | 0.0% | | 0.0% | | 100.0% |
| Hydrants | | 158,156 | Hydrants | - | 0.5% | | 99.5% | | 0.0% |
| Other | | 303,311 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 13,088,598 | | \$ | 9,307,914 | \$ | 190,087 | \$ | 3,590,598 |
| General Plant | | | | | | | | | |
| Office Furniture and Equipment | \$ | 1,420 | Plant Investment | | 78.7% | | 1.2% | | 20.1% |
| Transportation Equipment | | 153,990 | Plant Investment | l | 78.7% | | 1.2% | | 20.1% |
| Tools, Shop and Garage Equipment | | 3,975 | Plant Investment | | 78.7% | | 1.2% | | 20.1% |
| Computer Equipment | - | 97,088 | Plant Investment | ٠. | 78.7% | _ | 1.2% | | 20.1% |
| Subtotal: General Plant | \$ | 256,473 | | \$ | 201,847 | \$ | 3,072 | \$ | 51,554 |
| Total: Plant in Service | \$ 18 | 8,155,723 | | \$ | 14,288,750 | \$ | 217,467 | \$ | 3,649,506 |
| | | | | | | | | | |
| Depreciation Intangible Plan | | | | | | | | | |
| Intangible Plant - Franchise | \$ | 915 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| - | \$ | 915 | | - | | | 9 | · - | |
| Subtotal: Intangible Plan | \$ | 915 | | \$ | 662 | \$ | 9 | \$ | 244 |
| Source of Supply and Pumping | | | | | | | | | |
| Land and Land Rights | \$ | 1,905 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Stuctures & Improvements | | 31,074 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Wells & Springs | | 29,303 | General Water | - | 99.5% | | 0.5% | | 0.0% |
| Supply Mains | | 1,530 | General Water | - | 99.5% | | 0.5% | | 0.0% |
| Pumping Equipment | | 64,129 | General Water | | 99.5% | <u> </u> | 0.5% | <u> </u> | 0.0% |
| Subtotal: Source of Supply and Pumping | \$ | 127,941 | | \$ | 127,301 | \$ | 640 | \$ | - |
| Water Treatment | | | | | | | | | |
| Water Treatment Equipment | \$ | 31,316 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Water Treatment | \$ | 31,316 | | \$ | 31,159 | \$ | 157 | \$ | - |
| Topografical of Distribution | | | | | | | | | |
| <u>Transmission & Distribution</u> Distribution Reservoirs & Standpipes | \$ | 36,760 | Storage | | 100.0% | | 0.0% | | 0.0% |
| T&D Mains | Þ | 129,952 | General Water | - | 99.5% | | 0.5% | | 0.0% |
| Services | | 51,959 | Customer Service | | 0.0% | | 0.0% | | 100.0% |
| Meters and Meter Installations | | 76,485 | Customer Service | | 0.0% | | 0.0% | | 100.0% |
| Hydrants | | 3,019 | Hydrants | | 0.5% | | 99.5% | | 0.0% |
| Other | | 24,428 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 322,604 | | \$ | 190,384 | \$ | 3,776 | \$ | 128,444 |
| Canaval Diagram | | | | | | | | | |
| General Plant Office Furniture and Equipment | \$ | _ | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| Transportation Equipment | Ψ | 12,731 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| Tools, Shop and Garage Equipment | | 205 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| Computer Equipment | | 4,759 | Depreciation | | 72.4% | | 0.9% | | 26.7% |
| Subtotal: General Plant | \$ | 17,695 | | \$ | 12,810 | \$ | 168 | \$ | 4,717 |
| Total: Depreciation | \$ | 500,470 | | \$ | 362,317 | \$ | 4,748 | \$ | 133,405 |
| rotal. Depreciation | 4 | 300,470 | | 4 | 302,317 | 4 | 4,740 | Ψ | 133,403 |
| Taxes | | | | | | | | | |
| Taxes Other Than Income | | | | . — | | | | | |
| Utility Property Tax | \$ | 30,274 | Plant Investment | | 78.7% | | 1.2% | | 20.1% |
| Real Estate | | 129,390 | Plant Investment | I L | 78.7% | <u> </u> | 1.2% | <u> </u> | 20.1% |
| Subtotal: Taxes Other Than Income | \$ | 159,664 | | \$ | 125,657 | \$ | 1,912 | \$ | 32,094 |
| Income Taxes | | | | | | | | | |
| Business Enterprise Tax | \$ | 144,869 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Income Taxes | \$ | 144,869 | | \$ | 144,144 | \$ | 724 | \$ | - |
| Total: Taxes | \$ | 304,533 | | \$ | 269,802 | \$ | 2,637 | \$ | 32,094 |
| | | | | | | | | | |
| Amortization | | 244 4 | DI : T | . — | 70.70 | | 4.207 | | 20.424 |
| CIAC Other | \$ | 216,489 2,715 | Plant Investment Plant Investment | | 78.7% 78.7% | - | 1.2% 1.2% | | 20.1% |
| Total: Amortization | \$ | 219,204 | I | \$ | 172,516 | \$ | 2,626 | \$ | 44,062 |
| | т | ., | | 7 | , | | , | | , |
| Return | | | | | | | | | |
| Estimate | \$ | 499,547 | Plant Investment | | 78.7% | | 1.2% | | 20.1% |
| Total: Return | \$ | 499,547 | | \$ | 393,149 | \$ | 5,984 | \$ | 100,415 |
| | т | . , | | т | , | | -, | | , |

| &M Expenses | | | | Water Co Extra | Wholesale | Retail |
|--|--|--|--|--|---|---|
| ource of Supply Operations | | | <u>Base</u> | Capacity | <u>Only</u> | <u>Only</u> |
| Operation Supervision and Engineering | \$ | - Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Operation Labor and Expenses | 4,80 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Purchased Water | 371,34 | | 0.00% | 0.00% | 100.00% | 0.00% |
| Miscellaneous Expenses | 2 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Rents | | - Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ 1,66 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Structures and Improvements | 4,62 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Collecting and Impounding Reservoirs | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Lake, River, and Other Intakes | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Wells and Springs | 11,60 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Infiltration Galleries and Tunnels | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Supply Mains | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Miscellaneous Water Source Plant btotal: Source of Supply | \$ 394,07 | r roduction & rumping costs | \$ 10,226 | \$ 12,499 | \$ 371,346 | \$ 0.00% |
| | ψ 331,07 | • | ψ 10/220 | 4 12,133 | ψ 3,1,3 lo | Ψ |
| nping Expenses Operations | | | | | | |
| Operation Supervision and Engineering | \$ | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Fuel for Power Production | * | - Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Power Production Labor and Expenses | | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Fuel or Power Purchased for Pumping | 177,02 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Pumping Labor and Expenses | 22,93 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Expenses Transferred-Credit | , | - Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Miscellaneous Expenses | 16,17 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Rents | , | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance | | | | | | |
| Maintenance Supervision and Engineering | \$ | - Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Structures and Improvements | 30,95 | | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Power Production Equipment | , | - Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| Maintenance of Pumping Equipment | 36,00 | Production & Pumping Costs | 45.00% | 55.00% | 0.00% | 0.00% |
| total: Pumping Expenses | \$ 283,09 | 3 | \$ 127,392 | \$ 155,701 | \$ - | \$ |
| ter Treatment Expenses | | | | | | |
| Operations | | | | | | |
| Operation Supervision and Engineering | \$ | - Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Chemicals | 10,90 | 5 Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Operation Labor and Expenses | 148,28 | Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Miscellaneous Expenses | | - Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Rents | | - Treatment | 0.00% | 0.00% | 0.00% | 100.009 |
| | | | | | | |
| Maintenance | | | | | | |
| Maintenance Operation Supervision and Engineering | \$ | - Treatment | 0.00% | 0.00% | 0.00% | 100.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements | | - Treatment | 0.00% | 0.00% | 0.00% | 100.00% 100.00% |
| Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment | 10,68 | Treatment Treatment | 0.00% | 0.00% 0.00% | 0.00% 0.00% | 100.00% 100.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements | | Treatment Treatment | 0.00% | 0.00% 0.00% | 0.00% 0.00% | 100.00% 100.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment ototal: Water Treatment Expenses nsmission and Distribution Expense | 10,68 | Treatment Treatment | 0.00% | 0.00% 0.00% | 0.00% 0.00% | 100.00% 100.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment stotal: Water Treatment Expenses nsmission and Distribution Expense Operations | 10,680 \$ 169,87 | Treatment Treatment | 0.00% 0.00% \$ - | 0.00% 0.00% \$ - | 0.00% 0.00% \$ - | 100.00% 100.00% 100.00% \$ 169 |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operations | 10,68 | Treatment Treatment Treatment TRAD Mains | 0.00% 0.00% \$ - | 0.00% 0.00% \$ - | 0.00% 0.00% \$ - | 100.00% 100.00% 100.00% \$ 16 |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses assission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses | 10,686 \$ 169,870 \$ | Treatment Treatment Treatment T&D Mains T&D Mains | 0.00% 0.00% \$ - | 0.00% 0.00% \$ - 36.48% 36.48% | 0.00% 0.00% \$ - | 100.00% 100.009 100.009 \$ 16 |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses | 10,680 \$ 169,87 | Treatment Treatment Treatment T&D Mains T&D Mains T&D Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment statal: Water Treatment Expenses nsmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses | 10,686 \$ 169,870 \$ | Treatment | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Immission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses | 10,688 \$ 169,87 \$ | Treatment | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% | 100.009 100.009 100.009 \$ 16 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses nomission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses | 10,686 \$ 169,870 \$ | Treatment | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents | 10,688 \$ 169,87 \$ | Treatment Treatment Treatment Treatment TRAD Mains TRAD Mains TRAD Mains TRAD Mains TRAD Mains TRAD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 160 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents | 10,688 \$ 169,87 \$ | Treatment Treatment Treatment Treatment TRAD Mains TRAD Mains TRAD Mains TRAD Mains TRAD Mains TRAD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance | 10,688 \$ 169,87 \$ | Treatment Treatm | 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.009 100.009 100.009 \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Institution Institu | 10,688 \$ 169,87 \$ | Treatment Treatment Treatment Treatment TRAD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment stotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements | 10,68 \$ 169,87 \$ 13,23 2,12 | Treatment Treatm | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment stotal: Water Treatment Expenses nsmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes | 10,68 \$ 169,87: \$ 13,23 2,12 \$ | Treatment Treatment Treatment Treatment TRAD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intal: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains | 10,68 \$ 169,87: \$ 13,23 2,12 \$ | Treatment Treatment Treatment Treatment Treatment TRAD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Institution Institution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services Maintenance of Services Maintenance of Meters | \$ 10,68 \$ 169,87 \$ 13,23 2,12 \$ 7,02 11,71 | Treatment Treatm | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Fervices Maintenance of Services Maintenance of Meters Maintenance of Meters Maintenance of Hydrants | 10,68 \$ 169,87: \$ 13,23 2,12 \$ | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ | 100.009 100.009 100.009 \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Institution Institution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Services Maintenance of Services Maintenance of Meters | \$ 10,68 \$ 169,87 \$ 13,23 2,12 \$ 7,02 11,71 | Treatment Treatm | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ - 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Miscallenous Equipment | 10,68 \$ 169,87 \$ 13,23 2,12 \$ 7,02 11,71 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% 5 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 169 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intela: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fransmission and Distribution Mains Maintenance of Fransmission and Distribution Mains Maintenance of Frederic Mains Maintenance of Meters Maintenance of Heters Maintenance of Hydrants Maintenance of Miscallenous Equipment Intela: Transmission and Distribution Expense Itomer Accounts Expense | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% 5 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% | 100.00% 100.00% 100.00% \$ 169 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment total: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Meters Maintenance of Meters Maintenance of Mydrants Maintenance of Miscallenous Equipment total: Transmission and Distribution Expense tomer Accounts Expense Operations | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71. 1 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% | 0.00% 0.00% \$ | 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intal: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance Of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Fervices Maintenance of Fervices Maintenance of Hydrants Maintenance of Miscallenous Equipment Maintenance of Miscallenous Equipment Motal: Transmission and Distribution Expense Operations Supervision | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71 | Treatment Treatm | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% | 0.00% 0.00% \$ | 100.00% 100.00% 100.00% \$ 169 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intela: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operations Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Expenses Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Frains Maintenance of Frains Maintenance of Frains Maintenance of Meters Maintenance of Meters Maintenance of Miscallenous Equipment Intela: Transmission and Distribution Expense | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71. 1 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% | 0.00% 0.00% 5 | 0.00% 0.00% \$ | 100.00% 100.00% 100.00% 100.00% 100.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment stotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Hydrants Maintenance of Hydrants Maintenance of Hydrants Maintenance of Miscallenous Equipment Intotal: Transmission and Distribution Expense Operations Supervision Meter Reading Expenses Customer Records and Collection Expenses | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71. 1 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% 63.52% | 0.00% 0.00% \$ - 36.48% 56.48% | 0.00% 0.00% \$ | 100.00% 100.00 |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operations Operations Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Miscellaneous Expenses Rents Maintenance Maintenance Of Distribution Reservoirs and Standpipes Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Meters Maintenance of Miscallenous Equipment Intotal: Transmission and Distribution Expense Operations Supervision Meter Reading Expenses Customer Records and Collection Expenses Uncollectible Accounts | 10,68 \$ 169,87 \$ 13,23 2,12 \$ 7,02 11,71 1 \$ 34,11 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% | 0.00% 0.00% 5 | 0.00% | 100.00% 100.009 100.009 \$ 16 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Firansmission and Distribution Mains Maintenance of Firansmission and Distribution Mains Maintenance of Meters Maintenance of Meters Maintenance of Miscallenous Equipment Intotal: Transmission and Distribution Expense Intotal: Transmission and Distribution Expense Operations Supervision Meter Reading Expenses Customer Records and Collection Expenses Uncollectible Accounts Miscellaneous Customer Accounts Expenses | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71 1 \$ 34,11. | Treatment Treatm | 0.00% 0.00% 5 63.52% | 0.00% 0.00% 0.00% \$ 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 55.00% 55.00% 55.00% | 0.00% | 100.00% 100.00% 100.00% 100.00% \$ 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operation Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Hydrants Maintenance of Miscallenous Equipment Intotal: Transmission and Distribution Expense Intotal: Transmission and Distribution Expense Operations Supervision Meter Reading Expenses Customer Accounts Expense Uncollectible Accounts Miscellaneous Customer Accounts Expenses Intotal: Customer Accounts Expense | 10,68 \$ 169,87 \$ 13,23 2,12 \$ 7,02 11,71 1 \$ 34,11 | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% \$ - 63.52% | 0.00% 0.00% 0.00% \$ 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 55.00% 55.00% 55.00% | 0.00% | 100.00% 100.00% 100.00% \$ 16 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Intotal: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operations Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Rents Maintenance Maintenance Supervision and Engineering Maintenance of Distribution Reservoirs and Standpipes Maintenance of Distribution Reservoirs and Standpipes Maintenance of Transmission and Distribution Mains Maintenance of Fire Mains Maintenance of Hydrants Maintenance of Miscallenous Equipment Intotal: Transmission and Distribution Expense Operations Supervision Meter Reading Expenses Customer Records and Collection Expenses Uncollectible Accounts Miscellaneous Customer Accounts Expense Intotal: Customer Accounts Expense Intotal: Customer Accounts Expense Statellaneous Expense Statellaneous Expenses Intotal: Customer Accounts Expense Statellaneous Expense | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71 1 \$ 34,11. | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% 5 63.52% | 0.00% 0.00% 0.00% \$ 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 55.00% 55.00% 55.00% | 0.00% | 100.00% 100.00% 100.00% 100.00% 16 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% |
| Operation Supervision and Engineering Maintenance of Structures and Improvements Maintenance of Structures and Improvements Maintenance of Water Treatment Equipment Datal: Water Treatment Expenses Insmission and Distribution Expense Operations Operations Operations Supervision and Engineering Storage Facilities Expenses Transmission and Distribution Lines Expenses Meter Expenses Customer Installations Expenses Miscellaneous Expenses Miscellaneous Expenses Rents Maintenance Maintenance Maintenance of Distribution Reservoirs and Standpipes Maintenance of Distribution Reservoirs and Standpipes Maintenance of Fire Mains Maintenance of Fire Mains Maintenance of Meters Maintenance of Meters Maintenance of Miscallenous Equipment Datal: Transmission and Distribution Expense Stomer Accounts Expense Operations Supervision Meter Reading Expenses Customer Records and Collection Expenses Uncollectible Accounts | \$ 10,68 \$ 169,87. \$ 13,23 2,12 \$ 7,02 11,71 1 \$ 34,11. | Treatment Treatment Treatment Treatment Treatment Treatment TRD Mains | 0.00% 0.00% 5 63.52% | 0.00% 0.00% 0.00% \$ 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 36.48% 55.00% 55.00% 55.00% | 0.00% | 100.00% 100.00% 100.00% 100.00% 100.00% |

| Administrative and General Expenses | | | | | | | | | | | |
|---|----------------------------------|--|---|-------------------|---|-------|---|-------|--|-------------|---|
| Operations | | 12.002 | T-t-LOOM | . — | 21 240/ | | 25 420/ | | 0.000/ | 1 | 22.220/ |
| Administrative and General Salaries | \$ | 13,903 | Total O&M | - | 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| Office Supplies and Other Expenses | | 39,304 | Total O&M | ╌ | 31.24% 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| Administrative Expenses Transferred-Cr. Outside Services Employed | | 217,820 | Total O&M Total O&M | - | 31.24% | | 35.43% 35.43% | | 0.00% | + | 33.32% 33.32% |
| Property Insurance | | 217,020 | Total O&M | - | 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| Injuries and Damages | | 30,031 | Total O&M | ╌ | 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| Employee Pension and Benefits | | 72,144 | Total O&M | | 31.24% | | 35.43% | | 0.00% | | 33.32% |
| Franchise Requirements | | 4,639 | Total O&M | | 31.24% | | 35.43% | | 0.00% | | 33.32% |
| Regulatory Commission Expenses | | 5,386 | Total O&M | | 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| Duplicate Charges Cr. | | 5,500 | Total O&M | | 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| Miscellaneous Expenses | | 26,853 | Total O&M | | 31.24% | | 35.43% | | 0.00% | | 33.32% |
| General Rents | | 14,204 | Total O&M | | 31.24% | | 35.43% | | 0.00% | + | 33.32% |
| General Rend | | 11,201 | Total Oct 1 | | 31.2170 | | 33. 1370 | | 0.0070 | | 33.32 /0 |
| Maintenance | | | | | | | | | | | |
| Maintenance of General Plant | \$ | _ | Total O&M | | 31.24% | | 35.43% | | 0.00% | | 33.32% |
| | · · | 42.4.202 | 10010011 | ' '= | | _ | | _ | | - | |
| Subtotal: Administrative and General Expenses | \$ | 424,283 | | \$ | 132,565 | \$ | 150,340 | \$ | - | \$ | 141,378 |
| MCDC Character | | | | | | | | | | | |
| MSDC Charges | | 62.750 | Torontoront | | 0.00% | | 0.00% | | 0.00% | _ | 100.00% |
| Annual Expense | \$ | 63,750 | Treatment | _ | 0.00% | _ | 0.00% | _ | 0.00% | - | |
| Subtotal: MSDC Charges | \$ | 63,750 | | \$ | - | \$ | - | \$ | - | \$ | 63,750 |
| | | | | | | | | | | | |
| Additional Support | | | | | | | | | | | |
| FTE to support new water flows and chloramination | \$ | 46,226 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Subtotal: Additional Support | \$ | 46,226 | | \$ | 20,802 | \$ | 25,424 | \$ | - | \$ | - |
| | | | | | ., | | -, | | | | |
| Chloramine Conversion (for 20 stations) | | | | _ | | | | | | | <u></u> |
| Chloramine Pump Package System | \$ | 11,767 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Ammonia Analyzer | | 12,775 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Chlorine cost | | 5,034 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Ammonia cost | | 9,108 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Pump House Updates | | 16,809 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Electricity for chemical system only | | 286 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | | 0.00% |
| Subtotal: Chloramine Conversion (for 20 stations) | \$ | 55,779 | | \$ | 25,101 | 4 | 30,679 | 4 | | \$ | |
| Subtotal: Chlorathine Conversion (for 20 stations) | Þ | 33,779 | | > | 25,101 | ⊅ | 30,679 | Þ | - | > | - |
| Channan Dand Basetov Ctation | | | | | | | | | | | |
| Shannon Road Booster Station Pumps | \$ | 2,942 | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | _ | 0.00% |
| Mag-meter | Þ | 700 | Production & Pumping Costs Production & Pumping Costs | ┨ | 45.00% | | 55.00% | | 0.00% | + | 0.00% |
| SCADA Monitoring & Equipment | | 1,261 | Production & Pumping Costs | ┨ | 45.00% | | 55.00% | | 0.00% | + | 0.00% |
| Electricity | | 4,841 | Production & Pumping Costs | ┨ | 45.00% | | 55.00% | | 0.00% | + | 0.00% |
| , | | | Production & Pullipling Costs | - | | _ | | _ | | - | 0.00% |
| Subtotal: Shannon Road Booster Station | \$ | 9,744 | | \$ | 4,385 | \$ | 5,359 | \$ | - | \$ | - |
| | | | | | | | | | | | |
| Contingency | | | | | | | | | | | |
| | | | | | | | | | | | |
| | \$ | | Production & Pumping Costs | | 45.00% | | 55.00% | | 0.00% | <u> </u> | 0.00% |
| Subtotal: Contingency | \$ | | Production & Pumping Costs | \$ | 45.00% | \$ | 55.00% | \$ | | \$ | 0.00% |
| Subtotal: Contingency | \$ | | Production & Pumping Costs | \$ | | \$ | | \$ | | \$ | 0.00% |
| | \$ | 1.480.934 | Production & Pumping Costs | _ | - | _ | - | _ | - | | - |
| Total: Operating & Maintenance Expenses | \$ \$ \$ | 1,480,934 | Production & Pumping Costs | \$ \$ | | \$ | - | \$ | | | 375,003 |
| | \$ | 1,480,934 | Production & Pumping Costs | _ | - | _ | - | _ | - | | - |
| Total: Operating & Maintenance Expenses | \$ | 1,480,934 | Production & Pumping Costs | _ | - | _ | - | _ | - | | - |
| Total: Operating & Maintenance Expenses | \$ | 1,480,934 | Production & Pumping Costs | _ | - | _ | - | _ | - | | - |
| Total: Operating & Maintenance Expenses Check | \$ | 1,480,934 | Production & Pumping Costs | _ | - | _ | - | _ | - | | - |
| Total: Operating & Maintenance Expenses Check Plant in Service | \$ | 1,480,934 - 28,791 | Production & Pumping Costs Plant Investment | _ | - | _ | - | _ | - | | - |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise | \$ \$ \$ | 28,791 | | \$ | 342,138 55.1% | \$ | 3 92,447 39.7% | \$ | 371,346 | \$ | 375,003 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan | \$ \$ | - | | _ | 342,138 | \$ | 392,447 | \$ | 371,346 | | 375,003 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan | \$ \$ \$ | 28,791 | | \$ | 342,138 55.1% | \$ | 3 92,447 39.7% | \$ | 371,346 | \$ | 375,003 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping | \$ \$ \$ | 28,791 28,791 | Plant Investment | \$ | 342,138 55.1% 15,851 | \$ | 392,447 39.7% 11,439 | \$ | 371,346 0.0% | \$ | 375,003 5.2% 1,501 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights | \$ \$ \$ | 28,791 28,791 75,804 | Plant Investment Production & Pumping Costs | \$ | 342,138 55.1% 15,851 45.0% | \$ | 392,447 39.7% 11,439 55.0% | \$ | 371,346 | \$ | 375,003 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 | Plant Investment Production & Pumping Costs Production & Pumping Costs | \$ | 342,138 55.1% 15,851 45.0% 45.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% | \$ | 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights | \$ \$ \$ | 28,791 28,791 75,804 | Plant Investment Production & Pumping Costs | \$ | 342,138 55.1% 15,851 45.0% | \$ | 392,447 39.7% 11,439 55.0% | \$ | 0.0% 0.0% | \$ | 5.2% 1,501 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 45.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 55.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 36.5% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plant Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 45.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 55.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Water Treatment Equipment | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs TRD Mains | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 1,827,687 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% - |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment | \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 1,827,687 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% - |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Subtotal: Water Treatment Transmission & Distribution | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 1,827,687 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 732,291 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 1,827,687 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 36.5% 2,190,220 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 1,501 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains T&D Mains | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 36.5% 2,190,220 0.0% 36.5% 36.5% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0. |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% | \$ | 392,447 392,447 11,439 55.0% 55.0% 55.0% 2,190,220 0.0% 36.5% 36.5% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 1,000 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains TRED Mains Treatment Treatment Treatment | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 2,190,220 0.0% - 36.5% 36.5% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 732,291 0.0% 0.0% 0.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 36.5% 2,190,220 0.0% 36.5% 0.0% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 100.0% - 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains TRED Mains Treatment Treatment Treatment | \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 0.0% | \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 2,190,220 0.0% - 36.5% 36.5% 0.0% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 732,291 0.0% 0.0% 0.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% | \$ \$ | 392,447 39.7% 11,439 55.0% 55.0% 36.5% 2,190,220 0.0% 36.5% 0.0% 0.0% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 100.0% - 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 2,795,608 6,209,720 - 791 301,794 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% 0.0% | \$ \$ | 392,447 39.7% 11,439 55.0% 55.0% 36.5% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 36.5% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 2,795,608 6,209,720 - 791 301,794 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% 0.0% | \$ \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 2,190,220 0.0% - 36.5% 36.5% 0.0% 0.0% 0.0% 36.5% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plant Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 2,795,608 6,209,720 - 791 301,794 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment TRAD Mains TRAD Mains TRAD Mains Treatment Treatment Treatment Treatment | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 0.0% 0.0% 0.0% | \$ \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 2,190,220 0.0% - 36.5% 36.5% 0.0% 0.0% 0.0% 36.5% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 2,795,608 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains TRAD Mains Treatment Treatment Treatment Treatment Treatment TRAD Mains | \$ | 55.1% 15,851 45.0% 45.0% 63.5% 45.0% 1,827,687 0.0% 63.5% 63.5% 63.5% 5,911,773 | \$ \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 36.5% 2,190,220 0.0% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 5.2% 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 791 301,794 9,307,914 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains T&D Mains Treatment Treatment Treatment Treatment TRED Mains | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 63.5% 1,827,687 0.0% 0.0% 0.0% 0.0% 5,911,773 | \$ \$ | 392,447 392,447 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% - 36.5% 0.0% 0.0% 0.0% 36.5% 36.5% 36.5% 36.5% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 732,291 0.0% 0.0% 100.0% 100.0% 100.0% 1791 |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Equipment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 791 301,794 9,307,914 1,118 121,192 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains Treatment | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 5,911,773 | \$ \$ | 392,447 39.7% 11,439 55.0% 55.0% 55.0% 36.5% 2,190,220 0.0% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 5.2% 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Transportation Equipment Transportation Equipment Transportation Equipment Transportation Equipment Computer Equipment | \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 791 301,794 9,307,914 1,118 121,192 3,128 76,409 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Tab Mains | \$ \$ \$ \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 0.0% 5,911,773 55.1% 55.1% 55.1% | \$ \$ | 392,447 392,447 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 36.5% 3,395,350 39.7% 39.7% 39.7% 39.7% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 732,291 0.0% 100.0% 100.0% 100.0% 100.0% 5.2% 5.2% 5.2% 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Equipment Subtotal: Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Transportation Equipment Transportation Equipment Trools, Shop and Garage Equipment | \$ \$ \$ \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 2,795,608 6,209,720 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Tab Mains | \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 0.0% 5.35% 5.911,773 55.1% 55.1% | \$ \$ | 392,447 392,447 11,439 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 36.5% 36.5% 39.7% 39.7% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 732,291 0.0% 100.0% 100.0% 100.0% 100.0% 5.2% 5.2% 5.2% |
| Total: Operating & Maintenance Expenses Check Plant in Service Intangible Plan Intangible Plan Intangible Plant - Franchise Subtotal: Intangible Plan Source of Supply and Pumping Land and Land Rights Stuctures & Improvements Wells & Springs Supply Mains Pumping Equipment Subtotal: Source of Supply and Pumping Water Treatment Water Treatment Transmission & Distribution Distribution Reservoirs & Standpipes T&D Mains Services Meters and Meter Installations Hydrants Other Subtotal: Transmission & Distribution General Plant Office Furniture and Equipment Transportation Equipment Transportation Equipment Transportation Equipment Transportation Equipment Transportation Equipment Computer Equipment | \$ \$ \$ \$ \$ \$ | 28,791 28,791 75,804 1,270,261 917,154 105,993 1,648,695 4,017,907 732,291 732,291 2,795,608 6,209,720 791 301,794 9,307,914 1,118 121,192 3,128 76,409 | Plant Investment Production & Pumping Costs Production & Pumping Costs Production & Pumping Costs T&D Mains Production & Pumping Costs Treatment T&D Mains T&D Mains Treatment Tab Mains | \$ \$ \$ \$ \$ \$ | 342,138 55.1% 15,851 45.0% 45.0% 45.0% 45.0% 1,827,687 0.0% 0.0% 0.0% 0.0% 5,911,773 55.1% 55.1% 55.1% | \$ \$ | 392,447 392,447 11,439 55.0% 55.0% 55.0% 55.0% 2,190,220 0.0% 0.0% 0.0% 0.0% 0.0% 36.5% 3,395,350 39.7% 39.7% 39.7% 39.7% | \$ \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ \$ | 375,003 5.2% 1,501 0.0% 0.0% 0.0% 0.0% 0.0% 100.0% 732,291 0.0% 100.0% 100.0% 100.0% 100.0% 5.2% 5.2% 5.2% 5.2% |

| Depreciation Intangible Plan | | | | | | | | | | | |
|--|----|-----------------|---|--|----------------|----------|----------------|----|-------|------|--------|
| Intangible Plant - Franchise | \$ | 662 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Subtotal: Intangible Plan | \$ | 662 | | \$ | 338 | \$ | 265 | \$ | | - \$ | 59 |
| Subtotal Intelligible Field | Ψ | 002 | | 4 | 330 | 4 | 203 | 4 | | * | 33 |
| Source of Supply and Pumping | | | | | | | | | | | |
| Land and Land Rights | \$ | 1,895 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Stuctures & Improvements | | 30,919 | Production & Pumping Costs | <u> </u> | 45.0% | | 55.0% | | 0.0% | _ | 0.0% |
| Wells & Springs | | 29,156 | Production & Pumping Costs | _ | 45.0% | - | 55.0% | | 0.0% | _ | 0.0% |
| Supply Mains | | 1,523 63,809 | Production & Pumping Costs Production & Pumping Costs | | 45.0% 45.0% | - | 55.0% 55.0% | _ | 0.0% | | 0.0% |
| Pumping Equipment | - | | Production & Pumping Costs | <u>ب</u> | | _ | | _ | 0.0% | | 0.0% |
| Subtotal: Source of Supply and Pumping | \$ | 127,301 | | \$ | 57,285 | \$ | 70,016 | \$ | | - \$ | - |
| Water Treatment | | | | | | | | | | | |
| Water Treatment Equipment | \$ | 31,159 | Treatment | | 0.0% | <u> </u> | 0.0% | | 0.0% | | 100.0% |
| Subtotal: Water Treatment | \$ | 31,159 | | \$ | - | \$ | - | \$ | | - \$ | 31,159 |
| Transmission & Distribution | | | | | | | | | | | |
| Distribution Reservoirs & Standpipes | \$ | 36,760 | T&D Mains | | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| T&D Mains | | 129,303 | T&D Mains | | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| Services | | - | Treatment | | 0.0% | | 0.0% | | 0.0% | | 100.0% |
| Meters and Meter Installations | | - | Treatment | | 0.0% | | 0.0% | | 0.0% | | 100.0% |
| Hydrants | | 15 | Treatment | | 0.0% | _ | 0.0% | | 0.0% | | 100.0% |
| Other | _ | 24,306 | T&D Mains | _ | 63.5% | | 36.5% | | 0.0% | | 0.0% |
| Subtotal: Transmission & Distribution | \$ | 190,384 | | \$ | 120,920 | \$ | 69,449 | \$ | | - \$ | 15 |
| General Plant | | | | | | | | | | | |
| Office Furniture and Equipment | \$ | - | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Transportation Equipment | | 9,217 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Tools, Shop and Garage Equipment | | 148 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Computer Equipment | | 3,445 | Depreciation | | 51.1% | <u> </u> | 40.0% | | 0.0% | | 8.9% |
| Subtotal: General Plant | \$ | 12,810 | | \$ | 6,544 | \$ | 5,122 | \$ | | - \$ | 1,145 |
| Total: Depreciation | \$ | 362,317 | | \$ | 185,088 | \$ | 144,851 | \$ | | - \$ | 32,378 |
| | | | | | | | | | | | |
| Taxes | | | | | | | | | | | |
| Taxes Other Than Income | | | | | | | | | | | |
| Utility Property Tax | \$ | 23,826 | Plant Investment | l | 55.1% | | 39.7% | | 0.0% | _ | 5.2% |
| Real Estate | _ | 101,831 | Plant Investment | <u> </u> | 55.1% | _ | 39.7% | _ | 0.0% | | 5.2% |
| Subtotal: Taxes Other Than Income | \$ | 125,657 | | \$ | 69,179 | \$ | 49,926 | \$ | | - \$ | 6,553 |
| Income Taxes | | | | | | | | | | | |
| Business Enterprise Tax | \$ | 144,144 | Total O&M | | 31.2% | <u> </u> | 35.4% | | 0.0% | | 33.3% |
| Subtotal: Income Taxes | \$ | 144,144 | | \$ | 45,037 | \$ | 51,076 | \$ | | - \$ | 48,031 |
| Total: Taxes | \$ | 269,802 | | \$ | 114,216 | \$ | 101,002 | \$ | | - \$ | 54,584 |
| | | | | | | | | | | | |
| Amortization | | | | | | | | | | | |
| CIAC | \$ | 170,379 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Other | | 2,137 | Depreciation | | 51.1% | | 40.0% | | 0.0% | | 8.9% |
| Total: Amortization | \$ | 172,516 | | \$ | 88,129 | \$ | 68,970 | \$ | | - \$ | 15,417 |
| | | | | | | | | | | | |
| Return Estimate | \$ | 393,149 | Plant Investment | | 55.1% | | 39.7% | | 0.0% | | 5.2% |
| | _ | | Fidili Investinent | <u> </u> | | - | | _ | 0.070 | | |
| Total: Return | \$ | 393,149 | | \$ | 216,442 | \$ | 156,206 | \$ | | - \$ | 20,501 |

SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study – Town of Salem

Final Report / June 27, 2019







June 27, 2019

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth. NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study - Town of Salem

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for the Town of Salem. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox

Manager

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1. OBJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Town of Salem's portion of the SNHRWI.

The charges to be calculated through this study include the following:

- Develop a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
- Develop a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers;
- A rate of return applied to the utility's investment in these assets; and
- A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Derry, of approximately 300,000 gallons per day, will be assessed at a rate of \$2.55 per one hundred cubic feet (Ccf). Table 1 presents the test year full cost components for Salem. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| Cost Component | Test Year |
|--|-----------------|
| Operational | \$ 1,060,852 |
| Buildings | 58,371 |
| Capital Projects | 586,669 |
| Administrative and General Expenses | 1,377,480 |
| MSDC Charges | 76,885 |
| Additional Support | 57,500 |
| Metering Building @ Derry Town Line | 22,716 |
| Metering Pit on Route 111 for Salem to PEU | 2,333 |
| Metering Building at Salem Town Line | 4,103 |
| Rate of Return | 716,143 |
| Depreciation | 25,590 |
| Total | \$ 3,988,642 |

Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with Town Staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| Cost Component | General Water | Fire Service | Customer Service |
|--|---------------|--------------|------------------|
| Operational | \$ 1,000,494 | \$ 27,102 | \$ 33,256 |
| Buildings | 58,079 | 292 | - |
| Capital Projects | 583,736 | 2,933 | - |
| Administrative and General Expenses | 1,326,138 | 24,489 | 26,853 |
| MSDC Charges | 76,500 | 384 | - |
| Additional Support | 57,213 | 288 | - |
| Metering Building @ Derry Town Line | 22,602 | 114 | - |
| Metering Pit on Route 111 for Salem to PEU | 2,322 | 12 | - |
| Metering Building at Salem Town Line | 4,083 | 21 | - |
| Total | \$ 3,131,166 | \$ 55,634 | \$ 60,109 |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs

that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from the Town's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| Cost Component | Base | Ext | ra Capacity | Who | lesale-only | R | etail-only |
|--------------------------------------|-----------------|-----|-------------|-----|-------------|----|------------|
| Operational | \$ 267,724 | \$ | 89,064 | \$ | 371,429 | \$ | 272,277 |
| Buildings | 19,360 | | - | | - | | 38,719 |
| Capital Projects | 262,681 | | 321,055 | | - | | - |
| Administrative and General Expenses | 759,533 | | 566,604 | | - | | - |
| MSDC Charges | - | | - | | - | | 76,500 |
| Additional Support | 25,746 | | 31,467 | | - | | - |
| Metering Building @ Derry Town Line | 10,171 | | 12,431 | | - | | - |
| Metering Pit on Route 111 | 1,045 | | 1,277 | | - | | - |
| Metering Building at Salem Town Line | 1,837 | | 2,246 | | - | | - |
| Total | \$ 1,348,097 | \$ | 1,024,144 | \$ | 371,429 | \$ | 387,497 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for Salem's calculated depreciation and rate of return.

Finally, since Salem will be providing wholesale wheeling services to both HAWC and Windham, a determination must be made on whether the calculated wholesale rates should be different, or if both entities should be assessed the same wholesale rate, making the assumption that all customers classified as wholesale would fit into the same class. In the case of the dynamics of how Salem's system will be utilized by Windham and HAWC, it was determined that Windham will utilize much less of Salem's core system. Due to this, many of Salem's core system assets and costs were excluded from the calculation of Windham's rate for wheeling service.

The following table (Table 4) presents the final rate calculations for HAWC and Windham.

Table 4: Calculation of Wholesale Rate (per Ccf)

| | HAWC | Windham |
|-------------------------|---------------|---------------|
| Cost of Service | | |
| Operating Expenses | \$ 332,960 | \$ 225,062 |
| Rate of Return | 36,948 | 29,558 |
| Depreciation | 2,393 | 1,915 |
| Total: Cost of Service | \$ 372,301 | \$ 256,535 |
| Estimated Flow (Ccf) | 121,992 | 97,594 |
| Calculated Rate per Ccf | 3.06 | 2.63 |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| | | | Functional | General | unctional Categori Fire | Custome |
|---|----|-------------------|------------------------|--------------|----------------------------|---------|
| rations and Maintenance Expense | | | Category | <u>Water</u> | <u>Service</u> | Service |
| <u>Operational</u> Small Tools & Equipment | \$ | 10,829 | General Water | 99.5% | 0.5% | 0.0% |
| Gas & Oil | Ψ | 21,714 | General Water | 99.5% | 0.5% | 0.0% |
| Gravel/Sand | | 12,084 | General Water | 99.5% | 0.5% | 0.0% |
| Resurfacing | | 26,559 | General Water | 99.5% | 0.5% | 0.0% |
| | | 62,016 | General Water | 99.5% | 0.5% | 0.0% |
| Chemicals | | | | | | |
| Tubing and Parts | | 33,256 | Customer Service | 0.0% | 0.0% | 100.0% |
| Safety | | 1,132 | General Water | 99.5% | 0.5% | 0.0% |
| Contracted Services | | 132,116 | General Water | 99.5% | 0.5% | 0.0% |
| Water Samples/Lab Services | | 51,858 | General Water | 99.5% | 0.5% | 0.0% |
| Purchase of Water | | 373,295 | General Water | 99.5% | 0.5% | 0.0% |
| Meters/Replacement | | - | Customer Service | 0.0% | 0.0% | 100.0% |
| Hydrants | | 22,186 | Hydrants | 0.5% | 99.5% | 0.0% |
| Pipe Replacement | | 16,478 | General Water | 99.5% | 0.5% | 0.0% |
| Electricity | | 174,405 | General Water | 99.5% | 0.5% | 0.0% |
| Other Utilities | | 122,189 | General Water | 99.5% | 0.5% | 0.0% |
| Equipment | | · _ | General Water | 99.5% | 0.5% | 0.0% |
| Water Department Equipment | | 735 | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Operational | \$ | 1,060,852 | Contra Trace | \$ 1,000,494 | | _ |
| | • | _,, | | 7 2,000,000 | , | ,, |
| Buildings Cleaning Services | \$ | 4,080 | General Water | 99.5% | 0.5% | 0.0% |
| Building Maintenance | ₽ | 30,654 | General Water | 99.5% | 0.5% | 0.0% |
| | | | | | | |
| Heat | | 23,637 | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Buildings | \$ | 58,371 | | \$ 58,079 | \$ 292 | \$ |
| Capital Projects | | | | | | |
| Engineering Services | \$ | 16,854 | General Water | 99.5% | 0.5% | 0.0% |
| Building Improvements | | 51,595 | General Water | 99.5% | 0.5% | 0.0% |
| Water - Vehicles | | 51,595 | General Water | 99.5% | 0.5% | 0.0% |
| Improvements | | 60,624 | General Water | 99.5% | 0.5% | 0.0% |
| DBA Projects | | 406,000 | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Capital Projects | \$ | 586,669 | | \$ 583,736 | | |
| | | | | | | |
| pecial Articles Engineering Services | \$ | | General Water | 99.5% | 0.5% | 0.0% |
| Water Improvements | , | _ | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Special Articles | \$ | | Contra Trace | \$ - | \$ - | \$ |
| , | | | | | | |
| <u>Idministrative and General Expenses</u> Regular Pay | \$ | 494,653 | Total O&M | 96.3% | 1.8% | 1.9% |
| Temporary Pay | т. | 51,054 | Total O&M | 96.3% | 1.8% | 1.9% |
| Overtime Pay | | 76,276 | Total O&M | 96.3% | 1.8% | 1.9% |
| | | | | | 1.8% | |
| Employee Retirement Benefits | | 947 | Total O&M | 96.3% | | 1.9% |
| Stand-By Pay | | 7,110 | Total O&M | 96.3% | 1.8% | 1.9% |
| Retirement | | 71,852 | Total O&M | 96.3% | 1.8% | 1.9% |
| Disability Insurance | | 4,556 | Total O&M | 96.3% | 1.8% | 1.9% |
| Workers' Compensation | | 23,316 | Total O&M | 96.3% | 1.8% | 1.9% |
| FICA-Social Security | | 46,243 | Total O&M | 96.3% | 1.8% | 1.9% |
| Health Insurance | | 208,048 | Total O&M | 96.3% | 1.8% | 1.9% |
| Unemployment Compensation | | 681 | Total O&M | 96.3% | 1.8% | 1.9% |
| Life Insurance | | 1,931 | Total O&M | 96.3% | 1.8% | 1.9% |
| Dental Insurance | | 7,384 | Total O&M | 96.3% | 1.8% | 1.9% |
| Clothing Allowance | | 6,268 | Total O&M | 96.3% | 1.8% | 1.9% |
| Office Supplies | | | | | | |
| • • | | 537 | Total O&M | 96.3% | 1.8% | 1.9% |
| Legal Services | | 10,616 | Total O&M | 96.3% | 1.8% | 1.9% |
| Audit | | 2,602 | Total O&M | 96.3% | 1.8% | 1.9% |
| Membership & Publications | | 1,430 | Total O&M | 96.3% | 1.8% | 1.9% |
| Printing and Binding | | 5,485 | Total O&M | 96.3% | 1.8% | 1.9% |
| Medical Exams/Hiring Expenses | | 344 | Total O&M | 96.3% | 1.8% | 1.9% |
| Food | | 4,110 | Total O&M | 96.3% | 1.8% | 1.9% |
| Equipment Rental | | 26,034 | Total O&M | 96.3% | 1.8% | 1.9% |
| Telephone | | 30,392 | Total O&M | 96.3% | 1.8% | 1.9% |
| Postage | | 26,802 | Total O&M | 96.3% | 1.8% | 1.9% |
| Meetings and Training | | 4,840 | Total O&M | 96.3% | 1.8% | 1.9% |
| Radio Maintenance | | 90 | Total O&M | 96.3% | 1.8% | 1.9% |
| Vehicle Maintenance | | | | 96.3% | 1.8% | 1.9% |
| | | 13,987 | Total O&M | | | |
| General Liability | | 18,903 | Total O&M | 96.3% | 1.8% | 1.9% |
| | | 5,034 | Total O&M | 96.3% | 1.8% | 1.9% |
| Fleet Insurance | | | | 96.3% | 1.8% | 1.9% |
| Administrative Service Charge | | 210,477 | Total O&M | | i | |
| | | 210,477 14,723 | Total O&M Total O&M | 96.3% | 1.8% | 1.9% |
| Administrative Service Charge | | | | | i | |

| al: Operating & Maintenance Expenses | \$ 3,170,024 | | \$ | 3,054,666 | \$ | 55,249 | \$ | 60,1 |
|---|-----------------|-----------------------------|---|----------------|----------|--------|----------|------|
| Subtotal: Contingency | \$ - | | \$ | - | \$ | - | \$ | |
| Contingency | \$ - | General Water | | 99.5% | | 0.5% | <u> </u> | 0.0% |
| Subtotal: Metering Building at Salem Town Line | \$ 4,103 | | \$ | 4,083 | \$ | 21 | \$ | |
| Electricity | 170 | General Water | <u> </u> | 99.5% | <u> </u> | 0.5% | <u> </u> | 0.0% |
| SCADA Monitoring | 1,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Mag Meter | 833 | General Water | | 99.5% | | 0.5% | | 0.0% |
| <u>Metering Building at Salem Town Line</u> PRV | \$ 1,600 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ 2,333 | | \$ | 2,322 | \$ | 12 | \$ | |
| SCADA Monitoring & Equipment | 1,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Metering Pit on Route 111 for Salem to PEU Mag Meter | \$ 833 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ 22,716 | | \$ | 22,602 | \$ | 114 | \$ | |
| Electricity | 204 | General Water | | 99.5% | | 0.5% | | 0.0% |
| SCADA Monitoring & Equipment | 1,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Mag-meter . | 833 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chemicals (Ammonia) | 5,835 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chemicals (Chlorine) | 3,225 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Ammonia Analyzer | 760 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chloramine Pump Package System | 1,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Chem Metering Pump (NaOH) Chemicals (NaOH) | 4,058 | General Water General Water | | 99.5% | | 0.5% | | 0.0% |
| Chemical Bulk Tank | 3,000 200 | General Water General Water | | 99.5% 99.5% | | 0.5% | | 0.0% |
| PRV | \$ 1,600 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Metering Building @ Derry Town Line | | | | | | | | |
| Subtotal: Additional Support | \$ 57,500 | | \$ | 57,213 | \$ | 288 | \$ | |
| FTE for additional admin support | 27,500 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Additional Support FTE for support of new water flows | \$ 30,000 | General Water | | 99.5% | | 0.5% | | 0.0% |
| Subtotal: MSDC Charges | \$ 76,885 | | \$ | 76,500 | \$ | 384 | \$ | |
| | | | _ | 99.5% | _ | 0.5% | ٠ | 0.0% |

| | | | | Water Cost Drivers | | | | | | | |
|--|----|--|---|--------------------|---|--|---|---|--|--|--|
| # Expenses | | | | | Base | Extra Cap. | Wholesale | Retai | | | |
| <u>Operational</u> Small Tools & Equipment | \$ | 10,775 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Gas & Oil | P | 21,605 | | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| | | | Production & Pumping Costs | - | | | | | | | |
| Gravel/Sand | | 12,023 | T&D Mains | - | 62.3% | 37.7% | 0.0% | 0.0% | | | |
| Resurfacing | | 26,426 | T&D Mains | - | 62.3% | 37.7% | 0.0% | 0.0% | | | |
| Chemicals | | 61,706 | Treatment | - | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Tubing and Parts | | - | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Safety | | 1,126 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Contracted Services | | 131,455 | T&D Mains | | 62.3% | 37.7% | 0.0% | 0.0% | | | |
| Water Samples/Lab Services | | 51,598 | Treatment | | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Purchase of Water | | 371,429 | Purchased Water | | 0.0% | 0.0% | 100.0% | 0.0% | | | |
| Meters/Replacement | | - ' | Treatment | | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Hydrants | | 111 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Pipe Replacement | | 16,395 | T&D Mains | | 62.3% | 37.7% | 0.0% | 0.0% | | | |
| Electricity | | | Treatment | - | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| | | 173,533 | | - | | | | | | | |
| Other Utilities | | 121,578 | Treatment | - | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Equipment | | - | Production & Pumping Costs | - | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Water Department Equipment | | 731 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Subtotal: Operational | \$ | 1,000,494 | | \$ | 267,724 | \$ 89,064 | \$ 371,429 | \$ 27 | | | |
| hildings | | | | | | | | | | | |
| Buildings | | 4.050 | Tuestonent | | 22.20/ | 0.007 | 0.007 | CC 701 | | | |
| Cleaning Services | \$ | 4,059 | Treatment | - | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Building Maintenance | | 30,501 | Treatment | | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Heat | | 23,519 | Treatment | | 33.3% | 0.0% | 0.0% | 66.7% | | | |
| Subtotal: Buildings | \$ | 58,079 | | \$ | 19,360 | \$ - | \$ - | \$ 3 | | | |
| Capital Projects | | | | | | | | | | | |
| Engineering Services | \$ | 16,770 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Building Improvements | P | | Production & Pumping Costs | | | | | | | | |
| | | 51,337 | | - | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Water - Vehicles | | 51,337 | Production & Pumping Costs | - | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Improvements | | 60,321 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| DBA Projects | | 403,970 | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Subtotal: Capital Projects | \$ | 583,736 | | \$ | 262,681 | \$ 321,055 | \$ - | \$ | | | |
| special Articles | | | | | | | | | | | |
| Engineering Services | \$ | - | Production & Pumping Costs | | 45.0% | 55.0% | 0.0% | 0.0% | | | |
| Water Improvements | | - | Duaduction 9. Dumping Costs | | 45.0% | EE 00/ | 0.00/ | 0.00/ | | | |
| | | | Production & Pumping Costs | | | 55.0% | 0.0% | 0.0% | | | |
| Subtotal: Special Articles | \$ | - | Production & Pumping Costs | \$ | - | | | \$ | | | |
| , | \$ | - | Production & Pumping Costs | \$ | | | | - | | | |
| dministrative and General Expenses | | 476 216 | | \$ | - | \$ - | \$ - | \$ | | | |
| .dministrative and General Expenses Regular Pay | \$ | 476,216 | Total O&M | \$ | 57.3% | \$ - | \$ - | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay | | 49,151 | Total O&M Total O&M | \$ | 57.3% 57.3% | \$ - 42.7% 42.7% | \$ - 0.0% 0.0% | \$ 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay | | 49,151 73,433 | Total O&M Total O&M Total O&M | \$ | 57.3% 57.3% 57.3% | \$ - 42.7% 42.7% 42.7% | \$ - 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits | | 49,151 73,433 912 | Total O&M Total O&M Total O&M Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% | \$ 42.7% 42.7% 42.7% 42.7% 42.7% | \$ 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay | | 49,151 73,433 | Total O&M Total O&M Total O&M Total O&M Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits | | 49,151 73,433 912 | Total O&M Total O&M Total O&M Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% | \$ 42.7% 42.7% 42.7% 42.7% 42.7% | \$ 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay | | 49,151 73,433 912 6,845 | Total O&M Total O&M Total O&M Total O&M Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance | | 49,151 73,433 912 6,845 69,174 4,387 | Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation | | 49,151 73,433 912 6,845 69,174 4,387 22,447 | Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 | Total O&M | \$ | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Life Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Life Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Lothing Allowance Office Supplies Legal Services | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0 | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 | Total O&M | | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | \$ | \$ | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Lothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 | Total O&M | | 57.3% | \$ | \$ | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Lothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 | Total O&M | | 57.3% | \$ | \$ | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| Ministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 4,847 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance Vehicle Maintenance General Liability Fleet Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 4,847 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance General Liability Fleet Insurance General Liability Fleet Insurance Administrative Service Charge | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 4,847 202,632 14,174 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | \$ 0.0% | | | |
| dministrative and General Expenses Regular Pay Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance Administrative Service Charge Property Insurance | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 86 13,466 18,198 4,847 202,632 | Total O&M | | 57.3% | \$ | \$ -0.0% 0.0% | \$ 0.0% | | | |

| MSDC Charges Annual Exepense | \$ | 76,500 | Retail Only | Т | 0.0% | | 0.0% | | 0.0% | | 100.0% |
|--|----|-----------|----------------------------|-----|-----------|----------|-----------|----------|---------|----------|--------|
| Subtotal: MSDC Charges | \$ | 76,500 | | | - | \$ | _ | \$ | - | \$ | 76,500 |
| Additional Support | | | | | | | | | | | |
| FTE for support of new water flows | \$ | 29,850 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| FTE for additional admin support | | 27,363 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Additional Support | \$ | 57,213 | | \$ | 25,746 | \$ | 31,467 | \$ | - | \$ | |
| Metering Building @ Derry Town Line | | | | | | | | | | | |
| PRV | \$ | 1,592 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemical Bulk Tank | | 2,985 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chem Metering Pump (NaOH) | | 199 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemicals (NaOH) | | 4,038 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chloramine Pump Package System | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Ammonia Analyzer | | 756 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemicals (Chlorine) | | 3,209 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Chemicals (Ammonia) | | 5,806 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Mag-meter | | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring & Equipment | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Electricity | | 203 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ | 22,602 | | \$ | 10,171 | \$ | 12,431 | \$ | - | \$ | |
| Metering Pit on Route 111 for Salem to PEU | | | | | | | | | | | |
| Mag Meter | \$ | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring & Equipment | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ | 2,322 | | \$ | 1,045 | \$ | 1,277 | \$ | - | \$ | |
| Metering Building at Salem Town Line | | | | | | | | | | | |
| PRV | \$ | 1,592 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Mag Meter | | 829 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| SCADA Monitoring | | 1,493 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Electricity | | 169 | Production & Pumping Costs | | 45.0% | | 55.0% | | 0.0% | | 0.0% |
| Subtotal: Metering Building at Salem Town Line | \$ | 4,083 | | 5 | 1,837 | \$ | 2,246 | \$ | - | \$ | |
| Contingency | | | | | | | | | | | |
| | \$ | - | Production & Pumping Costs | IJĻ | 45.0% | <u> </u> | 55.0% | <u> </u> | 0.0% | <u> </u> | 0.0% |
| Subtotal: Contingency | \$ | - | | \$ | - | \$ | - | \$ | - | \$ | |
| tal: Operating & Maintenance Expenses | _ | 3,131,166 | | - | 1,348,097 | \$ | 1.024.144 | Ś | 371,429 | \$ | 387,49 |



100 International Drive, Suite 152, Portsmouth, NH 03801

November 30, 2018

Michael Unger, P.E. Water Engineer, Drinking Water and Groundwater Trust Fund Drinking Water and Groundwater Bureau | NHDES 29 Hazen Drive Concord, NH 03302

Re:

Southern NH Regional Water Main Initiative (SNHRWI)

Cost of Service Study - Town of Salem

Dear Mike:

We are pleased to submit this report to the New Hampshire Department of Environmental Services (DES) for the Cost of Service Study (COSS) performed for the town of Salem on behalf the SNHRWI project. The proposed SNHRWI project includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

DES initiated the COSS to determine the cost to each community for supplying water to adjacent communities as part of the SNHRWI project. The existing water system operations for town of Salem were examined to determine how and why costs are incurred. Developing this understanding allowed for a proper allocation of future costs to the town of Salem to distribute water to adjacent communities.

Per our work scope and budget dated August 17, 2018 we have completed the draft COSS for the town of Salem with the assistance of Raftelis Financial Consultants. We wish to acknowledge the assistance of DES and town of Salem staff with gathering background information for the project. The cooperation was essential to the completion of the report and is sincerely appreciated.

Sincerely,

WESTON & SAMPSON ENGINEERS, INC.

Jeffrey W. McClure, P.E.

Senior Associate

SOUTHERN NEW HAMPSHIRE REGIONAL WATER INITIATIVE

Cost of Service Study – Town of Salem

Draft Report / November 30, 2018







November 30, 2018

Mr. Jeffery W. McClure, P.E. Senior Associate Weston & Sampson 100 International Drive, Suite 152 Portsmouth. NH 03801

Subject: Southern New Hampshire Regional Water Initiative Cost of Service Study – Town of Salem

Dear Mr. McClure,

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Draft Cost of Service Report to Weston & Sampson for the New Hampshire Department of Environmental Services' project, the Southern New Hampshire Regional Water Initiative (SNHRWI).

The major objectives of the study include the following:

- Develop a cost of service methodology and model to appropriately functionalize, allocate, and distribute costs in order to understand the cost of wheeling, or providing bulk wholesale water, from one community to another;
- Utilizing said methodology and model, the following scenarios were to be analyzed:
 - Calculate a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services;
 - Calculate a cost justified volumetric rate that HAWC can assess the Town of Plaistow for providing wholesale water wheeling services.

This draft report summarizes the key findings and recommendations related to the development of the cost of service analyses for the Town of Salem. We expect this initial report will result in further discussions with all stakeholders and that some modifications may be necessary to finalize a set of methodologies and rates that all agree to. It has been a pleasure working with you, and we look forward to continuing our work with you to finalize this important project for the region.

Sincerely,

Dave Fox *Manager*

1.1. Background

In late 2018, Raftelis was contracted by Weston & Sampson to perform wholesale water cost of service studies for the Southern New Hampshire Regional Water Initiative (SNHRWI), directed by the New Hampshire Department of Environmental Services (DES). The proposed SNHRWI includes the potential connection of water systems maintained by Manchester Water Works (MWW), the Hampstead Area Water Company (HAWC), and the towns of Salem, Derry, and Plaistow. The project would supplement domestic water demands water demands in the towns of Windham, Salem, Atkinson, Hampstead, and Plaistow through a regional water supply partnership.

1.1.1. OBJECTIVES OF THE STUDY

Raftelis was engaged with the primary objective of develop a cost of service-based rate study for developing wholesale, or wheeling, rates for water transported through the region's transmission systems of the SNHRWI. This report serves to summarize our findings, results, and recommendations for wheeling charge calculations for the Town of Salem's portion of the SNHRWI.

The charges to be calculated through this study include the following:

- Develop a cost justified volumetric rate that the Town of Salem (Salem) can assess the Town of Windham (Windham) for providing wholesale water wheeling services;
- Develop a cost justified volumetric rate that Salem can assess the Hampstead Area Water Company (HAWC) for providing wholesale water wheeling services.

1.2. Wholesale Cost of Service Methodology

Based on the objectives for this study and our understanding of the SNHRWI proposed system, Raftelis determined that the most appropriate methodology for calculating a wheeling rate is to use the Utility Approach to rate setting. The Utility Approach to rate setting is consistent with industry standards and guidelines for determining wholesale rates and charges and is recommended by the American Water Works Association. The Utility Approach to rate setting focuses on three primary cost components:

- A proportionate share of the annual depreciation expense associated with the assets that provide service to wholesale customers;
- A rate of return applied to the utility's investment in these assets; and
- A proportionate share of the operating and maintenance (O&M) expenses related to these assets.

The aforementioned components were developed utilizing a test year of calendar year 2017, which complete and audited data is present. In addition to audited 2017 data, expected and measurable changes to accommodate the proposed SNHRWI operations were added in for a complete measure of the cost of service. It should be noted that it was assumed that Salem's purchases from Derry, of approximately 300,000 gallons per day, will be assessed at a rate of \$2.55 per one hundred cubic feet (Ccf). Table 1 presents the test year full cost components for Salem. These cost components will be utilized later in this report to demonstrate the functionalization, allocation, and distribution required to provide wheeling services only.

Table 1: Test Year Costs

| Cost Component | Test Year |
|--|-----------------|
| Operational | \$ 1,060,852 |
| Buildings | 58,371 |
| Capital Projects | 586,669 |
| Administrative and General Expenses | 1,377,480 |
| MSDC Charges | 76,885 |
| Additional Support | 57,500 |
| Metering Building @ Derry Town Line | 22,716 |
| Metering Pit on Route 111 for Salem to PEU | 2,333 |
| Metering Building at Salem Town Line | 4,103 |
| Rate of Return | 716,143 |
| Depreciation | 25,590 |
| Total | \$ 3,988,642 |

Once the test year costs were developed, a cost of service analysis, utilizing the aforementioned Utility Approach, was performed. The basic principle in the establishment of cost of service rates is to achieve general fairness in the recovery of costs from various classes of customers. The approach used in this study is based on the principles endorsed by the American Water Works Association (AWWA); which allows DES and the SNHRWI communities to demonstrate rates have not been set in an arbitrary or capricious manner and one class of customer is not subsidizing another to an unjustifiable extent. Costs have been allocated between customer classes based on their estimated demand requirements and recognizing the different costs associated with serving different customer classes.

These costs were allocated proportionately to water customers based on how they use the system. The appropriate level of detail required for a cost of service analysis is contingent on system characteristics, and the accuracy and availability of data necessary to support the analysis. Based on discussions with Town Staff, it was determined that water cost components should be allocated into functional components consistent with the most significant cost causative characteristics of the customer base. The water components included source of supply, treatment, transmission, distribution, storage, meters, fire protection, billing (customer service), and administration support. Summarizing this allocation process, costs were grouped into three categories: General Water, Fire Service, and Customer Service. Table 2 presents the allocation of test year costs into these categories.

Table 2: Test Year Costs by General Function

| Cost Component | General Water | Fire Service | Customer Service |
|--|---------------|--------------|------------------|
| Operational | \$ 1,000,494 | \$ 27,102 | \$ 33,256 |
| Buildings | 58,079 | 292 | - |
| Capital Projects | 583,736 | 2,933 | - |
| Administrative and General Expenses | 1,326,138 | 24,489 | 26,853 |
| MSDC Charges | 76,500 | 384 | - |
| Additional Support | 57,213 | 288 | - |
| Metering Building @ Derry Town Line | 22,602 | 114 | - |
| Metering Pit on Route 111 for Salem to PEU | 2,322 | 12 | - |
| Metering Building at Salem Town Line | 4,083 | 21 | - |
| Total | \$ 3,131,166 | \$ 55,634 | \$ 60,109 |

The aforementioned functional Fire Service and Customer Service costs were then discarded from the remainder of the analysis, as these costs are typically not recovered through wholesale rates. The general water functional costs that remained were then allocated to their cost components in accordance with how facilities are designed. Water cost components allocations included base, extra-capacity, and categories reflecting costs

that are explicitly incurred for retail-only or wholesale-only service. Specifically, water cost components related to the functional aspects of the system including water source of supply, treatment, transmission and distribution, and storage were assigned based on a base-extra capacity cost allocation approach. This approach allocates a portion of these costs to serving a base demand and peak demand. Reasonable allocation factors were determined for each of these components, and are consistent with industry standards and practices and utilized flow data from the Town's customer demand characteristics and water production facilities. A summary of this process is presented in Table 3.

Table 3: Test Year Costs by Cost Component

| Cost Component | Base | Ext | tra Capacity | Who | lesale-only | R | etail-only |
|--------------------------------------|-----------------|-----|--------------|-----|-------------|----|------------|
| Operational | \$ 267,724 | \$ | 89,064 | \$ | 371,429 | \$ | 272,277 |
| Buildings | 19,360 | | - | | - | | 38,719 |
| Capital Projects | 262,681 | | 321,055 | | - | | - |
| Administrative and General Expenses | 759,533 | | 566,604 | | - | | - |
| MSDC Charges | 47,685 | | 28,815 | | - | | - |
| Additional Support | 25,746 | | 31,467 | | - | | - |
| Metering Building @ Derry Town Line | 10,171 | | 12,431 | | - | | - |
| Metering Pit on Route 111 | 1,045 | | 1,277 | | - | | - |
| Metering Building at Salem Town Line | 1,837 | | 2,246 | | - | | - |
| Total | \$ 1,395,782 | \$ | 1,052,959 | \$ | 371,429 | \$ | 310,996 |

Similar to how Fire Service and Customer Service costs were discarded, so were extra capacity and retail-only costs. These costs are typically incurred to only provide service to retail customers, and hence should be excluded from costs to be recovered from wholesale rates. These remaining costs were then distributed to wholesale only customers by utilizing projected wholesale flows as a percentage of total projected water productions and purchases. A similar process was completed for Salem's calculated depreciation and rate of return.

Finally, since Salem will be providing wholesale wheeling services to both HAWC and Windham, a determination must be made on whether the calculated wholesale rates should be different, or if both entities should be assessed the same wholesale rate, making the assumption that all customers classified as wholesale would fit into the same class. In the case of the dynamics of how Salem's system will be utilized by Windham and HAWC, it was determined that Windham will utilize much less of Salem's core system. Due to this, many of Salem's core system assets and costs were excluded from the calculation of Windham's rate for wheeling service.

The following table (Table 4) presents the final rate calculations for HAWC and Windham.

Table 4: Calculation of Wholesale Rate (per Ccf)

| | HAWC | Windham |
|-------------------------|---------------|---------------|
| Cost of Service | | |
| Operating Expenses | \$ 337,439 | \$ 228,645 |
| Rate of Return | 36,948 | 29,558 |
| Depreciation | 2,393 | 1,915 |
| Total: Cost of Service | \$ 376,780 | \$ 260,118 |
| Estimated Flow (Ccf) | 121,992 | 97,594 |
| Calculated Rate per Ccf | 3.09 | 2.67 |

APPENDIX A: FULL COST OF SERVICE ALLOCATIONS

| | | | | Fu | unctional Categori | es |
|---|-------------|------------|------------------------|--------------|--------------------|----------|
| | | | Functional | General | Fire | Customer |
| erations and Maintenance Expense | | | Category | <u>Water</u> | <u>Service</u> | Service |
| <u>Operational</u> | | | | | | |
| Small Tools & Equipment | \$ | 10,829 | General Water | 99.5% | 0.5% | 0.0% |
| Gas & Oil | | 21,714 | General Water | 99.5% | 0.5% | 0.0% |
| Gravel/Sand | | 12,084 | General Water | 99.5% | 0.5% | 0.0% |
| Resurfacing | | 26,559 | General Water | 99.5% | 0.5% | 0.0% |
| Chemicals | | 62,016 | General Water | 99.5% | 0.5% | 0.0% |
| Tubing and Parts | | 33,256 | Customer Service | 0.0% | 0.0% | 100.0% |
| Safety | | 1,132 | General Water | 99.5% | 0.5% | 0.0% |
| Contracted Services | | 132,116 | General Water | 99.5% | 0.5% | 0.0% |
| Water Samples/Lab Services | | 51,858 | General Water | 99.5% | 0.5% | 0.0% |
| Purchase of Water | | 373,295 | General Water | 99.5% | 0.5% | 0.0% |
| Meters/Replacement | | - | Customer Service | 0.0% | 0.0% | 100.0% |
| Hydrants | | 22,186 | Hydrants | 0.5% | 99.5% | 0.0% |
| Pipe Replacement | | 16,478 | General Water | 99.5% | 0.5% | 0.0% |
| Electricity | | 174,405 | General Water | 99.5% | 0.5% | 0.0% |
| Other Utilities | | 122,189 | General Water | 99.5% | 0.5% | 0.0% |
| Equipment | | - | General Water | 99.5% | 0.5% | 0.0% |
| Water Department Equipment | | 735 | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Operational | \$ | 1,060,852 | | \$ 1,000,494 | \$ 27,102 | \$ 33 |
| • | | | | | | |
| <u>Buildings</u> | | | | | | |
| Cleaning Services | \$ | 4,080 | General Water | 99.5% | 0.5% | 0.0% |
| Building Maintenance | • | 30,654 | General Water | 99.5% | 0.5% | 0.0% |
| Heat | | 23,637 | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Buildings | \$ | 58,371 | | \$ 58,079 | | |
| Subtotal. Buildings | \$ | 30,371 | | \$ 50,079 | \$ 292 | \$ |
| Capital Projects | | | | | | |
| Engineering Services | \$ | 16,854 | General Water | 99.5% | 0.5% | 0.0% |
| Building Improvements | Ψ | 51,595 | General Water | 99.5% | 0.5% | 0.0% |
| Water - Vehicles | | 51,595 | General Water | 99.5% | 0.5% | 0.0% |
| | | | General Water | 99.5% | 0.5% | 0.0% |
| Improvements | | 60,624 | General Water | 99.5% | 0.5% | 0.0% |
| DBA Projects | | 406,000 | Gerierai Water | | | |
| Subtotal: Capital Projects | \$ | 586,669 | | \$ 583,736 | \$ 2,933 | \$ |
| Special Articles | | | | | | |
| Engineering Services | \$ | - | General Water | 99.5% | 0.5% | 0.0% |
| Water Improvements | | <u> </u> | General Water | 99.5% | 0.5% | 0.0% |
| Subtotal: Special Articles | \$ | - | | \$ - | \$ - | \$ |
| Administrative and General Expenses | | | | | | |
| Regular Pay | \$ | 494,653 | Total O&M | 96.3% | 1.8% | 1.9% |
| Temporary Pay | | 51,054 | Total O&M | 96.3% | 1.8% | 1.9% |
| Overtime Pay | | 76,276 | Total O&M | 96.3% | 1.8% | 1.9% |
| Employee Retirement Benefits | | 947 | Total O&M | 96.3% | 1.8% | 1.9% |
| Stand-By Pay | | 7,110 | Total O&M | 96.3% | 1.8% | 1.9% |
| Retirement | | 71,852 | Total O&M | 96.3% | 1.8% | 1.9% |
| Disability Insurance | | 4,556 | Total O&M | 96.3% | 1.8% | 1.9% |
| , | | 23,316 | Total O&M | 96.3% | 1.8% | 1.9% |
| Workers' Compensation | | | | | | 1.9% |
| FICA-Social Security | | 46,243 | Total O&M | 96.3% | 1.8% | |
| Health Insurance | | 208,048 | Total O&M | 96.3% | 1.8% | 1.9% |
| Unemployment Compensation | | 681 | Total O&M | 96.3% | 1.8% | 1.9% |
| Life Insurance | | 1,931 | Total O&M | 96.3% | 1.8% | 1.9% |
| Dental Insurance | | 7,384 | Total O&M | 96.3% | 1.8% | 1.9% |
| Clothing Allowance | | 6,268 | Total O&M | 96.3% | 1.8% | 1.9% |
| Office Supplies | | 537 | Total O&M | 96.3% | 1.8% | 1.9% |
| Legal Services | | 10,616 | Total O&M | 96.3% | 1.8% | 1.9% |
| Audit | | 2,602 | Total O&M | 96.3% | 1.8% | 1.9% |
| Membership & Publications | | 1,430 | Total O&M | 96.3% | 1.8% | 1.9% |
| Printing and Binding | | 5,485 | Total O&M | 96.3% | 1.8% | 1.9% |
| Medical Exams/Hiring Expenses | | 344 | Total O&M | 96.3% | 1.8% | 1.9% |
| Food | | 4,110 | Total O&M | 96.3% | 1.8% | 1.9% |
| Equipment Rental | | 26,034 | Total O&M | 96.3% | 1.8% | 1.9% |
| Telephone | | 30,392 | Total O&M | 96.3% | 1.8% | 1.9% |
| Postage | | 26,802 | Total O&M | 96.3% | 1.8% | 1.9% |
| Meetings and Training | | 4,840 | Total O&M | 96.3% | 1.8% | 1.9% |
| Radio Maintenance | | 90 | Total O&M | 96.3% | 1.8% | 1.9% |
| Vehicle Maintenance | | 13,987 | Total O&M | 96.3% | 1.8% | 1.9% |
| General Liability | | 18,903 | Total O&M | 96.3% | 1.8% | 1.9% |
| Fleet Insurance | | 5,034 | Total O&M | 96.3% | 1.8% | 1.9% |
| Administrative Service Charge | | 210,477 | Total O&M | 96.3% | 1.8% | 1.9% |
| Property Insurance | | 14,723 | Total O&M | 96.3% | 1.8% | 1.9% |
| | | | | 96.3% | 1.8% | 1.9% |
| | | ₹Д() | | | | |
| Recording Fees Office Furniture & Equipment | | 340 416 | Total O&M Total O&M | 96.3% | 1.8% | 1.9% |

| Annual Expense | \$ 76,885 | General Water | 99.5% | 0.5% | | 0.0% |
|--|--------------|---------------|--------------|-----------|----------|------|
| Subtotal: MSDC Charges | \$ 76,885 | | \$ 76,500 | \$ 384 | \$ | |
| Additional Support | | | | | | |
| FTE for support of new water flows | \$ 30,000 | General Water | 99.5% | 0.5% | | 0.0% |
| FTE for additional admin support | 27,500 | General Water | 99.5% | 0.5% | | 0.0% |
| Subtotal: Additional Support | \$ 57,500 | | \$ 57,213 | \$ 288 | \$ | |
| Metering Building @ Derry Town Line | | | | | | |
| PRV | \$ 1,600 | General Water | 99.5% | 0.5% | | 0.0% |
| Chemical Bulk Tank | 3,000 | General Water | 99.5% | 0.5% | | 0.0% |
| Chem Metering Pump (NaOH) | 200 | General Water | 99.5% | 0.5% | | 0.0% |
| Chemicals (NaOH) | 4,058 | General Water | 99.5% | 0.5% | | 0.0% |
| Chloramine Pump Package System | 1,500 | General Water | 99.5% | 0.5% | | 0.0% |
| Ammonia Analyzer | 760 | General Water | 99.5% | 0.5% | | 0.0% |
| Chemicals (Chlorine) | 3,225 | General Water | 99.5% | 0.5% | | 0.0% |
| Chemicals (Ammonia) | 5,835 | General Water | 99.5% | 0.5% | | 0.0% |
| Mag-meter | 833 | General Water | 99.5% | 0.5% | | 0.0% |
| SCADA Monitoring & Equipment | 1,500 | General Water | 99.5% | 0.5% | | 0.0% |
| Electricity | 204 | General Water | 99.5% | 0.5% | <u> </u> | 0.0% |
| Subtotal: Metering Building @ Derry Town Line | \$ 22,716 | | \$ 22,602 | \$ 114 | \$ | |
| Metering Pit on Route 111 for Salem to PEU | | | | | | |
| Mag Meter | \$ 833 | General Water | 99.5% | 0.5% | | 0.0% |
| SCADA Monitoring & Equipment | 1,500 | General Water | 99.5% | 0.5% | | 0.0% |
| Subtotal: Metering Pit on Route 111 for Salem to PEU | \$ 2,333 | | \$ 2,322 | \$ 12 | \$ | |
| Metering Building at Salem Town Line | | | | | | |
| PRV | \$ 1,600 | General Water | 99.5% | 0.5% | | 0.0% |
| Mag Meter | 833 | General Water | 99.5% | 0.5% | | 0.0% |
| SCADA Monitoring | 1,500 | General Water | 99.5% | 0.5% | | 0.0% |
| Electricity | 170 | General Water | 99.5% | 0.5% | | 0.0% |
| Subtotal: Metering Building at Salem Town Line | \$ 4,103 | | \$ 4,083 | \$ 21 | \$ | |
| Contingency | \$ - | General Water | 99.5% | 0.5% | | 0.0% |
| Subtotal: Contingency | \$ - | | \$ - | \$ - | \$ | |
| | | | | | | |

| | | | | Base | Extra Cap. | ost Drivers Wholesale | Retail |
|--|----|--|---|---|---|--|--|
| 1 Expenses perational | | | | Dase | глиа Сар. | vviiolesale | Retall |
| | \$ | 10 775 | Deadustian & Dumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Small Tools & Equipment | \$ | 10,775 | Production & Pumping Costs | | | | |
| Gas & Oil | | 21,605 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Gravel/Sand | | 12,023 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Resurfacing | | 26,426 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Chemicals | | 61,706 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Tubing and Parts | | | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Safety | | 1,126 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Contracted Services | | 131,455 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| | | 51,598 | | 33.3% | 0.0% | 0.0% | 66.7% |
| Water Samples/Lab Services | | | Treatment | | | | |
| Purchase of Water | | 371,429 | Purchased Water | 0.0% | 0.0% | 100.0% | 0.0% |
| Meters/Replacement | | - | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Hydrants | | 111 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Pipe Replacement | | 16,395 | T&D Mains | 62.3% | 37.7% | 0.0% | 0.0% |
| Electricity | | 173,533 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Other Utilities | | 121,578 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| | | 121,370 | | | | | |
| Equipment | | - | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Water Department Equipment | | 731 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| ubtotal: Operational | \$ | 1,000,494 | | \$ 267,72 | 4 \$ 89,064 | \$ 371,429 | \$ 272 |
| | • | .,, | | | | * **** | |
| illelines | | | | | | | |
| uildings | _ | , | Territ | 00.007 | 0.007 | 0.007 | |
| Cleaning Services | \$ | 4,059 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Building Maintenance | | 30,501 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| Heat | | 23,519 | Treatment | 33.3% | 0.0% | 0.0% | 66.7% |
| ubtotal: Buildings | \$ | 58,079 | | \$ 19,36 | 0 \$ - | \$ - | \$ 38 |
| abtotal. Dullulligs | ٠ | 30,019 | | a 17,301 | - | • | φ 36 |
| | | | | | | | |
| apital Projects | | | | | | | |
| Engineering Services | \$ | 16,770 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Building Improvements | | 51,337 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Water - Vehicles | | 51,337 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| Improvements | | 60,321 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| | | | | | | | |
| DBA Projects | | 403,970 | Production & Pumping Costs | 45.0% | 55.0% | 0.0% | 0.0% |
| ubtotal: Capital Projects | \$ | 583,736 | | \$ 262,68 | 1 \$ 321,055 | \$ - | \$ |
| Water Improvements ubtotal: Special Articles | \$ | - | Production & Pumping Costs | \$ | 55.0% | \$ - | \$ |
| | | | | | | | |
| dministrative and General Expenses | | | | | | | |
| Regular Pay | | | | _ | | | |
| noguiai i aj | \$ | 476,216 | Total O&M | 57.3% | 42.7% | 0.0% | 0.0% |
| Temporary Pay | \$ | 476,216 49,151 | Total O&M Total O&M | 57.3% 57.3% | 42.7% 42.7% | 0.0% | 0.0% |
| Temporary Pay | \$ | | Total O&M | 57.3% | 42.7% | | 0.0% |
| Temporary Pay Overtime Pay | \$ | 49,151 73,433 | Total O&M Total O&M | 57.3% 57.3% | 42.7% 42.7% | 0.0% 0.0% | 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits | \$ | 49,151 73,433 912 | Total O&M Total O&M Total O&M | 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay | \$ | 49,151 73,433 912 6,845 | Total O&M Total O&M Total O&M Total O&M | 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement | \$ | 49,151 73,433 912 6,845 69,174 | Total O&M Total O&M Total O&M Total O&M Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance | S | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies | \$ | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 | Total O&M | 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
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| Temporary Pay Overtime Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
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| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Unemployment Compensation Life Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance Vehicle Maintenance General Liability Fleet Insurance | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 25,803 4,659 86 13,466 18,198 4,847 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance General Liability Fleet Insurance Administrative Service Charge | s | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 86 13,466 18,198 4,847 202,632 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |
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| Temporary Pay Overtime Pay Employee Retirement Benefits Stand-By Pay Retirement Disability Insurance Workers' Compensation FICA-Social Security Health Insurance Unemployment Compensation Life Insurance Dental Insurance Clothing Allowance Office Supplies Legal Services Audit Membership & Publications Printing and Binding Medical Exams/Hiring Expenses Food Equipment Rental Telephone Postage Meetings and Training Radio Maintenance General Liability Fleet Insurance Administrative Service Charge | | 49,151 73,433 912 6,845 69,174 4,387 22,447 44,519 200,294 656 1,859 7,109 6,035 517 10,221 2,505 1,377 5,280 331 3,957 25,063 29,259 86 13,466 18,198 4,847 202,632 | Total O&M | 57.3% | 42.7% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% | 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% |

| 0.0% | 0.0% | 37.7% | | 62.3% | T&D Mains | 76,500 | \$ | Annual Exepense |
|----------|---------|-----------------|----|-----------|----------------------------|-----------|----|--|
| - \$ | - | \$ 28,815 | \$ | 47,685 | \$ | 76,500 | \$ | Subtotal: MSDC Charges |
| | | | | | | | | Additional Support |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 29,850 | \$ | FTE for support of new water flows |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 27,363 | | FTE for additional admin support |
| - \$ | - | \$ 31,467 | \$ | 25,746 | \$ | 57,213 | \$ | Subtotal: Additional Support |
| | | | | | | | | Metering Building @ Derry Town Line |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 1,592 | \$ | PRV |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 2,985 | | Chemical Bulk Tank |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 199 | | Chem Metering Pump (NaOH) |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 4,038 | | Chemicals (NaOH) |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 1,493 | | Chloramine Pump Package System |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 756 | | Ammonia Analyzer |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 3,209 | | Chemicals (Chlorine) |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 5,806 | | Chemicals (Ammonia) |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 829 | | Mag-meter |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 1,493 | | SCADA Monitoring & Equipment |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 203 | | Electricity |
| - \$ | - | \$ 12,431 | \$ | 10,171 | \$ | 22,602 | \$ | Subtotal: Metering Building @ Derry Town Line |
| | | | | | | | | Metering Pit on Route 111 for Salem to PEU |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 829 | \$ | Mag Meter |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 1,493 | | SCADA Monitoring & Equipment |
| - \$ | - | \$ 1,277 | \$ | 1,045 | \$ | 2,322 | \$ | Subtotal: Metering Pit on Route 111 for Salem to PEU |
| | | | | | | | | Metering Building at Salem Town Line |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 1,592 | \$ | PRV |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 829 | | Mag Meter |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 1,493 | | SCADA Monitoring |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | 169 | | Electricity |
| - \$ | - | \$ 2,246 | \$ | 1,837 | \$ | 4,083 | \$ | Subtotal: Metering Building at Salem Town Line |
| | | | | | | | | Contingency |
| 0.0% | 0.0% | 55.0% | | 45.0% | Production & Pumping Costs | - | \$ | |
| - \$ | = | \$ ÷ | \$ | = | \$ | - | \$ | Subtotal: Contingency |
| 9 \$ 310 | | | _ | | | | _ | |
| 9 \$ | 371,429 | \$ 1,052,959 | \$ | 1,395,782 | \$ | 3,131,166 | \$ | otal: Operating & Maintenance Expenses |



TEL: 603.362.4299 FAX: 603.362.4936 www.hampsteadwater.com

January 13, 2020

VIA EMAIL ONLY

Christopher R. Tuomala, Esq. NH Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

RE:

Hampstead Area Water Company, Inc.

DW 19-147 - Answers to Staff Data Requests - Set

Dear Attorney Tuomala:

Pursuant to NH Code PUC 203.09, please find attached, the Company's Answers to Staff Data Requests-Set 3, regarding the above referenced docket.

If you have any questions, please don't hesitate to contact us.

Very truly yours,

Anthory Augeri, Esq.

General Counsel

AA/ljs enclosures

DW 19-147 Service list electronically cc:

\hawc02 HAWC-Data' Legal HAWC\DW-19-147 Financing Pet for SNH Water Project Correspondence Letter to Atty Tuomala with data request answers set 3 - 01-13-2020 docx

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3 ANSWERS

| Date request received: 12/27/2019 | Date of Response: 01/10/2020 |
|-----------------------------------|------------------------------|
| Staff 3-1 | Witness: Stephen C. St.Cyr |

Staff 3-1

Re: Company's response to Staff 1-8: Based on the Company's response, it appears the interest rate on the DWGTF financing should be 2.96% rather than the 2.97% interest rate indicated in the Company's original filing. Please confirm and/or explain.

Response 3-1

Yes, the interest rate on the DWGTF financing should be 2.96%.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Staff 3-2

Date of Response: 01/10/2020

Witness: Stephen St. Cyr and

Charles Lanza

Staff 3-2

Re: Company's response to Staff 1-14: While it is true that Schedule SPS-5 calculates an overall increase in the Company's revenue requirement resulting from Phase I. That information transfers to Schedule SPS-7, which calculates the anticipated impact on the Company's consumption rate to general customers. As such, without any reflection of the apportionment of those revenues to the Town of Plaistow, the calculated increase in the Company's consumption rate to general customers on Schedule SPS-7 would appear to be overstated.

- a) Please provide the Company's current estimate of annual revenues that will be received from the Town of Plaistow.
- b) Please update Schedule SPS-7 to reflect a more accurate apportionment of the estimated increase in revenues attributable to the Town of Plaistow and to the Company's general customers.

Response 3-2

- a) The Company's current estimate of annual revenues from the Town of Plaistow is \$87,834.
- b) See Company response to 3-10, which incorporates the estimated revenues from the Town of Plaistow.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Date of Response: 01/10/2020

Staff 3-3

Witness: John Sullivan

Staff 3-3

Re: Company's updated response to Staff 1-22: The Company stated that it is waiting on information from Raftelis regarding Staff's request. Please update the status of this anticipated information.

Response 3-3

We have not received the information from Raftelis. We will continue to follow up with them.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019 Date of Response: 01/10/2020

Staff 3-4 Witness: John Sullivan

Staff 3-4

Re: Company's response to Staff 1-23: The Company stated that it is waiting on information from Raftelis regarding Staff's request. Please update the status of this anticipated information.

Response 3-4

We have not received the information from Raftelis. We will continue to follow up with them.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Staff 3-5

Date of Response: 01/10/2020

Witness: John Sullivan

Staff 3-5

Re: Company's response to Staff 1-24: Please provide the calculations made by Raftelis in support of Table 4 of its Cost of Service Study prepared for the Company (Exhibit 7).

Response 3-5

We have not received the information from Raftelis. We will continue to follow up with them.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Staff 3-6

Date of Response: 01/10/2020

Witness: John Sullivan and

Charles Lanza

Staff 3-6

Re: Company's responses to Staff 2-1(a), Exhibit 2-1, and Staff 2-2(b): If the actual cost of HAWC's Phase I construction exceeds the approved DWGTF grant of \$3,283,750, please explain how the Company will finance that excess cost.

Response 3-6

The actual costs are still to be determined as many portions of the project have yet to be constructed. The Company expects the existing project contingencies to cover the project costs; however, if they do exceed the DES grant the company will first ask the trust fund for additional funds, and if unsuccessful explore getting a loan for the difference, either from a bank or its stockholder.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

| Date request received 12/27/2019 | Date of Response: 01/10/2020 |
|----------------------------------|------------------------------|
| Staff 3-7 | Witness: John Sullivan and |
| | Charles Lanza |

Staff 3-7

Re: Company's response to Staff 2-1 (e) (i) and (ii): It appears that the Company's responses to these questions are copied from its responses to Staff 2-1 (d) (iii) and (ii), respectively, but do not address the "East Road Water Main (bid by Plaistow)" project. Please provide relevant responses to Staff 2-1 (e) (i) and (ii).

Response 3-7

- i. There was a typographical error in our original response. The correct response is the following: The \$215,460.83 is the estimated value of the portion of the East Road Water Main to be contributed by Plaistow to HAWC.
- ii. HAWC is the party receiving the contributed plant. Therefore, HAWC believes it is responsible for any CIAC Tax under current tax law.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Staff 3-8

Date of Response: 01/10/2020

Witness: Charles Lanza

Staff 3-8

Re: Company's responses to Staff 2-1, Updated Exhibit 2 Schedules:

- a) It appears that these schedules do not include the 15% Westside Drive / Main Street Contingency of \$267,750. Please explain and/or provide revised Schedule 2 schedules that include this item.
- b) It does not appear the Company provided an updated Schedule 2 schedule relative to the "East Road Water Main (bid by Plaistow)" project to be contributed to HAWC by the Town of Plaistow (\$121,015 CIAC tax). Please explain and/or provide the relevant schedule.

Response 3-8

- a) See Revised Exhibit 2 dated 1-10-2020, attached.
- b) See Revised Exhibit 2 dated 1-10-2020, attached.

EXHIBIT 2

CHLORAMINES CONVERSION

PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|----------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$473,333.33 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$246,666.61 |
| 320 | Water Treatment (filters etc.) | \$396,666.66 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 4", 3", and 2" piping | \$123,333.40 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters 50 customers x \$350 per customer | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | \$0.00 |
| Total | | \$1,240,000.00 |

MAIN ST. PRESSURE REDUCING STATION PROJECT

PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|------------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$310,000.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$250,000.00 |
| 320 | Water Treatment (filters etc.) | \$0.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 12", 8", and 6" piping | \$15,000.00 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | <u>\$133,875</u> |
| Total | | \$708,875.00 |

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SHANNON RD. WATERMAIN PROJECT

PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|--------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$0.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$0.00 |
| 320 | Water Treatment (filters etc.) | \$0.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 12", 8", and 6" piping | \$542,526.00 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants (includes | |
| | installation) | \$20,000.00 |
| 339 | Miscellaneous (not otherwise included) | \$0.00 |
| Total | | \$562,526.00 |

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WESTSIDE DR. BOOSTER STATION & TREATMENT FACILITY PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|----------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$20,000.00 |
| 304 | Pump House and Site Work | \$475,000.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$390,000.00 |
| 320 | Water Treatment (filters etc.) | \$250,000.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 4", 3", and 2" piping | \$15,000.00 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | \$193,875.00* |
| Total | | \$1,343,875.00 |

^{*\$60,000 =} Past HAWC Costs to be Reimbursed under this contract. The remainder is 50% of the Westside Dr. / Main St. Contingency

F/\Legal\HAWC\DW-16-000 Wells Village\Exhibit 07 Wells Village Proj Cost Sch 08-31-16.Doc

EAST ROAD WATER MAIN PROJECT COST SCHEDULE

| PUC | CONTRACTOR'S | |
|-------|---|---------------|
| CODE | DESCRIPTION [Include machine and labor costs] | PRICE |
| 303 | Easement Deed | \$0.00 |
| 304 | Pump House and Site Work | \$0.00 |
| 304 | Booster Pumping Station | \$0.00 |
| 307 | Wells (drilling, Testing, engineering) | \$0.00 |
| 309 | Supply Mains (mains, manholes, pipes, trenching, | |
| | backfill, valves etc. from pump house to wells | \$0.00 |
| 311 | Pumping Equipment (Pumps, motors, pump house, | |
| | plumbing, electric,, connectors, piping, valves etc.) | \$0.00 |
| 320 | Water Treatment (filters etc.) | \$0.00 |
| 330 | Distribution Storage (tanks, valves, standpipes, | |
| | hydro tanks) | \$0.00 |
| 331 | Transmission and Distribution mains | |
| | i. 12", 8", and 6" piping | \$215,460.83 |
| 333 | Services (water lines to curb stop at each customer's | |
| | property line) | \$ |
| 334 | Meters | \$ |
| 335 | Hydrants x \$3,500.00 per hydrant (includes | |
| | installation) | \$0.00 |
| 339 | Miscellaneous (not otherwise included) | <u>\$0.00</u> |
| Total | | \$215,460.83 |

G 'Legal'HAWC'DW-19-147 Financing Pet For SNH Water Project'Data Requests'DW 19-147 StaffY Data Request Set 3\Attachements To Answers\Exh 2 - Chloramine Conversions Project Cost REVISED 12-30-19.Doc

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Staff 3-9

Date of Response: 01/10/2020

Witness: John Sullivan and
Charles Lanza

Staff 3-9

Re: Company's response Staff 2-3: Please provide the current status of the MSDC loan of \$392,500 with respect to each of the potential financing sources:

- a) DWGTF
- b) Pentucket Bank

Response 3-9

- a) We have been in contact with DES and requested to be on the next DWGTF meeting agenda for a decision on the MSDC loan.
- b) If our request for an MSDC loan is denied, we will approach Pentucket Bank.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 3

ANSWERS

Date request received: 12/27/2019

Staff 3-10

Date of Response: 01/10/2020

Witness: Stephen C. St. Cyr

Staff 3-10

Company's Original Filing, Exhibit 4, Schedules SPS-1 through SPS-12: Based on the Company's responses to Staff's Set 1, Set 2, and Set 3 data requests, please provide revised and updated Schedules SPS-1 through SPS-12.

Response 3-10

See 3-10 Attachment, which revises and updates SPS-1 – SPS-12

Hampstead Area Water Company

SNHRWIP Financing

Major Assumptions

- HAWC partipates in The Southern NH Regional Water Interconnection Project with NHDES, Derry, MWW, Plaistow, Salem, Windham and Pennichuck East.
- NHDES provides HAWC with grant of \$3,292,750. Towns of Salem and Plaistow provides HAWC with plant. HAWC treats grant and contributed plant as CIAC.
- Under new tax law, CIAC treated as income for federal and state tax purposes. As such, owner incurs 27.08% federal and state tax on NHDES grant and Towns of Salem and Plaistow contributed plant.
- NHDES lends \$1,102,356 (27.08% of \$4,070,737) to HAWC in order for HAWC to pay the federal and state tax. The debt financing assumes 2.96% interest rate over 25 years.
- HAWC incurs \$892,500 of MSDC Fees

HAWC's owner contributes \$500,000 of additional paid in capital. HAWC borrows \$392,500 from bank at assumed 5.00% interest rate over 20 years.

- HAWC constructs chloramines conversion facility (\$1,240,000), Main St. pressure reducing station (\$708,875) and Westside Drive booster station & treatment facility (\$1,343,875). Towns of Salem contributes Shannon Road water mains and hydrants (\$562,526). Town of Plaistow contributes water mains (\$215,461).
- Upon completion of construction and connect to the water system, HAWC submits actual costs and recovers such costs as part of a planned 2020 rate case based on a 2019 proforma test year.
- HAWC estimated that the revenue requirement associated with construction, CIAC & MSDC fee will amount to an increase in annual revenues of \$356,937 or 17.31%.
- HAWC proposed to maintain customer charges per meter size and increase consumption charges.

 HAWC estimates that the consumption charge will increase from an adjusted \$6.51 to \$7.95 per ccf.

F-1 BALANCE SHEET **Assets and Other Debits**

| г — | | | | | | _ | | | | , | |
|------|--|---------|------------|----|------------|----------|-----------------------|----------|------------|----------|-------------------|
| l | | Current | | | | | Adjusted | * 1 | | Adjusted | |
| Line | | | Year End | | OW 18-138 | ĺ | Year End | | OW 19-xxx | ' | Year End |
| No. | Account Title (Number) | | Balance | A | djustments | | Balance | A | djustments | | Balance |
| (a) | (b) | | (c) | | (d) | 匚 | (e) | <u> </u> | (f) | | (g) |
| ļ. | UTILITY PLANT | | | Ì | | | | l | | | |
| 1 | Utility Plant (101-106) | \$ | 17,673,198 | | 2,146,346 | \$ | 19,819,544 | \$ | 6,065,593 | \$ | 25,885,137 |
| 2 | Less: Accumulated Depr. and Amort. (108-110) | | 6,976,995 | | 23,848 | <u>L</u> | 7,000,843 | L | 128,729 | | 7,129,572 |
| 3 | Net Plant | \$ | 10,696,203 | \$ | 2,122,498 | \$ | 12,818,701 | \$ | 5,936,864 | \$ | 18,755,565 |
| 4 | Utility Plant Acquisition Adj. (Net) (114-115) | | 1,472 | | | ┖ | | <u> </u> | | | |
| 5 | Total Net Utility Plant | \$ | 10,697,675 | \$ | 2,122,498 | \$ | 12,820,173 | \$ | 5,936,864 | \$ | 18,757,037 |
| | OTHER PROPERTY AND INVESTMENTS | | | | | İ | | ! | | | |
| | Nonutility Property (121) | | | | | | | l | | | |
| 7 | Less: Accumulated Depr. and Amort. (122) | | | | | | | 匚 | | ļ | |
| 8 | Net Nonutility Property | | | | | | | | | | |
| 9 | Investment in Associated Companies (123) | | | | | | | l | | | |
| 11 | Utility Investments (124) | | | | | | | l | | | |
| 12 | Other Investments | | | | | | | l | | | |
| | Special Funds(126-128) | _ | | | | _ | | ļ | | | |
| 14 | Total Other Property & Investments | | | ļ | | ┖ | | L | | <u> </u> | |
| | CURRENT AND ACCRUED ASSETS | | | | | J | | 1 | | | |
| 16 | Cash (131) | \$ | 269,128 | \$ | (9,897) | \$ | 259,231 | \$ | (10,149) | \$ | 249,082 |
| | Special Deposits (132) | | | | | | | | | | |
| 18 | Other Special Deposits (133) | | | | | | | ĺ | | | |
| 19 | Working Funds (134) | - | | | | | | | | | |
| 20 | Temporary Cash Investments (135) | 1 | | | | | | | | | |
| | Accounts and Notes Receivable-Net (141-144) | | 223,980 | | | | 223,980 | l | | ŀ | 223,980 |
| 22 | Accounts Receivable from Assoc. Co. (145) | | | | | | | l | | | |
| | Notes Receivable from Assoc. Co. (146) | | | | | | | l | | | |
| | Materials and Supplies (151-153) | | 82,646 | | | | 82,646 | 1 | | | 82,646 |
| | Stores Expense (161) | | 00.000 | | | | | | | | |
| | Prepayments-Other (162) | | 23,262 | | | | 23,262 | 1 | | | 23,262 |
| | Prepaid Taxes (163) | | 38,641 | | | | 38,641 | | | | 38,641 |
| | Interest and Dividends Receivable (171) Rents Receivable (172) | | | - | | | | | | | |
| 30 | Accrued Utility Revenues (173) | ļ | 127 200 | | | | 407.000 | | | | 407.000 |
| | Misc. Current and Accrued Assets (174) | | 137,399 | İ | | | 137,399 | | | | 137,399 |
| | Total Current and Accrued Assets | \$ | 775,056 | \$ | (0.807) | <u>.</u> | 705 450 | _ | (40.440) | _ | 755.040 |
| 32 | DEFERRED DEBITS | 4 | 115,056 | 3 | (9,897) | \$ | 765,159 | \$ | (10,149) | Þ | 755,010 |
| 32 | Unamortized Debt Discount & Expense (181) | \$ | 35,179 | , | 11,875 | \$ | 47.054 | \$ | 14 00 1 | | 04.030 |
| | Extraordinary Property Losses (182) | Þ | 35,179 | \$ | 11,875 | * | 47,054 | ۱۵ | 14,324 | \$ | 61,378 |
| | Prelim. Survey & Investigation Charges (183) | | | | | | | | | | |
| | Clearing Accounts (184) | | | | | | | | | | |
| | Temporary Facilities (185) | | | | | | | | | | |
| | Miscellaneous Deferred Debits (186) | | 451,495 | | | | 451,495 | | | | 451 405 |
| | Research & Development Expenditures (187) | 1 | 401,490 | | | | 68 4 ,1 64 | | | | 451,495 |
| | Accumulated Deferred Income Taxes (190) | 1 | 12,004 | | | | 12.004 | | | | 12.004 |
| | Total Deferred Debits | S | 498.678 | S | 11,875 | \$ | 510.553 | s | 14,324 | \$ | 12,004 524,877 |
| 70 | TOTAL ASSETS AND OTHER DEBITS | | 11,971,409 | \$ | 2.124.476 | S | 14,095,885 | \$ | 5,941,039 | | 20,036,924 |
| 1 | TO THE ADDE TO AND OTHER DEBITS | Ψ | 11,5/1,408 | Φ | ۵, ۱۷4,470 | Φ | 14,080,000 | Ψ | 5,841,039 | Φ | 20,030,924 |

F-1 BALANCE SHEET Equity Capital and Liabilities

| Line | | Тс | urrent Year | DW 18-138 | | Ad | justed Year | r DW 19-xxx | | Ad | justed Year |
|------|--|---------------|-------------------------|-------------|-------------|-----------|-------------------------|-------------|-------------|----|-------------|
| No. | Account Title (Number) | E | nd Balance | | Adjustments | | nd Balance | | djustments | | nd Balance |
| (a) | (b) | | (c) | ł | (d) | - | (e) | | (f) | - | (g) |
| | EQUITY CAPITAL | | | | \/ | | | Г | | | \91 |
| 1 | Common Stock Issued (201) | \$ | 16,767 | | | 8 | 16,767 | l | | \$ | 16,767 |
| 2 | Preferred Stock Issued (204) | 1 | | | | ` | ,, | l | | * | , |
| 3 | Capital Stock Subscribed (202,205) | 1 | | | | | | | | | |
| 4 | Stock Liability for Conversion (203, 206) | | | | | | | l | | | |
| 5 | Premium on Capital Stock (207) | | | | | | | l | | | |
| 6 | Installments Received On Capital Stock (208) | | | | | | | l | | | |
| 7 | Other Paid-In Capital (209,211) | | 3,554,354 | | | | 3,554,354 | l | 500,000 | | 4,054,354 |
| 8 | Discount on Capital Stock (212) | | _,, | | | | -100.100. | l | 000,000 | | ,,55 ,,55 , |
| 9 | Capital Stock Expense(213) | | | | | | | l | | | |
| 10 | Retained Earnings (214-215) | ļ | (897,056) | | 10,595 | | (886,461) | | 3,567 | | (882,894) |
| 11 | Reacquired Capital Stock (216) | İ | (, | | , , , , , , | | (,, | | 0,007 | | (002,001) |
| 12 | Total Equity Capital | \$ | 2,674,065 | \$ | 10,595 | \$ | 2,684,660 | \$ | 503,567 | \$ | 3,188,227 |
| | LONG TERM DEBT | <u> </u> | | Ť | ,,,,, | · · | _,00.,000 | Ť | 000,001 | _ | 0,100,221 |
| 13 | Bonds (221) | | | | | | | | | | |
| 14 | Reacquired Bonds (222) | | | | | | | | | | |
| | Advances from Associated Companies (223) | | | ĺ | | | | | | | |
| 16 | Other Long-Term Debt (224) | \$ | 3,658,170 | \$ | 996,777 | \$ | 4,654,947 | | 1,452,898 | \$ | 6,107,845 |
| 17 | Total Long-Term Debt | \$ | 3,658,170 | \$ | 996,777 | \$ | 4,654,947 | \$ | 1,452,898 | \$ | 6,107,845 |
| | CURRENT AND ACCRUED LIABILITIES | Ť | -1001 | | 000, | * | .,00.,0,. | | 1,102,000 | _ | 0,107,010 |
| 18 | Accounts Payable (231) | \$ | 30,042 | | | \$ | 30,042 | | | \$ | 30,042 |
| | Notes Payable (232) | 1 | 00,042 | | | Ψ | 00,042 | | | Ψ | 30,042 |
| | Accounts Payable to Associated Co. (233) | | 44,093 | | | | 44,093 | | | | 44,093 |
| 21 | Notes Payable to Associated Co. (234) | | 44,000 | | | | 44,000 | | | | 44,055 |
| | Customer Deposits (235) | | 7,636 | | | | 7,636 | | | | 7,636 |
| | Accrued Taxes (236) | | 5,486 | 1 | | | 5,486 | | | | 5,486 |
| | Accrued Interest (237) | | 0,100 | | | | 3,400 | | | | 3,400 |
| | Accrued Dividends (238) | | | | | | | | | | |
| | Matured Long-Term Debt (239) | Ì | | | | | | | | | |
| | Matured Interest (240) | | | | | | | | | | |
| | Misc. Current and Accrued Liabilities (241) | | 28,226 | | | | 28,226 | | | | 28,226 |
| | Total Current and Accrued Liabilities | \$ | 115,483 | \$ | _ | \$ | 115,483 | | | \$ | 115,483 |
| | DEFERRED CREDITS | <u> </u> | | ۳ | | | 110,400 | | | Ψ | 110,400 |
| 30 | Unamortized Premium on Debt (251) | | | | | | | | | | |
| | Advances for Construction (252) | | | | i | | | | | | |
| . 1 | Other Deferred Credits (253) | | | | | | | | | | |
| | Accumulated Deferred Investment | | | | | | | | | | |
| | Tax Credits (255) | ł | | | | | | | | | |
| | Accumulated Deferred Income Taxes: | | | | | | | | | | |
| | Accelerated Amortization (281) | | | | | | | | | | |
| 36 | Liberalized Depreciation (282) | | 56,578 | | | | 56,578 | | | | 56,578 |
| | Other (283) | | 00,010 | | | | 30,316 | | j | | 30,370 |
| | Total Deferred Credits | \$ | 56,578 | \vdash | | \$ | 56,578 | | | \$ | 56,578 |
| - 55 | OPERATING RESERVES | - | 30,310 | | | <u>-</u> | 30,376 | | | Ψ | 30,370 |
| 39 | Property Insurance Reserve (261) | | | | | | | | | | |
| | Injuries and Damages Reserve (262) | | | | | | | | | | |
| | Pensions and Benefits Reserves (263) | | 16,451 | | İ | | 16,451 | | | | 16 454 |
| | Miscellaneous Operating Reserves (265) | | 10,401 | | | | 10,401 | | | | 16,451 |
| | Total Operating Reserves | \$ | 16,451 | \$ | - | \$ | 16,451 | | | \$ | 16 454 |
| 75 | CONTRIBUTIONS IN AID OF CONSTRUCTION | Ψ | 10,431 | 4 | | φ | 10,431 | | | Φ. | 16,451 |
| 44 | Contributions In Aid of Construction (271) | e | 0 100 950 | | 1 117 104 | ¢ | 10 236 054 | | 4 070 727 | e | 44 207 604 |
| | Accumulated Amortization of C.I.A.C. (272) | \$ | 9,109,850 | \$ | 1,117,104 | Ф | 10,226,954 | | 4,070,737 | Ф | 14,297,691 |
| | Total Net C.I.A.C. | | 3,659,188 | - | 1 117 104 | œ | 3,659,188 | • | 86,163 | ď | 3,745,351 |
| 46 | TOTAL EQUITY CAPITAL AND LIABILITIES | \$ | 5,450,662 11,971,409 | \$ | 1,117,104 | <u>\$</u> | 6,567,766 14,095,885 | \$ | 3,984,574 | | 10,552,340 |
| 70 | TOTAL EQUITY CAPITAL AND LIABILITIES | Φ | 11,871,409 | \$ | 2,124,476 | \$ | 14,090,000 | \$ | 5,941,039 | \$ | 20,036,924 |

F-2 STATEMENT OF INCOME

| Line | | C | urrent Year | | OW 18-138 | Ac | justed Year | l Di | W 19-xxx | Ad | justed Year |
|------|---|-----|---------------------|----|------------------|----------|----------------------|----------------|---------------------------------------|-----|-------------|
| No. | Account Title (Number) | E | nd Balance | A | djustments | | nd Balance | | ustments | | nd Balance |
| (a) | (b) | | (c) | | (d) | | (e) | ' | (f) | | (g) |
| | UTILITY OPERATING INCOME | | | | • • | | | 1 | | | 1.07 |
| 1 | Operating Revenues(400) | \$ | 2,043,478 | \$ | 97,003 | \$ | 2,140,481 | \$ | 356,937 | \$ | 2,497,418 |
| 2 | Operating Expenses: | | | | | | | | | | |
| 3 | Operating and Maintenance Expense (401) | | 1,582,686 | ŀ | |] | 1,582,686 | | 200,000 | | 1,782,686 |
| | Depreciation Expense (403) | | 525,662 | | 23,848 | | 549,510 | | 128,729 | | 678,239 |
| 5 | Amortization of Contribution in Aid of | | | | | | | | | ļ | |
| _ | Construction (405) | | (221,212) | | (12,552) | | (233,764) | l | (86,163) | 1 | (319,927) |
| 6 | Amortization of Utility Plant Acquisition | ĺ | | | | | | 1 | | | |
| 7 | Adjustment (406) Amortization Expense-Other (407) | | 31 | | | | 0.040 | | | | 0.040 |
| | Taxes Other Than Income (408.1-408.13) | | 3,616 | | 40.404 | | 3,616 | l | F0 F47 | | 3,616 |
| 9 | Income Taxes (409.1, 410.1, 411.1, 412.1) | | 154,064 | | 40,184 | | 194,248 | l | 58,547 | | 252,795 |
| 10 | Total Operating Expenses | \$ | 12,601 2,057,448 | \$ | 245 51,725 | \$ | 12,846 2,109,142 | - | 301,114 | - | 12,846 |
| 11 | Net Operating Income (Loss) | \$ | (13,970) | | 45,278 | \$ | | \$ | · · · · · · · · · · · · · · · · · · · | \$ | 2,410,256 |
| | Income From Utility Plant Leased to | 1 3 | (13,970) | D | 45,276 | 3 | 31,339 | ٦ ا | 55,824 | ٦ | 87,163 |
| 12 | Others (413) | | | | | | | | | | |
| 13 | Gains(Losses) From Disposition of | | | | | | | | | | |
| | Utility Property (414) | 1 | | | | | | | | | |
| 14 | Net Water Utility Operating Income | \$ | (13,970) | \$ | 45,278 | \$ | 31,339 | \$ | 55,824 | \$ | 87,163 |
| `` | OTHER INCOME AND DEDUCTIONS | | (10,070) | - | 40,270 | ۳. | 01,000 | * | 33,024 | 1 * | 07,100 |
| 15 | Revenues From Merchandising, Jobbing and | | | | | | | | | | |
| | Contract Work (415) | | | ļ | | | | | | 1 | |
| 16 | Costs and Expenses of Merchandising. | | | | | | | | | | |
| | Jobbing and Contract Work (416) | | | | | | | 1 | | | |
| 17 | Equity in Earnings of Subsidiary | | | İ | | | | | | | |
| | Companies (418) | | | | | | | | | | |
| 18 | Interest and Dividend Income (419) | - | 1,076 | | | | 1,076 | | | | 1,076 |
| | Allow, for funds Used During | 1 | | | | | | | | | |
| | Construction (420) | | | | | | | | | | |
| | Nonutility Income (421) | | (209) | | | | (209) | | | | (209) |
| | Gains (Losses) Form Disposition | | | | | | | | | | |
| | Nonutility Property (422) | | | | | | | | | | |
| 22 | Miscellaneous Nonutility Expenses (426) | | | | | | | | | | |
| 23 | Total Other Income and Deductions | \$ | 867 | \$ | - | | 867 | \$ | - | | 867 |
| ٠. ١ | TAXES APPLICABLE TO OTHER INCOME | | | ļ | | | | | | ļ | |
| | Taxes Other Than Income (408.2) | | | | | | | | | l | |
| | Income Taxes (409.2, 410.2, 411.2, | | | | | | | | | ĺ | |
| | 412.2, 412.3) | | | | | | | | | | |
| 26 | Total Taxes Applicable To Other Income | - | | | | | | | | | |
| 22 | INTEREST EXPENSE | | 101.011 | ١. | | | | | | ١. | |
| | Interest Expense (427) | \$ | 121,214 | \$ | 34,058 | \$ | 155,272 | \$ | 51,581 | \$ | 206,853 |
| | Amortization of Debt Discount & Expense (428) | | 2.705 | | 005 | | D 000 | | 070 | | 4 000 |
| | Amortization of Premium on Debt (429) | | 2,765 | | 625 | | 3,390 | | 676 | | 4,066 |
| | Total Interest Expense | • | 123,979 | 6 | 24 692 | • | 150 000 | • | E2 257 | - | 240.040 |
| | Income Before Extraordinary Items | \$ | (137,082) | \$ | 34,683 10,595 | \$ \$ | 158,662 (126,456) | \$ | 52,257 3,567 | \$ | 210,919 |
| ٠' ا | EXTRAORDINARY ITEMS | Φ | (107,002) | ď | 10,595 | Φ | (120,400) | | 3,50/ | Þ | (122,889) |
| 32 | Extraordinary Income (433) | | | | | | | | | | |
| | Extraordinary Income (433) Extraordinary Deductions (434) | | | | | | | | | | |
| | Income Taxes, Extraordinary Items (409.3) | | | | | | | | | | |
| | Net Extraordinary Items | - | | | | | | <u> </u> | | - | |
| ٠٠ | NET INCOME (LOSS) | \$ | (137,082) | \$ | 10,595 | \$ | (126,456) | \$ | 3,567 | \$ | (122,889) |
| | THE THIS CHIE (ECOO) | Ψ | (101,002) | Ψ | 10,090 | Ψ | (120,400) | Ψ | 0,007 | Ψ | (122,009) |

F-1 BALANCE SHEET Capital Structure

| Line No. (a) | Account Title (Number) (b) | | urrent Year nd Balance (c) | DW 18-138 Adjustments (d) | | justed Year nd Balance (e) | DW 19-xxx Adjustments (f) | | justed Year nd Balance (g) |
|--------------------|---------------------------------|--------------|----------------------------------|---------------------------------|----|----------------------------------|---------------------------------|----|----------------------------------|
| | EQUITY CAPITAL | | | | | | | 1 | |
|] 1 | Common Stock Issued (201) | \$ | 16,767 | | \$ | 16,767 | | \$ | 16,767 |
| 2 | Other Paid-In Capital (209,211) | | 3,554,354 | | | 3,554,354 | 500,000 | | 4,054,354 |
| 3 | Retained Earnings (214-215) | L | (897,056) | 10,595 | | (886,461) | 3,567 | | (882,894) |
| 4 | Total Equity Capital | \$ | 2,674,065 | \$ 10,595 | \$ | 2,684,660 | \$ 503,567 | \$ | 3,188,227 |
| | LONG TERM DEBT | | | | Γ" | | | | |
| 5 | Other Long-Term Debt (224) | \$ | 3,658,170 | \$ 996,777 | \$ | 4,654,947 | \$ 1,452,898 | \$ | 6,107,845 |
| 6 | Total Long-Term Debt | \$ | 3,658,170 | \$ 996,777 | \$ | 4,654,947 | \$ 1,452,898 | \$ | 6,107,845 |
| | | | | | | | | | |
| 7 | Total Capital Structure | \$ | 6,332,235 | \$ 1,007,372 | \$ | 7,339,607 | \$ 1,956,465 | \$ | 9,296,072 |

| Line No. (a) | Account Title (Number) (b) | Current Year End Balance (c) | DW 18-138 Adjustments (d) | Adjusted Year End Balance (e) | DW 18-138 Adjustments (f) | Adjusted Year End Balance (g) |
|--------------------|---------------------------------|------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| | EQUITY CAPITAL | | | | | |
| 1 | Common Stock Issued (201) | 0.26% | 0.00% | 0.23% | 0.00% | 0.18% |
| 2 | Other Paid-In Capital (209,211) | 56.13% | 0.00% | 48.43% | 25.56% | 43.61% |
| 3 | Retained Earnings (214-215) | -14.17% | 1.05% | -12.08% | 0.18% | -9.50% |
| 4 | Total Equity Capital | 42.23% | 1.05% | 36.58% | 25.74% | 34.30% |
| | LONG TERM DEBT | | | | | |
| 5 | Other Long-Term Debt (224) | 57.77% | 98.95% | 63.42% | 74.26% | 65.70% |
| 6 | Total Long-Term Debt | 57.77% | 98.95% | 63.42% | 74.26% | |
| . 7 | Total Capital Structure | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |

Journal Entries

| | | | | | | Impact on Net Income |
|---|-------------------------------|---------------------|---|-----------|-----------|-------------------------|
| 1 | Dr. | 181 | Unamortized Debt Expense | 15,000 | | |
| | Cr. | 131 | Cash | | 15,000 | |
| | To record es of 2019 / 202 | timated 20 State | debt expense associated with obtaining PUC approval of of NH Grant / Debt Financing | | | |
| 2 | Dr. | 131 | Cash | 5,287,606 | | |
| | Cr. | 271 | State of NH CIAC | | 3,292,750 | |
| | Cr. | 224 | State of NH loan for CIAC Tax | | 1,102,356 | |
| | Cr. | 224 | Bank loan for MSDC Fees | | 392,500 | |
| | Cr. | 211 | Additional Paid in Capital | | 500,000 | |
| | to record re | ceipt of | cash and State of NH grant / loans | | | |
| 3 | Dr. | 101 | Plant in Service | 6,065,593 | | |
| | Cr. | 131 | Cash | | 5,287,606 | |
| | Cr. | 271 | Town of Salem CIAC | | 562,526 | |
| | Cr. | 271 | Town of Plaistow CIAC | | 215,461 | |
| | To record 20 | 20 plani | t additions | | | |
| 4 | Dr. | 403 | Depreciation Expense | 128,729 | | (128,729) |
| | Cr. | 108 | Accumulated Depreciation | | 128,729 | , |
| | To record 1/2 | 2 year d | epreciation and related accumulated depreciation for year 1 | | | |
| 5 | Dr. | 272 | Accummulated Amortization of CIAC | 86,163 | | |
| | Cr. | 405 | Amortization of CIAC | | 86,163 | 86,163 |
| | To record 1/2 | 2 year a | mortization of CIAC and related accumulated amortization for y | ear 1 | | |
| 6 | Dr. | 224 | Other Long Term Debt - State of NH loan | 30,233 | | |
| | Dr. | 224 | Other Long Term Debt - Bank loan | 11,725 | | |
| | Cr. | 427 | Interest Expense - State of NH loan | 32,222 | | (32,222) |
| | Сr. | 427 | Interest Expense - Bank loan | 19,359 | | (19,359) |
| | Dr. | 131 | Cash | | 93,539 | |
| | To record the | e project | ted 1st year payments (principle and interest) on State of NH lo | an | | |
| 7 | Dr. | 428 | Amortization of Debt Expense | 676 | | (676) |
| | Cr. | 181 | Unamortized Debt Expense | | 676 | |
| | To record an | nual am | ortization of debt expense | | | |
| 8 | Dr. | 131 | Cash | 356,937 | | |
| | Cr. | 400 | Operating Revenue | | 356,937 | 356,937 |
| | To record pro | ojected i | ncrease in revenues | | | |
| 9 | Dr. | 401 | Operating Expenses | 200,000 | | (200,000) |
| | Dr. | 408 | Taxes other than Income | 58,547 | | (58,547) |
| | Dr. | 409 | Federal Income taxes | | | (,+ .,) |
| | Dr, | 409 | State Business Taxes | _ | | - |
| | Cr. | 131 | Cash | | 258,547 | |
| | | | ncrease in expenses | | • | |
| | Impact on Ne | | e | | | 3,567 |
| | Impact on Ca | | | 5,644,543 | 5,654,692 | |
| | Net Impact of | n Cash | | | (10,149) | |

Revenue Requirement - Step Increase for 2019 / 2020 Additions to Plant and related CIAC associated with SNHRWIP

| RATE BASE | Amount | | | | | |
|---|--|--|--|--|--|--|
| 2019 Plant in Service | \$6,065,593 | | | | | |
| Less: Accumulated Depreciation | 128,729 | | | | | |
| NET PLANT IN SERVICE | \$5,936,864 | | | | | |
| Contribution in Aid of Construction | (4,070,737) | | | | | |
| Plus: Accumulated Amortization of CIAC | | | | | | |
| NET PLANT IN RATE BASE | \$1,952,289 | | | | | |
| Cash Working Capital \$ 200,000 12.33% | 24,660 | | | | | |
| TOTAL RATE BASE | <u>\$1,976,949</u> | | | | | |
| Return on Additional Plant @ 5.11% | <u>\$101,091</u> | | | | | |
| O&M Expenses Depreciation Expense Amortization of CIAC State Utility and Local Property Taxes Federal Income Taxes State Business Taxes | \$ 200,000 257,458 (172,325) 58,547 | | | | | |
| Operating Expenses | \$ 343,680 | | | | | |
| Additional Revenue Requirement | \$ 444,771 | | | | | |
| Less: Revenue from projected sale of water to Town of Plaistow | (87,834) | | | | | |
| Net Additional Revenue Requirement | \$ 356,937 | | | | | |
| Revenues from General Metered Customers | \$ 2,061,860 | | | | | |
| % Increase assoicated with Step Increase | <u>17.31%</u> | | | | | |

Weighted Average Cost of Capital

| <u>Financing</u> | | <u>Amount</u> | <u>Percent</u> | lt | nterest <u>Rate</u> | Interest Expense | | mort of | | Total <u>Interest</u> | Cost <u>Rate</u> | Weighted Average Cost of <u>Capital</u> |
|----------------------------------|----|---------------|----------------|----|------------------------|---------------------|----|---------|-----|--------------------------|---------------------|--|
| State of NH | \$ | 1,102,356 | 55.26% | | 2.96% | \$32,222 | \$ | 295 | (1) | \$32,517 | 2.95% | 1.63% |
| Bank Loan | | 392,500 | 19.68% | | 5.00% | 19,359 | | 381 | (2) | 19,740 | 5.03% | 0.99% |
| Total Debt | \$ | 1,494,856 | 74.94% | | | \$ 51,581 | \$ | 676 | | \$ 52,257 | | 2.62% |
| Owner's APIC | \$ | 500,000 | 25.06% | | | | | | | | 9.95% | 2.49% |
| Total Capitalization | \$ | 1,994,856 | 100.00% | | | | | | | | | 5.11% |
| Amortization of Financing Costs: | | | | | | | | | | | | |
| State of NH | \$ | 1,102,356 | 73.74% | \$ | 7,374 | 25 | \$ | 295 | | | | |
| Bank Loan | | 392,500 | <u>26.26%</u> | - | 7,626 | 20 | · | 381 | | | | |
| Total | \$ | 1,494,856 | 100.00% | \$ | 15,000 | | \$ | 676 | | | | |

| Hampstead Area Water Company | Attachment B | SPS-7 |
|---|--|-------------------------|
| SNHRWIP Financing | | |
| DW 17-118 STEP II ADJUSTMENT CALCULATION OF RATES | Schedule 6a | |
| Total Annual Water Revenues Proposed per Settlement (Sch 1) | \$ 2,006,193 \$ 97,003 \$ 2,103,196 \$ | \$ 356,937 \$ 2,460,133 |
| Less: Fire Protection Revenues Municipal \$41,336 Private - | 41,336 - 41,336 | - 41,336 |
| Revenues from General Metered Customers | | \$ 356,937 \$ 2,418,797 |
| Customer Charge Revenues: | ψ 1,504,657 ψ 51,665 ψ 2,661,666 ψ | 5 330,937 \$ 2,416,797 |
| Meter | (455,640) - (455,640) | - (455,640) |
| Consumption Charge Revenues: | \$ 1,509,217 | 356,937 \$ 1,963,157 |
| Consumption Charge Revenues \$ 1,509,217 Total Pro-forma Annual Consumption (ccf) (b) + 246,870 Consumption Rate per Customer (per ccf) \$ 6.11 | \$ 6.51 | \$ 7.95 |
| Total Pro-forma Annual Consumption (ccf) x 246,870 | \$ (1,509,217) \$ (1,606,220) | \$ (1,963,157) |
| Unallocated Water Revenues | \$ - | \$ - |
| (a) Pro-forma # of Cus 3,578 actual customers @ 12/31/16 + 43 customers from New System acquired in 2017 = | 3,621 | |
| (b) Pro-forma Consum 2016 Actual Water Sales: Gallons | | |
| Total Pro-forma Consumption (ccf) 246,870 SPSt. Cyr 1/10/2020 | ı | |

Plant / Accumulated Depreciation / Depreciation Expense

| PUC <u>Acct. No.</u> | <u>Description</u> | | <u>Costs</u> | | C Gross Up e of 27.08% | | Total <u>Costs</u> | Depr. <u>Rate</u> | | preciation ixpense | | Accum <u>Depr.</u> | | Net <u>Plant</u> |
|-------------------------|--|-----------|--------------|-----------|---------------------------|-----------|-----------------------|----------------------|-----------|-----------------------|-----------|-----------------------|-----------|---------------------|
| Chloramin | nes Conversion Facility | | | | | | | | | | | | | |
| 304 | Structures | \$ | 473,333 | \$ | 128,179 | \$ | 601,512 | 2.50% | \$ | 15,038 | \$ | 7,519 | \$ | 593,993 |
| 311 | Pumping Equipment | | 246,667 | | 66,797 | | 313,464 | 10.00% | | 31,346 | | 15,673 | | 297,791 |
| 320 | Treatment Equipment | | 396,667 | | 107,417 | | 504,084 | 3.60% | | 18,147 | | 9,074 | | 495,011 |
| 331 | T&D Mains | | 123,333 | | 33,399 | | 156,732 | 2.00% | | 3,135 | | 1,567 | | 155,164 |
| | Total | \$ | 1,240,000 | \$ | 335,792 | \$ | 1,575,792 | | \$ | 67,666 | \$ | 33,833 | \$ | 1,541,959 |
| | ressure Reducing Station | | | | | | | | | | | | | |
| 304 | Structures | \$ | 310,000 | \$ | 83,948 | \$ | 393,948 | 2.50% | \$ | 9,849 | \$ | 4,924 | \$ | 389,024 |
| 311 | Pumping Equipment | | 250,000 | | 67,700 | | 317,700 | 10.00% | | 31,770 | | 15,885 | | 301,815 |
| 331 | T&D Mains | | 15,000 | | 4,062 | | 19,062 | 2.00% | | 381 | | 191 | | 18,871 |
| 339 | Miscellaneous | _ | 133,875 | | 36,253 | _ | 170,128 | 5.00% | | 8,506 | | 4,253 | _ | 165,875 |
| | Total | \$ | 708,875 | \$ | 191,963 | \$ | 900,838 | | <u>\$</u> | 50,506 | \$ | 25,253 | <u>\$</u> | 875,585 |
| Shannon I | Road Water Main | | | | | | | | | | | | | |
| 331 | T&D Mains | \$ | 542,526 | \$ | 146,916 | \$ | 689,442 | 2.00% | \$ | 13,789 | \$ | 6.894 | \$ | 682.548 |
| 335 | Hydrants | | 20,000 | | 5,416 | | 25,416 | 2.00% | | 508 | | 254 | | 25,162 |
| | Total | \$ | 562,526 | \$ | 152,332 | \$ | 714,858 | | \$ | 14,297 | \$ | 7,149 | \$ | 707,709 |
| Westside I | Drive Booster Station & Treatment Facility | | | | | | | | | | | | | |
| 303 | Easement Dees | \$ | 20,000 | \$ | 5.416 | \$ | 25,416 | 5.00% | \$ | 1,271 | \$ | 635 | 4 | 24,781 |
| 304 | Structures | - | 475,000 | • | 128,630 | • | 603,630 | 2.50% | • | 15,091 | • | 7,545 | • | 596,085 |
| 311 | Pumping Equipment | | 390,000 | | 105,612 | | 495,612 | 10.00% | | 49,561 | | 24,781 | | 470,831 |
| 320 | Treatment Equipment | | 250,000 | | 67,700 | | 317,700 | 3.60% | | 11.437 | | 5,719 | | 311,981 |
| 331 | T&D Mains | | 15,000 | | 4,062 | | 19,062 | 2.00% | | 381 | | 191 | | 18,871 |
| 339 | Miscellaneous* | | 193,875 | | 52,501 | | 246,376 | 5.00% | | 12,319 | | 6,159 | | 240,217 |
| | Total | \$ | 1,343,875 | \$ | 363,921 | \$ | 1,707,796 | | \$ | 90,060 | \$ | 45,030 | \$ | 1,662,766 |
| Fact Road | Water Main | | | | | | | | | | | | | |
| 331 | T&D Mains | | 045 404 | | 50017 | | | | _ | | _ | | | |
| 331 | | \$ | 215,461 | \$ | 58,347 | <u>\$</u> | 273,808 | 2.00% | | 5,476 | <u>\$</u> | 2,738 | <u>\$</u> | 271,070 |
| | Total | \$ | 215,461 | <u>\$</u> | 58,347 | \$ | 273,808 | | \$ | 5,476 | \$ | 2,738 | \$ | 271,070 |
| Mancheste | er Water Works - MSDC fees | | | | | | | | | | | | | |
| 307 | Wells | \$ | 892,500 | | | \$ | 892,500 | 3.30% | \$ | 29,453 | \$ | 14,726 | \$ | 877,774 |
| | | \$ | 892,500 | | | \$ | 892,500 | | \$ | 29,453 | \$ | 14,726 | \$ | 877,774 |
| | | <u>*</u> | 002,000 | | | Ψ | 332,300 | | Ψ | 20,700 | Ψ | 17,120 | Ψ | 311,114 |
| | Total | <u>\$</u> | 4,963,237 | \$ | 1,102,356 | \$ | 6,065,593 | | \$ | 257,458 | \$ | 128,729 | \$ | 5,936,864 |

CIAC / Accumulated Amortization of CIAC / Amortization of CIAC

| PUC Acct, No. | Description | | Costs | Amort. <u>Rate</u> | Α | mort. of <u>CIAC</u> | | Accum Amort. | | Net <u>CIAC</u> |
|------------------|--|----|-----------|-----------------------|-----|-------------------------|-----------|-----------------|-----|--------------------|
| Chloramin | nes Conversion Facility | | | | | | | | | |
| 304 | Structures | \$ | 473.333 | 2.50% | \$ | 11.833 | \$ | 5,917 | \$ | 467,416 |
| 311 | Pumping Equipment | • | 246,667 | 10.00% | • | 24,667 | _ | 12,333 | • | 234,334 |
| 320 | Treatment Equipment | | 396,667 | 3.60% | | 14,280 | | 7,140 | | 389,527 |
| 331 | T&D Mains | | 123,333 | 2.00% | | 2,467 | | 1,233 | | 122,100 |
| | Total | \$ | 1,240,000 | | \$ | 53,247 | \$ | 26,623 | \$ | 1,213,377 |
| Main St. F | Pressure Reducing Station | | | | | | | | | |
| 304 | Structures | \$ | 310,000 | 2.50% | \$ | 7,750 | \$ | 3,875 | \$ | 306,125 |
| 311 | Pumping Equipment | | 250,000 | 10.00% | • | 25,000 | • | 12,500 | • | 237,500 |
| 331 | T&D Mains | | 15,000 | 2.00% | | 300 | | 150 | | 14,850 |
| 339 | Miscellaneous | | 133,875 | | | | | | | |
| | Total | \$ | 708,875 | | \$ | 33,050 | \$ | 16,525 | \$_ | 558,475 |
| Shannon I | Road Water Main | | | | | | | | | |
| 331 | T&D Mains | \$ | 542,526 | 2.00% | \$ | 10,851 | \$ | 5,425 | \$ | 537,101 |
| 335 | Hydrants | | 20,000 | | | | | | | |
| | Total | \$ | 562,526 | | \$ | 10,851 | \$ | 5,425 | \$ | 537,101 |
| Westside | Drive Booster Station & Treatment Facility | | | | | | | | | |
| 303 | Easement Dees | \$ | 20,000 | 5.00% | \$ | 1,000 | \$ | 500 | \$ | 19,500 |
| 304 | Structures | | 475,000 | 2.50% | | 11,875 | | 5,938 | | 469,063 |
| 311 | Pumping Equipment | | 390,000 | 10.00% | | 39,000 | | 19,500 | | 370,500 |
| 320 | Treatment Equipment | | 250,000 | 3.60% | | 9,000 | | 4,500 | | 245,500 |
| 331 | T&D Mains | | 15,000 | 2.00% | | 300 | | 150 | | 14,850 |
| 339 | Miscellaneous* | | 193,875 | 5.00% | _ | 9,694 | _ | 4,847 | | 189,028 |
| | Total | \$ | 1,343,875 | | \$ | 70,869 | \$ | 35,434 | \$_ | 1,308,441 |
| East Road | l Water Main | | | | | | | | | |
| 331 | T&D Mains | \$ | 215,461 | 2.00% | \$ | 4,309 | \$ | 2,155 | \$ | 213,306 |
| | Total | \$ | 215,461 | | \$ | 4,309 | \$ | 2,155 | \$ | 213,306 |
| | Total | \$ | 4,070,737 | | \$_ | <u>172,325</u> | <u>\$</u> | <u>86,163</u> | \$_ | 3,830,699 |

| Property Taxes | | Chloramines Conversion <u>Facility</u> | | Main St. Pressure Reducing <u>Station</u> | s | hannon Rd. <u>Main</u> | | Westside Booster Treatment Facility | East Rd. <u>Main</u> | į | MWW MSDC fees | Total Projected <u>Costs</u> |
|--|------|--|----|--|----|---------------------------|----|--|-------------------------|----|-------------------|------------------------------------|
| Total Project Costs Accumulated Depreciation | \$ | 1,575,792 33,833 | \$ | 900,838 25,253 | \$ | 714,858 7,149 | \$ | 1,707,796 45,030 | \$ 273,808 2,738 | \$ | 892,500 14,726 | \$ 6,065,593 128,729 |
| Net Plant | - \$ | 1,541,959 | \$ | 875,585 | \$ | 707,709 | \$ | 1,662,766 | \$ 271,070 | \$ | 877,774 | \$ 5,936,864 |
| Thousand Dollars of Assessed Value | \$ | 1,542 | \$ | 876 | \$ | 708 | \$ | 1,663 | \$ 271 | \$ | 878 | \$ 5,937 |
| Tax Value as % of Net Book Value | | 43.52% | | 43.52% | | 43.52% | | 43.52% | 43.52% | | 43.52% | 43.52% |
| Combined State and Local Property Tax Rate | \$ | 22.66 | \$ | 22.66 | \$ | 22.66 | \$ | 22.66 | \$ 22.66 | \$ | 22.66 | \$ 22.66 |
| State and Local Property Taxes | \$ | 15,206 | \$ | 8,635 | \$ | 6,979 | \$ | 16,398 | \$ 2,673 | \$ | 8,656 | \$ 58,547 |
| Combined State and Local Property Tax Rate: State | \$ | 6.60 | \$ | | \$ | | \$ | 6.60 | \$ 6.60 | \$ | 6.60 | \$ 6.60 |
| Local | | 16.06 | _ | 16.06 | _ | 16.06 | _ | 16.06 | 16.06 | | 16.06 | 16.06 |
| Total | \$ | 22.66 | \$ | 22.66 | \$ | 22.66 | \$ | 22.66 | \$ 22.66 | \$ | 22.66 | \$ 22.66 |

Hampstead Area Water Company

SPS-11

SNHRWIP Financing

Source and Use of Funds

| Source of Funds | <u>2019</u> |
|--|-----------------|
| State of NH Grant | \$ 3,292,750 |
| State of NH Loan for tax on State of NH CIAC | 1,102,356 |
| Town of Salem CIAC | 562,526 |
| Town of Plaistow CIAC | 215,461 |
| Bank Loan for MSDC fees | 392,500 |
| Owner's Additional Paid in Capital | 500,000 |
| Total Source of Funds | \$ 6,065,593 |

Use of Funds

| SNHRW infrastructure | \$ 3,292,750 |
|-------------------------|-----------------|
| Tax on State of NH CIAC | 1,102,356 |
| Shannon Road water main | 562,526 |
| East Road water main | 215,461 |
| MWW MSDC fees | 892,500 |
| Total Use of Funds | \$ 6,065,593 |

Hampstead Area Water Company

SPS-12

SNHRWIP Financing

Estimated Cost of Financing

2019 Financing Costs

| State of NH Grant | \$ - |
|---------------------------------|-----------|
| State of NH Loan | · - |
| Bank Loan Fees | 5,000 |
| St. Cyr & Associates | 4,000 |
| Lewis Builders Development | 6,000 |
| Total Estimated Financing Costs | \$ 15,000 |

54 SAWYER AVENUE, ATKINSON, NH 03811



TEL: 603.362.4299 FAX: 603.362.4936 www.hampsteadwater.com

January 31, 2020

VIA EMAIL ONLY

Christopher R. Tuomala, Esq. NH Public Utilities Commission 21 S. Fruit Street, Suite 10 Concord, NH 03301-2429

RE:

Hampstead Area Water Company, Inc.

DW 19-147 – Answers to Staff Data Requests – Set 4

Dear Attorney Tuomala:

Pursuant to NH Code PUC 203.09, please find attached, the Company's Answers to Staff Data Requests-Set 4, regarding the above referenced docket.

If you have any questions, please don't hesitate to contact us.

Very truly yours,

Anthony Augeri, Esq. General Counsel

AA/ljs enclosures

DW 19-147 Service list electronically

\\hawc02\HAWC-Data\Legal\HAWC\DW-19-147 Financing Pet for SNH Water Project\Correspondence\Letter to Atty Tuomala with data request answers set 4 - 01-31-2020 docx

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 4 ANSWERS

| Date request received: 01/21/2020 | Date of Response: 01/31/2020 |
|-----------------------------------|------------------------------|
| Staff 4-1 | Witness: Stephen P. St.Cyr |

Staff 4-1

Re: Company's response to Staff 3-7: Based on the Company's response, it appears the CIAC tax on the \$215,461 amount indicated as contributed by the Town of Plaistow would be \$57,179, as follows:

$$($215,461 - (($215,461 \div 25) \div 2)) \times .2708 = $57,179$$

However, Exhibit 2-1 of the Company's response to Staff 2-1 indicates that the CIAC tax associated with the East Road Water Main contributed by the Town of Plaistow to HAWC is \$121,015. (Note: Staff calculates this is indicative of a CIAC contribution from Plaistow of \$456,000).

Please provide a detailed explanation for the \$63,836 difference between the CIAC tax indicated on Exhibit 2-1 of \$121,015 and the calculated CIAC tax of \$57,179.

Response 4-1

The Company concurs with Staff's calculation of the CIAC tax on the contribution from the Town of Plaistow. The Company updated the response to Staff 2-1. See responses to Staff 3-7i. indicating that "\$215,460.83 is the estimated value of the portion of the East Road Water Main to be contributed by the Town of Plaistow." Also, see response to Staff 3-8b indicating "See Revised Exhibit 2 dated 1-10-2020 attached." The attachment shows \$215,460.83.

HAMPSTEAD AREA WATER COMPANY, INC. PETITION FOR APPROVAL OF DWGTF FINANCING AND BANK FINANCING ANSWERS TO STAFF DISCOVERY REQUEST – SET 4 ANSWERS

Date request received: 01/21/2020
Staff 4-2

Date of Response: 01/31/2020
Witness: John Sullivan

Staff 4-2

Re: Company's response to Staff 3-9: Given the remaining unknowns relative to the Company's proposed MSDC loan of \$392,500, would the Company be open to filing a motion requesting that the Commission bifurcate its consideration of that loan from its consideration of the proposed \$1,204,815 CIAC tax loan in the instant docket. (An example of such motion may be found at: https://www.puc.nh.gov/Regulatory/Docketbk/2017/17-183/MOTIONS-OBJECTIONS/17-183_2018-01-10_PWW_MOTION_BIFURCATE.PDF.) Such may enable the Commission to act on the CIAC tax loan before the Company finalizes the terms and conditions of the MSDC loan through either the DWGTF or Pentucket Bank. Please comment.

Response 4-2

Yes, the Company is open to filing a motion to bifurcate similar to the one filed in docket DW 17-183 to make consideration of the proposed MSDC loan subject to a separate commission order. The Company will file such a motion in the next 10 days.

NHDES Response to Questions from the Public Utilities Commission (PUC)
Prepared by Erin Holmes
December 3, 2019

Hi Mike and Erin:

The Commission received a filing from Hampstead Area Water Company (HAWC) requesting approval for a couple of financings related to Phase I of the Southern NH project. Specifically, HAWC requested approval for a loan of \$1,204,815 related to the anticipated CIAC Tax incurred from Phase I as well as a loan of \$392,500 related to a partial amount of the MSDC associated with the project. Staff was looking for some clarification regarding some of the facts surrounding HAWC's request.

With regard to the CIAC Tax loan of \$1,204,815 authorized from the Drinking Water and Groundwater Trust Fund (DWGTF), could you please clarify or confirm the following:

- 1) HAWC provided the following loan terms. Could you please confirm these terms?
 - a) Amortization 25 years

 NHDES response HAWC would be approved for a 25-year loan term on the CIAC tax.
 - b) Interest Rate 2.97%

 NHDES response The interest rate was set on the Bond Buyer's Weekly 11-Bond GO index for August 1, 2019 and is 2.96%.
 - c) Interest Payments will commence 6 months following substantial completion of the project. (Could you please clarify the interest rate of the interest only payments?)

 NHDES response The interest rate would be the 2.96%. This is very similar to the loan amortization schedules for the State Drinking Water State Revolving Fund loan program.
 - d) Principal and Interest payments will commence one year following substantial completion of the project.
 NHDES response Yes. Please note, contrary to a typical construction loan, NHDES anticipates the disbursement of the loan funds and the loan closing to occur in rapid succession.
- 2) In support of how the CIAC Tax loan amount of \$1,204,815 was calculated, the Company provided the attached worksheet prepared by Weston & Sampson. After Staff reviewed this worksheet, it had a number of questions. Could you please shed some light on the following items contained in the worksheet?
 - a) The Project Total indicated on the worksheet appears to actually sum to an amount of \$4,881,065 instead of \$5,041,064; a difference of approximately \$160,000. Please explain.
 - NHDES response \$160,000 was previously authorized for design and bidding from the MtBE Settlement Funds. These funds are essentially grant funds and are a direct reimbursement of costs incurred.
 - b) The worksheet indicates that one of HAWC's Phase I Components is a "Westside Drive / Main St Contingency [sic] (15%)" for \$258,750.
 - i. Please provide further explanation regarding this project or line item as listed on the worksheet.

NHDES response – This is a construction contingency in order to have a conservative estimate for requesting grant funds. NHDES cannot comment on what is considered CIAC but our understanding is the tax is applicable to the asset and would be adjusted if the project was below the estimated cost or above.

ii. The Company's filing indicates that HAWC will be undertaking a main replacement project on Shannon Road for the same estimated cost of \$258,750. Please clarify whether the project indicated in the Company's filing (Shannon Road) for \$258,750 is one and the same as the item indicated on the worksheet (Westside Drive / Main St Contingency) for the same amount.

NHDES response – NHDES is not aware of a main replacement on Shannon Road and cannot comment whether or not HAWC is undertaking additional work. As part of the Southern New Hampshire Regional Water Project, the Town of Salem constructed new water mains in the Shannon Road area to connect the Salem water distribution system with the HAWC water distribution system. Per the Southern Interconnect Agreement ("SIA"), HAWC will take ownership of one of these mains, which will become part of HAWC's water distribution system (see item 2.d.i. below). NHDES cannot comment as to why the estimated cost for this water main in HAWC's filing is the same as the item indicated as Westside Drive / Main St Contingency in the worksheet. The Shannon Road Area Water Main project is complete and HAWC should be able to provide the PUC with the actual cost of the portion they will own.

c) The HAWC Construction & Contingency CIAC Tax line item indicated on the worksheet as \$929,813 actually calculates to an amount of \$886,613 (\$3,283,750 @ 27%); a difference of \$43,200. Please explain. (Note: \$43,200 ÷ 27% = \$160,000. See (a))

NHDES response – The difference is correct. The \$160,000 was previously authorized as explained above putting the total project cost at \$3,443,750 (x 27% = \$929,813). NHDES does not have the expertise to comment as to what is actually taxable (engineering vs. capital equipment) under the CIAC tax. Perhaps the applicant could provide more detail in that regard.

- d) The worksheet indicates a CIAC Tax amount of \$151,882 relative to the "Shannon Road Water Main (bid by Salem)" project:
 - i. It appears this would indicate that the Town of Salem will be undertaking this project at a cost of \$562,526 ($$151,882 \div 27\%$) and then contributing it to HAWC. Please clarify and explain this project as it pertains to HAWC.

NHDES response – This is correct. Per the Southern Interconnect Agreement (SIA) executed in April 2019, Salem was responsible for designing and constructing the Shannon Road area water main portion of the project, which included two new water mains needed to connect the Salem water distribution system to the HAWC water distribution system. Per the Agreement, the Town of Salem will be giving one water main (approximately 2,500 linear feet) to HAWC to own, operate, and maintain as part of the HAWC water distribution system.

Salem constructed both mains as part of a single construction project because the mains were mostly parallel to each other in the same road, so there was an economy of scale constructing both as part of a single project even though one of the mains is part of HAWC's system. The Shannon Road Area Water Main project is complete, so HAWC should be able to provide the PUC with the actual cost of the portion they will own.

ii. Please confirm that HAWC will be responsible for paying the CIAC Tax if this project is, in fact, intended to be a contribution from the Town of Salem.

NHDES response – NHDES cannot comment as to what is taxable under the CIAC tax. The Shannon Road portion of the project will be a contribution from Salem to HAWC and the work will be paid for through the Town of Salem's grant from the Drinking Water and Groundwater Trust Fund. It is NHDES' opinion that the applicant (HAWC) should provide further explanation on this request for clarification and/or seek guidance from legal counsel that specializes in tax law.

iii. The Company's filing appears to indicate that HAWC (not the Town of Salem) will be responsible for the construction of the Shannon Road project for an estimated cost of \$258,750. Please clarify and explain.

NHDES response – If this is in reference to the PUC comment 2.b.ii above, NHDES cannot comment on additional work and costs that are included in the filing. If this cost is referring to \$258,750 engineering contingency (15%) the work is described in the SIA and HAWC is responsible for design, construction, and maintenance of:

- New meter station with pumps and chemical feed on Westside Drive
- Approximately 600 linear feet of water main in Westside Drive from the new meter station to the existing HAWC water system.
- Upgrades to a pressure reducing valve along Main Street
- e) The worksheet indicates a CIAC Tax amount of \$123,120 relative to an "East Road Water Main (bid by Plaistow)" project. It would appear this indicates that the Town of Plaistow will be undertaking this project at a cost of \$456,000 (\$123,120 ÷ 27%) and then contributing it to HAWC.
 - i. Please confirm and explain.

NHDES response – Similar to the case of Shannon Road with Salem, per the SIA, the Town of Plaistow is responsible for designing and constructing the East Road water main portion of the project to connect the HAWC water distribution system to the Town of Plaistow water distribution system. Plaistow will transfer to HAWC the portion of the water (approximately 1,500 linear feet) between the terminus of HAWC's existing water distribution system and a pump station that Plaistow will construct near the Atkinson/Plaistow town line.

ii. Please confirm that HAWC will be responsible for paying the CIAC Tax if this project is, in fact, intended to be a contribution from the Town of Plaistow.

NHDES response – Same response as comment 2.d.ii above. NHDES cannot comment as to what is taxable under the CIAC tax law.

With regard to the MSDC loan of \$392,500, could you please clarify or confirm the following:

3) In a letter dated August 16, 2019 from Erin to HAWC, she states, "the Commission has deferred the decision to award [the MSDC] loan request for \$392,500 until a later date." HAWC subsequently communicated to Staff that the Commission tabled this item at an earlier meeting due to time constraints but HAWC anticipates that this loan will be considered at a subsequent Commission meeting in either November or December.

NHDES response – As of December 2, 2019, this item is still tabled by the Commission.

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