

MINUTES

CITY COUNCIL PUBLIC WORKS AND UTILITIES COMMITTEE

Monday, August 4, 2015 – 5:30 PM

The City Council Public Works and Utilities Committee held their Organizational Meeting on Tuesday, August 4, 2015, at 5:30 p.m. in the City Hall Council Chamber Room with Mayor Pro Tem Mac Morrow presiding.

Present: Mayor Pro Tem Mac Morrow, Council Member Maurice Jones, Mayor Jimmy Harris ex officio, Interim City Manager Jim Fatland, Public Works Director David Lutz, Wastewater Treatment Plant OCR Emory Owen, and Water Plant OCR Dennis Richardson.

Absent: Clay Sykes, Citizen

Press Present: Derek McKissock, Transylvania Times

Others Present: Mr. Harlow Brown and Mr. Jeffrey Brown, Brown Consultants, PA; Mr. Ray McCall, Consultant; and Mr. Brian Tuttle, Oskar Blues.

A. Mayor Pro Tem Morrow called the meeting to order at 5:30 PM. Agenda was accepted as presented.

B. Membership:

Organizational meeting membership consisted of Mayor Pro Tem Mac Morrow, Council Member Maurice Jones, Mayor Jimmy Harris ex officio, Interim City Manager and Finance Director Jim Fatland, Public Works Director David Lutz, Wastewater Treatment Plant OCR Emory Owen, and Water Plant OCR Dennis Richardson.

C. Meeting Minutes:

Motion was made by Mr. Jones to approve minutes from April 27, 2015, seconded by Mr. Lutz. Motion carried.

D. Update on Water Treatment Plant Operation & Maintenance:

Mr. McCall presented a power point presentation to the committee. Some facts about the water plant: it was first constructed in 1979, and has had no main building repairs or rehabilitation since then. The plant averages 1.1 million gallons a day, and pumps over 136 billion gallons of water to the City of Brevard. The challenges that the building faces is that it needs modernization and a new face lift. Mr. McCall points out that the committee needs to determine at another time source water capability, whether to expand or replace the plant in the near future, and growth impact and how that affects the source. Another project that needs to be discussed further, and should be made a priority is installation of a secondary intake.

The projects that were on the discussion table were the control building inside and outside, and finish and raw water building. The tasks to be considered include: removing existing mortar and

replace with new mortar, exterior paint, replacement of lighting, re-roof both the finish and raw water building, replace sodium bicarbonate doors, re-paint filter gallery walls, repair outside basin walls, other concrete work on clear well, and a storage building/workshop. ***See Exhibit A for the project guide list.***

Mr. Jones asked if the dimension of the new storage building will be adequate, and if they were putting it where the current one is, and Mr. Richardson said that the new storage will be placed near the gate, and they will move the current smaller storage closer to the new building. Mayor Harris suggested that they re-think the dimension, and to build a larger one for additional growth.

Mr. McCall stated that there have been improvements made in the past to the water building such as the installation of a new flow meter, new peristaltic feed pumps, new submerge intake, and a new roof on the control building.

Mr. McCall concluded by saying that the plant has a 2.6 million gallons capacity, and the citizens of Brevard deserve a plant that they can be proud of. Goals for both Mr. McCall and Mr. Richardson include visitations for the citizens, and to host the Western Section Operator's meeting at the plant in June 2016.

Mr. Fatland reported that the City has \$416,144 in Capital Reserve Fund for the water department, and recommends that the committee move forward with all maintenance projects. Mr. Jones made a motion to approve, Mr. McCall seconded. Motion carried.

E. Update on Wastewater Treatment Plant Operations & Maintenance:

Mr. Fatland reiterated that they had been granted 120-days extension on a zero-percent loan for the amount of \$8,950,000 to go towards rehabilitation of the Waste Water Plant. After looking at the ground consultant's proposal, he suggested that the focus should be getting the plant to run more efficiently before making major capital improvements. Mr. Fatland is recommending the council to not accept the loan offer. Motion was seconded by Mr. Jones, motion carried.

The City had been issued several permit violation notices regarding the treatment of high-strength wastewater, and has reached an agreement with the state to correct the problem. Mr. Harlow Brown shared with the committee a chart (***Exhibit B***) that showed all the tests that they have done. The blue line represents the biochemical oxygen demand (BOD) results, the red line is suspended solids, bold black line is the trending line, and the bold red line at the 30 mg is the permit line.

Mr. Harlow introduced ***Exhibit C*** to the committee, with the focus being on items 1-15. Most of them could be handled by Mr. Lutz and his crew, such as re-installing baffles in rotating biological contractors (RBCs), lab modernization, and installation of new effluent composite sampler. Mr. Harlow pointed out that item 9 had a 28-week delivery for parts, but Mr. Owen had already ordered them. As for items 11-15, Mr. Harlow will get a price in the next few weeks, with items 11-13 being done by a contractor only.

Mr. Owen pointed out that he started to shut down half the RBCs last Friday in anticipation of the shafts being extracted. The process should be done by November for all the shafts to be replaced.

Mr. Fatland reported that the City has \$396,609 in Capital Reserve Fund for the Waste Water Treatment Plant. Mr. Jones motioned to approve items 1-10 as presented, as well as items 11-15 (upon getting firm quote). Mr. McCall seconded, motion carried.

Mayor Harris is happy that the committee has done its research, and is taking steps to repair and improve the state of both the water and wastewater treatment buildings to meet compliance standards for the State and for the citizens of Brevard.

Special thanks to Mr. Lutz and his crew for their time and effort on improvements to both the water and waste water buildings.

F. Next Committee Meeting:

The next committee meeting is set for September 8, 2015 at 5:30 p.m. in the City Hall Council Chamber Room.

G. Adjourn:

There being no further business, Mr. Jones made a motion to adjourn, and the Board voted unanimously to adjourn at 6:46 p.m.

S/ _____
Mac Morrow
Mayor Pro Tem & Chair

S/ _____
Chiffon Hwang
Recording Secretary

Minutes Approved: August 27, 2015

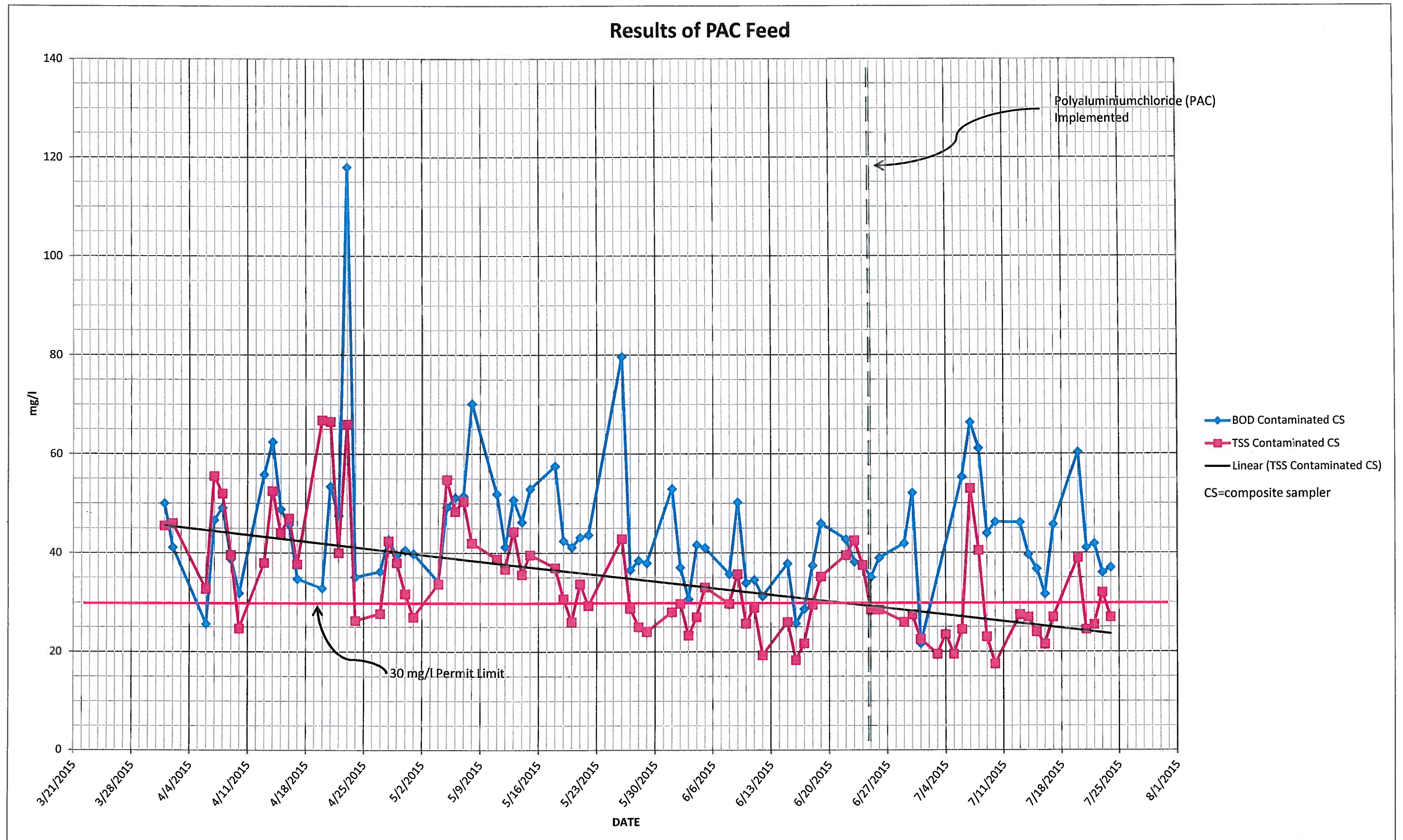
City of Brevard Water Treatment Plant Project Guide

<u>Status</u>	<u>Project</u>	<u>Who</u>	<u>Contractor</u>
Complete	RPZ Replacement	Wayne/Brett	
Complete	Pipe Gallery Painting	Ray/Dennis	CMT
Complete	Paint Fin Water Pumps	Ray/Dennis	CMT
Complete	Upgrade Plant Metering	Wayne/Brett	Car. Spec.
Complete	Replace Bulk Chem. Lines	Wayne/Brett	
*Est. Rec'd	Repair Sed. Basin Walls	Ray/Dennis	PureJet
*Est. Rec'd	Blast/Paint Filter Gallery Wall	Ray/Dennis	PureJet
*Est. Rec'd	Re-Joint Outside Blocks/Seal	Ray/Dennis	Car. Spec
*Est. Rec'd	Repair and Paint Control Bld.	Ray/Dennis	Car. Spec
*Est. Rec'd	Replace Acoustical Ceilings	Ray/Dennis	Car. Spec
*Est. Rec'd	Replace Lighting in Main Bld.	Ray/Dennis	Car. Spec
*Est. Rec'd	Replace Glass Storefront	Ray/Dennis	Car. Spec
*Est. Rec'd	Replace Damaged Doors	Ray/Dennis	Car. Spec
*Est. Rec'd	Re-roof Fin. Water Bldg.	Ray/Dennis	Car. Spec
*Est. Rec'd	Paint inside Fin. Bldg.	Ray/Dennis	Car. Spec
*Est. Rec'd	Re-Roof Raw Bldg.	Ray/Dennis	Car. Spec

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*Est. Rec'd	Paint inside Raw Bldg.	Ray/Dennis	Car. Spec
*Est. Rec'd	New Doors Bicarb/Paint	Ray/Dennis	Car. Spec
*Est. Rec'd	New lighting/Sludge Bldg.	Ray/Dennis	Car. Spec
*Est. Rec'd	New lighting/Fin. Bldg.	Ray/Dennis	Car. Spec.
*Est. Rec'd	New lighting Raw Bldg.	Ray/Dennis	Car. Spec.
*Est. Rec'd	New 24X30 Shop Bldg.	Dennis	Morton
_____	Intake Screen Compressor	Wayne/Brett	
Await Est.	Replace Backwash Pump	Ray	Heyward
_____	Replace Digital Filter Controls	Troy Dyer	
_____	SCADA Chemical Feed	Ray/Wayne	Instrallogic
_____	SCADA Raw Water	Ray/Wayne	
	\$151,957.00	Carolina Specialties Proposal	
	-18,855.00	Deduction Outside Basin Wall	
	<u>-4200.00</u>	Deduction Filter Wall	
	\$128,902.00		
	+5985.00	PureJet Est.-Basin Wall	
	<u>+2280.00</u>	PureJet Est.-Filter Gallery Wall	
	\$137,167.00		
	<u>35,499.00</u>	Morton Storage and Workshop	
	\$172,666.00	Total Projects Proposed	

Note: Projects with * are included in current above cost estimates.



Brevard WWTP-Short Term Operation and Maintenance Recommendations - 8/4/2015			
Item	Location & Description	Work By	Lump Sum Cost Estimate
<u>Work by PO</u>			
1	Move influent sampler to influent flow at static screens	WWTP Staff	N/A
2	Add VFD controls to motor that drives the Vortex Grit Remover	CSC	\$2,860.00
3	Re - install baffles in RBC	Completed	\$800.00
4	Replace RBC'S	Under Contract - AR	\$120,000.00
5	Replace airline around RBC with 8" main to tee, 2- 6" GV at tee, 6" line from tee to 4" at the RBC	CSC	\$31,185.00
6	Lower effluent discharge weir and attached stainless steel weir (\$500 allowance to re-calibrate flow meter)	CSC	\$25,500.00
7	Clean and Level Clarifier weirs and scum baffle	CSC	\$10,000.00
8	Lab modernization - 7 new T8 lights, new ceiling tiles, one new counter top, Emory's office insulate above ceiling and install mini split - HVAC	CSC	\$10,000.00
9	Replace Clarifier Bearings (28 weeks for delivery on bearings)	Chuck Gross	\$20,000.00
10	Install new effluent composi sampler directly over the outfall	WWTP Staff	\$7,500.00
	Subtotal		\$227,845.00
<u>Work by Bid - Short Term</u>			
11	Install duplex blower for aeration of RBC influent trough (allowance)	Estimate	\$35,000.00
12	Install submersible pump in chlorine contact chamber discharging to sludge pump wet well (ballpark price)	Estimate	\$45,000.00
13	Install new sludge suction lift pump station with VFD motor controls Gorman - Rupp (Ball park price)	Estimate	\$95,000.00
14	Allowance to empty sludge digester and install new air diffuses and airline if needed	Estimate	\$25,000.00
15	Install shed over step screen with two manual operated doors	Estimate	\$25,000.00
	Subtotal		\$225,000.00
	Total Short Term		\$452,845.00
<u>Work by Bid - Long Term</u>			
16	Clean and paint Clarifier	Estimate	\$108,000.00
17	Install 6" water main with RPZ and hot box, laterals will be 2" to 3 buildings six 2" hydrants, 2 fire hydrants	Estimate	\$125,000.00
18	2" overlay plus pave area from Generator around between RBC & main building, parking area south of main parking	Estimate	\$60,000.00
19	Other Items to be identified in final report due to the state by 9/30/2015		N/A
	Subtotal for Long Term		\$293,000.00
NOTE:	CSC = Carolina Specialties Construction AR = American Recovery		