#### AGENDA FOR THE REGULAR MEETING OF THE NEW RIVER REGIONAL WATER AUTHORITY HELD AT THE TOWN OF WYTHEVILLE, MUNICIPAL BUILDING IN WYTHEVILLE, VIRGINIA THURSDAY, April 18, 2019, AT 10:00 A.M.

RE: CALL TO ORDER, QUORUM

RE: INVOCATION AND PLEDGE OF ALLEGIANCE

RE: CONSENT AGENDA

RE: CITIZENS' TIME

RE: VENDOR TIME

RE: APPROVAL OF INVOICE

1. AEP

2. Town of Wytheville

3. Wythe County

\$13,842.42

\$49,668,72

419, 688.72

\$22,648.07 (February) \$25,112.61 (March)

# RE: CHIEF OPERATOR'S REPORT

- DEQ Inspection
- Safety
- 3. Mr. Farmer Class 2 Exam
- 4. Process Chemical Prices
- New Raper Ridge Tank
- Budget Meeting
- 7. Turbidimeters

RE: BOARD TIME

# **Chief Operators Notes**

- 1. Mrs. Patti Higgins, with DEQ, was onsite March 25<sup>th</sup> to conduct an inspection in reference to our withdrawal permit (VWP 04-2106). She reviewed records, the permit, and conducted a walkthrough of locations pertaining to the permit. This permit will expire on January 8, 2021. A new application will have to be sent in 180 days prior of the expiration towards a re-issuance of the permit. Mrs. Higgins noted that we may have to update our screens on the intake structure in the river to a 1mm mesh vs the current 2mm openings before the permit will be reissued. The main 2 pages of the report are attached to your board packet. There were no deficiencies noted other than the current screens.
  - 2. VACORP sent me an online safety training program which I have started using as of April. Mr. Jim McClellan from VACORP was onsite 4/10/19 to conduct a type of mock OSHA walkthrough of the facility. We discussed a variety of safety related items and ideas. Two of the major items discussed were the dechlorination pit and the raw well at the river pump station.
    - a. He suggested that we make sure that the contractor that enters the raw well has workers comp. insurance and that we have a copy of it.
    - b. The dechlorination pit at the plant is a confined space as well as a fall hazard. The operators are currently entering the pit to check or fill the dechlorinators regularly. Mr. McClellan did not have an easy or cheap solution to minimize risk. Ideally operators would never have to enter the space. He suggested exploring options to move the dechlorination point. I have contacted Mr. Peed about this. I do believe we can find another point before or after the dechlorination pit that would be safer to service. Mr. McClellan will be sending a report of his findings.
    - c. One PPE suggestion he had was safety toe shoes for the operators. If safety toe shoes are required, I suggest that the NRRWA cover part of this. This is one item in which the employer does not technically have to purchase, as they can be used

outside of work. This will be an item I plan to discuss during the budget meeting.

- d. Throughout the facility there are many confined spaces. Mr. McClellan recommends checking the atmosphere of these areas and building a log of the results. He suggested starting weekly and then decreasing the frequency or as there are process changes. Our current gas meter was found inoperable. I purchased a battery which allowed it to turn on, only to find that the oxygen sensor was bad. The meter is no longer supported by the manufacturer which means we will need to purchase a new gas meter. (est. \$1000)
- 3. Mr. Joe Farmer has taken his class 2 again and PASSED on 4/11/19.
- 4. We are going to be over budget on process chemicals for this FY. (Est. \$35-36,000) I have begun comparing process chemical prices from Lighthouse Chemicals, Brenntag, and Surry Chemicals. A comparison is attached. We haven't used Surry in the past, but their prices look promising. Mr. Roger Gravely general manager of Surry Chemicals was onsite 4/11/19 to discuss our recent chemical quotes. He quoted a new chemical (Surchem ELTH) for dechlorinating that may alleviate the need to enter the dechlorination pit as well as be a cheaper option. I plan to discuss this further with Elvan Peed and Russell Jackson at the operators meeting, tentatively scheduled for May 8th, 2019.
- 5. The majority of the new Raper Ridge Tank filling began on March, 26th 2019. The Town of Wytheville worked 2 night shifts during this process as the Fort Chiswell pump station was turned off. Thank you to those operators for the extra work. We only had to work late one night. The tank was put online 4/16/19.
- 6. Mr. Peed and Mr. Jackson were onsite March 28, 2019 to discuss the plant operations and budget. I enjoyed meeting with them and our discussion. It was very informative and helpful to me. We hope to have the budget ready by the May meeting.
- 7. I have been working on inline turbidity meter quotes and hope to order them soon.

#### MINUTES OF THE REGULAR MEETING OF THE NEW RIVER REGIONAL WATER AUTHORITY HELD AT THE TOWN OF WYTHEVILLE, MUNICIPAL BUILDING IN WYTHEVILLE, VIRGINIA THURSDAY, March 21, 2019 AT 11:00 A.M.

**Members present**: Stephen Bear (Wythe County), C. Wayne Sutherland, Jr. (Wytheville), Jessica Montgomery (Carroll County), Steve Truitt (Carroll County), Joseph E. Hand, Jr. (Wytheville), Gene Horney (Wythe County)

Members absent: Tim Reeves (Wythe County),

Others present: Jonathan Hanks, Beth Taylor, Evlan Peed, Zachary Slate,

# RE: CALL TO ORDER, QUORUM

Chairman Bear established that a quorum of Authority members was present and called the meeting to order at 11:04 a.m.

# RE: INVOCATION AND PLEDGE OF ALLEGIANCE

Ms. Montgomery led those present in the invocation, followed by the Pledge of Allegiance.

### **RE: CONSENT AGENDA**

Chairman Bear presented the Consent Agenda consisting of the minutes of the regular meeting of Feburary 21, 2019 to the Authority members for approval. Chairman Bear inquired if there was any discussion on the minutes as presented. Mr. Sutherland made a motion, which was seconded by Mrs. Montgomery, to approve the Consent Agenda including the minutes of the Feburary 21, 2019 meeting. The motion passed unanimously with all members present voting to approve the Consent Agenda, including the minutes of the Feburary 21, 2019 meeting.

# RE: CITIZENS' TIME

Chairman Bear inquired if there were any citizens present with topics of discussion during the meeting. With no one to address the Authority, Chairman Bear proceeded with the agenda.

### RE: VENDOR TIME

Chairman Bear inquired if there were any vendors present who wished to address the Authority. There being no vendors to address the Authority, Chairman Bear proceeded with the agenda.

#### **RE: APPROVAL OF INVOICES**

Chairman Bear advised that the next item on the agenda was the Approval of the Invoices as follows:

1. AEP	\$13,759.41
2. Town of Wytheville	\$70,119.27
3. Wythe County	\$20,562.83
4. Enel X	\$2,196.99 (Credit)

Chairman Bear inquired if there was any discussion on the invoices presented. There being no discussion, Chairman Bear inquired if there was a motion to pay the invoices. A motion was made by Mr. Horney and seconded by Mr. Hand to pay the invoices as presented. The motion passed unanimously with all members present voting to pay the invoices.

#### **RE: CHIEF OPERATOR'S REPORT**

Chairman Bear turned the meeting over to Mr. Zachary Slate.

Mr. Slate reported Lagoon #1 was cleaned by the plant operators in conjunction with LUSK Disposal Service to haul off and dispose of silt. Previously, the operators were using V&M Regional Recycling, to haul all the silt disposal, but they were unable to do the work. This put plant maintenance behind. While V&M was cheaper, LUSK was available. We've been using LUSK for this which has pushed the budget over for silt removal Lagoon #1 now clean and has a new layer of sand and is back in service.

Mr. Slate reported Mr. Eric Herold emailed a summary of the water quality results for the year 2018. I have attached this in the board packet. There were no violations noted.

Mr. Slate reported we received the report from our plant inspection on 2/5/19, which was conducted by Mr. Eric Herold with VA Dept. of Health, Office of Drinking Water. Mr. Slate has included his comments from this inspection as well as the summary of problems identified in previous inspections [in the board packet]. We have already corrected several of these items such as, repairing the inline pH meter, ordered new primary standards for the inline turbidity meters, and performing the required filter tests.

Mr. Slate reported a replacement fluoride meter has been ordered. The VDH will be reimbursing us for this purchase. Jonathan initiated this process. Mr. Slate thanked him for this.

Mr. Slate reported the bidding process for the 2019 ground maintenance contract ended as of March 8th, 2019. Only 2 Bids were received. Jackson Lawn Care came in with the lowest offer at \$285/session and was awarded the bid. The 2 bids are in the packet as well.

Mr. Slate reported VA Heating and Cooling were on site 3/1/2019. Our new heat pump was making noise. Upon investigation we found it to be severely iced up to the point of damaging the fan blades. VA Heating and Cooling ordered new fan blades and put them on 3/21/19. During the time in between we had to run emergency heat. Hopefully that has corrected the problem. VA Heating and Cooling asked us to keep an eye on it daily. If they become iced up again, they may have to revisit.

Mr. Slate reported in an effort to keep the operators safe and compliant I have been ordering various PPE for each operator. After discussing with the operators how we were handling the sodium permanganate barrels, I ordered longer tubing for the chemical pump. I am hope this will allow us to pump the solution from outside the building versus moving the big heavy barrel inside the building over a ramp. The tubing is in and Mr. Slate thinks it will work. Mr. Slate invited VACORP to help with a safety program and identify hazards at the plant. Kathleen Guzi and Chris Ballard visited on 3/14/2019. The meeting was informative of their services. They plan to have a follow up walk through to customize training and safety policies to our facility and operators.

Mr. Slate reported Joe Farmer will be taking his class 2 exam on March 27, 2019.

Mr. Slate also reported the new Raper Ridge Tank is to be filled on March 26, 2019. There is a meeting to be held at NRRWA with Scott Bortz and those involved on March 25th at 10am to coordinate the filling procedure.

Lastly, Mr. Slate reported Patti Higgins with DEQ will be onsite March 25, 2019 to do an inspection in reference to our water withdraw permit and the documentation associated with it.

Chairman Bear asked if there were any questions.

Mr. Peed made mention that the withdrawal permit maybe close to renewal. It is a 15 year term.

Chairman Bear congratulated the staff on a good VDH inspection, and commented that Wythe County has been approved for the generator project, hazard mitigation, for the Fort Chiswell pump station. The award amount was \$115,000 (+/-) for the generator. They will be moving forward with it and have a year to finish it. This is an item to check off the list for the health department.

Discussion was made that the generator should show up on the SCADA system at NRRWA.

Ms. Montgomery commented that she was glad to hear that the NRRWA had a good start on the VDH list from the inspection.

Chairman Bear thanked Mr. Slate for working on safety. He also made mention that we do

need you to work on the budget.

Mr. Elvan Peed commented on the budget. He plans to meet with the operators Thursday to go over the budget and hopes to maintain the \$1.25 rate. He will send the draft to everybody.

Chairman Bear proceeded with the agenda.

#### RE: BOARD TIME

Chairman Bear inquired if there were any other items of discussion that needed to come before the Authority.

Chairman Bear mentioned that though it could be a long time off, Smith County has approached us [Wythe County] and is strongly interested in interconnecting with us. They are working on grant funding and feasibility. The interconnect with them would involve discussion about the current water source/use agreement in place, as well as discussion within the county, Rural Retreat, Wytheville, and the NRRWA. This is on the radar and being studied for feasibility. They would like to have another source of water and we have one of the best around.

Ms. Montgomery reported that Mr. Truitt and I have been approached by the Town of Fries [for water]. They do not know what it would consist of. The first meeting is next week.

Chairman Bear proceeded with the agenda to the agenda.

### RE: CLOSED SESSION

Chairman Bear inquired if there were any items to discuss under closed session. There being none, Mr. Bear proceeded with the agenda.

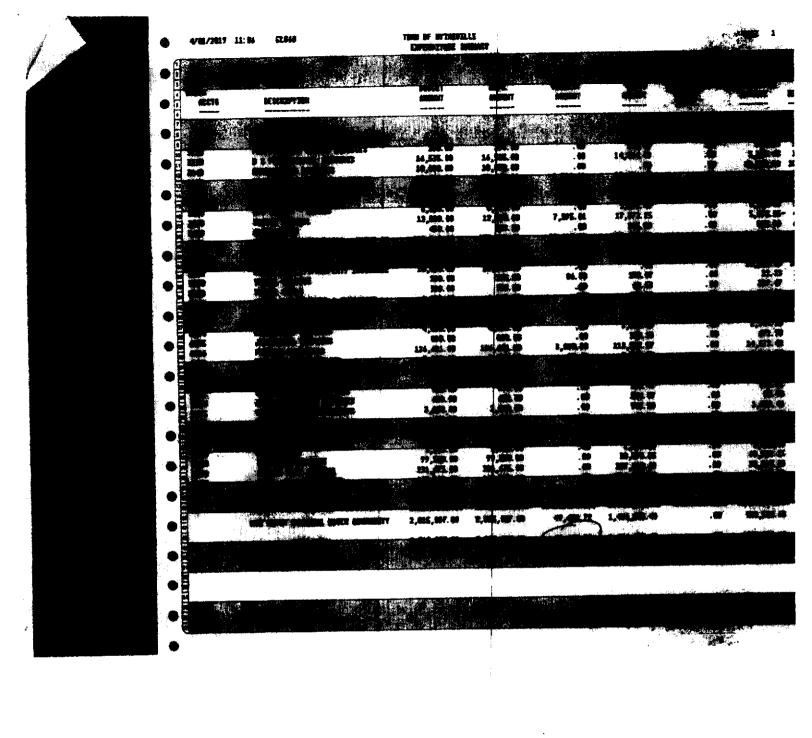
#### RE: ADJOURNMENT

Chairman Bear inquired if there is any other business to come before the Authority. There being no other business, a motion was made, seconded, and carried to adjourn the meeting at 11:19 a.m.

Stepher	Bear, Chairman
•	
	ruitt, Secretary/Treasurer

Town of Wytheville P.O. Box 533, 150 E. Monroe St. Wytheville, VA 24352 276-223-3333 fex 276-223-3315

	216-220		A	VOICE -
Name Address City	NEW RIVER REGIONAL WATER AUTHORI'	ľ	Date	4/1/2019
Phone	Description		Unit Price	TOTAL
Gly 1	MONTHLY INVOICE-MARCH 2019 EXPENSES FOR MARCH 2019		\$49,688.7	\$49,688.72
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	Payment Details  Check  Check #			
	Make Checks		TOT	AL \$49,088
	Make Checks Payable to: Town Of Wytheville		тот	AL <u>\$49,05</u>
	Amount Due 30 Days from	n invoice	Date	



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# Finance Director's Office

340 South Sixth Street – Administration Building Wytheville, VA 24382-2598 Telephone (276) 223-4526 FAX (276) 223-4515

Bruce Grant M.B.A. Finance Director

April 5, 2019

#### INVOICE

New River Regional Water Authority Attn: Mr. Jonathan Hanks Post Office Box 533 Wytheville, VA 24382

Please accept this letter as an invoice for the New River Regional Water Authority payroll cost for the month of February 2019.

Monthly Operations of Payroll for NRRWA

\$22,648.07

Adjustments:

**Net Billable Expenses** 

\$22,648.07

**Total Due** 

\$22,648.07

If you have any questions, please feel free to call.

Sincerely,

Bruce Grant Finance Director

CC: Mr. Michael Stephens

Accounting ref: 11003-319019

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04/05/2019 11:17 Wythe County 4952bgrant	Δ	UDGET REPORT				overe numa numa numa numa numa numa numa numa	unis glytdbud
FOR 2019 08 ACCOUNTS FOR: 1100 General Fund	ORIGINAL	REVISED BUDGET	YTD EXPENDED	NTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	PCT
44013 New River Regional Water Autho							,
l	172,069	172,069	153,	15,432.58	000	18,732.08 16,952.00	
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426100 WORKERS COMPENSATION	•	702 076	215.941	22,648.07	00.	54,565.14	79.8%
TOTAL New River Regional Water Au	270,507	270,507	215,941.86	22,648.07	00.	54,565.14	79.8%
TOTAL General Fund TOTAL EXPENSES	•	270,507	215,941.86	22,648.07	00.	54,565.14	



# **Finance Director's Office**

340 South Sixth Street – Administration Building Wytheville, VA 24382-2598 Telephone (276) 223-4526 FAX (276) 223-4515

Bruce Grant M.B.A. Finance Director

April 5, 2019

#### **INVOICE**

New River Regional Water Authority Attn: Mr. Jonathan Hanks Post Office Box 533 Wytheville, VA 24382

Please accept this letter as an invoice for the New River Regional Water March 2019.	Authority payroll cost for the month of
Monthly Operations of Payroll for NRRWA	\$25,122.61
Adjustments:	
Net Billable Expenses	\$25,122.61
Total Due	\$25,122.61

If you have any questions, please feel free to call.

Sincerely,

Accounting ref: 11003-319019

Bruce Grant Finance Director

CC: Mr. Michael Stephens

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04/05/2019 11:16   Mythe County   4952bgrant   YEAR-TO-DATE	E E	DGET REPORT				A A A	munis special of property of the property of
FOR 2019 09 ACCOUNTS FOR: 1100 General Fund	ORIGINAL	REVISED BUDGET	YTD EXPENDED	MTD BXPENDED	ENCOMBRANCES	AVATLABLE BUDGET	PCT
44013 New River Regional Water Autho							
PATOR TRO OCCURS CANAL	172,069	172,069	153,336.92	17,604.52	0.00	18,732.08	89.1%
44013 411100 PART-TIME PAY PERSONN	16,952	16,952	00.00	00.	00	-4,113.27	177.18*
413300	37,434	37,436	24,273.00	3,231.00	8	13,161.00	64.8%
421100 HEALTH INSURANCE		895		84.42	96.	20. 207	78.0%
421130 HYBRID DISABILIT	287	287	11 691.49	1,274.08	86.	3,176.51	78.6%
422100	14,247	14,247	10,324.93	1,301,10	00.	3,922.07	72.5%
44013 423100 VRS - RETIREE HEALTH		មាន មាន មាន	112.71	14.12	5.5		- 4. - 4.
425100	456 7,808	456 7,808	5,890.15	1,469.86	00.	1,917.85	75.4%
POTAL New	270,507	270,507	215,941.86	25,122.61	00.	54,565.14	79.8\$
TOTAL General Fund	270,507	270,507	215,941.86	25,122.61	00.	54,565.14	79.8%
TOTAL EXPENSES	270,507	270,507	215,941.86	25,122,61	00.	54,565.14	



100 South Main Street P.O. Box 90002 Blacksburg, Virginia 24062-9002 540-552-2011 • 800-552-4123 www.nbbank.com

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100 South Main Street P.O. Box 90002 Blacksburg, Virginia 24062-9002 540-552-2011 • 800-552-4123 www.nbbank.com

# NEW RIVER REGIONAL WATER AUTHO

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NOW -	- PUBLIC FUNDS ACCOUNT 7511173
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DEQ – Office of Water Supply P.O. Box 1105 Richmond, Va. 23218 804-698-4000



#### VWP GENERAL INSPECTION REPORT

Site or Project Name: New River Water Authority Permit #: 04-2106

#### Section 1 - General Information

	Inspection Information	
Inspector: Patti Higgins	Inspection Da	te Amirad On Site 44 50
mspector. Fatti riiggins	03-25-2019	Arrived On Site: 11:50 a.m.
Weather Conditions: partly cloud	dy/overcast - rain forecasted	-
On-site Reps: Zackary Slate, Chie	of Operator	
	Site Information	
Permit Issued: 01-06-2006	Modification # Issued: None	Expires: 01-08-2021 - re-apply in 2020
Site or Project Name: New River		Contact Name: Zackary Slate
Site Physical Location: Intake on	the New River 0.37 miles west of St.Rt. 6	
City: Austinville		County: Wythe
	Permittee Information	The little of the latest of th
Contact or Responsible Party: No	ew River Water Authority – Mount Roger	s Planning Dist. Phone: ( )
Address: 1021 Terrace Drive		
City: Marion	County: Smyth	State: Virginia Zip: 24354

#### Section 2 - Complaint, Observations & Recommendations

	Description of the Complaint	
N/A		

#### Observations During On-Site Inspection

- The permit was issued to increase the water withdrawal from 4 MGD to 10 MGD through an existing intake on the New River. No construction activities were authorized by the permit.
- 2. Part I Special Conditions A. Authorized Activities #4 states:

The current intake screen has a mesh size of 2 millimeters and intake velocity of 0.164 feet per second. Should the need arise to enter the stream for major repairs or renovations, the intake screens shall be updated to meet guidelines in effect at the time of permit modification. Currently the design guidelines require screen openings no larger than 1 millimeter in width and screen face intake velocities no greater than 0.25 feet per second....

<u>December 19, 2014</u> the stream was entered to make repairs on the raw water intake structure as stated in a letter Dated January 5, 2015 from Marine Solutions, Inc. (MSI). (Letter Attached).

The record of the repairs/maintenance performed on December 19, 2014 done by MSI it would appear that this would have been the prime time to update the screen to meet the regulatory standards and comply with the condition of the permit. This was not completed and the screen and velocity are still at 2 millimeters/0.164 velocity per second.

The permit will expire in January 2021, the facility will need to re-apply for a permit in 2020. The facility should be aware that this is an issue that should be corrected and the facility should prepare and work to complete this requirement.

3. The raw water withdrawal records were collected and reviewed for January, July, November 2016, and January and March 2019. The records indicate the facility had not exceeded the permitted withdrawal of 10 MGD.

OWS-SW-Rev.09-2018

DEQ – Office of Water Supply P.O. Box 1105 Richmond, Va. 23218 804-698-4000



#### VWP GENERAL INSPECTION REPORT

Site or Project Name: New River Water Authority

Permit #: 04-2106

#### Request for Action Items (Written Response Required)

The permit will expire in January 2021, the facility will need to re-apply for a permit in 2020. The facility should be aware that this is an issue that should be corrected and the facility should prepare and work to complete this requirement. Once the screen(s) have been replaced a written notification or email should be submitted to the DEQ.

General Recommendations (No Response Required)

See above.

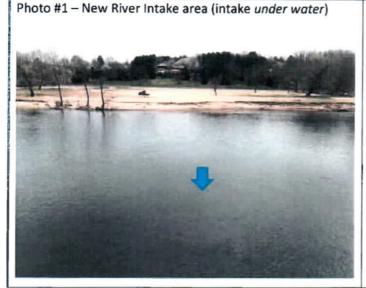
#### Section 3 - Summary

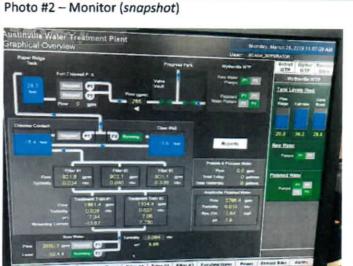
#### Inspection Summary

- -The conditions of the permit were reviewed with the facility representative, records were collected and reviewed, photos were taken and no compliance issued were noted during the on-site inspection.
- -It is being advised that the facility prepare to have the screen(s) replaced to meet the current regulatory requirements.

Photo(s) Attached? X Yes No How many photos? 2 Graphics Attached? Yes X No

#### Section 4 - Photos & Graphics





Recommendations or corrective actions:	
X No compliance issues observed – no further action.	-OR- Yes, compliance issues noted - further action required.
Inspector: Putty Signoture	Date: 4-2-2019  Date: 4-5-2019
//	

# Process Chemical Prices

	Š	Surry Chemicals	micals		Lighth	Lighthouse Chemical	ical			Brennt	<b>Brenntag Mid-South</b>	uth	$\neg$	Contr	Control Equip. Company	Company
Process Chemical	Q	gal	Order	q	gal	Fee	Order		qI	gal	Fee	Order		q	Fee	Order
Sodium Hypochlorite 12.5%		\$ 0.98	\$ 0.98 \$ 4,410.00		\$ 1.25		\$ 5,625.00	*		\$ 1.783	\$ 244.00	1.783 \$ 244.00 \$ 8,267.50				
DelPac 2020 (Bulk)				\$ 0.315			\$ 6,300.00	*								
DelPac 2020 (Single Barrel)	\$ 0.62	2	\$ 341.00	\$ 0.680			\$ 374.00							\$ 0.40	\$ 135.83	\$ 353.08
Delpac 2020 (Multiple Barrels)	\$ 0.62	2	\$ 5,653.78	\$ 0.680			\$ 6,200.92							\$ 0.40	\$ 862.38	0.40 \$ 862.38 \$ 4,464.39
Hydrofluosilicic Acid 23%	\$ 0.40	0	\$ 2,640.00							\$ 4.1026 \$	\$ 95.00	95.00 \$ 2,802.72	*			
Soda Ash Light Density	\$ 0.35	2	\$ 2,100.00	\$ 0.65			\$ 3,900.00	*	\$ 0.38							
Sodium Permanganate 20%	\$ 1.20	0	\$ 9,576.00 \$	\$ 1.35			\$ 10,773.00	*	\$ 1.15			\$ 9,177.00				
Hydrogen Peroxide 35%	\$ 0.35	2	\$ 175.00						\$ 0.55			\$ 275.00				
Hydrogen Peroxide 32%									\$ 0.6515			\$ 325.75				
Corrosion Control (Current)					\$ 13.20		\$ 726.00	*								
Corrosion Control (Aqua Pure 3655)	\$ 1.00	0	\$ 600.00													
DeChlor / Norweco Bio-Max 48lbs	\$ 154.00 ea.	0 ea.	\$ 2,464.00 \$	\$ 136.80 ea.	ea.	\$ 232.97	\$ 232.97 \$ 2,421.77	*					$\Box$			

\* Denotes current supplier

Surry 1% discount 10 days or net 30 days

# **Process Chemical Prices**

Actual Total \$ 161,657,77

		Comu	Common Order				//./ca/Tat ¢			
		Amon	unt	Current Price	Lowest Price	Orders	2018 Price	Current Price	Low	Lowest Price
Process Chemical	Qŧý.	Unit	Unit	per Order	per Order	in 2018	Annualized	Annualized	Anr	Annualized
Sodium Hypochlorite 12.5%	1		4500 gal	\$ 5,625.00	\$			\$ 22,500.00	\$ 00	17,640.00
Sodium Hypochlorite 12.5% (2018)				\$ 7,582.50		t	\$ 30,330.00			
Delbac 2020 (Bulk)	1	20000 lbs		\$ 6,300.00 \$	\$ 6,300.00	11	\$ 69,300.00	\$ 69,300.00	\$ 00	69,300.00
DelDac 2020 (Single Barrel)	1	550 lbs	55 gal	\$ 353.08	\$ 341.00	2		\$ 706.16	\$ 91	682.00
Delpac 2020 (Multiple Barrels)	16.58	550 lbs		\$ 4,464.39	\$ 4,464.39	1	\$ 4,464.39	\$ 4,464.39	\$ 68	4,464.39
Hydrofluosilicic Acid 23%	12	550 lbs		\$ 2,802.72 \$	\$ 2,640.00	3	\$ 8,408.15	\$ 8,408.15	15 \$	7,920.00
Soda Ash Light Density	8	2000 lbs		3,900.00	\$ 2,100.00	4.25	\$ 16,575.00	\$ 16,575.00	\$ 00	8,925.00
Sodium Permanganate 20%	15	532 lbs	55 gal	\$ 10,773.00	\$ 9,177.00	2	\$ 21,546.00	\$ 21,546.00	\$ 00	18,354.00
Hydrogen Peroxide 35%	1	500 lbs					- \$	\$	\$	ΣE:
Hydrogen Peroxide 32%	1	200	55 gal				- \$	\$	\$	1
Corrosion Control (Current)	1		55 gal	\$ 726.00		3	\$ 2,178.00	\$ 2,178.00	\$ 00	
Corrosion Control (Agua Pure 3655)	1	sql 009	55 gal		\$ 600.00	n	. \$	\$	\$	1,800.00
Dechlor / Norweco Bio-Max 48lbs	16	48 lbs		\$ 2,168.97 \$	\$ 2,168.97	2	\$ 4,337.94 \$	\$ 4,337.94	94 \$	4,337.94

s
150,015.63
s
\$ 157,139.47
Computed:

133,423.33

Computed: \$157,13		Est. Savings w/ Lowest \$ 23,71						
2018 Amount	Ordered	18,000 gal	220,000 lbs	19,120 lbs	19,800 lbs	25,500 lbs	15,960 lbs	

**Process Chemical** 

Sodium Hypochlorite 12.5%

165 gal 32 pails

DeChlor / Norweco Bio-Max 48lbs

Corrosion Control (Current)

Rare 1/yr?

Sodium Permanganate 20%

Hydrogen Peroxide 35%

Hydrofluosilicic Acid 23%

DelPac 2020 Barrels DelPac 2020

Soda Ash Light Density

# New River Regional Water Treatment Facility Capacity Allocation

# Allocated Capacity

Allocation %

Avg Daily Capacity 80% of Allocation

Carroll	
24.4%	
0.976 MGD	
0.781 MGD	

roll	

theville	37.8%	12 MGD	210 MGD
	Wytheville	Wytheville 37.8%	Wytheville 37.8% 1.512 MGD

Wythe County	37.8%	1.512 MGD	1.210 MGD

NRRWA Plant Total 100.0% **4.0 MGD** 3.2 MGD

NRRWA	NRRWA Plant Total
Avg MGD	% Capacity
1.796	44.9%
1.880	47.0%
1.837	45.9%
,	
1	
1	
1	

Year 2019		Carroll County	>	_	Town of Wytheville	ille		Wythe County	>	EN.	<b>NRRWA PI</b>
Month	Avg MGD	% Capacity	% Allocation	Avg MGD	% Capacity	% Allocation	Avg MGD	% Capacity	% Allocation	Avg MGD	MGD 9
January	0.509	12.7%	52.2%	0.861	21.5%	%6'95	0.426	10.7%	28.2%	1.	1.796
February	0.455	11.4%	46.6%	0.865	21.6%	57.2%	0.560	14.0%	37.0%	1.	1.880
March	0.524	13.1%	53.7%	0.882	22.1%	58.3%	0.431	10.8%	28.5%	1.	1.837
April											
Мау					1 - 10						
June											
July										,	
August											
September										•	
October					1				200		
November										1	
December										,	