Aquila, Inc. d/b/a Aquila Networks – MPS and Aquila Networks – L&P

# Lead/Lag Study For Missouri Gas Operations

For the Calendar Year 2002

**Purpose.** A lead/lag study is performed to determine the cash working capital component necessary to compute the working capital portion of rate base. The remaining components of working capital, such as the investment in materials and supplies, liquefied petroleum (propane) inventories, prepayments, etc., are determined by generally accepted regulatory methods. A lead/lag study measures the differences in time frames between (1) the time that service is rendered until the revenues for that service are received (lag) and (2) the time that labor, materials, or services are used in providing service until expenditures for such items are made (lead). Each major category of expense and its applicable lag days is compared to the calculated revenue lead days. The difference between these periods, expressed in terms of days, times the average daily operating expenses, produces the cash working capital required or available for those operating expenses.

<u>Components of the Lead/Lag Study.</u> This lead/lag study will compile and analyze revenues collected and expenses paid to determine the lead or lag days. This study has been categorized into the following major classifications:

# Lag Time for Revenues Collected

- A. Metering Period
- B. Processing Time
- C. Collection Period

# Lead Time for Expenses Paid

- A. Payroll Expense
- B. Gas Purchase Expense
- C. Other Operation and Maintenance Expense

# Calculation of Revenue Lag Time.

- A. <u>Metering Period.</u> Aquila's gas meters are read and bills are computed on a monthly basis. The total number of days between initially providing service to a customer and the date of reading the customer's meter is 365 /12, or 30.4 days. Since a lead/lag study is computed on an average basis, the midpoint of a metering cycle would be one half the 30.4 days, or 15.2 days. This reflects the average number of days the Company incurs expenses until the customer's meter is read.
- B. <u>Processing Time.</u> Bill processing reflects the number of days from the date a meter is read until the bills are mailed. There are two categories of bills Cycle 21 for transportation and aggregated bills, and Non-Cycle 21 for sales.

Non-Cycle 21 refers to all meter-read customers. By using ITRON equipment to read meters and transmit data, the Company is able to read a customer's meter in a three-day period and generally produce a bill within 24-48 hours. The Company's billing system is designed to prepare sales customer bills in three to five business days. In 2002, the average time necessary to prepare a Missouri gas sales bill was 9.02 days. This statistic was unusually long due to the transfer of billing operations from Omaha to Raytown, which delayed many bills. To correct this problem, a second query was run with all bill preparation times greater than five days changed to 5 days. This time period was chosen because the Company's billing system is designed to prepare all sales bills within five days, and because it is close to the average of all non-adjusted data. After making this change, the average time to prepare a sales bill was 4.516 days.

Cycle 21 customers are handled differently. These meters can be either chart-read or tele-metered. Since these are usually transportation customer bills, information must frequently be obtained from interstate pipelines before the bills can be prepared. Once the meter reading data for these customers is obtained, the volumes for each customer are sent to the Company's transportation billing department, where the bills are manually calculated, checked through various control procedures, and mailed. The average Cycle 21 bill was prepared in 18.5 days.

To calculate the bill processing period, a computer query was written to calculate the number of days between the end of the meter reading period and the date each bill was issued for every Missouri gas customer during the calendar year 2002 (both Cycle 21 and Non-Cycle 21.) Each bill amount was multiplied times the number of preparation days to determine a weighted average lag period per customer. Dividing the total weighted end-of-period to bill issue date amount by the payment amount yields the average number of days necessary to process bills. In 2002, the Company prepared Sales bills in an average of 4.52 days, Cycle 21 bills in an average of 18.52 days, or a weighted average of 6.24 days for all bills.

The following table shows the computation of the average bill processing time for all Missouri customers during calendar 2002:

Bill Cycle	Annual Payment Amount	Weighted End of Period to Bill Issue Date	Bill Processing Days
Cycle 21	\$10,621,830.38	\$196,702,896.94	18.52days
Non-Cycle 21	\$75,430,620.82	\$340,651,405.98	4.52 days
Total – All Cycles	\$86,052,451.20	\$537,354,302.92	6.24 days

C. <u>Collection Period.</u> The collection period is the average number of days for the Company to receive customer payments. The same query used to calculate the bill processing period calculated the collection period by comparing the number of days between bill issuance and the date the bill was paid. The bill collection days was calculated by dividing the Weighted Bill Collection Period by the Annual Payment Amount. This analysis was performed for all Missouri customers. In 2002, the average bill was paid in 21.177 days.

Bill Cycle	Annual Payment Amount	Weighted End of Period to Bill Issue Date	Bill Collection Days
Cycle 21	\$10,621,830.38	\$207,708,010.67	19.55 days
Non-Cycle 21	\$75,430,620.82	\$1,614,619,608.29	21.41 days
Total – All Cycles	\$86,052,451.20	\$1,822,327,618.96	21.18 days

# **Calculation of Expense Lead**

- A. <u>Payroll</u>. Both the Field (Operations) and Central Office (Administrative) employees are paid bi-weekly (every other Friday). There are 26 pay periods in the year. The average lead time is 365 days divided by 26 pay periods, or 14.0 days. The average lead time would be one-half of the 14.0 days, or 7.0 days. In addition, payroll is paid 7 days in arrears, so the average payroll lead time is 14.0 days. This is the number of days between the midpoint of the pay period and the date the payroll is paid.
- B. <u>Gas Purchase Expense.</u> The payment period for gas purchases is calculated by taking the number of days from the midpoint of the delivery period to the payment date for each invoice. The resulting payment time is then multiplied by the amount paid. Dividing the total weighted average payment amount by the total amount paid provides the lead

time for gas purchases. This study reviewed all gas purchase invoices in all of the Company's operations for the calendar year 2002, with the following results: Weighted Payment Amount (payments x lag days) \$32,678,304,085.11 / Annual Payment Amount \$730,848,206.03 = 44.713 days.

C. <u>Other Operation and Maintenance Expense.</u> Other O&M Expense consists of cash disbursements for items such as materials, miscellaneous services, professional and contractor services, and employee expenses. To determine the lead time for Other O&M Expenses, a computer query sorted all Missouri expenditures for 2002, excluding gas purchases and payroll. The query calculated the number of days between the invoice date and the date of payment, weighted the results, and then averaged the weighted results. The division of the total weighted Other O&M lead days amount by the total payment amount provides the average number of days between the invoice date and the jayment date. The overall lead days for Missouri O&M Expenses in 2002 was 29.956 days.

# Weighted Other O&M Expenses \$4,987,142,695.39 = 29.956 days Total Payment Amount \$166,182,569.97

A second method, the  $1/8^{th}$  Rule, was also considered for O&M Expenses. Under this approach, 365 days per year is divided by  $1/8^{th}$  or 0.125 = 45 days. Aquila chose this approach because it provides a more conservative result (i.e., longer lead).

Calculation of Days Cash Required. The difference between revenue lag and

expense lead times for each expense category provides the net number of days of

cash required.

The cash requirement for Payroll Expense is calculated as follows:

Payroll lag time	42.621 days
Less: Payroll lead time	<u>14.000</u> days
Days cash required	28.620 days

The cash requirement for Gas Purchase Expense is calculated as:

Gas Purchase lag time	42.621 days
Less: Gas Purchase lead time	44.710 days
Days cash required/(provided)	(2.090) days

The case requirement for Other Operations and Maintenance Expense is:

O&M lag time	42.621 days
Less: O&M Expense lead time	45.000 days
Days cash required	(2.380) days

	Old	New	Sec.	
No	Sheet	Sheet	No.	Description of Tariff Change

Char	nges to All	Sheets		
1				Change company names to Aquila Networks-MPS and Aquila Networks-L&P
2				Eliminate reserved pages and re-paginate
Char	nges to MF	S Rate Sc	hedules	
3				New cover page
4	0.1	N/A	N/A	Delete Adoption Notice
5	1	1		Index – update, consolidate MPS, L&P
6	1	2		Communities served – consolidate MPS, L&P
7	1.1-1.3	3-6		Description of Authorized Gas Service Territory - consolidate MPS, L&P
8	New	7		Map of service systems
9	2	8-14		General Service Rate Schedule – divide class into Residential, Small Commercial, Small Volume and Large
				Volume classes; eliminate block rates
10	New	8		Residential Service (RS-M) rate schedule applicable to Southern, Northern and Eastern systems; increase
				customer charge from \$9.00 to \$15.00; increase energy charge from \$0.22295/Ccf to \$0.26825/Ccf
11	New	9		Small Commercial Firm (SCF-M) rate schedule applicable to Southern, Northern and Eastern systems; 0-4999
				Ccf annual usage; increase customer charge from \$9.00 to \$25.00; increase energy charge from
				\$0.22295/Ccf to \$0.26200/Ccf
12	New	10		Small Volume Firm (SVF-M) rate schedule applicable to Southern, Northern and Eastern systems; 5000-
				39,999 Ccf annual usage; increase customer charge from \$9.00 to \$50.00; decrease energy charge from
				\$0.22295/Ccf to \$0.19200/Ccf
13	4-6	11		Large Volume Firm (LVF-M) rate schedule - applicable to Southern, Northern and Eastern systems; annual
				usage of 40,000 Cct or more, reduced from 150,000 Cct; eliminate block rates; no change in customer charge;
				energy charge increased from \$0.0246/\$0.01000/Ccl to \$0.03790/Ccl; demand charge increased from
4.4	<u> </u>	Delete		\$0.3900/CCI to \$0.4000/CCI.
14	6-9	Delete		Large Volume Firm Sales contract – delete
15	10-12	13		Large volume interruptible (LVI-IVI) rate schedule - applicable to Southern, Northern and Eastern systems;
				annual usage of 40,000 CCI of more, reduced from 150,000 CCI, eliminate block rates, no change in customer abarge; opergy oberge increased from \$0.0246/\$0.01000/Cef to \$0.02700/Cef; demand oberge increased from
				\$0.3000/Cef to \$0.4000/Cef
16	12-15	Delete		Jarge Volume Interruntible Sales contract - delete
17	16-18	Delete		Large Volume Transportation Service schedules – delete
17	10-10	Delete		Large volume mansportation service schedules – delete

#### Exhibit RJA-2 **Direct Testimony of Robert J. Amdor** Old New Sec. No Sheet Sheet No. **Description of Tariff Change** 38 Flexible Rates for Transportation Customers 18 19 19 20 39 Special Transportation Contract Rates Additional provisions applicable to Transportation Service 20 21-28 22-50 32.8 Small Volume Transportation (SVTS-M) rate schedule applicable to Southern, Northern and Eastern systems; 21 28 5,000 to 39,999 Ccf annual usage; customer charge \$50.00; energy charge \$0.17150/Ccf Large Volume Transportation (LVTS-M) rate schedule applicable to Southern. Northern and Eastern systems: 22 16 31 40,000 Cc or greater annual usage; customer charge \$50.00; energy charge \$0.03500/Ccf; demand charge \$0.40000/Ccf 29-32 Large Volume Interruptible Transportation contract – delete 23 Delete 24 32.1-25 22-52 **Transportation Service** Consolidate PGAs, adopt MPS PGA clause 25 33-44.1 53-64 26 Tax and License Rider 45 65 Move promotional practices section to Rules and Regulations 27 46-49 28 50 Delete Promotional Practices variance for Salem and Owensville conversion costs – delete **Changes to L&P Rate Schedules** N/A **Delete Adoption Notice** 29 0.1 N/A 30 1 1 New Index 2 2 Index of communities served – consolidate MPS, L&P 31 N/A Index of certificated territories - consolidate MPS, L&P 32 2.1-2.2 3-6 N/A 33 3 7 N/A System map Residential service schedule 910 for all territory except Fairfax, Rockport and Tarkio 34 4 Residential service schedule 911 for Fairfax, Rockport and Tarkio 35 4.1 New Residential Service (RS-L) rate schedule applicable to all L&P territory; increase customer charge from 36 New 15 \$6.66 to \$10.00 (\$5.65 to \$10.00 in Fairfax, Rockport and Tarkio); increase energy charge from \$0.16350/Ccf to \$0.22950/Ccf 37 5 Delete General service schedule 920 for all territory except Fairfax, Rockport and Tarkio 5.1 General service schedule 921 for Fairfax, Rockport and Tarkio 38 Delete Divide General Service class into Small Commercial, Small Volume and Large Volume classes; eliminate 39 5-5.1 16-18 block rates New Small Commercial Firm (SCF-L) rate schedule applicable to all L&P territory; 0-4999 Ccf annual usage; 40 New 16 increase customer charge from \$12.31 to \$20.00 (\$9.39 to \$20.00 in Fairfax, Rockport and Tarkio); increase

	Old	New	Sec.	
No	Sheet	Sheet	No.	Description of Tariff Change
				energy charge from \$0.14010/Ccf to \$0.20650/Ccf
41	New	17		New Small Volume Firm (SVF-L) rate schedule applicable to all L&P territory; 5000-39,999 Ccf annual usage;
				increase customer charge from \$12.31 to \$40.00 (\$9.39 to \$40.00 in Fairfax, Rockport and Tarkio); increase
				energy charge from \$0.14010/Ccf to \$0.17150/Ccf
42	6	18		Large Volume Firm (LVF-L) rate schedule applicable to all L&P territory; 40,000 Ccf or greater annual usage;
				increase customer charge from \$184.53 to \$200.00; reduce energy charge from \$0.07290/Ccf to
				\$0.03500/Ccf; add demand charge \$0.40000/Ccf
43	6	18		Large service schedule 930
44	New	20		New Large Volume Interruptible (LVI-L) rate schedule applicable to all L&P territory; 40,000 Ccf or greater
				annual usage; customer charge \$200.00; energy charge \$0.03500/Ccf; add demand charge \$0.40000/Ccf
45	7.1-7.8	22-50		Remove Transportation Service rate schedule and rules provisions; new transportation provisions were
				adopted in October 2002 (Sheets 22-50).
46	7.1-7.4			Transportation service schedule 971
47	32.8	33		Small Volume Transportation (SVTS-L) rate schedule applicable to all L&P territory; 5,000 to 39,999 Ccf
				annual usage; customer charge \$50.00; energy charge \$0.17150/Ccf
48	7.1	36		Large Volume Transportation (LVTS-L) rate schedule applicable to all L&P territory; 40,000 Cc or greater
				annual usage; customer charge \$50.00; energy charge \$0.03500/Ccf; demand charge \$0.40000/Ccf
49	New	38		New Flexible Rate Transportation Service (LVTS-F)
50	New	39		New Special Contract Rates for Transportation Service (LVTS-SC)
51	8-9.4	53-64		Purchased gas adjustment clause
52	32.1-21	22-52		Gas transportation service
<u>Char</u>	nges to MP	'S Rules ar	nd Regul	ations
53				New cover page
54	R1-R2	R1-R2		New Index
55	R3-R4	R3-R4		Changes to definitions: "company," "normal business hours"
56	R5	R5		New language to affirm the customer's responsibility to notify company of permanent changes in load
				characteristics or requirements
57	R7	R8	2.04	Adopt a 6.0 percent deposit interest rate
	_		G(4)	
58	R15	R18	2.07A	Increase charge for reconnections from \$20 to \$30 during normal business hours, with no change in charge
				for connections after normal business hours; moved dollar references to table in Section 10

### Exhibit RJA-2 **Direct Testimony of Robert J. Amdor** Old New Sec. No Sheet Sheet No. **Description of Tariff Change** New language establishes a connection charge for after-hours reconnections. R15 R18 2.07B 59 New R19 2.07C New language establishes a trip charge to cover trip costs when crews are scheduled to disconnect service. 60 but customers pay at the premise. New language to establish a special reconnect charge for customers that order disconnections and 61 New R19 2.07D reconnections within a twelve month period. The charge would be the greater of a standard reconnect fee (\$30/\$50) or the sum of customer charges that would have been charged if the customer had remained on gas service during the period of disconnection. This change is intended to address cost subsidization by the general system when customers turn off gas service for several months. 62 New R19 2.07E New language to affirm that connection and reconnection charges do not include the costs of line extensions. New language to establish a \$20 charge for returned checks. 63 R19 2.08 New 64 R16 Delete language requiring a trip charge for connection or disconnection of customer appliances. Aquila Networks no longer performs this service due to the potential liability. Adopt the L&P charge for installing excess flow valves when new service is installed. 65 R16 R20 2.09 66 R22 Adopt new language to simplify priority of service for curtailment. **R18** 3.07 Adopt new language to permit customers to request a special meter test. If the test shows the meter is 67 New R27 5.03B reading within the allowed two percent tolerance, customer pays the company the cost of the test or \$30, whichever is less. R23 R28 5.04C Adopt new language to affirm the current practice that when a meter is found to have an average error of more 68 than two percent, the refund and corrected billing provisions of Section 5.04 apply. 69 R24 R30 6.03C Adopt new language to allow small volume transportation customers to move from transportation service back to sales service every six months, as stated in the transportation rules. Adopt new language to reflect changes in the company's business practices, which now encourage customers 70 R25 R31 6.04B to use an interactive voice response system to record meter readings, instead of postcards. Increase the charge for meter readings by special appointment to the cost of the trip, \$30 during regular 71 R26 R32 6.04C business hours, and \$50 after regular business hours. Adopt new language to reflect changes in the company's business practices, which now encourage customers 72 R28 R35 6.06A to report disputes to the company's 24 hour customer service center. R32-R34 Adopt new policies for extensions of mains and service lines, including distinguishing treatment of temporary R40-R47 7 73 and permanent service, and a capital project feasibility model. R36-R37 R51-R52 74 10 Update table of charges.

	Old	New	Sec.	
No	Sheet	Sheet	No.	Description of Tariff Change

Cha	Changes to L&P Rules and Regulations						
75	R1-R2	R1		Index			
76	R3-R4	R3-R4	1	Definitions			
77	R5	R5	2	Requesting Service			
78	R5	R5, R29	2.01	Receipt of Service			
79	R5	R5	2.02	Contract Period			
80	R6-R9	R25	3	Customer's Service			
81	R6	R25	3.01	Customer's Piping and Appliances			
82	R6		3.02	Right of Way			
83	R7	R40-R46	3.03	Line Extensions			
84	R7	R45	3.04	Additional Facilities			
85	R10-R13	R26-R27	4	Measuring Service			
86	R10	R26	4.01	Meter Installation			
87	R10	R26	4.02	Meter Measurement			
88	R11	R27	4.03	Meter Failure or Error			
89	R12	R27	4.04	Customer Billed Under Wrong Schedule			
90	R13	R29	4.05	Estimated Readings			
91	R14		4.06	Sub-metering and Resale of Energy			
92	R14-R29		5	Paying for Service			
93	R14	R6-R8	5.01	Residential Security Deposit Requirements			
94	R17	R6-R8	5.02	Non-residential Security Deposit Requirements			
95	R18		5.03	Billing of License, Occupation, Franchise or Similar Charges or Taxes			
96	R19	R39	5.04	Late Payment Charge			
97	R19	R34	5.05	Average Payment Plan			
98	R20		5.06	Non-Payment			
99	R20	R27	5.07	Billing Adjustments			
100	R21	R37	5.08	Settlement Agreements			
101	R22	R9-R13	5.09	Disconnection of Service			
102	R22.2	R18	5.10	Charge for Reconnecting			
103	R23	R14-R17	5.12	Cold Weather Rule			
104	R29	R19	5.13	Returned Checks of Drafts			
105	R29	R22	5.14	Curtailment of Service			

	Old	New	Sec.	
No	Sheet	Sheet	No.	Description of Tariff Change

106	R30-R33		6	Safety
107	R30		6.01	Customer Equipment
108	R30	R25	6.02	Ownership and Maintenance of Services
109	R30		6.03	Venting of Appliances
110	R30	R22	6.04	Load Limitations
111	R31	R21	6.05	Continuity of Service
112	R31	R22	6.06	Unauthorized Interference, Diversion of Use
113	R33	R21	6.07	Access for Company's Representatives
114	R33	R22	6.08	Opening of Service Lines
115	R33	R21	6.09	Indemnity to Company
116	R34	R20	6.10	Excess Flow Valves
117	R34-R36	R48	7	Promotional Practices

# Summary of Test Year Fee Revenue 2002 Aquila Networks - MPS

	Test Year	_				Estimated	_				
	Number of	E	xisting		Existing	Number of	P	roposed		Proposed	
	Transactions		гее		Revenue	Transactions		гее		Revenue	
Connections											
Business Hours	7,581	\$	20.00	\$	151,620.00	7,581	\$	30.00	\$	227,430.00	
After Bus. Hours	549	\$	55.00	\$	30,195.00	549	\$	50.00	\$	27,450.00	
Reconnections											
Business Hours	1,600	\$	20.00	\$	32,000.00	1,600	\$	30.00	\$	48,000.00	
After Bus. Hours	59	\$	55.00	\$	3,245.00	59	\$	50.00	\$	2,950.00	
Reconnects within 12 months	35	\$	20.00	\$	700.00			\$20.00	\$	-	
Excess Flow Valves											
New installations	3	\$	30.00	\$	90.00	3	\$	65.00	\$	195.00	
Special meter reads											
Business Hours	1.708	\$	5.00	\$	8.540.00	342	\$	30.00	\$	10.248.00	1
After Bus. Hours	-	\$	10.00	\$	-		\$	50.00	\$	-	-
Collection fee at disconnects											
Business Hours				\$	-	462	\$	30.00	\$	13,845.00	2
Charge for NSF Checks				\$	-	695	\$	20.00	\$	13,900.00	
Total Revenue				\$	226,390.00				\$	344,018.00	

# NOTES:

1 Assume the increase in fee will reduce special meter reads by 80%

2 Assume the collection fee will reduce payments at disconnection by 50%

# Summary of Test Year Fee Revenue 2002 Aquila Networks - L&P

Connections Business Hours         700 28         \$ -         700 28         \$ 30.00 \$ 50.00         \$ 21,000.00           Reconnections Business Hours         28         \$ -         28         \$ 50.00         \$ 21,000.00           Reconnections Business Hours         95         \$ 20.00         \$ 1,900.00         95         \$ 30.00         \$ 2,850.00           Reconnections Business Hours         95         \$ 20.00         \$ 1,900.00         95         \$ 30.00         \$ 2,850.00           Reconnects within 12 months         -         \$ 55.00         \$ 1,900.00         8 \$ 50.00         \$ -           Excess Flow Valves New installations         -         \$ 65.00         \$ -         -         \$ 65.00         \$ -           Special meter reads Business Hours         179         \$ -         \$ -         \$ -         \$ 65.00         \$ 1,074.00           After Bus. Hours         13         \$ -         \$ -         7         \$ 30.00         \$ 195.00		Test Year Number of Transactions	Existing			Existing	Estimated Number of Transactions	Proposed			Proposed	
Business Hours       700       \$       -       700       \$       30.00       \$       21,000.00         After Bus. Hours       28       \$       -       28       \$       50.00       \$       21,000.00         Reconnections       95       \$       20.00       \$       1,900.00       95       \$       30.00       \$       2,850.00         After Bus. Hours       95       \$       20.00       \$       1,900.00       8       \$       50.00       \$       2,850.00         After Bus. Hours       95       \$       \$       20.00       \$       1,900.00       8       \$       \$       2,850.00         Reconnects within 12 months       -       \$       \$       -       .       \$       20.00       \$       -         Excess Flow Valves       -       \$       65.00       \$       -       -       .       \$       65.00       \$       -         Special meter reads       179       \$       65.00       \$       -       36       \$       30.00       \$       1,074.00         After Bus. Hours       13       \$       -       \$       -       7       \$       30.00       \$ <th>Connections</th> <th>Transactions</th> <th></th> <th>ree</th> <th></th> <th>Revenue</th> <th>Transactions</th> <th></th> <th>ree</th> <th></th> <th>Revenue</th> <th></th>	Connections	Transactions		ree		Revenue	Transactions		ree		Revenue	
Dusiness Hours       100       3       100       3       50.00       3       21,000.00         After Bus. Hours       28       \$       -       28       \$       50.00       \$       1,400.00         Reconnections       Business Hours       95       \$       20.00       \$       1,900.00       95       \$       30.00       \$       2,850.00         After Bus. Hours       95       \$       20.00       \$       1,900.00       8       \$       50.00       \$       2,850.00         Reconnects within 12 months       -       \$       20.00       \$       -       \$       20.00       \$       -         Excess Flow Valves       -       \$       65.00       \$       -       -       \$       65.00       \$       -         Special meter reads       -       \$       65.00       \$       -       \$       65.00       \$       -         Special meter reads       179       \$       -       \$       -       \$       30.00       \$       1,074.00         After Bus. Hours       -       \$       -       \$       -       7       \$       30.00       \$       1,95.00 <th>Business Hours</th> <th>700</th> <th></th> <th></th> <th>\$</th> <th>_</th> <th>700</th> <th>\$</th> <th>30.00</th> <th>¢</th> <th>21 000 00</th> <th></th>	Business Hours	700			\$	_	700	\$	30.00	¢	21 000 00	
Reconnections       95       \$       2000       \$       1,900.00       95       \$       30.00       \$       1,400.00         Reconnections       Business Hours       95       \$       20.00       \$       1,900.00       8       \$       50.00       \$       2,850.00         After Bus. Hours       8       \$       55.00       \$       1,900.00       8       \$       50.00       \$       2,850.00         Reconnects within 12 months       -       \$       5       0       \$       -       \$       20.00       \$       -         Excess Flow Valves       -       \$       65.00       \$       -       -       \$       65.00       \$       -         Special meter reads       -       \$       65.00       \$       -       \$       65.00       \$       -         Special meter reads       179       \$       -       \$       -       36       \$       30.00       \$       1,074.00         Collection fee at disconnects       13       \$       -       \$       -       7       \$       30.00       \$       195.00	After Bus Hours	28			Ψ Φ	-	28	Ψ Φ	50.00	ψ ¢	21,000.00	
Reconnections Business Hours After Bus. Hours95 8\$20.00 \$\$1,900.00 440.0095 8\$30.00 \$\$2,850.00 400.00Reconnects within 12 months-*\$\$20.00\$-Excess Flow Valves New installations-*\$65.00\$\$\$65.00\$-Special meter reads Business Hours After Bus. Hours179 -\$\$-\$36 *\$30.00 *\$1,074.00 *Collection fee at disconnects Business Hours13\$-\$-7\$30.00\$195.00	Alter Bus. Hours	20			φ	-	20	φ	30.00	φ	1,400.00	
Business Hours       95       \$       20.00       \$       1,900.00       95       \$       30.00       \$       2,850.00         After Bus. Hours       -       -       \$       -       -       \$       20.00       \$       440.00         Reconnects within 12 months       -       -       \$       -       -       \$       20.00       \$       -         Excess Flow Valves       -       -       \$       65.00       \$       -       -       \$       65.00       \$       -         Special meter reads       -       \$       65.00       \$       -       \$       65.00       \$       -         Special meter reads       179       \$       -       \$       -       36       \$       30.00       \$       1,074.00       -         After Bus. Hours       -       *       -       \$       -       50.00       \$       1,074.00       -       -       -       \$       30.00       \$       1,074.00       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Reconnections											
After Bus. Hours       8       \$       55.00       \$       440.00       8       \$       50.00       \$       400.00         Reconnects within 12 months       -       \$       -       \$       20.00       \$       -         Excess Flow Valves New installations       -       \$       65.00       \$       -       -       \$       65.00       \$       -         Special meter reads Business Hours After Bus. Hours       179       \$       -       \$       -       36       \$       30.00       \$       1,074.00       -         Collection fee at disconnects Business Hours       13       \$       -       \$       -       7       \$       30.00       \$       195.00	Business Hours	95	\$	20.00	\$	1,900.00	95	\$	30.00	\$	2,850.00	
Reconnects within 12 months-\$-\$20.00\$-Excess Flow Valves New installations-\$65.00\$\$65.00\$-Special meter reads Business Hours179 -\$-\$-\$65.00\$-Collection fee at disconnects Business Hours13\$-\$-7\$30.00\$195.00	After Bus. Hours	8	\$	55.00	\$	440.00	8	\$	50.00	\$	400.00	
Reconnects within 12 months-\$\$-\$20.00\$-Excesss Flow Valves New installations-\$\$\$\$\$\$-Special meter reads Business Hours After Bus. Hours179 *\$-\$\$-36\$\$30.00\$1,074.00Collection fee at disconnects Business Hours13\$-\$-7\$30.00\$195.00					·					·		
Excess Flow Valves New installations-\$65.00\$\$65.00\$-Special meter reads Business Hours179\$-\$-\$36\$30.00\$1,074.00Collection fee at disconnects Business Hours13\$-\$-7\$30.00\$195.00	Reconnects within 12 months	-			\$	-	-	\$	20.00	\$	-	
Excess Flow Valves New installations-\$\$\$-\$\$65.00\$-Special meter reads Business Hours After Bus. Hours179 -\$-\$-36 *\$30.00 *\$1,074.00 -Collection fee at disconnects Business Hours13\$-\$-7\$30.00\$195.00												
New installations       -       \$       65.00       \$       -       \$       65.00       \$       -         Special meter reads Business Hours After Bus. Hours       179       \$       -       \$       -       36       \$       30.00       \$       1,074.00       -         Collection fee at disconnects Business Hours       13       \$       -       \$       -       7       \$       30.00       \$       195.00	Excess Flow Valves											
Special meter reads Business Hours179 -\$-\$-179 After Bus. Hours179 -\$-\$-20 Collection fee at disconnects Business Hours13\$-\$-13\$-\$-7\$30.00\$195.00	New installations	-	\$	65.00	\$	-	-	\$	65.00	\$	-	
Special meter reads Business Hours179\$-\$-36\$30.00\$1,074.00After Bus. Hours-\$-\$-\$-\$-Collection fee at disconnects Business Hours13\$-\$-7\$30.00\$195.00												
Business Hours       179       \$       -       \$       -       36       \$       30.00       \$       1,074.00         After Bus. Hours       -       \$       -       \$       -       \$       - <td< td=""><td>Special meter reads</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Special meter reads											
After Bus. Hours       -       \$       -       \$       -       \$       50.00       \$       -         Collection fee at disconnects Business Hours       13       \$       -       \$       -       7       \$       30.00       \$       195.00	Business Hours	179	\$	-	\$	-	36	\$	30.00	\$	1,074.00	1
Collection fee at disconnects Business Hours13 \$ - \$ -7 \$ 30.00 \$ 195.00	After Bus. Hours	-	\$	-	\$	-		\$	50.00	\$	-	
Collection fee at disconnects Business Hours13 \$ - \$ -7 \$ 30.00 \$ 195.00			Ŧ		Ŧ			Ŧ		Ŧ		
Business Hours         13 \$ - \$ -         7 \$ 30.00 \$ 195.00	Collection fee at disconnects											
	Business Hours	13	\$	-	\$	-	7	\$	30.00	\$	195.00	2
		-			Ŧ					Ŧ		
Charge for NSF Checks 78 \$ - 78 \$ 20.00 \$ 1.560.00	Charge for NSF Checks	78			\$	-	78	\$	20.00	\$	1.560.00	
	5				Ŧ			•		•	,	
Total Revenue \$ 2,340.00 \$ 28,479.00	Total Revenue				\$	2,340.00				\$	28,479.00	

# NOTES:

1 Assume the increase in fee will reduce special meter reads by 80%

2 Assume the collection fee will reduce payments at disconnection by 50%