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August 22, 2016

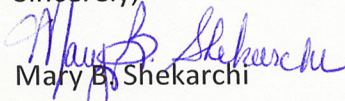
Ms. Luly Massaro, Clerk
RI Public Utilities Commission
89 Jefferson Blvd.
Warwick, RI 02888

RE: Kent County Water Authority – Docket No. 4611

Dear Ms. Massaro:

Please find enclosed herewith an original and nine (9) copies of the Kent County Water Authority's Responses to the Division of Public Utilities and Carriers Sixth Set of Data Requests. An electronic copy has been provided to the service list. Should you have any questions, please contact me. Thank you.

Sincerely,


Mary B. Shekarchi
Attorney at Law

MBS/mdc
Enclosure

Cc: Docket 4611 Service List (via electronic mail)

KENT COUNTY WATER AUTHORITY

Docket No. 4611

Sixth Set of Data Requests of the

Division of Public Utilities and Carriers

August 11, 2016

1. Please provide the latest estimated in service dates for the Mishnock WTP High Service Main and for the East Greenwich Well.

Response:

Mishnock Transmission Main, construction completion for use, end of December 2017.

East Greenwich Well, construction completion October 15, 2017.

Witness Responsible: T. Brown

2. What will be KCWA's estimated average daily production from the East Greenwich Well once it is placed back in service?

Response: As before average daily production 600,000gpd to 1mgd. Based on design capacity with 20% normal degradation after startup capacity is estimated at 1.4mgd. System gradient has always been an issue on production/distribution. This well does not run continuously.

Witness Responsible: T. Brown

3. What will be KCWA's estimated average daily production from the Mishnock WTP once the high service main project is completed? Please include a break-down of low service and high service production.

Response: This is definitely unknown due to systems decreased demands over the last few years. Our previous estimates of 2mgd production split 50% each gradient is still the goal. It is expected that the high service gradient will actually distribute 60% of production with 40% going to low service. This is controlled by demand and gradient restrictions. We expect winter to be less due to usage and demand, but are not projecting a down turn at this time.

Our current estimate is as follows:

| | Low Service | High Service | Total Production |
|--------|-------------|--------------|------------------|
| Winter | 800,000 | 1,200,000 | 2,000,000 |
| Spring | 800,000 | 1,200,000 | 2,000,000 |
| Summer | 800,000 | 1,200,000 | 2,000,000 |
| Fall | 800,000 | 1,200,000 | 2,000,000 |

Witness Responsible: T. Brown

4. Referring to Mr. Woodcock's Direct Testimony Schedule 1C, please explain how KCWA's estimated water production of 430,800 (1000 gal.)/yr. was calculated for FY2017.

Response: See attached

Witness Responsible: T. Brown

EAST GREENWICH WELL FACILITY INFORMATION AND FUTURE FLOW PROJECTION

| Production (1000 gal/yr) | Tetrapotassium Pyrophosphate CARUS-1205 | | Potassium Hydroxide | | Chlorine | | Tetrapotassium Pyrophosphate CARUS-1205 | | Potassium Hydroxide | | Chem Delivery and Freight | | Chem Delivery and Freight | | Power | | Lab Chems | | NG Fuel | |
|-----------------------------|---|--------|------------------------|--------|----------|--------|---|--------|------------------------|--------|------------------------------|----|------------------------------|----|----------|--------|-------------|-------|-----------|-----|
| | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | POTAS HYDR | \$ | POTAS HYDR | \$ | KWH USED | \$/KWH | \$/FY | \$/FY | Therms/FY | |
| FY 2011 | 232130 | 271 | 26025 | 10.46 | 250 | 2.50 | 26025 | 10.46 | 250 | 2.50 | 426.83 | \$ | 1,905.00 | \$ | 454207 | 0.122 | | | | |
| FY 2012 | 190990 | 439 | 19904 | 10.46 | 250 | 2.50 | 19904 | 10.46 | 250 | 2.50 | 495.92 | \$ | 2,025.00 | \$ | 465600 | 0.124 | | | | |
| FY 2013 | 175282 | 403 | 19560 | 10.46 | 250 | 2.50 | 19560 | 10.46 | 250 | 2.50 | 525.07 | \$ | 2,120.00 | \$ | 387360 | 0.13 | | | | |
| FY 2014 | 223338 | 513 | 25576 | 10.46 | 250 | 2.50 | 25576 | 10.46 | 250 | 2.50 | 555.40 | \$ | 2,835.00 | \$ | 547920 | 0.135 | | | | |
| FY 2015 | offline | | | | | | | | | | | | | | | | | | | |
| FY 2016 | offline | | | | | | | | | | | | | | | | | | | |
| FY 2017PROJ** | 138819 | 319 | 15384 | 10.46 | 243 | 2.43 | 15384 | 10.46 | 243 | 2.43 | 556.00 | \$ | 1,400.00 | \$ | 313385 | 0.186 | \$ 1,200.00 | | | 300 |

**AVG KWH WERE DERIVED FROM NAT GRID BILLS ONLY INCLUDING SUPPLY AND DELIVERY CHARGES (other charges and fees were left out but can be added if needed)

** FY2017 Projections based on rehabilitated well facility startup Nov 1st 2016 through June 30, 2017 (9 months). Flow projections based on the averages flowed for each respective month from 2010 until the well was taken offline in June 2014.

MISHNOCK TREATMENT FACILITY INFORMATION AND FUTURE FLOW PROJECTION

| Production (1000 gal/yr) | Potassium Permanganate | | Chlorine | | Potassium Hydroxide | | Citric Acid | | Sodium Bisulfite | | Aluminum Sulfate | | Sodium Flouride | | Sulfuric Acid | | Chemical Deliver Fees | | Power | | Fuel | | |
|-----------------------------|---------------------------|--------|----------|--------|------------------------|--------|-------------|--------|------------------|--------|---------------------|--------|-----------------|--------|---------------|--------|--------------------------|--------|-------|---------|---------|-----------|---|
| | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | KWH | \$/KWH* | Gallons | \$/Gallon | |
| Mishnock FY 2013 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| FY 2014 | 50000 | 3481 | 376 | 125 | 399 | 188 | 188 | 125 | 188 | 125 | 188 | 125 | 188 | 125 | 188 | 125 | 188 | 188547 | 0.166 | 4661 | | 4661 | |
| FY 2015 | 100000 | 7080 | 780 | 250 | 820 | 375 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 360000 | 0.185 | 6600 | | 6600 | |
| FY 2016 proj | 100000 | 7080 | 780 | 250 | 820 | 375 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 360000 | 0.186 | 6000 | | 6000 | |
| FY 2017proj** | 292000 | 20674 | 2278 | 250 | 2394 | 375 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 250 | 375 | 400000 | 0.186 | 6000 | | 6000 | |

**AVG KWH WERE DERIVED FROM NAT GRID BILLS ONLY INCLUDING SUPPLY AND DELIVERY CHARGES (other charges and fees were left out but can be added if needed)

** FY2017 Projections Based on High Service being connected on Feb 1st 2017 through June 30, 2017. Flow is 800 GPM M-F for 7 months then 1600 GPM M-Su for 5 months.

DELIVERY COSTS MISHNOCK

| Chemical | Env Fee | | Fuel Fee | | Mishnock Deliveries per year | | FY13 | | FY14 | | FY15 | | FY16 | | FY17 | |
|---|---------|---------|----------|---------|---------------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons | \$/gal | Gallons |
| Potassium Permanganate (5 gal 55.15 lb pails) | | | | | | | | | | | | | | | | |
| Sodium Hypochlorite | | | | | | | | | | | | | | | | |
| Potassium Hydroxide | | | | | | | | | | | | | | | | |
| Sulfuric Acid | | | | | | | | | | | | | | | | |
| Citric Acid | | | | | | | | | | | | | | | | |
| Sodium Bisulfite | | | | | | | | | | | | | | | | |
| Aluminum Sulfate | | | | | | | | | | | | | | | | |
| Sodium Flouride | | | | | | | | | | | | | | | | |

SEE HIGHLIGHTED ABOVE

(1000 gal / yr)

138819 + 292000 = 430819 ≈ 430000

(1000 gal / yr)

5. Please provide an estimated start and completion date for the proposed meter replacement program.

Response: Based on an acceptable PUC order and compliance filing, July 1, 2017 to June 30, 2020.

Witness Responsible: T. Brown

6. How many AMR meters are currently in place throughout the system? Will these meters be compatible with the new system?

| | | |
|-----------|---------------------------|-------|
| Response: | Gray Box (Obsolete) | 66 |
| | Old Technology (Obsolete) | 4,432 |
| | New Technology | 985 |

We do not know if they will be compatible with the new system based on bids to be solicited in spring of 2017 (pending acceptable PUC order). Our goal will be to utilize as many AMR's that are in place, but we will be advancing our technology to the most current in the selection process. We have estimated full replacement in our filing.

Witness Responsible: T. Brown

7. Are private fire lines metered or billed water consumption?

Response: Some fire lines are metered and some are not. Unmetered fire lines do not receive a bill for consumption. Metered fire lines receive a bill for consumption. The KCWA standard practice requiring the metering of fire lines was overruled in division order 21756 Docket D-14-22 without judicial deference to the requirement that “all water delivered be metered” set in RIGL 46-15-.3-22(b), therefore, single fire lines will not be metered in the future. Combined systems will still be metered.

Witness Responsible: T. Brown

**Docket No. 4611- Kent County Water Authority – Multi-Year Rate Plan
Service List 8/12/16**

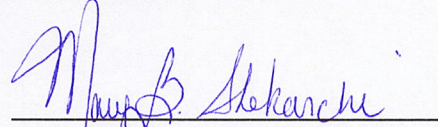
| Name/Address | E-mail Address | Phone |
|--|--|---------------------------|
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| Timothy Brown, P.E. General Manager Chief Engineer Kent County Water Authority PO Box 192 West Warwick, RI 02893-0192 | tbrown@kentcountywater.org ; | 401-821-9300 |
| Christopher Woodcock Woodcock & Associates, Inc. 18 Increase Ward Drive Northborough, MA 01532 | chris@w-a.com ; | 508-393-3337 |
| Division of Public Utilities & Carriers (Division) Leo Wold, Esq. Dept. of Attorney General 150 South Main St. Providence, RI 02903 | Lwold@riag.ri.gov ; | 401-274-4400 Ext. 2218 |
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| Coventry Fire District (CFD) Arthur M. Read, Esq. Del Sesto & Read, Inc. 612 Greenwich Avenue Warwick, RI 02886 | art@delamrlaw.com ; | 401-340-1019 |
| Central Coventry Fire District (CCFD) David M. D'Agostino, Esq. Nicholas Gorham, Esq. Gorham & Gorham, Inc. P.O. Box 46 25 Danielson Pike, Scituate, RI 02857 | daviddagostino@gorhamlaw.com ; | 401-647-1400 |

| | | |
|---|--|--------------|
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| | Cynthia.WilsonFrias@puc.ri.gov ; | |
| | Sharon.ColbyCamara@puc.ri.gov ; | |

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 4611

Dated: August 22, 2016

Respectfully submitted,



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CERTIFICATION OF SERVICE

I hereby certify that on this ^{22nd} day of August, 2016, I sent a copy of within to the Parties listed on the attached service list.

