MINUTES

OPERATIONS & ENGINEERING COMMITTEE MEETING JULY 14, 2020 (VIRTUAL)

Attendants: Messrs. Diewald, DiSantis, Hurst, Kern, Knapp, Lehman, Lucas, Mullen, Pileggi, Pisani, Sweeney, Willert, and Mesdames Amadio, Caulk, Cummings, and Sage.

1. <u>ROLL CALL</u>: Six members of the DELCORA Board of Directors were present at the meeting constituting a quorum.

The following were present for the bid openings: Craig Murray from D'Huy Engineering, Darrin MacMillan from A.J. Jurich, Bildie, Matric, Jason Burke, J. Estelle, S. Boyce, Thomas Jacoby, Paulo DeSilva, Michael, M. Philips, B. Miller, Joskce. There were no other members of the public present.

2. <u>PLEDGE OF ALLEGIANCE</u>: All parties present at the meeting recited the Pledge of Allegiance.

3. BID OPENING:

 Contract No. SEW-2002-CO – Furnishing Equipment, Labor & Supervision for Sewer Maintenance, Repairs & Other Construction Related Products

Mr. Hurst stated that there were two bids received.

TOTAL	BID	AM	OU	NT
101/1	טוט	/ \IVI	\sim	

A.J. Jurich, Inc. \$2,079,310.00 Mor Construction Services, Inc. \$2,129,920.00

 Contract No. TC-2006-C – WRTP Plant Upgrades Project 2020 – Contract A – General

Mr. Hurst stated that there were four bids received.

TOTAL BID AMOUNT

\$ 8,456,272.00
\$ 7,142,020.00
\$ 8,263,820.00
\$ 7,450,970.00

Minutes
O & E Committee Meeting
July 14, 2020
page 2 of 4

Contract No. TC-2006-C – WRTP Plant Upgrades Project 2020 – Contract D
– Electrical

Mr. Hurst stated that there were two bids received.

TOTAL BID AMOUNT

Brendan Stanton, Inc. (aka BSI Electrical Contractors) \$ 910,500.00 Philips Brothers Electrical Contractors \$ 892,000.00

Mr. Mullen stated that these bids will be reviewed by Staff and our Solicitor's office, and consideration of award will be placed on the agenda for the July 21st Board meeting.

- 4. MONTHLY REPORT DIRECTOR OF OPERATIONS & MAINTENANCE: Mr. DiSantis highlighted certain items in the written report. Mr. DiSantis stated that as of the writing of his report, there were no known violations at the WRTP. Mr. DiSantis reported that it was a good month for the plant process and solids handling. Effluent TSS was 7mg/L, cBOD₅ was 4mg/L and the cBOD20 removal was 98.66%. Mr. DiSantis reported that for the solids handling the dry tons per day was 64.89 which is less than the year to date average. This was due to having maintenance performed on both incinerators during the month. Continuing, Mr. DiSantis stated that the WRTP received 98% of the flow from Central Pump Station. He stated that there were two reportable incidents during the month, one was for a wet water overflow at Norwood's Martin Lane Pump Station which occurred when there was a partial power outage during a rain event. The final incident was for emissions. Mr. DiSantis did state that this is a huge improvement from last month which he stated had twenty-four reportable incidents which were all due to emissions. He reported that the new operating procedures that were implemented and tested in May have produced tremendous results. Mr. DiSantis reported that there was one violation for exceeding the monthly average TSS concentration at the Pocopson Preserve facility due to excess algae. The trucked waste business was low during the month compared to other months at 20.37 million gallons, but year-to-date revenue is still on budget. Mr. DiSantis had no additional comments to the written report. Mr. Kern had praised Mr. DiSantis on the outstanding numbers at the WRTP. He stated that he has been in this business for 47 years and he has never seen numbers this great. He also stated that he heard that the Safety Committee received an award for their outstanding safety, but he feels that the WRTP deserves a Plant Operation Award due to the impressive numbers. Mr. DiSantis thanked Mr. Kern for the recognition. The Committee had no further questions regarding the written report.
- 5. MONTHLY REPORT DIRECTOR OF ENGINEERING: Mr. Hurst highlighted certain items in the written report. He reported that the WRTP Plant Upgrades project, and the Solids Handling Project continue to draw to a conclusion. He stated that there were several notable repairs completed under the Sewer Maintenance contract including replacing a pump at the Chester Pump Station, installation of sewer pipe and manhole at 15th and Arbor Street, Endimal Tank installation at WRTP, and a hot tap and

Minutes
O & E Committee Meeting
July 14, 2020
page 3 of 4

replacement of Air Relief Valve 55 on Rt. 291.He reported that the substation work CONTRACT WORK IS PROCEEDING in the press room. He reported that the Springhill Farm contract is under construction at this time.

Under Design, regarding the ESA Alternatives, Mr. Hurst stated that the Value Engineering phase is drawing to a close. Value Engineering is a process where independent engineers are engaged to review the design and offer suggestions on how the value can be improved, such as greater level of service or lower costs. The Value Engineering team that reviewed this project in February suggested that we should consider replacing the pipelines (intended to be installed at grade through open trench excavation) with constructing a tunnel. To investigate this option, five bore holes were driven down about 200 feet in depth. It was discovered that the rock is shallower than expected and very good quality for constructing a tunnel. He also stated that using the tunnel option would save a lot of excavation of soils at grade, reduces the impact on traffic and noise, and alleviates concern about contaminated hazardous soil and water. Mr. Hurst noted that the team, in consultation with Aqua, is nearing a final decision on proceeding with a tunnel approach/design. He requested that if the Board or public has any concerns or questions with this direction to contact him. Mr. Hurst stated that the CSO #5 Plans are 90% complete and part of The Long-Term Control Plan, which is being submitted this week. He also stated that the Upland Borough Sewer Upgrade is also part of the Long-Term Control Plan along with the Lower Delaware River Improvements project which should be starting the construction phase soon. Mr. Hurst had no additional comments to the written report. The Committee had no questions regarding the written report.

- 6. MONTHLY REPORT ENGINEERING ADVISOR: Mr. Lehman highlighted several on-going projects on the written report, which had been provided to all Board members in advance of today's meeting. He stated that the SWMM modeling is ongoing and is submitted every month. The metering program continues with collecting data, processing it, and submitting it to DELCORA for review. Mr. Lehman stated that the other projects are temporarily on hold as DELCORA evaluates direction out of the ESA program. Mr. Lehman had no additional comments to the written report. The Committee had no questions regarding the written report.
- 7. <u>CHANGE ORDERS</u>: Mr. Mullen stated that there were no Change Orders at this time.
- 8. REQUEST FOR APPROVAL OF CONTRACT CLOSE-OUT & FINAL PAYMENT:
 - Contract No. TC-1608-C Solids Handling Upgrade 2016 Part B Electrical (Philips Brothers Electrical)

Following a brief overview by Mr. Hurst, it was the consensus of the Committee to recommend Board approval of the above contract close-out. This item will be placed on the agenda for the July 21st Board meeting.

Minutes
O & E Committee Meeting
July 14, 2020
page 4 of 4

9. <u>AUTHORIZATION FOR PROFESSIONAL SERVICES</u>:

- A. Trace Environmental Systems, Inc. Proposal Dated May 31, 2020 For Professional Services To Provide An Upgrade To The DAHS Platform-WebDAS2K Total Amount Not To Exceed \$20,850.00 (Capital Funds)
- B. AquaLaw PLC Of Richmond Virginia Proposal Dated July 13, 2020 For Continued Assistance With Transaction With Aqua Pennsylvania Total Additional Amount Not To Exceed \$50,000.00 (Operating Funds) (AquaLaw Is Not Affiliated With Aqua Pa)

Mr. Hurst provided an overview of the above proposals. It was the consensus of the Committee to recommend Board approval of the above proposals. These items will be placed on the agenda for the July 21st Board meeting.

10. AUTHORIZATION TO ADVERTISE FOR BIDS:

- Contract No. P2020-04 Replacement Belts For A Belt Filter Press
- Contract No. P2020-05 Dewatered Solids Transportation, Stabilization And Beneficial Use Disposal Services

Following a brief overview by Mr. Hurst, it was the consensus of the Committee to recommend Board approval of the above Authorization to Advertise For Bids. These items will be placed on the agenda for the July 21st Board meeting.

11. AUTHORIZATION TO PURCHASE:

 Trimble Water – Quote Dated July 9, 2020 – To Purchase Replacement Modems For The Metering Program Due To The Sunset Of 3G Service Through A Sole Source Purchase – Total Amount Not To Exceed \$55,806.00 (Capital Funds)

Following discussion, it was the consensus of the Committee to recommend Board approval of the above Authorization to Purchase. This item will be placed on the agenda for the July 21st Board meeting.

12. <u>RENEWAL OF AGREEMENT WITH ENVIRONMENTAL RESEARCH (FOR A PERIOD BEGINNING AUGUST 1, 2020 AND ENDING SEPTEMBER 30, 2022).</u>

Following discussion, it was the consensus of the Committee to recommend Board approval of the above Agreement. This item will be placed on the agenda for the July 21st Board meeting.

<u>ADJOURNMENT</u>: It was moved by Mr. Lucas, seconded by Mr. Knapp, and unanimously carried to adjourn the regular meeting at 4:10 p.m.



INTER-OFFICE MEMORANDUM

TO:

Robert J. Willert, Executive Director

FROM:

Michael J. DiSantis, Director of Operations and Maintenance

SUBJECT: Board Report for the July 14, 2020, O & E Committee Meeting

DATE:

July 13, 2020

PROCESS INFORMATION - There were no violations at WRTP during the month. June 1. data points of interest are:

<u>Liqu</u>	id Process Averages:	Month:		YTD:
1.	Flow	31.32 MGD		34.56 MGD
2.	TSS	7 mg/L		15 mg/L
3.	cBOD₅	4 mg/L		11 mg/L
4.	cBOD ₂₀ % Removal	98.66%		96.6%
5.	cBOD ₂₀ Loading	1,567 lbs.		5,112 lbs.
Solid	ds Processing:	Month:		YTD:
1.	Dry Tons Treated -	1946.60		2,067.65
2.	Dry Tons/Day -	64.89		68.16
3.	Total Gallons Pumped -	12,287,737		12,241,085
4.	Average Feed Solids -	3.90%		4.10%
5.	Average Cake Solids -	20.36%		22.93%
6.	Pounds of Polymer/DT -	193.69		191.24
7.	MCF/DT -	5.44		3.99
8.	Monthly Cost/DT -	\$40.58		\$34.33
	1. 2. 3. 4. 5. Solid 1. 2. 3. 4. 5. 7.	 TSS cBOD₅ cBOD₂₀ % Removal cBOD₂₀ Loading CBOD₂₀ Loading Dry Tons Treated - Dry Tons/Day - Total Gallons Pumped - Average Feed Solids - Average Cake Solids - Pounds of Polymer/DT - MCF/DT - 	1. Flow 31.32 MGD 2. TSS 7 mg/L 3. cBOD ₅ 4 mg/L 4. cBOD ₂₀ % Removal 98.66% 5. cBOD ₂₀ Loading 1,567 lbs. Solids Processing: Month: 1. Dry Tons Treated - 1946.60 2. Dry Tons/Day - 64.89 3. Total Gallons Pumped - 12,287,737 4. Average Feed Solids - 3.90% 5. Average Cake Solids - 20.36% 6. Pounds of Polymer/DT - 193.69 7. MCF/DT - 5.44	1. Flow 31.32 MGD 2. TSS 7 mg/L 3. cBOD5 4 mg/L 4. cBOD20 % Removal 98.66% 5. cBOD20 Loading 1,567 lbs. Solids Processing: Month: 1. Dry Tons Treated - 1946.60 2. Dry Tons/Day - 64.89 3. Total Gallons Pumped - 12,287,737 4. Average Feed Solids - 3.90% 5. Average Cake Solids - 20.36% 6. Pounds of Polymer/DT - 193.69 7. MCF/DT - 5.44

C. <u>Station Meter Readings</u>: (Total flow values are in mg and daily flow is in mgd.)

June 2020	Total Flow	Daily Avg	High Daily	Low Daily
Darby Creek	502.43	16.75	21.85	15.41
Muckinipates	109.84	3.66	5.41	3.22
Central Delaware	246.14	8.20	12.05	7.36
Chester	203.99	6.80	12.09	6.02
Marcus Hook	18.94	0.63	1.03	0.52
Eddystone	10.23	0.34	0.53	0.29
Naamans Creek	53.16	1.77	2.22	1.65
Chi Pit	15.53	0.52	0.75	0.45
Chester-Ridley	121.81	4.06	4.84	3.60
Edgmont	3.21	0.11	0.12	0.10

II. MONTHLY FACILITY ACTIVITIES

A. Operations Highlights/Key Events

- 1. The plant received 98.3% of the flow from the Central Delaware Pump Station.
- 2. There were two reportable incidents during the month. One incident was a wet weather overflow at Norwood's Martin Lane PS that occurred when there was a partial power outage during a rain event. I'm very pleased to report that the remaining incident was for reportable emissions. The new operating procedures that were being implemented and tested in May have produced tremendous results with regard to increased operational control and stability. Many thanks to all involved with this issue but specifically want to recognize Clint Swope, Tom Czwalina, and Chris Mariani, along with support from CM for making this sweeping improvement.
- 3. The average daily flows for the month were very similar to May, further driving down the YTD average. In plant perations, the focus for the month was stabilizing plant process. There continues to be some tank outages and process interruptions as the 2018 Plant Upgrade Project winds down. Primary clarifier performance was mainly affected by these outages as the TSS removal was 58%. In solids handling, GBT performance met the cake solids and TSS filtrate performance targets. Two incinerator up time was 67% to facilitate maintenance on both units. As a result, there were 32 loads hauled to compost during the month. Polymer usage was similar to last month while natural gas usage increased as sludge volatility trended towards lower towards what has been typical. However, both parameters were within operational targets. Chemical addition for H₂S reduction and nutrient deficiency continued to be used as needed. At the remote facilities, there was one violation for exceeding the monthly average TSS concentration at the Pocopson Preserve facility due to excess algae.

Monthly Board Report for June 2020 July 13, 2020 page 3 of 3

B. Maintenance Highlights/Key Events

1. During June, as a result of the relaxing of requirements for COVID-19, CM and SM staff returned to a normal work schedule. There were no system failures during the month. In addition to routine planned facility and collection system O&M; work on in-house projects and support of capital projects remains a significant focus of the maintenance departments. During the month, Central Maintenance also worked on belt filter press repairs, supported PECO work at various facilities, performed incinerator and related systems' repairs, primary clarifier inspections and repairs, various pump repairs, and providing labor to support plant operations. Sewer Maintenance continued to focus on area line cleaning and televising, air relief inspections and maintenance, response to One-Calls and sewer complaints, metering support, various line repairs and replacement, WRTP work, remote systems work, and support of capital projects.

C. Trucked Waste Business

1. During the month, 20.37MM gallons were received. While the projected revenue for the month is not expected to meet our monthly target, the year-to-date revenue is still in budget.

MJD: attachments (NPDES DMR/Strategic Plan Reports)

cc: M. Warholic

C. Lenton

W. Smith

C. Mariani

S. Gober

File

Bonnett, Barbara

From:

depgreenporthelpdesk@state.pa.us

Sent:

Monday, June 22, 2020 6:53 AM

To:

DiSantis, Michael; DiSantis, Michael; Raymond Rios; Piro, Ian; Mariani, Chris; Petrova,

Mihaela; Cartafalsa, James

Subject:

Your eDMR Report Has Been Received For Permit No. PA0027103

This email is to confirm that the following report was received by DEP through the eDMR system:

Facility Name: DELCORA STP
Permit Number: PA0027103
Report Frequency: Monthly

Report Type: DMR

Reporting Period: 05/01/2020-05/31/2020

Report Due Date: 06/28/2020

Submitted By: Michael DiSantis

Submission Id: 211719 Submission Status: Received Submission Type: Original

To view the details of this report, access the eDMR system through DEP's <u>GreenPort</u> and select the link for View/Revise Submitted.



DELAWARE COUNTY REGIONAL WATER QUALITY CONTROL AUTHORITY P.O. Box 999 • Chester, PA 19016-0999

June 22, 2020

SUBMITTED ONLINE VIA PADEP eDMR SYSTEM

William Collins Water Quality Specialist – Water Management PA Department of Environmental Protection 2 East Main Street Norristown, PA 19401

Dear Mr. Collins:

Enclosed are DELCORA's Discharge Monitoring Report, Laboratory Data Reports, and CSO Report for May 2020.

We regret to report that the weekly limits for cBOD5 concentration and loading as well as the TSS concentration were exceeded during the month. Parameter averages for May 2020 were: Flow - 31.59 MGD; cBOD₅ - 15 mg/L; TSS - 18 mg/L; cBOD₂₀ % removal - 93.43%; and cBOD₂₀ - 6,278 lbs/day.

Should any further information be required concerning this report, please contact me at 610-876-5523, ext. 264.

Respectfully submitted,

Electronically signed & submitted

Michael J. DiSantis Director of Operations and Maintenance

MJD:bab enclosures

CC:

w/enclosures

US EPA - NPDES DMR (3WP42) - can access through DEP website Delaware River Basin Commission - can access through DEP website

C. Mariani via email with server link

File

ADMINISTRATION	CUSTOMER SERVICE/BILL
☐610-876-5523	☐610-876-5526
DEAX:RELIGIBLE	R-WRT FOR FAXSIME 10 8 7 1 46 9020.doc

PURCHASING & STORES ☐610-876-5523 ☐FAX: 610-497-7959 PLANT & MAINTENANCE ☐610-876-5523 □FAX: 610-497-7950

ø
~
0
2
Ñ
2.2
٠.
2
Ģ
4
2
3
\overline{c}
ά
÷
-
Щ,
4
×
≍
**

pennsylvania penesylvania penesylvania penesylvania

NO

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTI BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)	
---	--

1	ı		
DELCORA	100 EAST FIFTH STREETP.O.BOX 999, CHESTER PA, 19016-0999	DELCORA STP 3201 W FRONT ST, CHESTER PA, 19013-1829 Final Effluent	
NAME:	ADDRESS:	FACILITY: LOCATION: STAGE:	

a:	PA0027103	23			5		æ
PERM	PERMIT NUMBER	BER		OUTF	OUTFALL NUMBER	ABER	ă
			,				Ω
		DTINON	RING	MONITORING PERIOD			ē, α α, α
 YEAR	Ø	DAY		YEAR	MO	DAY	ZZ
 2020	50	01	ք	2020	50	હ	

hly half	05/01/2020	05/31/2020	04/30/2018	11/01/2017		
Monthly	05/01	05/31	04/30	11/01		,
Reporting Frequency:	DMR Effective From:	DMR Effective To:	Permit Expires:	Permit Application Due:	No Discharge:	:

PARAMETERS REPORTED VALUES						NOT AGENTS OF CONCENTED A	ACIT AGENTACIA		200		$\overline{}$
		QUAN	QUANTITY OR LOADING	ING	- 1	AN III Y OK CO.	NCEN INC.	1	SAMPLING FREQUENCY	SAMPLING TYPE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
144.	County Management	-	1		6,47		6.9	s.u.	1/day	Grab	
PH (05400)	Permit Requirement	1	:	.1	6.0 Inst Min	1	9.0 IMAX		1/day	Grab	_
		CEA	ether,	Sheldmy	1	18.0	47.0	Age	1/day	24-Hr Composite	
Total Suspended Solids (00530)	Sample Measurement Permit Requirement	11000	16500	<u></u>	ı	30,0 Ave Mo	45.D Widy Avid	•	1/day	24-Hr Composite	
		Avg Mo	WKIY AVG	The fellow	1	450	7,0	mg/L	1/day	Grab	
Oil and Grasse (00556)	Sample Measurement	< 1335	1	- Anna		15.0	30.0	1	1/day	deab	
	Parmit Requirement	Avg Ma				Avg Mo	IMAX		dimension	24-Hr Composito	
(CDS1)	Sample Measurement	uq.	:	Į.		9.69	i	J.Bu	Zirshtin	24. Mr Commonite	٦
An analysis and an analysis an	Parmit Requirement	•		· · · · · · · · · · · · · · · · · · ·	t	Monitor & Report Avg Mo	ì		Zmonth	or leading liber	
The state of the s	Camala Managaran		1	1	ŀ	c.100	<,100	mg/L	2/month	24-Hr Composite	- 3
Nivîto an N (00615)	Pormit Requirement	1		<u>.l</u>	**	Monitor & Report Avg Mo	Monitor & Report Daily Max		thron/2	24-Hr Composite	- 1
Addition of the state of the st	Committe Money promont	:	1		1	< 1.00	41.00	тви	2/month	24-Hr Composits	1
Nibuto as N (UDE-2U)	Permit Requirement	!	ı	1	1	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	24-Hr Compastio	1
			3	Į		18.8	i	mg/E	2/month	24-Hr Composito	-7
Total Kjoldahl Nitrogon (00625)	Sample Moasurement Pormit Requirement	! !	ı	. 1		Monitor & Report Avg Mo	E		2/month	24-tir Camposito	. 1
					1	0250	i	ma/l.	1/month	24-Hr Composite	
Cyanide, Total (00720)			1			Monitor & Report	ł	•	t/mon/t	24-Hr Compasits	
	Pomit Requiement					Avg Mo			100	6mh	1
Ont	Sample Measurement		1		1	3000,	***	mg/L	1/monut	7.0	1
Chlorodioromanna (o-sada)	Permit Requirement	3		-	1	Monitor & Report Avg Mo	1		1/month	dr.	- 1
			:	I	ł	< .0002	i	mg/L	1/manth	24-Hr Composits	- 1
Cadmium, Total (01027)	Sample Measurament Permit Reciliement	ı		1	ı	Monitor & Report	ı		1/month	24-Hr Composite	
						AVG MD			discount,	24-Hr Composite	1
(Child) (Mild)	Sample Measurement		1	1	i	9600.	Ė	ng/L	paldigui	All and the second seco	3
for most condition	Pormit Requirement	I	ł	•	ı	Monitar & Report Avg Mo	ł		1/month	esenditor 111-1-7	1
Military and the second	Cometo Meneropeant			1	1	c,0010	ţ	mgA	1/month	24-Hr Composite	J
לוכתוח ומסין	Parmit Requirement		,			Monitor & Report Avg Mo	ı		ւ/տորե	24-Hr Composite	- 1
			5	1		0300		mg/L	1/month	24-Hr Composito	- 1
Zinc, Total (01092)	Permit Requirement	:	i		i	Manitar & Report Avg Ma			1/month	24-Hr Composito	•
COLUMN TO THE PARTY OF THE PART				i	i	9000	E	mg/l.	fmonth	Grab	
Dichlorobromomethana (32101)	Sample Measurement		: !			Monitor & Report	1		1/month	Grab	
	Parmit Roquirement	}	ı			Avg Mo				Medical	ì
(05003)	Sample Measurement	34.59	46.61	MGD	1	1	****	i	Continuous	no or now	1
former) sect	Pomilt Requirement	Monitor & Report	Monitor & Report Delly Max		ţ	i	ı		Continuous	wo IPI ex	- 1
Constant of the Constant of th	County Management		1		1	4.	.87	mg/L	1/day	Grab	- 1
Total Residual Chlonne (14C) (SUUSU)	Controlled in the Controlled		i			5.	0.		1/day	Grab	
	······································		-			Avg Mo	MAX			The state of the s	1

Privacy Policy | Security Policy Copyright ©2016 Commonwealth of Pennsylvania. All Rights Reserved

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)



Tatal Dissolving Contact Colors	Sample Measurement	;	•			•	-	1,6.		
foeth chine analogain ino					l				4)	24-Hr Composite
	Permit Requirement	•	ì		1	Monitor & Report Avg Mo	Monitor & Report Daily Max		Zmortn	opending states
(330) (3 000) (1 0 1 0 1 0 1	Commin Management	1	1	-	7	92	261.3	No./100 mi	1/day	Grab
rocal comprin (+cos)	Caripio Moderno									400
(May-Sop)	Permit Roquirement	1	i		i	205 Geo Mean	IMAX		ám.	
Control (Figure 1)	Special Managers	4185	11233	vabled		15.0	42,0	mg/L	1/day	24-Hr Composits
Carbonaceous biochemical Oxygen Demand (CBOUS) (bouez)	the state of the s				-				447	Of U. Campanilo
	Permit Requirement	7000 Avg Mo	10500 Wdy Avg		1	19,0 Avg Mo	29.0 Widy Avg		(mp/)	mendings (ULV)
					-			ļ	A liday	24-Hr Composite
BOD, carbonaceous, 20 day, 20 C (80087)	Sample Measurement	6278		Belday	i	i		1	(my)	20 20 20 P.C
	Parmit Requirement	10500 Avg Mo	ŧ		ı	I	1		1/wook	menduan towy
								-		
Facility Sampling Foint Comments						70000				

ø
Ξ
8
ä
=
à
66
4
0
<
ับ
m
卫
-
Ц.
Ċ
0
œ



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)

Rep		Ö	D 0	2	
	ABER]		DAY	સ
9	OUTFALL NUMBER			MO	90
OUTE		ERIOD	YEAR	2020	
			RING		2
83	ABER		MONITORING PERIOD	DAY	۶
PA0027103	PERMIT NUMBER		_	Θ	59
α.	PER			YEAR	M 2020
					≨

Monthly 05/01/2020 05/31/2020 04/30/2018 11/01/2017	eporting Frequency: MR Effective From: MR Effective To: ermit Expires: ermit Application Due:
	o Discharge:
	nit Application Due:
04/30/2018	nit Expires:
05/31/2020	Effective To:
05/01/2020	Effective From:
Monthly	orting Frequency:

ATTIVITY COLORED SCIENCE										
TAXAMETERS AND CALLED TAXALS							CH COL			
		QUA	QUANTITY OR LOADING	SING SING	귷	QUANTITY OR CONCENTRATION	NCENTRATIO	-	SAMPLING FREQUENCY	SAMPLING TYPE
DADAMETER				CEI :	11000	17.41.11	311157	SHINI		
CHI THE STATE OF T		VALIJE	VALUE	222	ארתם	י אינייי	1	9		- war
								70	1 fran	24-Hr Composita
	de de la companya de	į	:	;	25.63	1	i	ę	-	
BOD, carbonappous, 20 day, 20 C (80087)	montaine meaning piritities							-	3-477	24-Hr Composite
	Outside Decisions	***	:		89.25	I	:		YORKU	
	Total Manager and The Control of the				Min Ma Avg					
					4					
Facility Sampling Point Comments					-					



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)

	ď.	PA0027103	03			90	
	PER	PERMIT NUMBER	ABER	.	OUTF	OUTFALL NUMBER	MBER
			J NOW	PING	MONITORING PERIOD		
	YEAR	MO	DAY		YEAR	οM	₽Ā
FROM	2020	0.5	2	ρ	2020	93	હ્ય

- Many	1/4 mm	Annual Control				
Monthly	05/01/2020	05/31/2020	04/30/2018	11/01/2017		
Reporting Frequency:	DMR Effective From:	DMR Effective To:	Permit Expires:	Permit Application Due:	No Discharge:	

ន
3
Š
딢
œ
ă
S
별
쁜
ž
₹

CUANTITY OR LOADING VALUE				
Sample Measurement 76917		QUANTITY OR CONCENTRATION	SAMPLING FREQUENCY	SAMPLING TYPE
Sample Measurement 7569.7	ST	VALUE UNITS		
Sample Measurement 75817 Partit Requirement Monitor & Report Permit Requirement Monitor & Report Permit Requirement BOSS7 Permit Requirement Monitor & Report Permit Requirement Advis Advis Permit Requirement Advis Advis Permit Requirement Advis Advis Permit Requirement Monitor & Report Permit			Nomic	24-Hr Composito
Paint Requirement Monitor & Report *** Sample Measurement 20057 *** Permit Requirement Monitor & Report *** Sample Measurement A7411 *** Permit Requirement Worker & Report *** Permit Requirement Monitor & Report ***			2007	
Sample Meaburement 80057 Redday Permit Requirement Annibra & Report Sample Meaburement 74711 Bentit Requirement 74711 Redday Permit Requirement Norther & Report Redday Regday Regday Redday	Monitor & Report.	1	1/vebk	24-Hr Composite
Sample Meadurement 80057 Padday Permit Requirement Menius & Report Permit Requirement 74711 Permit Requirement Morifor & Report Permit Requirement Morifor & Permit Reput Mo			4640	24-Hr Composito
Permit Requirement Monitor & Report		J.Bu.	(PD)	
Festilat Nepaliforment 74711 *** Rodday *** Permit Requirement Morille & Report *** Asg Mo	Monitor & Report	i	1/day	24-Hr Composite
Sample Manazirentent 74711 *** Ibalday *** Permit Requirement Monitor & Report *** Ang No	Avg Mp			
Sample Magazionnent 74711 *** Balday *** Pemil Raquirement Moniter & Report *** Avg Mo		lion en	1/day	24-Hr Composite
Permit Requirement Munifor & Report	l			- Section 1
	Monitor & Report	ł	1/day	mendilion it.
Facility Sampling Four Connects				
the state of the s				

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)



TTACHMENT DETAILS			A therefore A
File Name	Attachment Type	Uploaded Time	
DIAR Laboratory Accreditation MJR May 2020, dog	Laboratory Accreditation Form	2020-06-15709:36:17-04:00	
	Laboratory Acaraditation Form	2020-05-16717:02:24-04:00	
DAME Laboration approximation A S (OAG) May 2020 doc	Laboratory Acareditation Form	2020-06-16717;02:46-04:00	
DMR Caver Letter May 2020 doc	Cover Lottor	2020-06-22106:43:50-04:00	
At S. Sandolbert I am Banner (FORS) 4-420-410-5-4-20-5	Laboratory Analytical Report	2020-05-16T10:12-22-04:00	
ALS Assistant and respect to Commercial Section 1997	Laboratory Analytical Report	2020-06-16T10:13:01-04:00	
Also Small Lab Booket (EDS) 5-8-9-10-1-12-13-90-	Laboratory Analytical Report	2020-06-16710:13:34-04:00	
ALS Printing that they have a few and they are the are they are the are they are the are they are the are they are the are th	Other	2020-06-16T16:55:24-04:00	Sludga Hauled May 2020
May 2000 Staddy Bonot view	CSO Detailed Outfall Report Form	2020-06-20111:15:38-04:00	- Automotive Control of the Control
The Total of the American May 200 year	Other	2020-06-16T16:51:32-04:00	Hauler Totals_FORM 43 & Trucked Waste May 2020
Short OCOC Lawle Comment of the Comm	Laboratory Analytical Report	2020-06-16T16;53:04-04:00	
Carrent Character Deed of the May 2020 at	Sawage Studge / BiosoRds Production and Disposal Form	2020-06-16T16;54:25-04:00	
A COCC and	Laboratory Analytical Report	2020-06-16T16:54:50-04:00	
DEL CODA Analustralista (Personal (Personal Analysis)	Laboratory Analytical Report	2020-06-16710:18:18-04:00	
OELCOIN Analytical at Report (influent) May 2020 adf	Laboratory Analytical Report	2020-06-16T10;16;46-04:00	
Daily Efficient Monitoring Form May 2020 xixx	Dally Effluent Monitoring Form	2020-05-16710;18:41-04:00	
14 13 Analysis In Baront (Ffilliant—Total Nitrogen) 5-5-20.pdf	Laboratory Analytical Report	2020-06-16T10:17:48-04:00	- Committee of the Comm
House Application of	Houled-In Residual Waste Form	2020-06-16110:20:17-04:00	
DMR I shortery decredition ALS May 2020 doc	Laboratory Accreditation Form	2020-08-15709;35:18-04:00	
At a section to be present (CH) and CALOR PIPE	Laboratory Analytical Report	2020-06-15109;37:00-04:00	***************************************
ALS Alluly that the types (1908) 5-28-481 23-005	Laboratory Analytical Report	2020-06-16T10:t5:19-04:00	
At a surface in Paractificial Scalable 22.23.24.25.26.27.PDF	Laboratory Analytical Roport	2020-06-18T10:14:54-04;00	
A1 & Analysical all Report (FOG) 5-14-WE 15-16-17-18-19-00-PDF	Laboratory Analytical Report	2020-06-16T10:13:59-04:00	
DELCORA Analytical Int Report (Effluent) May 2020,odf	Laboratory Analytical Report	2020-06-16710:15:55-04:00	
DAME IN BUSINESS ROLD MAY 2020 add	Labaratory Analytical Report	2020-06-16710:17:20-04:00	- district the second s
11 to Associate to the Second (Fifthern Cold Mitocon) 5-19-20 add	Laboratory Analytical Report	2020-06-16T10:18:10-04:00	
Dally Influent Monitoring Form May 2020, xlox	Daily Effluent Monitoring Form	2020-06-16T10:19:11-04:00	111111111111111111111111111111111111111
Indiabation May 2020 stev	Other	2020-06-16710:19:38-04:00	Inf-PRF Calculations May 2020
At 5 Annieth 1 of Report (503) 52-34 5 6 505	Laboratory Analytical Report	2020-06-15709:37:37-04:00	
Shy CCC well and the total of the form of the control of the contr	Hauted-In Municipal Waste Form	2020-06-16T18:51:03-04:00	
	# 1 mm	DO-NO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO-CO	

ų
Ĉ
F
٠
ç
?
ţ
ć

Τ	7 F F	this of this	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
commence	the both apply and the both apply of the both ap	outside by the supply claim is the supply control of a few or the supply control of a few or connected by Control of a few or connected many thrusted enforcement promiting may remainful or produced mornally may remainful or produced mornally and control or more through the control of the control or control	Due to the outply their broak down caused by Coville-19, a few connected and tricked influentee began sonified mer materials or products committy designed for the market for disposal. This should feel them broads and the bading caused the processe speed in response in the processe speed in the speed in response.
Corrective Action	Son affached comments	See attached comments	See attached commonts
Cause Of Non-Compliance	See stracked comments	Soa atfaction commonts	See attached comments
Sampling Point	Final Efflant (001)	Final Efftont (001)	Final Efftront (001)
Unit	(Daiday	196 1	7/BW
Permit Limit	10600	\$	29
Reported Value	11233	7.7	42
Limit Type	Weeky Average	Wooldy Avorago	Wookly Average
Parameter	Carbonaccous Blochamical Oxygen Demand (CBODS)	Total Surponded Solds	Carbonaceous Biochemical Oxygen Denand (CBOD5)
Event End Date		05/81/2020	05/31/2020
Fount Start Date		05/01/2020	05/01/2020
Ol ornelland only		114446	114447

Privacy Policy | Security Policy Copyright ©2016 Commonwealth of Pennsylvania. All Rights Reserved

pennsylvania Department of environmental PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER DISCHARGE MONITORING REPORT (DMR)

											approximate divorted to P along with a wasting brow compliance.	approximately 10 MGD of flow was divorant to PWD for about a wask. This along with a substantial increase in wasting brought the process back in compliance.
UNAUTHORIZED DISCHARGES	CHARGES	-		-	10 pt 100					- Control of the Cont		
Non-Compliance ID	Event Start Date	Event End Date	Non-Compliance ID Event Start Date Event End Date Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)		Receiving Waters	Duration (hrs) Receiving Waters Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
OTHER PERMIT VIOLATIONS	ATIONS										71174	
Non-Compliance ID		Nen-Compliance Type	20	Sampling Point		Par	Parameter		Reported Value		Permit Limit	Comments
COMMENT DETAILS										,		
Lower		Comments	- Washington			Operator Name			Operator Certification Number	mber	Operator Contact Number	mber
									40400		(64 D)-876-5523	

c
-
Е
*
16
0
Ċ
ũ
-
-
-
•
,
7
- U
ò
-
-
•

		Δ	
DATE	90	MO	
	2020	YEAR	
Ш	876-5523	NUMBER	
TELEPHONE	(610)	AREA CODE	
Michael Dicantic		SUBMITTED BY FULL NAME	
DEMINISTRAIN INTURNATION SERVICE SERVICE AND ACCUMPANTAL SERVICE TRANSACTIONS ACCUMPANTALY ACCUMPANTALY SERVICES, you are about to engage in an IRFEND OFFI ISSER electronic transaction sylph the Commonwealth of Pennsylvania. You are submitting official information. You certify under	penally of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of	the person or persons who manage the system or those persons directly responsible for gathering the information, me information submitted is, to the best of your knowledge and belief, thus, accurate and complete. You are aware that any false statement may be subject to substantial own and oriminal penalties, including 18 P.S. section 4904 (relating to unswom statement may be subject to substantial own and oriminal penalties, including 18 P.S. section 4904 (relating to unswom	TOTAL

OPERATIONS STRATEGIC PLAN REPORT JUNE 2020

Missed Samples Per Month	#	YTD
Goal is zero	0	0
Deviations from Required Sampling Or Analytical Protocol	#	
Goal is 100% compliance	0	0
Samples with Analytical Results Outside of QA/QC Standards	#	
Goal is 100% compliance	7	40
Hours in Training for Month	#	
Total DEP Approved	18.5 0.0	74.0 0.0
DEP Certified Operators	#	
Regulations Require One	12	

CENTRAL MAINTENANCE MATRIX JUNE 2020

CURRENT MONTH #	YTD
##	
Tr	
0.4	D
39	
	0/
%	%
84%	92%
	89%
	92%
07 70	32 70
# / %	#1%
-	
	5553 / 29%
	13399 68%
92 / 3%	508 / 3%
#	#
117	TT .
#	#
NA	NA
NA	NA
NA	NA
#	#
	159
9	64
	833 / 23% 2631 / 74% 92 / 3% # NA NA NA NA



Work Order Summary Report for Date Range: 6/1/2020 to 6/30/2020

Asset Type	Work Order Type	Labor Hours	Labor Cost
FLEET_ASSETS		0	1,687.58
	GENERAL REPAIR	0	\$1,466.80
	OIL CHANGE	0	\$145.84
*	STATE INSPECTION	0	\$74.94
SCHAMBER		78	2,421.44
	CLEAN GRATES	72	\$2,239.70
	INSPECTION	6	\$181.74
SCONTROLVALVE		29	885.11
	SERVICE AIR RELIEF VALVE	20	\$605.60
	VAC AND CLEAN	9	\$279.51
SCSOREGULATOR		153	4,751.16
	CSO INSPECTION	134	\$4,153.80
	TOTAL REGULATOR MAINTENANCE	19	\$597.36
SGRAVITYMAIN		607	19,609.74
	AREA LINE CLEANING	78	\$2,452.32
	EMERGENCY CALL IN	32	\$1,509.12
	GNET TV INSPECTION	264	\$8,350.38
	INTERCEPTOR CLEANING	60	\$1,886.78
	MISCELLANEOUS	31	\$965.44
	MONTHLY LINE CLEANING	44	\$1,378.46
	PA ONE CALL LINE LOCATING	75	\$2,336.08
	ROOT CUT	8	\$260.72
	SURVEYING	15	\$470.45

STATEPHAYPOINT 10,415-42	Asset Type	Work Order Type	Labor Hours	Labor Cost
EMERGENCY CALL IN 88 \$4,094.88 LATERAL REPAIR 111 \$33,584.55 MISCELLANEOUS 1 \$31,444 SEWIER COMPLAINT INVESTIGATION 59 \$1,864.23 TV INSPRECTION 9 \$227.61 SMANHOLE 25 1,000.27 EMERGENCY CALL IN 16 \$740.76 MARANHOLE FRAME & COVER REPLACEM 9 \$279.51 SPUMPSTATION 25 \$88.60 BRIDLE WAY PS 6 \$187.17 ROSE VALLEY FLOR POINT LIN 7 \$220.08 ROSE VALLEY PS ON BROOKHAWEN RD. 10 \$442.46 SEAPORT DRIVE 2 \$482.59 STEFATIMENTPLANT 283 \$8,773.77 CLEAN GRIT PIT/LDAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 PORCOPSON REVERSIDE WAYEP 7 \$220.08 PRIMARY SCUIM PIT 15 \$471.00 PS-6 55 \$771.20 SUDGE RECEIVING 13 \$492.21 SUDGE FRAILER SWITCH OUT <td>SLATERALPOINT</td> <td></td> <td>287</td> <td>10,414.42</td>	SLATERALPOINT		287	10,414.42
LATERIAL REDWIR 111 53,184.05 15 531.44 15 15 15 15 15 15 15		CLEAR LATERALS	19	\$584.71
MISCELLANEOUS 1 531.44 SFIWER COMPLAINT INVESTIGATION 59 51,846.23 TV INSPECTION 9 5272.61 SMANHOLE 25 1,020.27 EMERGENCY CALL IN 16 5740.76 MANHOLE FRAME & COVER REPLACEM 9 5279.51 SPUMPSTATION 25 888.60 BRIDLE WAY PS 65 8187.17 ROSE VALLEY LONG POINT LIN. 7 5220.08 ROSE VALLEY LONG POINT LIN. 7 5220.08 ROSE VALLEY BY SO IN BROOKHAVEN RD. 10 5442.46 SEAPORT DRIVE 25 48.89 STREATMENTPLANT 233 8,773.77 EB2 2 548.89 STREATMENTPLANT 15 68 3363.48 EMERGENCY CALL IN 8 3663.48 EMERGENCY CALL IN 8 3663.48 POCCOPSON RIVERSIDE WAYTP 77 2220.08 EMERGENCY CALL IN 8 3663.48 POCCOPSON RESERVE WAYTP 8 515.152 PRIMARY SCUM PIT 15 5471.60 SLUDGE RECEIVING 13 5471.60 SLUDGE RECEIVING 13 5471.60 SLUDGE RECEIVING 13 5471.60 SLUDGE RECEIVING 13 5471.60 LICE AN SINGLE WAYTP 15 5471.60 LICE AN SINGLE RECEIVING 13 5471.20 LICE AN SINGLE RECEIVING 14 5471.20 LICE AN SINGLE RECEIVE AN ARCHARD 14 11 5541.20 LICE AN SINGLE RECEIVE AN ARCHARD 14 11 5541.20 LICE AN SINGLE RECEIVE AN ARCHARD 14 11 5541.20 LICE AN SINGLE RECEIVE AN ARCHARD 14 11 5541.20 LICE AN SINGLE RECEIVE AN ARCHARD 14 11 5541.20 LICE AN SINGLE RECEIVE AN ARCHAR		EMERGENCY CALL IN	88	\$4,094.88
SEWER COMPAINT INVESTIGATION 59 \$1,846.23 TV INSPECTION 9 \$272.61 SMANHOLE 25 LR20.27 EMERGENCY CALL IN 16 \$740.76 MANHOLE FRAME & COVER REPLACEM 9 \$279.51 SPUMPSTATION 25 898.60 BRIDLE WAY PS 6 \$187.17 ROSE VALLEY FOR DROINT LN. 7 \$220.08 ROSE VALLEY FOR BROOKHAVEN RD. 10 \$442.46 SEADORT DRIVE 23 \$8,793.77 STREATMENTPLANT 23 \$779.77 CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EI-2 8 \$383.48 EINERGENCY CALLIN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POCOPSON RIVERSIDE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 PS-6 25 \$771.20 SUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2		LATERAL REPAIR	111	\$3,584.55
TVI INSPECTION 9 \$577.61 SMANHOLE EMERGENCY CALL IN 15 \$740.76 EMERGENCY CALL IN MANHOLE FRAME & COVER REPLACEM 9 \$279.51 SPUMPSTATION 25 888.40 . BRIDLE WAY PS 6 \$187.17 ROSE VALLEY LONG POINT LN. 7 \$220.08 ROSE VALLEY LONG POINT LN. 7 \$220.08 ROSE VALLEY LONG POINT LN. 7 \$230.08 SEAPORT DRIVE 2 \$48.89 STREATMENTPLANT 23 \$8,773.77 EEB-2 88 \$363.48 EEB-2		MISCELLANEOUS	1	\$31.44
SMARHOLE 25 1,020,27 EMERGENCY CALL IN 16 \$740,76 MANHOLE FRAME & COVER REPLACEM 9 \$279,51 SPUMPSTATION 25 \$88,60 BRIDLE WAY PS 6 \$187,17 ROSE WALLEY IS ON BROOKHAVEN RD. 10 \$442,46 SEAPORT DRIVE 2 \$48,89 STREATMENTPLANT 23 \$,773,77 CLEAN GRIT FIT/LOAD CONTAINER 44 \$1,395,20 EU-2 8 \$363,48 EMERGENCY CALL IN 8 \$363,48 POCOPSON INVERSIGN WAYTP 7 \$220,08 POFCOPSON PRESERVE WWITP 8 \$251,52 PRIMARY SCUM PIT 15 \$471,60 PS-6 25 \$771,20 SUDGE TRAILER SWITCH OUT 61 \$2,785,14 T-4 11 <td< td=""><td></td><td>SEWER COMPLAINT INVESTIGATION</td><td>59</td><td>\$1,846.23</td></td<>		SEWER COMPLAINT INVESTIGATION	59	\$1,846.23
EMERGENCY CALL IN MANHOLE FRAME & COVER REPLACEM 16 \$740,76 SPUMPSTATION 25 898,60 BRIDLE WAY PS 6 \$187,17 ROSE VALLEY LONG POINT LN. 7 \$220,08 BOSE VALLEY PS ON BROOKHAVEN RD. 10 \$442,46 SEAPORT DRIVE 233 8,773,77 STREATMENTELIAMT 233 8,773,77 CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395,20 EB-2 8 \$363,48 EMERGENCY CALL IN 8 \$363,48 POCOPSON PRESERVE WWTP 7 \$220,08 POPCOPSON PRESERVE WWTP 8 \$251,52 PRIMARY SCUM PIT 15 \$471,60 PS-6 25 \$771,20 SLUDGE RECEIVING 13 \$549,22 SLUDGE RECEIVING 13 \$549,22 T-4 11 \$220,08 T-15 24 \$1,068,86 T-4 11 \$220,08 RESATT 14 11 \$200,08 T-15		TV INSPECTION	9	\$272.61
MANHOLE FRAME & COVER REPLACEM 9 \$279.51 SPUMPSTATION 25 3898.60 BRIDLE WAY PS 6 \$187.17 ROSE VALLEY LONG POINT LIN. 7 \$220.08 ROSE VALLEY PS ON BROOCHAVEN RD. 10 \$442.46 SEAPORT DRIVE 2 \$48.89 STREATMENTPLANT 233 \$8,773.77 CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCCOPSON RIVERSIDE WATP 7 \$220.08 POCCOPSON RIVERSIDE WATP 7 \$220.08 POPCOPSON RIVERSIDE WATP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE RECEIVING 13 \$549.22 T-15 2 \$62.39 T-4 11 \$220.08 T-16 17 \$1.00 T-15 17 \$1.00 T-15 18 \$2.7785.14 T-15 19 \$62.39 T-4 11 \$220.08 T-5 \$1.00 T-6 \$1.00 T-7 \$1.00 T-8 \$1.00 T-8 \$1.00 T-8 \$1.00 T-8 \$1.00 T-8 \$1.00 T-8 \$1.00 T-9 \$1.00 T-10 \$1.	SMANHOLE		25	1,020.27
SPUMPSTATION 25 898.60 BRIOLE WAY PS 6 \$187.17 ROSE VALLEY LONG POINT LN. 7 \$220.08 ROSE VALLEY PS ON BROOKHAVEN RD. 10 \$442.46 SEAPORT ORIVE 2 \$48.89 STREATMENTPLANT 233 8,773.77 CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWITP 7 \$220.08 POPCOPSON PRESERVE WWITP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$7771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS \$13 \$9,714.32 SVARIOUS \$13 \$34.69		EMERGENCY CALL IN	16	\$740.76
BRIDLE WAY PS 6 \$187.17 ROSE VALLEY LONG POINT LIN. 7 \$220.08 ROSE VALLEY PS ON BROOKHAVEN RD. 10 \$442.46 SEAPORT DRIVE 2 \$48.89 STREATMENTPLANT CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POPCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$7771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.85 THORNBURY TREATMENT PLANT 8 \$251.52 SYANIOUS CLEAN SM GARAGE 11 \$344.69		MANHOLE FRAME & COVER REPLACEM	9	\$279.51
ROSE VALLEY LONG POINT LIN. 7 \$220.08 ROSE VALLEY PS ON BROOKHAVEN RD. 10 \$442.46 SEAPORT DRIVE 2 \$48.89 STREATMENTPLANT CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POPCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS 313 9,774.32 CLEAN SM GARAGE 11 \$344.69	SPUMPSTATION		25	898.60
ROSE VALLEY PS ON BROOKHAVEN RD. 10 \$442.46 SEAPORT DRIVE 2 \$48.89 STREATMENTPLANT CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS 313 \$9,714.32 CLEAN SM GARAGE 11 \$344.69		BRIDLE WAY PS	6	\$187.17
STREATMENTPLANT 233 8,773.77 CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POPCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$7771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS 313 9,714.32 CLEAN SM GARAGE 11 \$344.69		ROSE VALLEY LONG POINT LN.	7	\$220.08
STREATMENTPLANT 233 8,773.77		ROSE VALLEY PS ON BROOKHAVEN RD.	10	\$442.46
CLEAN GRIT PIT/LOAD CONTAINER 44 \$1,395.20 EB-2 8 \$363.48 EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POPCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS 313 9,714.32 CLEAN SM GARAGE 11 \$344.69		SEAPORT DRIVE	2	\$48.89
EB-2 EMERGENCY CALL IN EMERGENCY CALL IN 8 \$363.48 POCOPSON RIVERSIDE WWTP 7 \$220.08 POPCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 T-16 THE BEAST THE BEAST THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS CLEAN SM GARAGE 11 \$344.69	STREATMENTPLANT		233	8,773.77
EMERGENCY CALL IN EMERGENCY CALL IN POCOPSON RIVERSIDE WWTP POCOPSON PRESERVE WWTP POPCOPSON PRESERVE WWTP PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 T-4 THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$344.69 TO A 10 A 1		CLEAN GRIT PIT/LOAD CONTAINER	44	\$1,395.20
POCOPSON RIVERSIDE WWTP POPCOPSON PRESERVE WWTP 8 \$251.52 PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 1-15 2 \$62.39 1-4 11 \$220.08 THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$344.69		EB-2	8	\$363.48
POPCOPSON PRESERVE WWTP PRIMARY SCUM PIT 15 \$471.60 PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$344.69		EMERGENCY CALL IN	8	\$363.48
PRIMARY SCUM PIT PS-6 25 \$771.20 SLUDGE RECEIVING SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$344.69		POCOPSON RIVERSIDE WWTP	7	\$220.08
PS-6 25 \$771.20 SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS 313 9,714.32 CLEAN SM GARAGE 11 \$344.69		POPCOPSON PRESERVE WWTP	8	\$251.52
SLUDGE RECEIVING 13 \$549.22 SLUDGE TRAILER SWITCH OUT 61 \$2,785.14 T-15 2 \$62.39 T-4 11 \$220.08 THE BEAST 24 \$1,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS CLEAN SM GARAGE 11 11 \$344.69		PRIMARY SCUM PIT	15	\$471.60
SLUDGE TRAILER SWITCH OUT T-15 T-4 THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$32,785.14 \$2,785.14 \$2,295.39 \$42.39 \$11 \$220.08 \$1,068.86 \$251.52		PS-6	25	\$771.20
T-15 T-4 11 \$220.08 THE BEAST THORNBURY TREATMENT PLANT 2 \$62.39 11 \$220.08 11 \$220.08 51,068.86 THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS 11 \$344.69		SLUDGE RECEIVING	13	\$549.22
T-4 THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$220.08 \$1,068.86 \$251.52 12 \$1,068.86 13 \$251.52		SLUDGE TRAILER SWITCH OUT	61	\$2,785.14
THE BEAST THORNBURY TREATMENT PLANT SVARIOUS CLEAN SM GARAGE 11 \$344.69		T-15	2	\$62.39
THORNBURY TREATMENT PLANT 8 \$251.52 SVARIOUS CLEAN SM GARAGE 11 \$344.69		T-4	11	\$220.08
SVARIOUS 313 9,714.32 CLEAN SM GARAGE 11 \$344.69		THE BEAST	24	\$1,068.86
CLEAN SM GARAGE 11 \$344.69		THORNBURY TREATMENT PLANT	8	\$251.52
40 400 00	SVARIOUS		313	9,714.32
ENGINEERING SUPPORT 80 \$2,423.20		CLEAN SM GARAGE	11	\$344.69
		ENGINEERING SUPPORT	80	\$2,423.20

Asset Type	Work Order Type	Labor Hours	Labor Cost
	EQUIPMENT MALFUNCTIONS AND REPAIRS	58	\$1,814.80
	MISCELANEOUS	76	\$2,362.52
	PARTS /TOOLS/ EQUIPMENT PROCUREMENT	23	\$715.41
	TRAFFIC CONTROL	15	\$488.85
	VEHICLE INSPECTON	50	\$1,564.86
	Grand Total:	1,748	\$60,176.40



INTER-OFFICE MEMORANDUM

TO: Robert J. Willert, Executive Director

FROM: Charles N. Hurst, Director of Engineering

SUBJECT: Board Report for the July 14, 2020 O&E Committee Meeting

DATE: July 10, 2020

CONSTRUCTION PROJECTS

1. INCINERATOR MAINTENANCE AND EMERGENCY REPAIRS (#TC-1801-C)

Funding: Capital Design: In-House Inspection: In-House

Contractor: Industrial Furnace Company, Inc.

Contract Amount: \$686,750.00

Percentage Paid: 88.18% - through previous month

Notice of Award: 03/20/2018 Notice to Proceed: 04/04/2018 Substantial Completion: 03/31/2020 Final Completion: 05/30/2020

2. PS-6 CONSTRUCTION, PHASE I (#TC-1707-C)

Funding: Capital

Design: Gannett Fleming

Inspection: In-house

Electrical (Part D): Philips Brothers Electrical

Contract Amount: \$4,140,900.00

Notice of Award: 01/23/2017 Notice to Proceed: 05/30/2017 Substantial Completion: 09/21/2018

Final Completion: 11/21/2018 (Part D Final Completion 1/29/2021)

Board Report for July 14, 2020 July 10, 2020 page 2 of 11

Construction is complete. General, Plumbing and HVAC contracts are closed out. Fiber Communication work remains prior to initiating the close-out process for Contract Part D Electrical. Change Order #1 was approved by the BOD for an extension in contract time to accommodate the remaining Fiber Communication work.

3. SOLIDS HANDLING UPGRADE 2016 (#TC-1608-C)

Funding: Capital

Design: GHD & Weston

Inspection: In-house

General (Part A): Allan Myers.
Contract Amount: \$6,495,555.00

Percentage Paid: 99.69% - through previous month – FINAL

Electrical (Part B): Philips Brothers Electric

Contract Amount: \$1,833,200.00

Percentage Paid: 95% - through previous month

Notice of Award: 10/17/2017 Notice to Proceed: 12/04/2017 Substantial Completion: 01/03/2019 Final Completion: 02/01/2019

The contractors have completed preparing their as-built drawings and they have been turned over to the Design Engineer for integration into the project drawings. The close out process has been completed for Contract A. Change Order to extend the project time prior to close out was approved last month. Closeout documents have been received and approval for closeout is included on this month's agenda.

4. WRTP Plant Upgrades (#TC-1717-C)

Funding: Capital

Design: D'Huy Engineering, Inc. & Gannett Fleming

Inspection: D'Huy Engineering, Inc.

General (Part A): Allan Myers.
Contract Amount: \$14,905,555.00

Percentage Paid: 93.21% - through previous month

Electrical (Part B): Philips Brothers Electric

Contract Amount: \$6,220,777.00

Percentage Paid: 88.50% - through previous month

Board Report for July 14, 2020 July 10, 2020 page 3 of 11

Notice of Award: 05/17/2018 Notice to Proceed: 06/04/2018 Substantial Completion: 12/25/2020 Final Completion: 02/23/2021

Allan Myers has completed the installation of Lakeside #2 and installed the thickened waste activated sludge piping within EB-2 and between EB-2 and B-4. They installed the safety items for the work on the vac truck garage and begun stripping it as well as installing plywood. They have realigned equipment in T-15. Philips Brothers is nearing completion of work at the aeration tanks and worked on the integration in PS-3 and PS-4 with OCC. They have also completed all wiring for the Lakeside #2.

MARCUS HOOK PUMP STATION & CHESTER RIDLEY CREEK PUMP STATION ELECTRICAL UPGRADES (#PR-1804-C)

Funding: Capital Design: In-House Inspection: In-House

Contractor: Philips Brothers Electrical Contractors, Inc.

Contract Amount: \$789,127.00

Percentage Paid: 69.58% - through previous month

Notice of Award: 09/19/2018 Notice to Proceed: 10/15/2018 Substantial Completion: 03/14/2019

Final Completion: 05/03/2019 - Maintenance Alternate: 10/31/2020

Philips Brothers continues to complete maintenance projects at various locations. Philips Brothers completed the replacement of two electrical poles and the 15kV feeder from the pole to the high voltage switch at Muck Pump Station. They removed pump motors are Chester pump station and performed some wire/conduit modifications. They removed a vibrating motor from Darby Creek Pump Station so it could have bearing work performed on it. Additionally, Philips Brothers responded to a call out to Pocopson to investigate motors tripping out during ATS transfers. They identified loose screws in the ATS, fixed the issue and replaced the ATS controller. Philips Brothers assisted with installing conduits between the Pocopson Preserve Pump Station and the lagoons with 3 quazite boxes and installed a receptacle to temporarily feed an outlet for the upgraded aeration system. Philips Brothers also removed and replaced a VFD at Darby Creek Pump Station including the servicing of the VFD motor.

Board Report for July 14, 2020 July 10, 2020 page 4 of 11

6. HVAC ENERGY SAVINGS UPGRADE (#TC-1716-C)

Funding: Capital Design: In-House Inspection: In-House

Contractor: CM3 Building Solutions

Contract Amount: \$6,134,716.00

Percentage Paid: 74.09% - through previous month

Notice of Award: 9/13/2017 Notice to Proceed: 9/13/2017

Phase 2 work continues. All roof fans in PS-3 and PS-4 installed; gravity and mechanical louvers are scheduled to be installed week of July 6. B-4 work continues curbing and structural reinforcement for air handlers and new fans is complete. B-3 air quality improvement project recommendations are complete. Scheduled start date to be determined.

7. SEWER MAINTENANCE (#SEW-1905-CO)

Funding: Capital Design: In-House Inspection: In-House

Contractor: A. J. Jurich, Inc. Contract Amount: \$1,141,981.00

Percentage Paid: 56.90% - through previous month

Notice of Award: 06/19/2019 Notice to Proceed: 07/16/2019 Final Completion: 08/31/2020

June maintenance work included:

- Pump replacement at Chester Pump Station
- Sewer Pipe and Manhole installation at 15th and Arbor
- Endimal Tank installation at WRTP
- Hot tap and replacement of Air Relief Valve 55 on Rt. 291

8. PAVING RESTORATION SERVICES – ANNUAL (#SEW-1902-CO)

Funding: Capital Design: In-House Inspection: In-House

Contractor: A. F. Damon, Inc.

Board Report for July 14, 2020 July 10, 2020 page 5 of 11

Contract Amount: \$959,742.50 – 2 Year Contract Percentage Paid: 65.43% - through previous month

Notice of Award: 11/20/2018 Notice to Proceed: 02/01/2019 Substantial Completion: 01/31/2021 Final Completion: 02/28/2021

9. WRTP SUBSTATION NO. 2 REPLACEMENT (#TC-1904-C)

Funding: Capital Design: In-House Inspection: In-House

Contractor: Philips Brothers Electrical

Contract Amount: \$1,442,777.00

Percentage Paid: 70.30% - through previous month

Notice of Award: 04/16/2019 Notice to Proceed: 05/10/2019 Substantial Completion: 12/11/2021 Final Completion: 01/29/2021

Substation in service and online. SCADA fiber is completely pulled and tested, and ready for service. Turned over to Automation. Press room MCC and conduit work in scheduling phase.

SPRINGHILL FARM WWTF PUMP STATION AND SANITARY FORCE MAIN PROJECT (#PFR-1903-C – RE-BID) - CONTRACT 1: GENERAL CONSTRUCTION

Funding: Capital

Design: Entech Engineering, Inc.

Inspection: In-House

Contractor: A. J. Jurich, Inc. Contract Amount: \$480,304.00

Percentage Paid: 0% - through previous month

Notice of Award: 12/17/2019 Notice to Proceed: 02/12/2020 Substantial Completion: 10/09/2020 Final Completion: 11/09/2020

PADEP WQM Permit was received. Contractor in procurement phase. Pettinaro has started work on the adjacent force main project on May 19, 2020. DELCORA has requested a revised schedule from the contractor. Pettinaro contractor is drilling into rock and is behind schedule.

Board Report for July 14, 2020 July 10, 2020 page 6 of 11

Contractor has excavated test pits and found that the electric service to the WWTF conflicts with the wet well. Will coordinate with electrical contractor to temporarily support the primary service.

11. SPRINGHILL FARM WWTF PUMP STATION AND SANITARY FORCE MAIN PROJECT (#PFR-1903-C- RE-BID) - CONTRACT 2: ELECTRICAL/SCADA CONSTRUCTION

Funding: Capital

Design: Entech Engineering, Inc.

Inspection: In-House

Contractor: AJM Electric, Inc. Contract Amount: \$198,543.00

Percentage Paid: 0% - through previous month

Notice of Award: 12/17/2019 Notice to Proceed: 02/12/2020 Substantial Completion: 10/09/2020 Final Completion: 11/09/2020

PADEP WQM Permit was received. Contractor has installed the SCADA panel and cable trough. Conduits are run through the attic and connect exterior with panels in new control room.

12. INCINERATOR MAINTENANCE AND EMERGENCY REPAIRS (#TC-2001-C)

Funding: Capital Design: In-House Inspection: In-House

Contractor: Industrial Furnace Company, Inc.

Contract Amount: \$686,750.00

Percentage Paid: 0% - through previous month

Notice of Award: 04/22/2020 Notice to Proceed: 05/05/2020 Substantial Completion: 03/31/2022 Final Completion: 05/30/2022

In each of the incinerators, IFCO conducted full inspections, de-slagged and cleaned them out, and replaced the hearth 2D and both hearth 5 burners with new burners. They also identified two worn thermocouples in hearth 2 of incinerator 1 and ordered their replacements.

DESIGN

CSO LONG TERM CONTROL PLAN UPDATE

The LTCP Semi-Annual Report No. 9 was submitted on December 30, 2019. On January 30, 2020, the USEPA issued a letter to respond to the LTCP Update that was submitted to USEPA on February 12, 2019. The letter identified 11 deficiencies and requested additional information in 11 other areas. The letter included an offer to meet to discuss items. DELCORA has requested this meeting and anticipates it will occur within a couple weeks.

2. ESA ALTERNATIVES

In response to escalated costs for the treatment of the Eastern Service Area (ESA) flow at Philadelphia's Southwest Water Pollution Control Plant, DELCORA determined that it will redirect its flow away from Philadelphia and instead send it to WRTP. A team of consultants to complete the design has been hired. The initial stages of design are underway as detailed on a Design Contract basis below. At the program level, HDR is leading permitting efforts to coordinate the Design Contract firms for a meeting with the Army Corps of Engineers regarding programwide permitting. Gannett Fleming completed the drilling of 5 test borings at DELCORA facilities to inform design in May and have compiled their report including lab testing results to inform design. In March, DELCORA and Aqua leadership met by virtual meeting to discuss the status of the project and review alternatives that were identified during the value engineering phase of the project.

- A. Pipeline Contract 1 Segments 1 and 2 (D19-01) AECOM has submitted Opinions of Probable Cost for Pipeline Segments 1 and 2 and for the tunnel option. Consultant is meeting with Engineering and ESA Program Consultants to define limits and design roles for 10% Design of Tunnel Option.
- B. Pipeline Contract 2 Segments 3 and 4 (D19-02) Mott MacDonald has submitted Opinions of Probable Cost for Pipeline Segments 3 and 4 and for the tunnel option. Consultant is meeting with Engineering and ESA Program Consultants to define limits and design roles for 10% Design of Tunnel Option.
- C. Pump Station Upgrades and Equalization Basin Design Contract (D19-03): Detailed Condition Assessments including lidar scanning and hazardous material testing were conducted at remote pump stations to inform design. HDR submitted their Condition Assessment report and Code Compliance Review technical memo to DELCORA for review last month. With the assistance of DCJA, HDR completed a walkthrough of the Darby Creek Joint Authority site adjacent to Darby Creek Pump Station to complete a Phase I site assessment to review available environmental information, required before any acquisition of land if deemed necessary to meet design needs of the ESA Program. Final Asset Condition and

Board Report for July 14, 2020 July 10, 2020 page 8 of 11

Replacement Recommendation Report were delivered and are under review by the Engineering Department. HDR submitted An Opinion of Probable Cost regarding portions of conveyance design options developed during the VE last month. A field visit to the eastern pump stations was completed last month for the purposes of informing environmental permitting and survey work to support design.

- D. Western Regional Treatment Plant Expansion & WBTT Upgrades Design Contract (D19-04): Kleinfelder is proceeding with pre-selection of the high-rate biological wet weather treatment system equipment and are preparing an evaluation of the options. Kleinfelder has performed preliminary analyses of the results from all five wet weather sampling events and the potential of accepting flow from Upper Darby. They provided updated cost estimates for the upgrades to the main process at WRTP and continue to prepare a technical memorandum regarding incorporation of the value engineering results. They also conducted the preliminary wetland delineation survey of the area planned for the wet-weather biological treatment process.
- 3. CSO #5 PARTIAL SEPARATION TOWNSEND STREET 48" COMBINED SEWER SEPARATION PROJECT

Engineer: Remington & Vernick Engineers

Design Project Kick-off Meeting: March 28, 2019

This project is a component of the LTCP Update. The engineer has submitted a Design Schedule projecting that the design will be prepared for construction bidding in April 2020. Project will not be finalized by April 2020.

Plans are now about 90% complete. Utility companies are being contacted regarding conflict resolutions and relocations. RVE is preparing to submit to PennDOT for plan approval. SAC's design consultants, HDR, Inc. and AKRF, Inc. have met virtually with DELCORA engineering and RVE, and they understand the required effluent conditions out of Memorial Park and are incorporating them into their own H&H study – a copy of which will be provided to DELCORA.

4. CRUM CREEK PUMP STATION BYPASS FORCE MAIN - FINAL DESIGN

Engineer: Gannett Fleming, Inc.

Gannett Fleming and ERM are engaged in acquiring permission to access properties to continue design work. At this time, three of the five property owners have granted permission to enter their properties to survey. ERM has applied to PECO to the install force main through their easement. Engineer has surveyed and conducted SUE Level A and Geotechnical Investigation along north end of project (Crum Creek Pump Station to Amtrak. ERM has begun negotiations with Boeing for access. DELCORA has continued conversations with Boeing to acquire easement. Gannett Fleming has submitted to PADEP for WQM Part II permit on April 30th. Permit plans will include LIDAR survey in lieu of onsite survey due to COVID-19

Board Report for July 14, 2020 July 10, 2020 page 9 of 11

and Boeing access licensing. ERM has been negotiating with AMTRAK for the access to survey and ultimately for the permanent easement required. The agreement for survey access has been returned for revision.

5. BOROUGH OF UPLAND SEWER UPGRADE – CHURCH AND TENTH STREETS

Engineer: Catania Engineering Associates, Inc. (CEA)

This project is a component of the LTCP Update. Sewers have been televised and conditions reported to CEA. Exploration of the existing box culvert has shown that it crosses the sanitary sewer on a long skew. Plans will have to include a 50' storm sewer re-route and partial demolition, abandonment of the box culvert. CEA has surveyed the project site and is preparing plans.

6. WRTP - LOWER DELAWARE RIVER IMPROVEMENTS

Engineer: Gannett Fleming, Inc. (GF)

Gannett Fleming has completed a review of the Seaport Drive DRI Relief Pump Station and submitted a final report on its operation. GF has completed design of a section of 48" interceptor pipe from PS-6 to the ending manholes of the Delaware River Interceptor (DRI) and West End Interceptor (WEI). The plan is to remove a 1.4' step in the last manhole of the DRI and to remove a hydraulically inefficient crossing and connection of the two interceptors. This improvement will result in more efficient flows in the DRI, WEI and PRF pipes reducing dry weather and wet weather hydraulic issues. These improvements are required to facilitate the flow increases projected in the Long-Term Control Plan Update (LTCPU). DELCORA received the WQM Part II Permit No.2320401 on May 8, 2020. Contractor is proceeding with survey and procurement of materials. Contractor, Allan Myers has started construction – utility locates and excavation.

PRETREATMENT/LABORATORY

1. RULES & REGULATIONS, LOCAL LIMITS DEVELOPMENT, ENFORCEMENT RESPONSE PLAN, & STREAMLINING

No updates at this time.

- 2. PERMIT ISSUES
- 2. PERMIT ISSUES

The following draft permit was issued in the month of June:

First Time US Generics

The following final permit was issued in the month of June:

Board Report for July 14, 2020 July 10, 2020 page 10 of 11

Quotient Sciences

The following Industrial Users were issued a Notice of Violation in the month of June:

- Esschem
- Kimberly-Clark
- Eldredge

3. INDUSTRIAL USER SAMPLING AND INSPECTIONS

The following Industrial Users were sampled in the month of June:

- Gloucester County Improvement Authority
- MultiFlex Plating
- Sunoco Logistics DCTF
- Choice Party Linens (2)
- Olympic Tool
- Cintas
- Esschem
- Liberty Electric
- Pyromet
- Polyurethane Specialties
- Alloy Surfaces
- WAWA Dairy
- M Cohen & Sons
- Kimberly-Clark

No Industrial Users were inspected in the month of June.

4. MISCELLANEOUS

The following were sampled during the month of June:

- Monthly Plant Sampling
- Weekly Sludge Metals
- Weekly Remotes
- Daily FOG Samples
- Hauled Waste Metals
- Bimonthly Nutrient Testing

All were sent to the contract laboratories for analysis.

REGULATORY FILINGS/ISSUES

• DRBC – Letter sent on February 12, 2018 addressing DRBC's concerns about the acceptance of "out of basin" wastewater and the request for increased BOD and TDS waste load allocations.

Board Report for July 14, 2020 July 10, 2020 page 11 of 11

- Met with DRBC on June 25, 2018 to discuss DRBC's ongoing impact on DELCORA's operations.
- Title V Permit was received December 21, 2018 Effective December 17, 2018
 Expires December 17, 2023.
- DRBC Docket Modification for an increased cBOD20/cBOD5 Waste Load Allocation was posted for Public Comment on February 13, 2019.
- 2019 Chapter 94 Report for the Western Service Area was submitted to the PADEP via email link on April 28, 2020 (due to COVID-19 pandemic).
- WETT Report for the 2nd Quarter 2020 was submitted to PADEP on June 3, 2020.
- 2019 Annual Residual Waste Report was filled on June 24th 2020.

CNH:mc

cc: (via email)

M. DiSantis

J. Pileggi

C. Lenton

I. Fitzgerald

S. Labrum

J. Centrone

D. Dutton

M. Sweeney

J. Yochim

T. Diewald

File



Weston Solutions, Inc. 1400 Weston Way West Chester, PA 19380 610-701-3000 • Fax 610-701-3401 www.westonsolutions.com

8 July 2020

Mr. Robert Willert Executive Director DELCORA 100 East Fifth Street P.O. Box 999 Chester, PA 19016

W.O. No. 05623.035.001.0001

RE: Summary of Activities for June 2020

Dear Mr. Willert:

The progress on current Weston Solutions, Inc. (WESTON®) authorized project assignments for DELCORA is summarized below.

ANNUAL SWMM MODELING

Proposal No.: 133462

WESTON WO No.: 05623.034.006 Start Date: August 2019 End Date: December 2020

Percent Complete: 56%

This project is for completion of monthly SWMM model runs and for submission of month-end reports and a year-end letter report for DELCORA's use and reference in the annual Chapter 94 Report. DELCORA's NPDES permit for the WRTP requires that information of the volume and duration of discharges from the Combined Sewer Overflows be reported monthly. PADEP accepts discharge information from a calibrated numerical model in lieu of measured flows. WESTON utilized the calibrated SWMM model created for the LTCP Revision.

During the month of June, WESTON simulated precipitation events for May and reported simulation results to DELCORA. The simulation is based on precipitation recorded on the rain gauge located at the WRTP. During the month of May, DELCORA experienced a total of 1.92 inches of precipitation over 10 separate days. This resulted in roughly 0 to 11 CSO overflow daily events per outfall depending on the sensitivity to rainfall. During small precipitation events, some outfalls with small drainage areas do not overflow, while other outfalls with large drainage areas overflow frequently. The results of the simulation are loaded into a PADEP form that is included in DELCORA's monthly DMR submission for the WRTP.



METERING PROGRAM

Proposal No.: 137102

WESTON WO No.: 05623.034.003 Start Date: March 19, 2019

End Date: Open Percent Complete: 60%

This project is to assist DELCORA in implementation of the Delaware County Metering Program. This program was initiated in 2005 to provide more accurate distribution of sewage flows to contributing communities in Delaware County. The program maintains and collects data from 122 flow meters deployed in sewers and incorporates data from 12 meters at pump stations. The sewer meters capture approximately 75% of the flow discharged. The remaining unmetered areas did not have a capture point that would provide reliable and repeatable data so they are estimated based on EDU counts for the unmetered areas. The unmetered areas are estimated using the EDU count for that area and the flow per EDU for the metered areas in the same municipality.

During the month of June, WESTON received the sewer flow meter data from DELCORA's flow metering contractor and pump station data from DELCORA staff. The data was loaded summary flow data for May to the apportionment spreadsheets and reviewed for any potential discrepancies. WESTON also updated the county-wide summary spreadsheets, the eastern authorities' summary spreadsheets, and summary spreadsheets for select municipalities for 2020. The monthly report and spreadsheets were submitted to DELCORA.

FORCE MAIN TEST COUPONS and ARV REPAIR

Proposal No.: 137483

WESTON WO No.: 05623.034.004 Start Date: June 2019 End Date: December 2019

Percent Complete: 54%

The scope of services for this project include preparation of contract documents to obtain pipe coupons from the Eastern Force Main. The pipe coupons will be analyzed to determine the condition of the force main. The project also includes preparation of contract documents to clean and repair the ARV's located on the Central Bypass and Eastern Force Mains.

WESTON has completed the Project Kick-Off Data Collection and the Field Investigation phases of the work. Follow-up field investigation will be required at a few ARV locations to further verify the existing design information with the existing conditions. WESTON is currently working on the Phase III Detailed Design scope of work.



In October, WESTON completed the design for one of the ARV locations, ARV-55, located on the Central By-Pass Force Main. Since this location does not have an existing ARV and it is located at a critical spot (creek crossing) along the force main the team decided to design and construct this ARV first. The results of this installation will be used to determine the improvements to the force main and the information will be implemented in the final design for the remaining locations. In December WESTON submitted an application to PennDOT for a Road Opening Permit. The permit approval was received on January 7, 2020; construction of the ARV will start when all material has been received. WESTON had no activity on this project during the month of June.

GENERAL ENGINEERING SUPPORT

Proposal No.: 37717

WESTON WO No.: 05623.021.107 Start Date: March 21, 2006

End Date: Open Percent Complete: 96%

This project, a continuation of the previous "General Engineering" project, provides on-demand support to DELCORA for various services at the direction and approval of the Executive Director.

WESTON had no activity on this project during the month of June.

CENTRAL FORCE MAIN AND CHESTER FORCE MAIN EVALUATION

Proposal No.: 133118

WESTON WO No.: 05623.033.004 Start Date: July 2016 End Date: Open Percent Complete: 75%

This project is to perform an engineering evaluation of the Central and Chester force mains to determine design parameters for sizing the future Crum Creek Pump Station equipment. The ultimate goal of the project is to determine how DELCORA can pump more flow from the CDPS to the Western Regional Treatment Plant (WRTP).

WESTON prepared and conducted modeling to evaluate the flow characteristics of both the Central By-Pass and the Chester force mains. The model took into account flow, pump discharge pressure, static conditions, pipe material, and pipe length and diameter. Flow conditions for the two force mains as well as the Kimberly Clark Pump Station and the total influent flow to the WRTP was also incorporated into the evaluation.



WESTON ran several model scenarios for both dry weather and storm conditions. The modeling was conducted during 2018 and 2019 and approximately 20 scenarios were evaluated. Each scenario was run over a period of several hours and real time operating data from DELCORA's E-Ops was input into each model run. The results of each model scenario were consistent and showed that the performance of the Chester force main was very good and in line

After the first several model runs, WESTON and DELCORA staff performed a site assessment of the ARV locations. Where possible, the ARV's were cleaned, tested, and put back into service. Several of the locations could not be inspected due to faulty isolation valves. After this inspection additional model runs were conducted and the results were similar previous model results.

WESTON met with DELCORA and discussed conducting additional field investigations and modifications to existing air release valve location. After further investigation it was decided to prepare contract documents to repair isolation valves, clean ARV's, and install new ARV's at locations where valves are missing. This work will be conducted under a separate project. WESTON had no activity on this project during the month of June.

FORCE MAIN TRANSIENT ANALYSIS

Proposal No.: 132758

WESTON WO No.: 05623.032.007 Start Date: October 15, 2017 End Date: December 2018

Percent Complete: 90%

The scope of services for this project includes preparation of a transient analysis of the Eastern Force Main and Chester Force Main. The goal is to determine a maximum flow value from the CDPS to the WRTP without increasing the risk of a pressure surge.

DELCORA and WESTON met and reviewed the preliminary results of the analysis. The main pump stations were modeled for two scenarios and results indicate that additional vacuum relief valves are required on the force mains. WESTON completed the model for additional scenarios and submitted the draft report. During the month of August, WESTON and DELCORA discussed additional analysis associated with the project. The additional work will be a part of the Crum Creek Force Main project. The transient analysis that was part of another contract (Crum Creek Force Main) has been completed. The results indicated that there was no additional impact to the Chester and Eastern By-Pass Force Mains. WESTON has submitted a proposal to incorporate the recommendations included in the initial evaluation. WESTON had no activity on this project during the month of June.



WRTP AS-BUILT PLAN

Proposal No.: 133118

WESTON WO No.: 05623.032.006 Start Date: October 18, 2017

End Date: Open Percent Complete: 97%

The scope of services for this project is to prepare a composite as-built plan of the WRTP in AutoCAD format that include both original plant information as well as new features added in recent years to document the existing site conditions specifically the underground utilities. The drawings are being prepared to facilitate a conversion to GIS for some of the features. WESTON had no activity on this project during the month of June.

<u>UTILITY WATER SYSTEM REPLACEMENT BID & CONSTRUCTION PHASE</u> SERVICES

Proposal No.: 127597

WESTON WO No.: 05623.031.003 Start Date: January 2016

End Date: Open Percent Complete: 98%

This project is to provide bid support services and construction phase services relating to the Utility Water System Upgrade project at the WRTP. The existing system is at the end of its life and the system is critical to treatment operations. Bids were received on March 7, 2016.

WESTON had no activity for this project during the month of June. The construction has been completed and the remaining effort includes preparation of the record drawings after receipt of contractor marked-up drawings.

Should you have any questions, please do not hesitate to contact me at (610) 701-3706.

Very truly yours,

WESTON SOLUTIONS, INC.

Roger W. Lehman, P.E.

Technical/Project Manager

cc: DELCORA Board of Directors

C. Hurst, DELCORA