

ALBANY WATER BOARD
MINUTES OF REGULAR MEETING
April 28, 2017

A regular meeting of the Albany Water Board was officially convened at 9:30 AM, local time, in the Conference Room at the Albany Water Board, 10 North Enterprise Drive, Albany, New York Friday, March 24, 2017.

PRESENT: William Clay, Chairman; Charles Houghton, Vice Chairman; Rachel Johnson, Secretary; Daniel Ranellone, Treasurer; Anthony Owens, Member;

STAFF PRESENT: Joseph E, Coffey, Jr., P.E., Commissioner; William Simcoe, P.E., Deputy Commissioner; Christopher Quirk, CFO; Debra Brand, Administrative Assistant; Elizabeth Romand, Confidential Assistant, AWB;

BOARD ADVISORS PRESENT: Trey Kingston, Assistant Corporation Counsel; Kevin Hogan, ARCADIS; William Kahn, UHY Advisors; Robert Hennes, Hugh Johnson Advisors; Michael Miller, CHA;

Approval of February 17, 2017 Meeting Minutes

Chairman William Clay introduced the minutes of the February 17, 2017 meeting. With no objection, the reading was dispensed and Chairman William Clay called for a motion to approve the minutes of said meeting. A motion was made by Mr. Houghton seconded by Mr. Ranellone, and passed unanimously.

Public Comment Period

Anthony DeThomasis, owner of Delmar Mall properties 154-156 on Delaware Avenue, discussed a request for an access and parking easement on Water Board property that conveys our water transmission main near Delaware Plaza. He provided a handout package of materials to the Board detailing the request.

Water Bill Review Committee

There were no water billing appeals for review this period.

Report on Investment Accounts

Robert Hennes, Rate Consultant, submitted a report on the status of the Board's investment accounts. He noted that the Chase Account funds will be transferred and that the account will be closed, since we can achieve better interest income by moving to a different account. Report attached.

Big "C" CHA Floatable Control Facilities Proposal Presentation

Michael Miller of CHA presented a status report for the project and presented a proposal from the Joint Venture team for the next phases of the project with a request to authorize engineering design and a public outreach program that will support Department staff (proposal attached).

Committee & Staff Reports

Cash Flows and other combined Financial Information: Christopher Quirk, Chief Fiscal Officer, submitted a statement of the Albany Water Board and Albany Municipal Water Finance Authority's Cash Flows and other combined Financial Information for the one month and year to date period ending March 31, 2017. The detailed report is attached.

Key Performance Indicators and Critical Numbers Dashboard: Commissioner Coffey presented a report detailing the Key Performance Indicators and Critical numbers, noting that for the first quarter of 2017, the department's overtime is below budget. He further highlighted that for the first time since 2014 the Alcove Reservoir is at spillway level, and has been for over 20 consecutive days.

Deputy Commissioner Simcoe presented updates on the Long Term Control Plan that included closing dates on financing in the amount of \$6.8 million and \$4.8 million, respectively. The Elberon Place CSO Abatement and Flood Mitigation project construction is set to begin in late May, with Rifenburg Construction. This is a large scale project so the goal is to work with the neighborhood to minimize inconveniences associated with construction to the neighborhood. Public outreach is a priority and communication plans are in place to inform and address any concerns.

Upper Washington Corridor Project: An amendment to the contract with CHA, which includes required EFC language for construction projects was discussed. This will now be a Water Board project, rather than a project with contracting by NYSOGS.

Feura Bush Filtration Plant: Building renovations to the roof/ masonry on the lab building and garage have been awarded to Ganem Construction, and work has begun.

Tivoli Lake Preserve Daylighting Project: SEQRA and SHPO must be submitted by June. A map of the project impact is attached.

Consultant Engineer's Report: Kevin Hogan P.E. presented the ARCADIS monthly Engineering Report, which details the upcoming project dates and deadlines for the Long Term Control Plan and Arcadis projects. Report attached.

Old Business

Lincoln Park Pool Assessment: Five proposals were received for this project by the City Engineer. A recommendation will be made soon, with work to begin in late May, and final report delivered in August. The pool will be open this summer.

New Business/ Resolutions

Resolution 17-20: Authorizing the Chairman to execute an Addendum to the September 30, 2015 Contract with the Albany Pool Joint Venture Team for: Beaver Creek (Big C) Disinfection and Floatables Control Facility for Data Collection, Public Outreach and Education, Final Engineering Report, including 30% concept design development in accordance with the Joint Venture Team Proposal dated April, 2017 was offered by Mr. Houghton and seconded by Mr. Owens. Resolution passed unanimously.

Resolution 17-21: Authorizing the execution of a Task Order to the Master Services Agreement with CHA Consulting, Inc., for Permitting, Design, Bid & Construction Phase work for the Floatables Project under the Long term Control Plan was offered by Mr. Houghton and seconded by Mr. Ranellone. Resolution passed unanimously.

Resolution 17-22: Authorizing the Chairman to execute an amendment to the Upper Washington Ave. project contract with CHA Consulting, Inc., to include contract term language related to EFC Project Financing was offered by Mr. Houghton and seconded by Mr. Owens. Resolution passed unanimously.

Resolution 17-23: Authorizing the Chairman to execute an amendment to the Tivoli Lakes/ Patroon Creek Daylighting project contract with CHA Consulting, Inc., to include contract term language related to EFC Project Financing was offered by Mr. Houghton and seconded by Mr. Ranellone. Resolution passed unanimously.

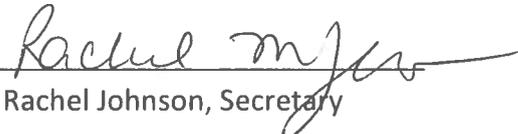
Executive Session

Executive Session took place regarding the Alcove Watershed, Nature Conservancy- Working Woodlands and Carbon Development/ Marketing Agreement- No actions were taken during Executive Session.

Chairman William Clay informed all those in attendance that the next Meeting of the AWB will be **Friday, May 25, 2017** at 9:30 AM in the AWB Conference Room.

Being no further business, Chairman Clay called for a motion to adjourn the meeting. A motion was made by Mr. Houghton, seconded by Mr. Ranellone and passed unanimously. The meeting was adjourned at 11:25 AM.

Recorded by: Elizabeth Romand

Approved by: 
Rachel Johnson, Secretary



Hugh
Johnson
Advisors, LLC

As of April 25, 2017

<u>Albany Water Board</u>	<u>Account No.</u>	<u>Market Value</u>	<u>Yield</u>	<u>Maturity</u>
M&T Bank - Board Expense	8891631650	20,299		
M&T Bank - Lock-Box	8891631536	1,672,429		
Operating & Maintenance Trust Acct	8891631668	391,735		
Fidelity Excess Funds	676-196705	6,600,726	1.10%	06/19/18
Fidelity On-Going Projects	676-202885	11,147,083	1.21%	10/14/18
Chase On-Going Projects	573-8029988	1,032,253		* Approx. Balance
Total		20,864,524		

<u>Albany Municipal Water Finance Authority</u>	<u>Account No.</u>	<u>Market Value</u>		
M&T Bank - Authority Expense	8891632161	1,390,064		* Large Deposit
Series 2011A Debt Service Fund	1033343	1,506,943	0.69%	09/02/17

* Received \$1,352,354.71 on April 6, 2017.

Albany Water Board - Excess Funds

Fidelity Account No. 676-196705

as of 04/25/17

Issue Description	Coupon	Maturity	Par Amount	Market Price	Market Value	Purchase Yield	Percent
Money Market							
Cash	0.010%	04/26/17	2,906	100.00	2,905.96	0.01%	0.04%
Certificate of Deposits							
North Amern Savings Bk	0.850%	05/22/17	249,000	100.02	249,044.82	0.75%	3.77%
United Bankers Bank	1.000%	05/30/17	70,000	100.03	70,021.70	0.72%	1.06%
Flushing Bank	1.000%	06/19/17	100,000	100.02	100,024.00	0.75%	1.52%
BMW Bank	1.050%	06/26/17	245,000	100.05	245,117.60	0.81%	3.71%
Compass Bank	1.250%	09/11/17	245,000	100.16	245,389.55	1.37%	3.72%
Safra Natl Bank	0.850%	09/15/17	34,000	99.95	33,983.34	0.85%	0.51%
Capital One Bank NA	1.150%	10/02/17	210,000	100.15	210,312.90	1.25%	3.19%
AXP Centurion Bank	1.500%	11/28/17	245,000	100.34	245,823.20	1.30%	3.72%
BMO Harris Bank	1.250%	12/22/17	245,000	100.15	245,365.05	1.25%	3.72%
EverBank	1.000%	01/30/18	248,000	99.98	247,945.44	1.00%	3.76%
Discover Bank	1.150%	04/02/18	48,000	100.02	48,011.04	1.17%	0.73%
CIT Bank	1.850%	05/16/18	140,000	100.87	141,216.60	1.67%	2.14%
	1.180%	10/12/17	2,079,000	100.16	2,082,255.24	1.11%	31.55%
US Government							
FHLB Agency Note	4.875%	05/17/17	490,000	100.25	491,244.60	0.73%	7.44%
FFCB Agency Note	0.625%	05/22/17	677,000	99.99	676,905.22	0.74%	10.26%
FNMA Agency Note	2.050%	05/23/17	250,000	100.10	250,250.00	0.63%	3.79%
US Treasury	1.875%	09/30/17	250,000	100.40	250,995.00	1.06%	3.80%
US Treasury	1.000%	09/15/18	1,000,000	99.74	997,420.00	0.90%	15.11%
US Treasury	1.250%	12/15/18	500,000	100.07	500,370.00	1.30%	7.58%
US Treasury	1.000%	03/15/19	100,000	99.56	99,555.00	1.06%	1.51%
US Treasury	1.375%	12/15/19	500,000	100.01	500,060.00	1.57%	7.58%
US Treasury	1.625%	07/31/20	150,000	100.34	150,516.00	1.54%	2.28%
US Treasury	1.625%	11/30/20	500,000	100.12	500,585.00	1.74%	7.58%
US Treasury	1.125%	06/30/21	100,000	97.66	97,664.00	1.25%	1.48%
	1.634%	10/12/18	4,517,000	99.97	4,515,564.82	1.10%	68.41%
Totals	1.490%	06/19/18	6,598,906	100.03	6,600,726.02	1.10%	100.00%

Albany Water Board - On Going Projects Reserves

Fidelity Account No. 676-202885

as of 04/25/17

<u>Issue Description</u>	<u>Coupon</u>	<u>Maturity</u>	<u>Par Amount</u>	<u>Market Price</u>	<u>Market Value</u>	<u>Purchase Yield</u>	<u>Percent</u>
<u>Money Market</u>							
Money Market FCASH	0.010%	04/26/17	15,950	100.00	15,949.81	0.01%	0.14%
<u>Certificate of Deposits</u>							
Barclays Bank	1.100%	05/08/17	190,000	100.02	190,032.30	1.30%	1.70%
Barclays Bank	1.100%	05/15/17	55,000	100.03	55,013.75	1.10%	0.49%
Synchrony Bank	1.750%	05/18/17	220,000	100.07	220,154.00	0.75%	1.97%
Comenity Capital Bank	1.150%	05/25/17	249,000	100.04	249,102.09	0.92%	2.23%
Safra Natl Bank	0.600%	07/17/17	136,000	99.96	135,941.52	0.88%	1.22%
Investors Bank	0.650%	07/21/17	249,000	99.99	248,975.10	0.78%	2.23%
First Citrus Bank	1.000%	07/24/17	245,000	100.05	245,132.30	0.92%	2.20%
People's United Bank	0.700%	07/25/17	245,000	99.98	244,941.20	0.75%	2.20%
Zb NA	0.750%	08/25/17	237,000	99.94	236,853.06	0.75%	2.12%
Bank North Carolina	1.150%	08/28/17	245,000	100.13	245,323.40	0.87%	2.20%
World Finl Capital Bank	1.050%	09/21/17	189,000	100.08	189,158.76	0.88%	1.70%
Cardinal Bank	1.050%	09/22/17	146,000	100.14	146,207.32	0.91%	1.31%
Medallion Bank	1.200%	09/25/17	245,000	100.15	245,355.25	0.95%	2.20%
Beal Bank USA	0.750%	09/27/17	249,000	99.94	248,848.11	0.83%	2.23%
Key Bank	1.150%	10/02/17	248,000	100.15	248,379.44	0.94%	2.23%
Discover Bank	1.500%	10/03/17	200,000	100.40	200,798.00	0.85%	1.80%
American Express FSB	1.450%	10/30/17	245,000	100.29	245,710.50	1.60%	2.20%
Dollar Bank FSB	1.200%	11/17/17	140,000	100.17	140,240.80	0.93%	1.26%
Sallie Mae Bank	1.400%	12/18/17	100,000	100.41	100,414.00	1.53%	0.90%
Third Fed Savings & Loan	1.350%	02/22/18	225,000	100.24	225,531.00	0.86%	2.02%
Wells Fargo Bank	1.100%	03/01/18	248,000	100.02	248,054.56	1.10%	2.23%
Capital Bank	1.000%	04/30/18	195,000	100.13	195,243.75	1.05%	1.75%
Ally Bank	1.550%	01/14/19	45,000	100.20	45,091.35	1.68%	0.40%
Capital One Bank USA	1.550%	01/25/19	160,000	100.19	160,299.20	1.55%	1.44%
NBT Bank	1.800%	06/06/19	248,000	100.89	250,202.24	1.62%	2.24%
Goldman Sachs Bk USA	<u>2.100%</u>	<u>01/21/20</u>	<u>71,000</u>	<u>101.00</u>	<u>71,707.87</u>	<u>2.15%</u>	<u>0.64%</u>
	1.160%	11/22/17	5,025,000	100.15	5,032,710.87	1.03%	45.15%

<u>Issue Description</u>	<u>Coupon</u>	<u>Maturity</u>	<u>Par Amount</u>	<u>Market Price</u>	<u>Market Value</u>	<u>Purchase Yield</u>	<u>Percent</u>
<u>US Government</u>							
US Treasury	0.500%	04/30/17	245,000	100.00	244,997.55	0.60%	2.20%
FFCB Agency Note	0.625%	05/22/17	414,000	99.99	413,942.04	0.74%	3.71%
FNMA Agency Note	2.050%	05/23/17	1,000,000	100.10	1,001,000.00	0.88%	8.98%
FNMA Agency Note	5.375%	06/12/17	275,000	100.59	276,625.25	0.85%	2.48%
US Treasury	1.000%	09/15/18	500,000	99.74	498,710.00	0.90%	4.47%
US Treasury	1.500%	01/31/19	1,000,000	100.48	1,004,770.00	1.40%	9.01%
US Treasury	1.000%	03/15/19	100,000	99.56	99,555.00	1.06%	0.89%
US Treasury	1.375%	12/15/19	500,000	100.01	500,060.00	1.61%	4.49%
US Treasury	1.750%	10/31/20	1,000,000	100.60	1,006,020.00	1.81%	9.02%
US Treasury	1.125%	06/30/21	50,000	97.66	48,832.00	1.25%	0.44%
US Treasury	<u>2.000%</u>	<u>11/30/22</u>	<u>1,000,000</u>	<u>100.39</u>	<u>1,003,910.00</u>	<u>2.12%</u>	<u>9.01%</u>
	1.728%	07/11/19	6,084,000	100.24	6,098,421.84	1.37%	54.71%
Totals	1.469%	10/14/18	11,124,950		11,147,082.52	1.21%	100.00%

Albany Water Authority

M&T Bank #1033343

as of 03/31/17

<u>Issue Description</u>	<u>Coupon</u>	<u>Maturity</u>	<u>Par Amount</u>	<u>Market Price</u>	<u>Market Value</u>	<u>Purchase Yield</u>	<u>Percent</u>
<u>Money Market</u>							
Treasury Money Market	0.040%	04/01/17	8,826	100.00	8,826.16	0.04%	0.59%
<u>US Government</u>							
FHLB Discount Note	0.000%	07/14/17	499,000	100.00	497,897.21	0.62%	33.04%
FHLMC Agency Note	1.000%	09/29/17	1,000,000	100.02	1,000,220.00	0.73%	66.37%
Totals	0.664%	09/02/17	1,507,826		1,506,943.37	0.69%	100.00%

MEMORANDUM

TO: Members of the Albany Water Board and Members of the Albany Municipal Water Finance Authority

FROM: Chris Quirk, Chief Fiscal Officer

RE: **COMBINED STATEMENTS OF CASH FLOWS AND OTHER COMBINED FINANCIAL INFORMATION OF THE ALBANY WATER BOARD AND THE ALBANY MUNICIPAL WATER FINANCE AUTHORITY FOR THE ONE MONTH PERIOD ENDED MARCH 2017**

DATE: April 28, 2017

The following is a discussion of certain highlights and other significant operating matters:

Water/Sewer Revenue Annual Budget - \$39,200,000; Annual Budget Net of Rollover

Actual revenue collections for the month of March 2017 were \$3,057,353 an amount 14% higher than net monthly budget of \$2,688,093. This amount is \$264,846 lower than March 31, 2016.

Investment Income Annual Budget - \$400,000 PAGE 2

As of March 31, 2017 year-to-date investment income was \$47,370 compared to investment income of \$36,972 as of March 31, 2016.

Operating Expenses Annual Budget - \$31,317,746 PAGE 3

Year-to-date operating expenses (excluding capital and debt service expenses) are approximately \$3,616,885 which is \$371,483 or 11.4% higher than 2016, and \$1,124,627 or 22% under adjusted budgeted amounts as of March 31, 2017. Expenses increase is due to \$93,879 in higher personnel services, \$171,863 in higher equipment purchases, \$61,972 in contractual services and \$45,134 in higher benefit costs.

The personnel services category is 19% under budget. Overtime expense is 1.7% under budget.

Capital Project Costs Annual Budget - \$3,000,000 PAGE 4

Approximately \$100,066 in capital project costs was expended through March 31, 2017.

Cash Flow after Cap Ex and Debt Service- \$3,457,779 thru March 31, 2017

Due from the City Of Albany- \$10,627,757 at March 31, 2017

Route Seven Accounts Receivable- \$1,254,503 at March 31, 2017

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ALBANY WATER BOARD
ALBANY MUNICIPAL WATER FINANCE AUTHORITY
STATEMENTS OF CASH FLOWS
March 31, 2017

	One Month Period Ended		Year-To-Date Periods Ended		Percent Variance	Variance	Percent Variance
	2017	2016	2017	2016			
Revenues							
Water/sewer revenue	3,057,353	\$ 3,322,199	8,633,774	\$ 8,859,444	-8.0%	\$ (225,670)	-2.5%
Investment income	28,030	18,924	47,370	36,972	48.1%	10,398	28.1%
Total revenues	3,085,383	3,341,123	8,681,144	8,896,416	-7.7%	(215,272)	-2.4%
Operating expenses							
Operation/maintenance costs	1,453,350	1,311,411	3,616,885	3,245,402	10.8%	371,483	11.4%
Board/Authority expenses	11,841	8,331	28,642	17,877	42.1%	10,765	60.2%
Total expenses	1,465,191	1,319,742	3,645,527	3,263,279	11.0%	382,248	11.7%
Net operating cash flows before debt service and capital project costs	1,620,192	2,021,381	5,035,617	5,633,137	-19.8%	(597,520)	-10.6%
Debt service costs	(497,850)	(561,580)	(1,493,550)	(1,684,740)	-11.3%	191,190	-11.3%
Capital project costs	(94,117)	(423,060)	(100,066)	(423,060)	0.0%	322,994	0.0%
Grant income			15,778				
Net cash flow (deficiency)	\$ 1,028,225	\$ 1,036,741	\$ 3,457,779	\$ 3,525,337	-0.8%	\$ (67,558)	-1.9%

**ALBANY WATER BOARD
ALBANY MUNICIPAL WATER FINANCE AUTHORITY
SCHEDULE OF REVENUES
March 31, 2017**

	2017		2017 Actual	2016		2016 Actual	2016		Variance Favorable (Unfavorable)	Variance %
	Budget	Actual		Budget	Actual					
Water and sewer revenue										
March	\$ 2,688,093	\$ 3,057,353	\$ 369,260	\$ 2,280,621	\$ 3,322,199	\$ 1,041,578			46%	
Year-to-Date	\$ 8,759,740	\$ 8,633,774	\$ (125,966)	\$ 7,859,008	\$ 8,859,444	\$ 1,000,436			13%	
Investment income										
March	\$ 33,333	\$ 28,030	\$ (5,303)	\$ 16,667	\$ 18,924	\$ 2,257			14%	
Year-to-Date	\$ 99,999	\$ 47,370	\$ (52,629)	\$ 50,000	\$ 36,972	\$ (13,028)			-26%	

Additional Cash Receipts

Meter Recovery Fees			
March	\$ -		
Year-to-Date	\$ -	\$ -	
Sales of Scrap			
March	\$ -	\$ -	
Year-to-Date	\$ -	\$ 680	
Insurance Recoveries			
March	\$ -	\$ -	
Year-to-Date	\$ -	\$ -	
Miscellaneous Income			
March	\$ -	\$ 2,406	
Year-to-Date	\$ -	\$ 7,166	

Note: The revenue budgets reflect forecasted revenue collections of \$39,290,000 and \$37,000,000 for 2017 and 2016, respectively.

ALBANY WATER BOARD
ALBANY MUNICIPAL WATER AUTHORITY
SCHEDULE OF OPERATING EXPENSES
March 31, 2017

	YEAR-TO-DATE MARCH 2017				2016 YTD ACTUAL
	2017 ANNUAL ADJUSTED BUDGET	ADJUSTED BUDGET	ACTUAL	(OVER)/ UNDER	
Administration					
Personnel services	1,390,223	347,556	278,240	\$ 69,316	236,514
Equipment	11,000	-	-	0	-
Contractual and other expenses	212,462	1,846	27,764	(25,918)	43,577
Benefits	479,122	119,781	68,978	50,803	63,430
	2,092,807	469,182	374,982	94,200	343,521
Supply, Power and Pumping					
Personnel services	942,035	235,509	165,886	69,623	156,084
Equipment	36,000	-	4,948	0	-
Contractual and other expenses	135,844	6,041	16,234	(10,193)	5,818
Benefits	199,600	49,900	63,158	(13,258)	56,065
	1,313,479	291,450	250,226	46,172	217,967
Purification					
Personnel services	1,347,227	336,807	245,202	91,605	247,550
Equipment	207,000	40,000	13,446	0	2,662
Contractual and other expenses	1,357,466	19,873	106,627	(86,754)	62,297
Benefits	443,073	110,768	80,437	30,331	79,799
	3,354,766	507,448	445,712	35,182	392,308
Transmission/Distribution					
Personnel services	2,727,920	681,980	598,699	83,281	613,307
Equipment	795,000	310,334	156,131	0	-
Contractual and other expenses	2,302,939	133,401	111,405	21,996	113,005
Benefits	941,946	235,487	216,821	18,666	218,338
	6,767,805	1,361,202	1,083,056	123,943	944,650
Sewer Services					
Personnel services	907,425	226,856	181,585	45,271	141,044
Equipment	257,000	-	-	0	-
Contractual and other expenses	1,882,312	43,125	36,763	6,362	9,873
Benefits	202,518	50,630	70,142	(19,513)	45,080
	3,249,255	320,610	288,490	32,120	195,997
Pumping Stations					
Personnel services	150,790	37,698	36,308	1,390	17,542
Equipment	30,000	9,267	-	9,267	-
Contractual and other expenses	417,765	5,034	16,192	(11,158)	18,443
Benefits	72,035	18,009	14,581	3,428	6,271
	670,590	70,007	67,081	2,926	42,256
Taxes Paid to Municipalities					
	2,196,853	624,000	565,784	58,216	558,282
County Sewer Contract					
	6,578,505	-	-	-	-
Contingencies, Insurance and Other					
	5,093,686	1,273,422	541,554	731,868	550,421
TOTALS	\$ 31,317,746	\$ 4,917,321	\$ 3,616,885	\$ 1,124,627	\$ 3,245,402

EXPENSE SUMMARY:

	2017	2016	Change
Personal Services	1,505,920	1,412,041	93,879
Equipment	174,525	2,662	171,863
Contractual and other expenses	314,985	253,013	61,972
Benefits	514,117	468,983	45,134
Other	1,107,338	1,108,703	(1,365)
	3,616,885	3,245,402	371,483

Percent Increase/Decrease over 2016	11.4%
Percent under Budget	-22.87%
Personal Services under Budget	-19%

ALBANY WATER BOARD
ALBANY MUNICIPAL WATER AUTHORITY
SCHEDULE OF CAPITAL PROJECT COSTS
March 31, 2017

Actual Expenditures to Date

1995	\$	3,459,286
1996		3,148,713
1997		2,977,569
1998		2,059,812
1999		2,696,065
2000		1,771,829
2001		2,437,338
2002		3,384,049
2003		3,845,848
2004		5,673,522
2005		2,389,244
2006		1,575,740
2007		459,599
2008		1,230,331
2009		1,807,010
2010		1,108,164
2011		734,443
2012		2,266,553
2013		2,059,475
2014		1,832,084
2015		2,076,594
2016		8,403,230
2017		100,066
	\$	<u>57,396,497</u>

Comparative Expenditures

[----- 2016 -----]		2017	
January	\$ -	January	\$ -
February		February	5,949
March	423,060	March	94,117
April	72,924	April	-
May	94,213	May	-
June	329,510	June	-
July	115,872	July	
August	253,453	August	
September	1,383,307	September	
October	427,592	October	
November	353,823	November	
December	4,949,476	December	
	\$ <u>8,403,230</u>		\$ <u>100,066</u>

	Budget 3/31/2017 YTD	Actual 3/31/2017 YTD	Budget Difference (over)/under	Actual 3/31/2016 YTD	Actual Difference (over)/under
OVERTIME					
<i>Supply, Power and Pumping</i>	\$ 23,750	\$ 15,124	\$ 8,626	\$ 23,877	\$ 8,753
<i>Purification</i>	\$ 33,750	\$ 19,945	\$ 13,805	\$ 33,590	\$ 13,645
<i>Transmission/Distribution</i>	\$ 75,000	\$ 90,470	\$ (15,470)	\$ 96,699	\$ 6,229
<i>Sewer Services</i>	\$ 10,000	\$ 15,890	\$ (5,890)	\$ 13,605	\$ (2,285)
<i>Pumping Stations</i>	\$ 2,500	\$ 1,128	\$ 1,372	\$ 282	\$ (846)
TOTAL	\$ 145,000	\$ 142,557	\$ 2,443	\$ 168,053	\$ 25,496
Percentage			1.68%		15.2%
DUE FROM THE CITY OF ALBANY		3/31/2017			
	\$ <u>10,627,757</u>				
Rt 7 ACCOUNTS RECIEVABLE	\$ <u>1,254,503</u>				

Utility Billing

Aging Report



User: cquirk
 Printed: 04/24/2017 - 9:55 AM
 Service List: WATER,SEWER,DEMAND,VACANT,MISC,PEN,GUIL
 D,WC
 Aging Date: 03/31/2017
 Billing Cycle: 007
 Balance Limits: All accounts
 Date Type: JE
 Account Status: Active
 Minimum Balance: 0.00
 Minimum Aged Bal: 0.00
 Sort Order: Customer Number

Account	Acct Status	Bal Fwd	Bal Under 30	Bal 30 to 60	Bal 60 to 90	Bal 90 to 120	Bal Over 120
003345-000	Active	(712.72)	0.00	0.00	0.00	0.00	0.00
TIMES UNION CENTER							
005375-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
AFP107 CORP. D/B/A HILTON ALBANY							
005491-000	Active	2,194.74	2,194.74	0.00	0.00	0.00	0.00
VERIZON							
005492-000	Active	1,404.42	1,404.42	0.00	0.00	0.00	0.00
VERIZON							
005679-000	Active	31,728.54	4,533.66	4,667.16	4,672.16	4,982.22	12,873.34
99 WASHINGTON LLC							
008140-000	Active	1,110.72	1,110.72	0.00	0.00	0.00	0.00
ALBANY HOUSING AUTHORITY							
008141-000	Active	5,703.12	5,703.12	0.00	0.00	0.00	0.00
ALBANY HOUSING AUTHORITY							
010922-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ALBANY MEMORIAL HOSP. 3226-4017							
011611-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
CENTRAL TOWERS PRESERVATION LT							
016257-000	Active	2,034.42	2,034.42	0.00	0.00	0.00	0.00
TMG-ALBANY I LP							
016566-000	Active	(1,494.86)	0.00	0.00	0.00	0.00	0.00
SAYVILLE BROWNING PROPERTIES INC							

Account	Acct Status	Bal Fwd	Bal Under 30	Bal 30 to 60	Bal 60 to 90	Bal 90 to 120	Bal Over 120
016733-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
VETERANS HOSPITAL ADMIN							
016836-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
DEPT OF HEALTH							
016856-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ALBANY MEDICAL CENTER							
016858-000	Active	26,042.04	26,042.04	0.00	0.00	0.00	0.00
ALBANY MEDICAL CENTER							
016862-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
THE PEOPLE OF THE STATE OF							
016863-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
NYS OFF OF MENTAL HEALTH 50980							
020795-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
020796-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
020797-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
020798-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
026348-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
TERESIAN HOUSE							
026349-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
TERESIAN HOUSE							
027009-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							
027055-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ULTR PET, LLC							
031582-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
CSX TRANSPORTATION-48534							
031586-000	Active	141,750.00	141,750.00	0.00	0.00	0.00	0.00
TOWN OF BETHLEHEM							
031587-000	Active	321,037.02	245,697.12	75,339.90	0.00	0.00	0.00
SUNY-ALBANY							
031589-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							
031595-000	Active	(72.77)	0.00	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							
031597-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							

Account	Acct Status	Bal Fwd	Bal Under 30	Bal 30 to 60	Bal 60 to 90	Bal 90 to 120	Bal Over 120
031598-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
OFFICE OF GENERAL SERVICES							
031599-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							
031600-000	Active	1,244.60	1,244.60	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							
031601-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
NYS OFFICE OF GENERAL SERVICES							
031633-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
BUCKEYE ALBANY TERMINAL, LLC							
031819-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
031832-000	Active	1,639.42	1,089.36	550.06	0.00	0.00	0.00
VETERANS HOSPITAL ADMIN							
031833-000	Active	2,894.28	2,509.80	384.48	0.00	0.00	0.00
VETERANS HOSPITAL ADMIN							
031834-000	Active	1,324.32	1,324.32	0.00	0.00	0.00	0.00
VETERANS HOSPITAL ADMIN							
031835-000	Active	4,672.10	4,672.10	0.00	0.00	0.00	0.00
VETERANS HOSPITAL ADMIN							
032043-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
032044-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETERS HOSPITAL							
032215-000	Active	702,879.97	373,434.48	329,445.49	0.00	0.00	0.00
SUNY-ALBANY NANO							
032240-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETER'S HOSPITAL							
032241-000	Active	0.00	0.00	0.00	0.00	0.00	0.00
ST PETER'S HOSPITAL							
032274-000	Active	4,368.08	143.12	354.58	44.86	177.28	3,648.24
ROGER MARTEL							
032455-000	Active	4,476.25	4,476.25	0.00	0.00	0.00	0.00
TMG-ALBANY 1 LP							
032492-000	Active	279.28	69.82	69.82	69.82	69.82	0.00
ST PETERS HOSPITAL							

Account	Acct Status	Bal Fwd	Bal Under 30	Bal 30 to 60	Bal 60 to 90	Bal 90 to 120	Bal Over 120
Cycle: 007	Aged Totals	1,256,783.32	819,434.09	410,811.49	4,786.84	5,229.32	16,521.58
	Credit Totals	-2,280.35					
	Totals	<u>1,254,502.97</u>					
Report Totals:	Aged Grand Totals	1,256,783.32					
	Credit Grand Totals	-2,280.35					
	Grand Totals	<u>1,254,502.97</u>	<u>819,434.09</u>	<u>410,811.49</u>	<u>4,786.84</u>	<u>5,229.32</u>	<u>16,521.58</u>

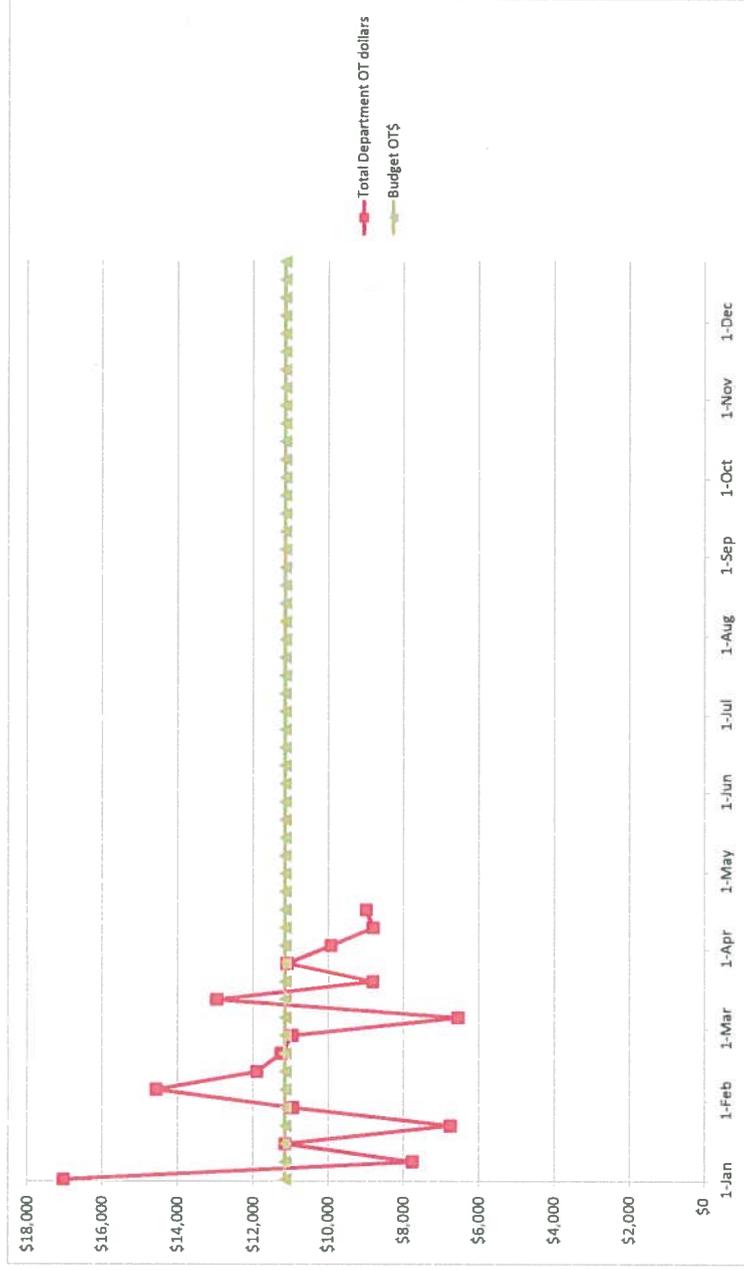
Department of Water and Water Supply - 2017 Key Performance Indicators and Critical Numbers Dashboard

Parameter	Annual Goal or YTD												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
Injury Reports (New)	3	10	2										15
Total Reports Submitted	2	8	1										11
Total resulting in Medical Treatment	0	5	1										6
Total resulting in Time Loss	0	43	4										47
Lost Work Days (Injuries)	7	5	9										21
Water Main Breaks * 48-inch, ** 36-inch transmission line	0	4	2										6
Sewer Repairs includes storm sewer repairs	0	8	2										10
Valves Repair/Replaced	3	7	4										14
MH Repairs	1	0	1										2
Hydrant Replacements/Installs	0	0	0										0
Hydrant Repairs	1	2	0										3
Service Terminations	4	5	4										13
Service Repairs	12	5	8										25
Basin Repairs	0	0	0										0
Frozen Service	0	0	0										0
Curb Box and Rod replaced	5	5	2										12
Valve Box replaced	2	0	0										2
Install Valve	22490	12586	21416										56492
Sewer PM	984	0	550										1534
LF Camera Inspected	108	74	58										240
Leak Detection	5	1	2										8
Blocks Tested													
Leaks Detected													
Orions Installed													
Goal	62	78	123										263
Actual YTD													

well over goal
at goal
caution
unacceptable - corrective action required

week budget OT\$ weekly OT\$

1-Jan	\$11,154	\$17,041
8-Jan	\$11,154	\$7,762
15-Jan	\$11,154	\$11,149
22-Jan	\$11,154	\$6,758
29-Jan	\$11,154	\$10,953
5-Feb	\$11,154	\$14,565
12-Feb	\$11,154	\$11,908
19-Feb	\$11,154	\$11,251
26-Feb	\$11,154	\$10,962
5-Mar	\$11,154	\$6,550
12-Mar	\$11,154	\$12,964
19-Mar	\$11,154	\$8,816
26-Mar	\$11,154	\$11,096
2-Apr	\$11,154	\$9,935
9-Apr	\$11,154	\$8,807
16-Apr	\$11,154	\$8,993
23-Apr	\$11,154	
30-Apr	\$11,154	
7-May	\$11,154	
14-May	\$11,154	
21-May	\$11,154	
28-May	\$11,154	
4-Jun	\$11,154	
11-Jun	\$11,154	
18-Jun	\$11,154	
25-Jun	\$11,154	
2-Jul	\$11,154	
9-Jul	\$11,154	
16-Jul	\$11,154	
23-Jul	\$11,154	
30-Jul	\$11,154	
6-Aug	\$11,154	
13-Aug	\$11,154	
20-Aug	\$11,154	
27-Aug	\$11,154	
3-Sep	\$11,154	
10-Sep	\$11,154	
17-Sep	\$11,154	
24-Sep	\$11,154	
1-Oct	\$11,154	
8-Oct	\$11,154	
15-Oct	\$11,154	
22-Oct	\$11,154	
29-Oct	\$11,154	
5-Nov	\$11,154	
12-Nov	\$11,154	
19-Nov	\$11,154	
26-Nov	\$11,154	
3-Dec	\$11,154	
10-Dec	\$11,154	
17-Dec	\$11,154	
24-Dec	\$11,154	





Original Submittal: April 11, 2017

Revision No. 1: April 20, 2017

Mr. Joseph E. Coffey, Jr., P.E.
Commissioner
Department of Water & Water Supply
10 North Enterprise Drive
Albany, NY 12204

Attn: Mr. William Simcoe, P.E.

**Subject: Beaver Creek (Big C) Disinfection and Floatables Control Facility
Proposal for the Public Education and Outreach Program and Final Engineering Report**

Dear Mr. Coffey:

The Albany Pool Joint Venture Team (APJVT), which is comprised of ARCADIS of New York, Inc., CDM Smith, and CHA Consulting, Inc., is pleased to present this proposal to the Albany Water Board (AWB) for professional services related to facilitating the public outreach and regulatory review process necessary for advancing the Beaver Creek (Big C) Disinfection and Floatables Control Project. The APJVT previously completed technology alternatives analysis necessary for program definition of key project elements for the screening and disinfection of combined sewer flows; and identified and evaluated potential sites for the facility. The findings of this work were presented a Preliminary Engineering Report (PER) which was submitted to the New York State Department of Environmental Conservation (DEC) on August 1, 2016 and subsequently approved.

Based on preliminary discussions with the AWB and City leadership, the Lincoln Park site is the preferred location for the facilities. As such, tasks performed under this assignment will specifically advance design components and discussions for the Lincoln Park site; and advancement of the Broadway site will not be included in this scope of work. The APJVT will perform additional data collection, modeling, environmental permitting and SHPO coordination in support of the advancement of design plans, specifications and cost estimating tasks. The findings of this work will be presented in engineering drawings and site renderings; and an updated or supplemental Final Engineering Report will be prepared for submittal to the DEC to solicit comments and approval prior the preparation of the preliminary and final design documents.

This phase of the project will focus on the development of a robust public education and outreach program in order to identify and provide for mitigation of any potential economic, environmental or social impacts; as well as build the foundation for broad based community consensus of the project. Furthermore, the design of the screening and disinfection facilities will be advanced for presentation and ongoing negotiations with the DEC. This work will culminate in the delivery of advanced 30% concept plans, as well as updating the Preliminary Engineering Report in a format suitable for EFC financing and potential grant opportunities. It is anticipated that completion of this task assignment will advance the design concept within Lincoln Park to the level where agreement of the design criteria and final siting for the screening and disinfection facilities can be reached with the DEC.

Scope of Services

Task 1 - Project Management & Coordination

The APJVT will provide project management services, inclusive of: periodic progress meetings with the AWB, City leadership and APC's; development of a Health and Safety Plan (HASP); project invoicing; grant and/or financing support documentation; subcontracting with M/WBE firms to meet EFC financing requirements; and development of a Project Specific Quality Assurance and Quality Control (QA/QC) Plan.

Task 2 - Data Collection

- Topographic Survey: The APJVT will utilize a combination of available LiDAR data and a field topographical survey to prepare base mapping in the vicinity of the proposed facilities. The base mapping will illustrate, site features, contours, spot elevations and location of underground utilities within the area of work. Base mapping will be prepared for approximately 18.5 acres within Lincoln Park as required for the advancement of the screening and disinfection facility, as well as the potential realignment of the park's internal roadway system and miscellaneous site improvements.
- Phase 1A Cultural Resource Survey: The project will require SHPO review, along with additional DEC review and approval. Given the sites proximity in the City's historic district, a Phase 1A Cultural Resources Survey – literature, map review and sensitivity assessment will be completed to identify any potential impacts or issues which could influence the design and/or construction activities.
- Traffic Investigations: Traffic counts will be performed along the impacted roadway within Lincoln Park. These counts will be utilized to assess the level of impacts during construction, as well as provide a basis for the design of any necessary roadway improvements.
- Geotechnical Investigations: The APJVT previously installed four borings within Lincoln Park to establish a baseline characterization of subsurface conditions. As part of this work, additional borings will be advanced in the area of the proposed subsurface structures and rock bored tunnel.

The APJVT will subcontract a qualified boring contractor to drill seven (7) borings in the vicinity of the proposed sewer line route, screening facility, and control room and tank area. The borings will generally be advanced to elevations corresponding to 10 feet below the lowest point of the proposed sewer and buildings. Three (3) borings will be drilled to depths of 75 feet, three (3) borings will be advanced to depths of 70 feet, and one (1) boring will be advanced to a depth of 60 feet. Groundwater observation wells will be installed within the two (2) borings nearest the proposed building structures. The driller will perform HQ-sized coring at the four (4) micro-tunnel boring locations and install 3-inch PVC casing to facilitate the geophysical survey. Split-spoon sampling and standard penetration testing will be performed within all borings. Bedrock will be core sampled to achieve boring termination depths. Boreholes will be backfilled with soil cuttings, and supplemented with grout, where needed.

The APJVT will subcontract laboratory testing on select soil and rock core samples. Laboratory testing of soil will consist of gradation with sieve and hydrometer, and moisture content. Laboratory testing for rock will consist of unit weight, porosity, and specific gravity, uniaxial compressive

strength, splitting tensile test, CERCHAR abrasivity index, axial point load index, and petrographic analysis.

Findings will be presented in a geotechnical report for the proposed screening facility and contact tank, summarizing the subsurface exploration that includes the following items:

- A brief description of the proposed project
 - A description of the subsurface exploration
 - A description of the in situ subsurface and geologic conditions including groundwater observations
 - Subsurface logs and a subsurface exploration location plan
 - Laboratory Test Results
 - Geotechnical recommendations for the design and construction of foundations and floor slabs for the proposed Screening Facility and Control Room and Tank Area, including allowable bearing capacity and anticipated total and differential settlement of shallow foundations, if applicable;
 - Recommendations for lateral earth pressure parameters for use in design of temporary excavation support walls and permanent retaining walls
 - Recommendations for permanent control of groundwater
- **Beaver Creek Sewer Mapping:** The Beaver Creek Sewer through Lincoln Park is currently being investigated by APJVT members through a subcontract to RedZone Robotics. During this assessment, a laser scan of the access manholes and sewer will be performed to provide a three-dimensional point cloud of the buried infrastructure. The APJVT will utilize this data in conjunction with the topographical survey to develop final base mapping which will define the location and elevation of the Beaver Creek Sewer for design purposes.

Task 3 - Public Outreach & Participation Program

The APJVT will support the public outreach and participation program developed to facilitate public participation and involvement throughout the development of the project. In general, the goals and objections of the plan are as follows:

- Provide the AWB and City leadership with a better sense of public perspective on the project and issues that affect their community.
- Establish early communication with the affected public; including a wide array of key stakeholders, interested organizations as well as regulatory agencies.
- Solicit the opinions and address issues and concerns from the affected public, stakeholders, and interested parties during the development of the project.
- Make the technical aspects of the project clear and understandable to the lay public.
- Build awareness of the issues associated with the project; while gaining broad support for the project by involving the public throughout the development process.

As part of the public outreach efforts, the AWB plans to convene a Project Advisory Committee (PAC) in order to direct the development of the project, collect feedback on project status and findings, and provide input on issues deemed important to the public. Members of the PAC may entail City leadership and personnel, members of the neighborhood association(s), environmental and community groups, and other interested

parties. The APJVT will attend the following workshops and meetings which are anticipated throughout this phase of the project:

- Workshop 1: The first workshop will provide an overview of the project goals and objectives and demonstrate a need for the proposed improvements. Specifically, the APJVT will work collaboratively with the Department of Water & Water Supply to convey information which describes the existing combined sewer system (CSS) and Beaver Creek Sewershed; discuss current conditions and challenges; and review the conditions of the Order on Consent to reduce sanitary sewer overflows and water quality impacts to the Hudson River.
- Workshop 2: The second workshop will describe the required size and layout for the proposed disinfection and screening facilities. This workshop will also discuss community issues and/or concerns relative to the current operations of the CSS and proposed project.
- Workshop 3: The third workshop will present more advanced concepts in regards to the architectural detailing and site considerations (e.g., access roads, lighting, landscaping) for the facilities, along with project considerations to mitigate any community concerns.

In addition to the PAC workshops, the APJVT will attend up to three (3) additional public informational meetings to present the proposed project to the general public and other interested parties (i.e., neighborhood association, Thomas O'Brien Academy of Science and Technology (TOAST) administration and/or City meetings).

Task 4 – Supporting Engineering & Architectural Services

The APJVT will advance tasks related to the development of the facilities, and as needed to support the public education and outreach program and on-going negotiations with the DEC, for the Lincoln Park Site. Specifically, engineering and architectural tasks will advance the design concepts for the following project elements:

- Access shaft and flow control regulator to be constructed at confluence of the new rock bored tunnel with the existing Beaver Creek Sewer. The flow control regulator will be provided with communications to the screening and disinfection facility and emergency backup power;
- Rock bored tunnel to the screening and disinfection facilities likely utilizing micro tunneling techniques;
- Screening facilities consisting of trash racks, mechanical bar screens, screening washer compactor, screw conveyors, truck loading area, dry weather bypass channel, flow metering and odor control systems;
- Disinfection facilities consisting of sodium hypochlorite and sodium bisulfite chemical unloading area, bulk storage tanks, day tanks, chemical feed pumps, contact time tank, dry weather bypass channel and odor control systems;
- Rock bored tunnel to the existing Beaver Creek Sewer with connecting structure;
- Site improvements, including: Lincoln Park road relocation and improvements, site grading, landscape architecture and facility screening. This item will also address any needed improvements in the low-lying area where the existing CSS surcharges; and
- Building systems will include:
 - Security Systems including remote CCTV and intrusion alarms at doors and windows (if any);
 - Mechanical, Electrical, Plumbing and Fire Protection Systems.

In comments received from the DEC, dated October 6, 2016, the Department has requested that the SWMM model be updated to reflect the proposed benefits associated with the satellite screening and disinfection facility; and that the river water quality model be re-calibrated based upon the findings of the post construction compliance monitoring program. The SWMM models developed for the Albany Pool CSO LTCP will be used to predict hydraulic conditions in the Beaver Creek Sewer under a variety of dry and wet weather conditions. As part of this task assignment, these models will be updated, as necessary, and the results will be summarized for inclusion in the basis of design materials and presentation to the DEC. Furthermore, the SWMM model output will be used to develop a Visual Hydraulics model for sizing the flow regulator structure, rock tunnel, screening/disinfection facilities and bypass channel.

To assess potential odor control systems, the APJVT will collect representative air samples within the Beaver Creek Sewer to document baseline conditions. Technologies to be evaluated include; chemical scrubbers, biological filters and scrubbers, adsorption systems and dispersion fans. A dispersion analysis will be modeled to predict the potential zone of influence from various fan alternatives. An alternative analysis with life cycle costs will be presented in a stand-alone memorandum for review by the AWB. The selected alternative will be developed to the preliminary design level comparable to the other process equipment systems.

To define the rock tunnel installation requirements, the APJVT will analyze the geotechnical data, develop a 3D model of the stone arch sewer/rock tunnel interface, 2D model of the brick sewer/rock tunnel interface and develop recommendations for structure foundations and tunneling methods. A geotechnical baseline report will be developed to summarize the above activities and recommendations. The report will include tunnel alignment plans, profiles, preliminary specifications and estimates of cutting head wear rates based on the bedrock conditions. This portion of the design will be advanced beyond the preliminary design phase to pre-final design, or approximately 70%, due to the nature of the work with only final specifications and details being required for completion.

The APJVT will collect water quality samples from a drop structure on the Beaver Creek Sewer during up to three wet weather events to supplement the previously collected sample in June 2016. The samples will be analyzed for E. coli and Enterococci without chlorine and then at various chlorine doses to confirm the bacteria counts of the non-disinfected wet weather flow to determine the log inactivation required and corresponding disinfectant dose. This information coupled with the expected range of flows will drive the basis of design for the chemical feed systems.

The project is designated as a Type II category for actions required pursuant to an administrative enforcement order under SEQRA. Given the sites proximity in the City's historic district, a Phase 1A Cultural Resources Survey – literature, map review and sensitivity assessment will be performed. The project will involve coordination with NYS OPRHP and other involved agencies, along with obtaining support from the neighborhood association(s) and general public. The APJVT will work with the City to address any potential issues associated with involved regulatory agencies and/or any potential environmental justice issues.

A Final Engineering Report will include design criteria, materials of construction, permitting and building code requirements, geotechnical findings and recommendations, Project Manual Table of Contents and Drawing List. The 30% design will generally include the following preliminary design documents:

- Process Mechanical Design:
 - General sizing, layout and arrangement drawings;
 - Process flow diagram(s), and;
 - Hydraulic profile.
- Civil-Site Design:
 - Site, grading, utility and drainage plans;
 - Rock tunnel plan, profile and sections;
 - Roadway modifications plan, and;
 - Landscaping and screening conceptual plan.
- Structural Design:
 - Foundation plans and sections for all structures.
- Architectural Design:
 - Code compliance plan;
 - Floor plan layouts, and;
 - Above grade building elevations and sections.
- HVAC Design:
 - General sizing, layout and arrangement drawings.
- Fire Protection Design:
 - Fire protection system requirements.
- Electrical Design:
 - One line diagrams;
 - General sizing, layout and arrangement drawings.
- Instrumentation and Control Design:
 - System Architecture Diagram;
 - P&IDs.

A list of the anticipated drawings to be included in the 30% concept design submittal is as follows:

Sheet No.	Name	30% Plans
	General	
	Title Sheet	X
G-01	Index of Drawings	X
G-02	Symbols, Abbreviations and General Notes	
G-03	Process Flow Diagram	X
G-04	Hydraulic Profile	X
	Instrumentation	
	Legends, Symbols and General Notes	
I-01	System Architecture Diagram	X
I-02	Flow Control and Screening P&ID	X
I-03	Sodium Hypochlorite System P&ID	X
I-04	Sodium Bisulfite System P&ID	X
I-05	Odor Control System P&ID	X
I-06	Panel Layout 1	
I-07	Panel Layout 2	

Sheet No.	Name	30% Plans
I-08	Instrument Mounting Details 1	
I-09	Instrument Mounting Details 2	
I-10	Instrument Mounting Details 3	
Civil		
Symbols, Legends and General Notes		
C-01	Existing Site Plan	x
C-02	Key Plan	x
C-03	Site Plan 1	x
C-04	Site Plan 2	x
C-05	Site Plan 3	x
C-06	Site Plan 4	x
C-07	Erosion Control Plan	x
C-08	Erosion Control Notes and Details	
C-09	Diversion Chamber Excavation Plan	
C-10	Landscaping Plan	x
C-11	Site Details 1	
C-12	Site Details 2	
C-13	Site Details 3	
C-14	Traffic Control Plan	x
C-15	Traffic Control Details and Notes	
Tunnel		
T-01	Influent Tunnel Plan and Profile	x
T-02	Effluent Tunnel Plan and Profile	x
T-03	Tunnel Sections	x
T-04	Receiving Shafts Plan and Sections	x
Structural		
S-01	Structural Notes and Abbreviations	
S-02	Diversion Chamber Plans and Sections	x
S-03	Diversion Chamber Details	
S-04	Screening Facility Foundation Plan	x
S-05	Screening Facility Screening Level Plan	x
S-06	Screening Facility Washing & Compacting Level Plan	x
S-07	Screening Facility First Floor Plan	x
S-08	Screening Facility Roof Plan	x
S-09	Screening Facility Sections 1	x
S-10	Screening Facility Sections 2	
S-11	Screening Facility Sections 3	
S-12	Screening Facility Details 1	x

Sheet No.	Name	30% Plans
S-13	Screening Facility Details 2	
S-14	Screening Facility Details 3	
S-15	Disinfection Facility Foundation Plan	x
S-16	Disinfection Facility Chemical Storage Area Plan	x
S-17	Disinfection Facility Roof Plan	x
S-18	Disinfection Facility Sections 1	x
S-19	Disinfection Facility Sections 2	
S-20	Disinfection Facility Sections 3	
S-21	Disinfection Facility Details 1	x
S-22	Disinfection Facility Details 2	
S-23	Typical Details 1	x
S-24	Typical Details 2	
S-25	Typical Details 3	
S-26	Typical Details 4	
Architectural		
A-01	Abbreviations, Legends and General Notes	
A-02	Code Charts	x
A-03	Screening Facility Code Compliance Plans	x
A-04	Disinfection Facility Code Compliance Plans	x
A-05	Screening Facility Screening Level Plan	x
A-06	Screening Facility Washing & Compacting Level Plan	x
A-07	Screening Facility First Flow Plan	x
A-08	Screening Facility Roof Plan	x
A-09	Screening Facility Exterior Elevations 1	x
A-10	Screening Facility Exterior Elevations 2	x
A-11	Screening Facility Building Sections	
A-12	Screening Facility Wall Sections 1	
A-13	Screening Facility Wall Sections 2	
A-14	Screening Facility Building Schedules	
A-15	Disinfection Facility Plans	x
A-16	Door and Window Details	
A-17	Stair and Railing Details	
A-18	Details 1	
A-19	Details 2	
A-20	Signage	
Process Mechanical		
M-01	Diversion Chamber Plans, Sections and Details	x
M-02	Screening Facility Screening Level Plan	x
M-03	Screening Facility Washing & Compacting Level Plan	x

Sheet No.	Name	30% Plans
M-04	Screening Facility First Floor Plan	x
M-05	Screening Facility Sections 1	x
M-06	Screening Facility Sections 2	
M-07	Screening Facility Partial Plans and Details	
M-08	Disinfection Facility Chlorine Contact Tank Plan & Sections	x
M-09	Disinfection Facility Chemical Storage Area Overall Plan	x
M-10	Disinfection Facility Sodium Hypochlorite Area Enlarged Plan	x
M-11	Disinfection Facility Sodium Bisulfite Area Enlarged Plan	x
M-12	Odor Control Area Plan	x
M-13	Details 1	
M-14	Details 2	
M-15	Details 3	
HVAC		
H-01	Symbols, Abbreviations and General Notes	
H-02	Screening Facility Screening Level Plan	x
H-03	Screening Facility Washing & Compacting Level Plan	x
H-04	Screening Facility First Floor Plan	x
H-05	Disinfection Facility Chemical Storage Area Plan	x
H-06	Details	
H-07	Equipment Schedules	
Plumbing		
P-01	Symbols, Abbreviations and General Notes	
P-02	Riser Diagrams	x
P-03	Screening Facility Plans	
P-04	Disinfection Facility Chemical Storage Area Plan	
P-05	Details	
Electric		
E-01	Legends, Symbols and Abbreviations	
E-02	Site Plan	x
E-03	Exterior Lighting Plan and Grounding Plan	
E-04	One Line Diagram	x
E-05	Screening Facility Block Diagram	x
E-06	Disinfection Facility Block Diagram	x
E-07	Equipment Details and Ductbanks	
E-08	Schedules	
E-09	Diversion Chamber Power & Lighting Plans	
E-10	Screening Facility Screening Level Power Plan	
E-11	Screening Facility Washing & Compacting Level Power Plan	

Sheet No.	Name	30% Plans
E-12	Screening Facility First Floor Power Plan	
E-13	Screening Facility Screening Level Lighting Plan	
E-14	Screening Facility Washing & Compacting Level Lighting Plan	
E-15	Screening Facility First Floor Lighting Plan	
E-16	Disinfection Facility Contact Tank Power Plan	
E-17	Disinfection Facility Chemical Storage Area Power Plan	
E-18	Disinfection Facility Contact Tank Lighting Plan	
E-19	Disinfection Facility Chemical Storage Area Lighting Plan	
E-20	Details 1	
E-21	Details 2	

The design documents will be prepared using Autodesk Revit software for building information modeling (BIM) applications. This software utilizes three dimensional design to reduce conflicts during construction and more importantly allow the APJVT to create accurate renderings of the site and the facilities for public outreach visualization.

The APJVT will submit a Draft Engineering Report to the AWB and hold a subsequent meeting to review the documents. The APJVT will address the comments and submit a Draft Final Engineering Report to the Albany Pool Communities and NYSDEC. The APJVT will meet with the DEC to review their comments, and we will address relevant comments when preparing the Final Engineering Report.

Task 5 - Constructability Review & Cost Estimating

The APJVT will conduct constructability reviews, including a review session or workshop, to evaluate means and methods for construction of the proposed facilities. As part of this task, recommendations will be developed for phasing of construction activities; including the designation of construction zones and layout areas. The Draft Engineering Report and design documents will be submitted to construction managers and technical advisors within our organizations. These advisors will review the project for contingencies that need to be incorporated into the project at the 30% design level to minimize cost risk. As part of this task, the APJVT will subcontract with Nasco Construction Services to develop an AACE Class 4 construction cost estimate for budget authorization purposes.

Project Costs

A detailed breakdown of the professional fees is presented below.

Task Description	Professional Fee
Project Management & Coordination	\$76,400
Data Collection:	\$173,300
Topographic Survey	\$45,000
Phase 1A Cultural Resource Survey	\$10,000
Traffic Investigations	\$12,000
Geotechnical Investigations	\$103,300
Incorporation of Beaver Creek Sewer Survey	\$3,000
Public Outreach & Participation Program:	\$43,500
Workshops & Public Meetings	\$18,500
Engineering-Architectural Drawings and Renderings	\$25,000
Supporting Engineering & Architectural Services:	\$747,900
Screening Facility Layout & Design Criteria	\$75,000
Disinfection Tanks and Chemical Facility Layout & Design Criteria	\$115,300
Odor Control Design	\$92,100
Tunnel Design	\$115,500
Diversion Chamber Design	\$25,000
Civil/Site Improvements	\$75,000
Structural Design & Detailing	\$60,000
Architectural Design & Detailing	\$40,000
HVAC Design & Specification	\$20,000
Fire Protection Design & Specification	\$10,000
Electrical Design & Specification	\$20,000
SWMM Collection System & Hudson River Water Quality Updates	\$50,000
Screening & Disinfection Hydraulic Modeling	\$50,000
Constructability Review & Cost Estimating:	\$60,000
Constructability Reviews and Workshop	\$30,000
AACE Class 4 Construction Cost Estimate	\$30,000
Total Professional Fees	\$1,101,100
Credit Applied from Phase 1	(\$115,000)
Total Requested Contract Amendment Amount	\$986,100

The APJVT proposes to be compensated for the scope of services, as defined above, based on the following lump sum amounts. The APJVT will not exceed these amounts without specific written authorization from the AWB.

Project Schedule

The APJVT is prepared to begin this work immediately upon Notice to Proceed from the AWB. It is anticipated that the work will be completed within the 2017 calendar year. A more detailed task outline and project schedule has been attached to this proposal.

The APJVT recognizes that this project is to be financed through the EFC; and as such, acknowledges that an M/WBE goal of 23% will apply to this contract amendment. If the proposal is acceptable, please provide the APJVT notification in order for us to expedite this work. Please do not hesitate to contact us if you have any questions, or wish to discuss the proposed project development plan in more detail.

Sincerely,

A handwritten signature in blue ink that reads "Michael Miller". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael Miller, P.E.
Vice President, CHA Consulting, Inc.

cc: Robert Ostapczuk, P.E., ARCADIS of New York, Inc.
Greg Bold, P.E., CDM Smith



March 24, 2017

Joseph E. Coffey, Jr., P.E.
Commissioner
Albany Water Board
10 North Enterprise Drive
Albany, NY 12204

Attn: Mr. William Simcoe, P.E.

Re: Albany Pool CSO LTCP Floatables Control Projects - Preliminary Engineering Report and Design Services; CHA Proposal No: X-2017-P1

Dear Mr. Coffey:

Per your request, CHA Consulting, Inc. (CHA) is pleased to provide this proposal to the Albany Water Board (AWB) to provide professional services necessary for the preparation of the Preliminary Engineering Report (PER) and the final design services for floatables control projects in the City of Albany. Per the executed Order on Consent for the Albany Pool Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP), control measures are required to collect floatable debris and materials associated with the City's permitted CSO outfalls 026 and 030. These outfalls convey CSOs during wet-weather periods from the Maiden, Steuben, Orange, Quackenbush, Jackson and Livingston sewersheds which discharge in the vicinity of the Corning Preserve. In addition to the control measures required under the CSO LTCP, CHA has been requested to evaluate the potential to implement additional controls along South Swan Street.

CHA recognizes that the AWB has received a NYS Water Grant in regards to the CSO LTCP and that the project will be financed through the New York State Environmental Facilities Corporation (EFC). Pursuant to Article 15 in the original agreement between the Albany Water Board and CHA Consulting, Inc., which allows such to amend the contract on mutual consent, CHA agrees to, and incorporates, the terms in the document "NY State Revolving Fund Program Requirements Bid Package", effective October 1, 2016. As such, the NY State Revolving Fund MWBE/EEO/and AIS terms and conditions will apply for the proposed professional services. Furthermore, CHA acknowledges that the MWBE combined goal for this task assignment is 23%.

It is anticipated that the AWB will apply for potential grant funding for the project through the New York State Department of Environmental Conservation (Department) Water Quality Improvement Project (WQIP) Program for Non-Point Sources, under the 2017 Consolidated Funding Application (CFA) Program. As a result, the PER and design plans, specifications and bidding documents will be developed in manner which is consistent with the necessary approvals and/or authorizations, as well as

for the procurement of construction services in accordance with general municipal law and requirements dictated under the grant program.

The preliminary engineering and construction costs for the floatables control projects were budgeted at \$8M in the Albany Pool CSO LTCP. The order's Schedule of Compliance requires that final design plans and specifications for these projects are completed and submitted to the Department by October 1, 2017; and that a Notice to Proceed be issued to the selected Contractor to begin construction by April 1, 2018. CHA's proposed scope of services, schedule and professional fees to meet these requirements is discussed in more detail below for your consideration.

SCOPE OF SERVICES

Task 1 - Project Management and Coordination

CHA will provide project management services, inclusive of: periodic progress meetings with the AWB, City leadership and the Albany Pool Communities (APCs); project invoicing; grant and/or financing support documentation; subcontracting with MWBE firms to meet EFC financing and grant requirements; and development of a Project Specific Quality Assurance and Quality Control (QA/QC) Plan.

Task 2 - Data Collection

Topographic Survey and Base Mapping: CHA will subcontract all work associated with the survey and development of the base mapping to Ryan Biggs|Clark Davis, a certified WBE. Surveyed areas will be in the upstream and downstream vicinity of the Maiden, Steuben, Orange, Quackenbush, and Jackson/Livingston regulators and dam control structures; as well as along South Swan Street immediately upstream of the Empire State Plaza. It is anticipated that six (6) separate areas will be surveyed which total approximately 6.3 acres. As part of this work, the services provided by Ryan Biggs|Clark Davis will include the following:

- Copy and review the deeds and maps of record for the subject parcels and the abutters to determine the best written description for the boundary.
- Conduct a field survey to locate called for and/or existing evidence relating the written record to the actual property and to locate all visible planimetric and topographic features within the limits.
- Prepare a Topographic Base Map of the survey showing the existing property lines, and all visible planimetric and topographic features within the limits.
- Underground utilities and facilities will be surveyed and mapped from observation at time of survey, field markings by Underground Surveying and as marked by Dig Safely New York.

CHA offers the following assumptions relative to our scope of services. These assumptions are not intended to limit our proposal but are provided to clarify our understanding of the work required.

- The Ryan Biggs|Clark Davis shall conduct all surveys and provide digital terrain data required for design.
- The horizontal datum shall be the New York State Plane Coordinate System (NAD83).

- The vertical datum shall be NAVD 88.
- Albany County Prevailing Wage Rates will be paid for field time.
- Reasonable efforts will be made to research public records for information pertaining to the location of property lines.

Geotechnical Investigations: CHA will coordinate and manage a subsurface exploration. As part of this task, a geotechnical engineer will pre-mark the boring locations in the field prior to drilling. CHA will coordinate with the subcontracted services of the qualified specialist to perform non-destructive, non-invasive utility locating survey (as specified in the survey task above) within the vicinity of the proposed boring locations. CHA subcontractors will exercise normal industry standard of care both to locate underground utilities that exist within the vicinity of the planned boring locations and to protect any existing underground utilities from damage during drilling operations.

CHA will subcontract the subsurface drilling and laboratory services to Atlantic Testing Laboratories, Limited (a certified WBE) to drill up to seven (7) borings in the vicinity of the proposed floatable control facilities using a truck-mounted drill rig. One (1) boring will be drilled to a depth of 20 feet +/-, five (5) borings will be advanced to depths of 40 feet +/-, and one (1) boring will be advanced to a depth of 45 feet +/- . A geotechnical engineer will observe the drilling operations, describe soil and rock samples, prepare field logs, and make adjustments in the field as warranted based on the conditions encountered. Laboratory testing will be performed on select soil and rock core samples. Laboratory testing of soil will consist of index testing; while laboratory testing for rock will consist of unconfined compressive strength testing.

Groundwater observation wells will be installed within three (3) borings upon completion of drilling. The remaining boreholes will be backfilled with soil cuttings, and supplemented with grout, where needed. Split-spoon sampling and standard penetration testing will be performed within all borings. Bedrock will be core sampled to achieve boring termination depths, where required. Borings will be patched with cold patch asphalt upon completion. CHA will return to the site on two (2) occasions after the completion of drilling to obtain groundwater readings within the observation wells.

CHA will prepare a geotechnical report that includes the following items:

- A brief description of the proposed project
- A description of the subsurface exploration
- A description of the in situ subsurface and geologic conditions including groundwater observations
- Subsurface logs and a subsurface exploration location plan
- Laboratory Test Results
- Recommendations for lateral earth pressure parameters for use in design of temporary excavation support walls
- Recommendations for control of groundwater

CHA offers the following assumptions relative to our scope of services. These assumptions are not intended to limit our proposal but are provided to clarify our understanding of the work required.

- Free and easy access to the project sites and all properties contained therein will be granted. No specialized equipment such as bulldozers or excavators will be required for the drill rig to access the boring locations.
- AWB will coordinate right of entry to the boring locations, if required.
- AWB will provide a source of water for the drilling subcontractor.
- The subcontractor will notify Dig Safely New York and obtain a ticket for the test borings. Dig Safely New York notifies utility owners of the intent to excavate or drill at the subject property, but utility owners are not required to mark privately-owned utilities. CHA and our subcontractor will not be responsible for damage to unmarked underground utilities or the hardships incurred.
- AWB will provide permits that may be required for drilling the borings at no cost to CHA or our subcontractor.
- No special drilling, sampling, handling and disposal procedures will be required for contaminated soils.
- The drilling subcontractor will attempt to minimize any disturbance to the site. No additional site restoration other than backfilling the borehole is included in this scope of services.
- The drilling subcontractor may dispose of excess soil cuttings from the borings onsite at a location designated by the AWB or, if necessary, coordinate with the AWB to arrange for the removal of excess materials.

Task 3 - Permitting Services

SEQR Review: The City of Albany Floatables Control Projects are required by an administrative enforcement order executed between the Department and the APCs, and as such, the projects are considered to be a non-discretionary or type II category which is exempt from SEQR.

SHPO Review and Coordination: As part of this work, CHA will subcontract with Landmark Archaeology, Inc. (a certified WBE) to perform a cultural resource study, or Phase IA Literature Search and Archaeological Sensitivity Assessment to identify any potential impacts or issues which could influence the design and/or construction activities. The assessment will adhere to the guidelines recommended by the Historic Preservation Field Services Bureau; OPRHP/SHPO (recommendation in director's letter of September 20, 1995) for cultural resource management projects and the revised guidelines issued on May 5, 2005 (John Bonafide, Historic Preservation Field Services Bureau). It shall also comply with the New York State Historic Preservation Act (including associated guidance) and the requirements of New York State Historic Preservation Office. All cultural resource survey work shall be performed by or under the supervision of a person or persons meeting appropriate professional qualifications standards, as set forth in the Secretary of the Interior's Professional Qualification Standards 48 CFR Part 44738.9.

Due to the known historic sensitivity of the project area, the background research includes a detailed study of representative historic maps available for the project area. The archaeological sensitivity assessment for the project area will be based on the preliminary project information available through records research. Detailed recommendations for future work depend on the ultimate definition of the APE (Area of Potential Effect, horizontal and vertical impacts) for the proposed construction following

SHPO Guidelines. Should additional work be determined to be necessary, based upon the findings of the Phase IA Assessment, a detailed scope and fee will be presented to the AWB for your consideration.

Task 4 – Preparation of the Preliminary Engineering Report

Untreated combined sewage can contain high levels of floatable materials, suspended solids, BOD, oils and grease, toxic pollutants, and/or pathogenic microorganisms. Floatables are often the most noticeable and problematic combined sewage pollutant.

Alternatives Evaluation: There are numerous methods available for floatables control, including baffles, catch basin modifications, netting systems, containment booms, skimming processes, and screening and trash rack devices. The alternatives evaluation will provide background and information on potential floatables control technologies. Different technologies will be evaluated to determine appropriate equipment suitable for floatables control for application in the City's combined sewer system. To determine if a specific technology is appropriate, the following preliminary criteria will be considered to assess the impacts on the following:

- Floatables control and discharge to the Hudson River
- Hydraulic impacts to the wastewater collection system
- Requirements for power supply and/or pumping equipment
- Screenings and debris loading impacts on the ACSD South Treatment Plant
- Screenings handling at the proposed remote floatables control facilities

The alternatives evaluation will include a description, benefits and drawbacks, preliminary sizing calculations, and budgetary equipment costs for preferred technologies for the respective sites. As part of this task, CHA will organize workshops with two (2) leading manufacturers of CSO screening technologies.

Computation of Design Flows: Under this task, CHA will use the SWMM model developed under the Albany Pool CSO LTCP to compute the required design flows for the outfalls. The design flows will be determined based on the peak flows associated with the 90 percentile overflow event, using the 5-year period of record previously studied. As part of this task, the models will be updated, as necessary, and used to assess the potential headloss impacts of the various screening and floatables control technologies to the up-gradient hydraulic profiles for the system. Furthermore, CHA will compile Hudson River stage information to assess the typical operating (or backwater) conditions for the outfalls. The results will be summarized for inclusion in the PER and presentation to the Department.

Preliminary Engineering Report: Upon completion of the alternatives evaluation, CHA will compile a PER which assesses and contrasts potential impacts and benefits of the alternatives; and will prepare preliminary cost estimates for cost-benefits analysis. The PER will be formatted in a manner suitable for submission for the 2017 CFA Program, as well as EFC financing requirements. It is anticipated that CHA will meet with the AWB to present the results of our findings, discuss the cost-benefits analysis, and define any additional actions.

Task 5 – Preparation of Preliminary and Final Construction Plans, Specifications and Estimates

Drawings and specifications shall include all necessary documentation to approve, bid, procure, construct and properly test materials and components of the proposed improvements in accordance with current local, state, and federal codes, standards and regulations. Submissions shall be made at the preliminary design level (60%); final design review stage (90%) and final bidding documents (100%); with each submission including a construction cost estimate. Improvements shall be prepared in plan and profile format, with profiles indicating the approximate locations of existing and proposed utilities in order to resolve potential conflicts.

A preliminary list of anticipated drawings is as follows:

- G-001 Title Sheet
- G-002 General Notes and Legend
- C-001 Overall Existing Conditions Plan
- C-002 Existing Conditions Plan for Maiden Lane
- C-003 Existing Conditions Plan for Steuben Street
- C-004 Existing Conditions Plan for Orange Street
- C-005 Existing Conditions Plan for Quackenbush Square
- C-006 Existing Conditions Plan for Jackson/Livingston
- C-007 Existing Conditions Plan for South Swan Street
- C-008 Demolition and Protection Plan for Maiden/Steuben/Orange
- C-009 Demolition and Protection Plan for Quackenbush/Jackson/Livingston
- C-010 Demolition and Protection Plan for South Swan Street
- C-101 Construction Zones and Storage Areas for Maiden/Steuben/Orange
- C-102 Construction Zones and Storage Areas for Quackenbush/Jackson/Livingston
- C-103 Construction Zones and Storage Area for South Swan Street
- C-201 Proposed Layout Plan and Elevations for Maiden Lane
- C-202 Proposed Layout Plan and Elevations for Steuben Street
- C-203 Proposed Layout Plan and Elevations for Orange Street
- C-204 Proposed Layout Plan and Elevations for Quackenbush Square
- C-205 Proposed Layout Plan and Elevations for Jackson/Livingston
- C-206 Proposed Layout Plan and Elevations for South Swan Street
- C-301 Erosion and Sediment Control Plan for Maiden/Steuben/Orange
- C-302 Erosion and Sediment Control Plan for Quackenbush/Jackson/Livingston
- C-303 Erosion and Sediment Control Plan for South Swan Street
- C-601 Plan Details for Small Flow Floatables Control
- C-602 Sectional Details for Small Flow Floatables Control
- C-603 Plan Details for Large Flow Floatables Control and Grit Removal
- C-604 Sectional Details for Large Flow Floatables Control and Grit Removal
- C-605 Grinder Pump Section and Elevation Details
- C-606 Structural Modification Details for Maiden Lane
- C-607 Structural Modification Details for Steuben Street
- C-608 Water Supply and Wash-down System Details
- C-609 Erosion and Sediment Control Details

- C-610 Site Landscaping Notes and Restoration Details
- C-801 Maintenance and Protection of Traffic Plan Sheet
- C-802 Maintenance and Protection of Traffic Details

Task 6 - Bid Phase Services

CHA would propose to assist the City with the bidding of the project by offering the following services:

- Assist the AWB by preparing instructions to bidders and bid advertisements for the City to publish, in accordance with General Municipal Law.
- Provide twenty (20) digital sets of contract documents (plans and specifications) for distribution to prospective bidders.
- Prepare addenda to the contract documents, as required, to clarify bidder questions.
- Assist the AWB with the receipt of bids, evaluation of bids, and award of the contract to the lowest responsible bidder.

Task 7 - Grant Administration & Coordination

CHA recognizes that the AWB has received a NYS Water Grant in regard to the CSO LTCP and that the project will be financed through the EFC. In addition, the City intends to apply for potential grant funding for the project through the WQIP for Non-Point Sources, under the 2017 CFA Program. Under this task, CHA will assist the AWB with the application for the CFA Program; and shall provide the necessary services for processing of the contracts and financial applications for reimbursement throughout this phase of the project. Furthermore, this task includes coordination efforts involved with the submittal and review of the design drawings and specifications, as well as responding to and/or addressing comments from the reviewing agencies.

SCHEDULE

CHA is prepared to begin this work immediately upon Notice to Proceed from the AWB. The following critical milestone dates have been established for the project:

Milestone Description	Milestone Date
Completion of the PER and application for potential grant funding under the 2017 Consolidated Funding Application (CFA) Program	July 31, 2017
Completion of the preliminary engineering plans (60%) and list of technical specifications	August 15, 2017
Completion of the final design review plans and specifications (90%) for submittal to the Department and EFC for review	October 1, 2017
Completion of the Preliminary Engineering Plans (100%)	January 15, 2018
Notice to Proceed be issued to the selected Contractor for authorization to begin construction	April 1, 2018

PROFESSIONAL FEES

CHA proposes to be compensated for the scope of services, as defined above, based on the following lump sum amounts. CHA will not exceed these amounts without specific written authorization from the AWB.

Task Description	Fee & Expenses
Project Management & Coordination	\$12,500
Data Collection:	
Topographic Survey & Base Mapping	\$35,000
Geotechnical Investigations	\$47,500
Permitting Services	\$15,000
Preparation of the Preliminary Engineering Report:	
Alternatives Evaluation	\$20,000
Computation of Design Flows and Operating Conditions	\$25,000
Prepare Engineering Report and Documentation	\$30,000
Preliminary and Final Plans, Specifications & Estimates:	
Preliminary Design (60%)	\$130,600
Final Design Review (90%)	\$65,300
Final Bidding Documents (100%)	\$21,750
Bid Phase Services	\$3,000
Grant Administration & Coordination	\$5,000
Total Professional Fee & Expenses	\$410,650

We would like to thank the Albany Water Board for consideration of CHA Consulting, Inc. to support this important City initiative. If the proposal is acceptable, please provide CHA notification in order for us to expedite this work. Please do not hesitate to contact me at (518) 453-3910 or mmiller@chacompanies.com if you have any questions.

Sincerely,



Michael F. Miller, P.E.
Vice President

**Full Environmental Assessment Form
Part 1 - Project and Setting**

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Tivoli Park Preserve Stream Daylighting Project		
Project Location (describe, and attach a general location map): Tivoli Park Preserve, Albany, NY		
Brief Description of Proposed Action (include purpose or need): This action involves the daylighting of approximately 1700 linear feet of Patroon Creek, and construction of a high flow overflow channel for safe overland conveyance of stormwater flows.		
Name of Applicant/Sponsor: Albany Water Board		Telephone: 518-434-5300
		E-Mail: wsimcoe@albanyny.gov
Address: 10 N Enterprise Drive		
City/PO: Albany	State: NY	Zip Code: 12204
Project Contact (if not same as sponsor; give name and title/role): Mr. William Simcoe, PE, Deputy Comssioner		Telephone: 518-434-5300
		E-Mail: wsimcoe@albanyny.gov
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): City of Albany		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village Planning Board or Commission <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
c. City Council, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
d. Other local agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Albany Water Board	5-1-17
e. County agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	NYSDEC Section 401 WQC NYS EFC	6-30-17 6-30-17
h. Federal agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	USACE Nationwide Permit 3 (Maintenance) & 27 (Aquatic Habitat Enhancement)	6-30-17
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):
 NYS Heritage Areas: Mohawk Valley Heritage Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
 If Yes, what is the zoning classification(s) including any applicable overlay district?
 Land Conservation District _____

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No
 If Yes,
 i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? City of Albany School District

b. What police or other public protection forces serve the project site?
City of Albany Police

c. Which fire protection and emergency medical services serve the project site?
Albany Fire Department

d. What parks serve the project site?
Tivoli Park Preserve

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Environmental restoration

b. a. Total acreage of the site of the proposed action? _____ 9.45 acres
 b. Total acreage to be physically disturbed? _____ 9.45 acres
 c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 60 + acres

c. Is the proposed action an expansion of an existing project or use? Yes No
 i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
 If Yes,
 i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____
 ii. Is a cluster/conservation layout proposed? Yes No
 iii. Number of lots proposed? _____
 iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? Yes No
 i. If No, anticipated period of construction: _____ 18 months
 ii. If Yes:
 • Total number of phases anticipated _____
 • Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
 • Anticipated completion date of final phase _____ month _____ year
 • Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

i. Total number of structures _____
 ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length
 iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

i. Purpose of the impoundment: _____
 ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____
 iii. If other than water, identify the type of impounded/contained liquids and their source. _____
 iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
 v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length
 vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

i. What is the purpose of the excavation or dredging? Excavation to remove the existing culvert and recreate the Patroon Creek Stream Channel
 ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
 • Volume (specify tons or cubic yards): 25,000 CY
 • Over what duration of time? 3-4 Months
 iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them.
The excavated material will be the cover material over the the culvert that was constructed in the 1920's. It is anticipated that these materails would be considered clean fill. it is anticipated that this material will be used on site as well as removed to a City of Albany Facility

iv. Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____

v. What is the total area to be dredged or excavated? _____ 6.5 acres
 vi. What is the maximum area to be worked at any one time? _____ 2-3 acres
 vii. What would be the maximum depth of excavation or dredging? _____ 15 feet
 viii. Will the excavation require blasting? Yes No
 ix. Summarize site reclamation goals and plan: _____
The goal of the project is to recreate the natural stream channel and flood plain to allow for increased water quality and flood control by using native plants to stabilize the stream banks and slopes.

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): Patroon Creek

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:
 Approximately 1700 linear feet of Patroon Creek will be daylighted (currently culverted), and construction of a high flow overland overflow channel.

iii. Will proposed action cause or result in disturbance to bottom sediments? Yes No
 If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No
 If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No
 If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? Yes No
 If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No
 If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No
 If, Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No
 If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No
 If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____
 v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ 0 Square feet or _____ 0 acres (impervious surface)
 _____ Square feet or _____ 9.45 acres (parcel size)
 ii. Describe types of new point sources. sheet flow during construction

 iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?
 flow will be directed to temporary sedimentation basins and managed per the SWPPP that will be developed specifically for this project.

 • If to surface waters, identify receiving water bodies or wetlands: _____
 Hudson River

 • Will stormwater runoff flow to adjacent properties? Yes No

iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

 ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

 iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: _____ 7 am - 5pm
- Saturday: _____ 8 am - 12 pm
- Sunday: _____ as necessary
- Holidays: _____

ii. During Operations:

- Monday - Friday: _____
- Saturday: _____
- Sunday: _____
- Holidays: _____

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No

If yes:

i. Provide details including sources, time of day and duration:
 Increased noise associated with vehicles during construction. This will be temporary and during the hours specified in box L above.

ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No

If yes:

i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No

If Yes:

i. Product(s) to be stored _____

ii. Volume(s) _____ per unit time _____ (e.g., month, year)

iii. Generally describe proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No

If Yes:

i. Describe proposed treatment(s):
 application of Rodeo may be required to manage and eliminate some invasive species _____

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No

If Yes:

i. Describe any solid waste(s) to be generated during construction or operation of the facility:

- Construction: _____ tons per _____ (unit of time)
- Operation : _____ tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:

- Construction: _____
- Operation: _____

iii. Proposed disposal methods/facilities for solid waste generated on-site:

- Construction: _____
- Operation: _____

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No
 If Yes:
 i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____
 ii. Anticipated rate of disposal/processing:
 • _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
 • _____ Tons/hour, if combustion or thermal treatment
 iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No
 If Yes:
 i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

 ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

 iii. Specify amount to be handled or generated _____ tons/month
 iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

 v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No
 If Yes: provide name and location of facility: _____

 If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility:

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.
 i. Check all uses that occur on, adjoining and near the project site.
 Urban Industrial Commercial Residential (suburban) Rural (non-farm)
 Forest Agriculture Aquatic Other (specify): _____
 ii. If mix of uses, generally describe:
 Existing park in an urban setting. There is a mixture of forest, stream, lake and trails.

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	1	1	0
• Forested	1.95	1.95	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	.66	6.5	5.84+
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	0		0
• Other Describe: Successional transitional community	5.84	0	5.84-

c. Is the project site presently used by members of the community for public recreation? Yes No
i. If Yes: explain: passive recreation and fishing

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
If Yes,
i. Identify Facilities:

e. Does the project site contain an existing dam? Yes No
If Yes:
i. Dimensions of the dam and impoundment:
• Dam height: _____ feet
• Dam length: _____ 80 feet
• Surface area: _____ 3.53 acres
• Volume impounded: _____ 40.6 ac ft gallons OR acre-feet
ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection:

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
If Yes:
i. Has the facility been formally closed? Yes No
• If yes, cite sources/documentation: _____
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred:

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): _____
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s):

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ Greater than 5 feet

b. Are there bedrock outcroppings on the project site? Yes No
 If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

UG - Udorthents, loamy	_____	95 %
W - Water	_____	5 %
_____	_____	%

d. What is the average depth to the water table on the project site? Average: _____ 3-6 feet

e. Drainage status of project site soils:

<input checked="" type="checkbox"/> Well Drained:	_____	95 % of site
<input type="checkbox"/> Moderately Well Drained:	_____	% of site
<input checked="" type="checkbox"/> Poorly Drained	_____	5 % of site

f. Approximate proportion of proposed action site with slopes:

<input checked="" type="checkbox"/> 0-10%:	_____	100 % of site
<input type="checkbox"/> 10-15%:	_____	% of site
<input type="checkbox"/> 15% or greater:	_____	% of site

g. Are there any unique geologic features on the project site? Yes No
 If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No

If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name 863-711 Classification C
- Lakes or Ponds: Name Tivoli Lake Classification B
- Wetlands: Name Federal Waters, Federal Waters, Federal Waters Approximate Size _____
- Wetland No. (if regulated by DEC) _____

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No

If yes, name of impaired water body/bodies and basis for listing as impaired: _____

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100 year Floodplain? Yes No

k. Is the project site in the 500 year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No

If Yes:

i. Name of aquifer: Principal Aquifer

<p>m. Identify the predominant wildlife species that occupy or use the project site:</p>		
Eastern gray squirrel	American robin	Song sparrow
Chipmunk	American crow	Common garter snake
White-tailed deer	European starling	
<p>n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Describe the habitat/community (composition, function, and basis for designation): _____</p> <p>ii. Source(s) of description or evaluation: _____</p> <p>iii. Extent of community/habitat:</p> <ul style="list-style-type: none"> • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres 		
<p>o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>		
<p>NY Environmental Resources Mapper identified one or more rare plants in the project vicinity. An information request will be sent to the NY Natural Heritage Program for specific information. Northern long-eared bat according to USFWS. Measures will be taken to evaluate the potential for species to be present within the project area, or affected by the project. This will be required to obtain the necessary DEC and USACE permits.</p>		
<p>p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		
<p>q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, give a brief description of how the proposed action may affect that use: _____</p> <p>the project will not affect the public's access to perform these activities</p>		
<p>E.3. Designated Public Resources On or Near Project Site</p>		
<p>a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, provide county plus district name/number: _____</p>		
<p>b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>i. If Yes: acreage(s) on project site? _____</p> <p>ii. Source(s) of soil rating(s): _____</p>		
<p>c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature</p> <p>ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____</p> <p>_____</p> <p>_____</p>		
<p>d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes:</p> <p>i. CEA name: _____</p> <p>ii. Basis for designation: _____</p> <p>iii. Designating agency and date: _____</p>		

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If Yes:	
<i>i.</i> Nature of historic/archaeological resource: <input type="checkbox"/> Archaeological Site <input checked="" type="checkbox"/> Historic Building or District	
<i>ii.</i> Name: <u>Philip Livingston Junior High School (Former)</u>	
<i>iii.</i> Brief description of attributes on which listing is based: _____	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	
If Yes:	
<i>i.</i> Describe possible resource(s): _____	
<i>ii.</i> Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
<i>i.</i> Identify resource: _____	
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____	
<i>iii.</i> Distance between project and resource: _____ miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If Yes:	
<i>i.</i> Identify the name of the river and its designation: _____	
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
<input type="checkbox"/> Yes <input type="checkbox"/> No	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

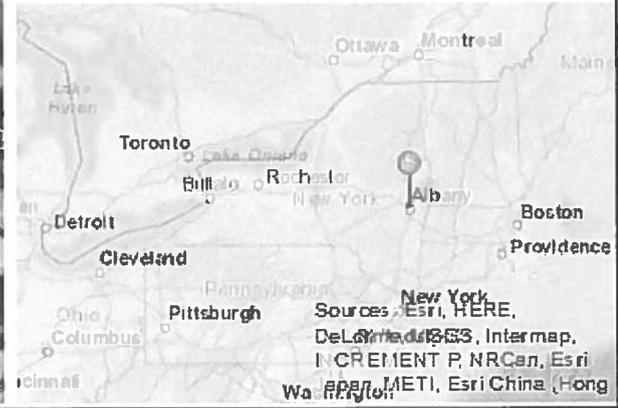
I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Mr. William Simcoe Date _____

Signature _____ Title _____



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	Yes
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas: Mohawk Valley Heritage Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Yes
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.iv [Surface Water Features - Stream Name]	863-711
E.2.h.iv [Surface Water Features - Stream Classification]	C
E.2.h.iv [Surface Water Features - Wetlands Name]	Federal Waters
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes

E.2.b. [Soil Type Occupancy]	No
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National Register of Historic Places - Name]	Philip Livingston Junior High School (Former)
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No



Figure 1 - Project Location Map

Patroon Creek Daylighting Project
 Tivoli Park Preserve
 Albany, Albany County, New York



Scale 1" = 1,000'

CHA Project No.
 30185

Image Courtesy Copyright: © 2013 National Geographic Society, i-cubed
 Port Jervis North & Port Jervis South USGS Quadrangles

ALBANY CITY WATER BOARD
CAPITAL IMPROVEMENTS
4/28/2017 Summary

Project	2017 Proposed Budget	Status	Vendor	Asset	Invoice Date	Amount Sp to Date
Supply Reservoir	\$ 170,000					\$
Supply Conduit	\$ 15,000					\$
Feura Bush Filtration Plant	(*)	Open	Ryan-Biggs	FB Plant	3/20/2017	\$ 12,5
						\$ 12,5
Distribution System	\$ 700,000	Complete	Schnabel	Distribution	3/20/2017	\$ 8,5
						\$ 8,5
Loudonville Reservoir	\$ 290,000					\$
Pumping Stations - Water	\$ 100,000					\$
Engineering Fees-Water	\$ 100,000	Open	O'Brien	Engineering Service	3/22/2017	\$ 7,7
						\$ 7,7
Erie Blvd Facility	\$ 100,000					\$
Contingency - Water	\$ 15,000					\$
Computers/ Meters	\$ 320,000	Complete	HP	Workstation	2/28/2017	\$ 5,5
						\$ 5,5
Sewer Separation	\$ 100,000					\$
Sewer Rehabilitation	\$ 750,000	Complete	Kenyon Pipeline	18" CIPP Lining	3/15/2017	\$ 32,5
		Open	CHA	Engineering Services	3/21/2017	\$ 8,5
						\$ 41,4
Pumping Stations	\$ 150,000	Complete	CHA	Engineering Services Sewer	3/17/2017	\$ 21,5
						\$ 21,5
Engineering Fees-Sewer	\$ 100,000	Open	CHA	Engineering Services Sewer		\$ 1,7
						\$ 1,7
Contingency - Sewer	\$ 15,000					\$
Overflows	\$ 75,000					\$

2017 Budgeted Capital Improvements \$ 3,000,000

Invoiced \$ 100,0

\$ 30,5

\$ 69,5

Notes: Feura Bush Filtration Plant projects will be funded through grants and long term financing in 2017.

**Albany Water Board
Arcadis Engineering Report
Date: April 28, 2017**

Upcoming LTCP Projects\Dates

- **Performance of a Codes and Local Law Review, & Green Infrastructure Technical Design Guidance** – Technical Design Guidance is due by 8/1/2017.

Arcadis Projects

- **Asset Management Program (Water and Sewer)** – Draft Sewer AMP report submitted for review and comment. The combined water and sewer report will be submitted this week.
- **Green Infrastructure Banking System Feasibility Assessment** – The feasibility report was completed. The communities met with the NYSDEC and they provide some comments on the report and indicated there may be some grant funding available if the communities implement the program.
- **Feura Bush Filtration Plant – (NYSERDA FlexTech Grant)** – A draft report was completed and submitted to NYSERDA and the AWD for review and comment. Arcadis addressed NYSERDA's comments and they have approved the report.
- **Sewer Condition Assessment and Rehabilitation Recommendations** – Warren Street submitted, others in internal review and will be submitted in the coming weeks.
- **RedZone Inspection of the Lincoln Park Sewer** - Contractor completed the inspection of most of the sewer. There were two buried manholes that prevented a completed inspection. The report is expected in a couple of weeks.
- **GIS and Computerized Maintenance Management System** – Arcadis is providing some guidance for the purchase of a CMMS system, and for additional GIS updates.
- **Stevens Farm Erosion** – Arcadis is providing alternatives to address erosion occurring in the vicinity of a transmission main.