

RESOLUTION 23-118

A RESOLUTION OF THE CITY OF PANAMA CITY BEACH, FLORIDA, APPROVING CHANGE ORDER #1 TO THE CITY'S AGREEMENT WITH ODYSSEY MANUFACTURING COMPANY, INC. FOR THE WASTEWATER TREATMENT PLANT IMPROVEMENT PROJECT IN THE NET AMOUNT OF \$20,067.66 AND AUTHORIZING THE USE OF OWNER-PURCHASED MATERIALS TAX SAVINGS IN THE AMOUNT OF \$32,974.94 TO FUND THE REMAINDER OF THE CHANGE IN THE CONTRACT PRICE.

BE IT RESOLVED that:

1. The appropriate officers of the City are authorized to accept and deliver on behalf of the City that certain Change Order No. 1 to the City's Agreement with Odyssey Manufacturing Company, Inc., relating to a change in the Wastewater Treatment Plant Improvements Project, in the net amount of Twenty Thousand, Sixty-Seven Dollars and Sixty-Six Cents (\$20,067.66), in substantially the form **attached** and presented to the Council today, with such changes, insertions or omissions as may be approved by the City Manager and whose execution shall be conclusive evidence of such approval.
2. The City Manager is authorized to utilize savings from the City's purchase of tax-free materials in the amount of Thirty-Two Thousand, Nine Hundred Seventy-Four and Ninety-Four Cents (\$32,974.94) to fund a portion of that certain Change Order No. 1 to the City's Agreement with Odyssey Manufacturing Company, Inc., relating to a change in the Wastewater Treatment Plant Improvements Project in substantially the form **attached** and presented to the Council today, with such changes, insertions or omissions as may be approved by the City Manager and whose execution shall be conclusive evidence of such approval.

THIS RESOLUTION shall be effective immediately upon passage.

PASSED in regular session this 9th day of February, 2023.

CITY OF PANAMA CITY BEACH

By: 
Mark Sheldon, Mayor

ATTEST:


Lynne Fasone, City Clerk



From: Michael Coletta
To: Mark Shaeffer
Location: Panama City Beach Wastewater Plant
Subject: HIBOCS 800 and New Screen Duct Installation
Date: January 6th 2023

Mark,

Below you will find a price breakdown of each of the phases that we have discussed on how to remedy the current hydrogen sulfide (H₂S) issues at the City of Panama City Beach Wastewater Treatment Plant. The HIBOCS 800 at the Splitter Box location has been performing very well, which supports the fact that a larger vessel at the Headworks site will benefit the plant as a whole. We are proposing to furnish and install a new HIBOCS 800 at the headworks location to replace the existing HIBOCS 200.

Price of a New HIBOCS 800

Items	QTY	Price	Total
HIBOCS 800 Vessel (Media and frieght Included)	1	\$ 102,000.00	\$ 102,000.00
Blower Upgrade	1	\$ 5,000.00	\$ 5,000.00
Total			\$ 107,000.00

The price breakdown above shows the price of the New HIBOCS 800 vessel and the upgraded blower cost associated with it. Heyward has given us this pricing at their own cost to ensure that the city is getting the best deal possible. The price included in the vessel cost also covers the delivery of the vessel from Texas, as well as the media that is placed inside of the vessel that cultivates the bacteria necessary for this biological odor control process.

HIBOCS 800 Installation Cost

Items	QTY	Price	Total
Concrete	1	\$ 7,000.00	\$ 7,000.00
Man Hours (Tech)	40	\$ 120.00	\$ 4,800.00
Man Hours (Helper)	100	\$ 60.00	\$ 6,000.00
Hotels (per diem)	9	\$ 150.00	\$ 1,350.00
Equipment Rental (12k Lull)	1	\$ 2,000.00	\$ 2,000.00
Ferncos	2	\$ 45.00	\$ 90.00
8" Pipe Lot (Pipe/Fittings)	1	\$ 3,025.00	\$ 3,025.00
Total			\$ 24,265.00

The price breakdown for the installation of the new HIBOCS 800 can be seen above. In order to accommodate a larger vessel, the concrete pad that was poured for the HIBOCS 200 system will have to be extended to account for the larger 800 unit. The installation is scheduled to be a crew of 4 and myself on site for 3 days to complete the new installation. New ducting will have to be run from the new blower, and new water and drain piping will have to be installed as well. The existing pipe present is 6" schedule 40 PVC, but this will be upsized to 8" at the existing 16" elbow located under the stairs at this location. Thus, the total cost to install a new HIBOCS-800 is \$131,265.00.

As we discussed, Heyward and Odyssey are recommending adding additional ductwork from the original design to the HIBOCS-200 that is treating the air from the Headworks. First, we are proposing to eliminate one of the two suction points on the headworks structure and re-routing the existing suction point up 3' because it has flooded several times from the headworks. Second, we are proposing to add three additional 8" suction points, one on each of the influent screens to the headworks. This will allow us to remove the hydrogen sulfide as it comes into the headworks and eliminate a portion of the air flow that is clean air coming back up from the dumpsters. The cost to perform this work is shown below.

Headworks Screen Ductwork Installation

Items	QTY	Price	Total
Man Hours (Tech)	100	\$ 90.00	\$ 9,000.00
Man Hours (Helper)	240	\$ 45.00	\$ 10,800.00
Hotels (Per Diem)	30	\$ 150.00	\$ 4,500.00
16" Pipe and Fittings	1	\$ 3,558.00	\$ 3,558.00
8" Pipe and Fittings	1	\$ 7,348.00	\$ 7,348.00
6" Pipe and Fittings	1	\$ 2,910.00	\$ 2,910.00
SS316 Strut/Clamps/Hardware	1	\$ 7,800.00	\$ 7,800.00
Misc. Material	1	\$ 2,326.60	\$ 2,326.60
Total			\$ 48,242.60

Odyssey and Heyward both believe that it is extremely important to install this ductwork as soon as possible. We both believe that this is a large reason as to why the plant is still emitting so much odor into the surrounding area. A suction point will be installed at the front of each of the three screens in order to help solve the problem. The 8" (which will reduce to 6" near the penetration) duct will be run in the air using SS316 strut and pipe clamps to secure it in place. This will also include the correction of the duct the is present. One of the two 90's at the suction points will be flipped to deter any liquid from making its way into the air ducting and the other will be capped.

Odyssey proposes to remove the HIBOCS 200 at the Headworks and install it at Lift Station No. 87 (based on comments received from several collection and wastewater personnel). As you know, the internals of the on-site electrical panels were recently replaced because of damage from high levels of hydrogen sulfide. Odyssey agrees to waive the installation cost for Lift Station No. 87 if Odyssey and the City can agree on how to proceed amicably with the rest of the projects described in this letter.

HIBOCS 200 Installation at Lift Station 87

Item	QTY	Price	Total
Man Hours (Tech)	35	\$ 90.00	\$ 3,150.00
Man Hours (Helper)	70	\$ 45.00	\$ 3,150.00
Man Hours (Electrician)	25	\$ 90.00	\$ 2,250.00
Equipment Rental (Lull)	1	\$ 1,500.00	\$ 1,500.00
Hotels (Per Diem)	9	\$ 150.00	\$ 1,350.00
6" Pipe and fittings	1	\$ 4,000.00	\$ 4,000.00
1" Pipe and Fittings	1	\$ 2,250.00	\$ 2,250.00
SS316 Strut/Clamps/Hardware	1	\$ 1,500.00	\$ 1,500.00
Misc. Material (Lull and Others)	1	\$ 2,326.60	\$ 2,326.60
Total			\$ 21,476.60

The price given in the below table includes all of the proposed work and incorporates the outstanding change orders and is extremely affordable compared to what a new HIBOCS 800 unit would cost to install today. With this price, the city would also get the new air ducting on the headworks screens, which should help the new HIBOCS 800 eliminate much more odor than the HIBOCS 200 can currently.

Lump Sum Price for Proposed Work

Item	QTY	Price	Total
New HIBOCS 800 Vessel and Blower	1	\$ 107,000.00	\$ 107,000.00
HIBOCS 800 Installation	1	\$ 24,265.00	\$ 24,265.00
Headworks Screen Ductwork Addition	1	\$ 48,242.60	\$ 48,242.60
Electrical Addition	1	\$ 4,800.00	\$ 4,800.00
Tax Savings from Owner Purchased Materials	1	\$ (48,209.30)	\$ (48,209.30)
Total			\$ 136,098.30

I look forward to speaking with you on how you would like to proceed.

Thanks,
Michael

Michael Coletta
Solutions Engineer



- C: (1) G. Chomic, Heyward of Florida
(2) A. Bock, PCB

CHANGE ORDER

No. 1

PROJECT	WWTP & Lift Stations 40, 73, 96 and 128 Odor Control	
DATE OF ISSUANCE	February , 2023	EFFECTIVE DATE
OWNER	City of Panama City Beach	
OWNER's Contract No		
CONTRACTOR	Odyssey Manufacturing Company, Inc.	ENGINEER City of Panama City Beach

You are directed to make the following changes in the Contract Documents

Description: Additional cost for installation of 50 amp circuit and WWTP headworks structure odor control unit intake duct improvements.

Reason for Change Order:

Attachments: Itemization of additional costs.

	CHANGE IN CONTRACT TIMES:
Original Contract Price	Original Contract Times:
\$ <u>1,241,600.00</u>	Substantial Completion: <u>12/10/21</u>
	Final Completion: <u>1/9/22</u>
	days or dates
Net changes from previous Change Orders No.	Net changes from previous Change Orders No.
<u>\$0.00</u>	<u>30</u>
	days
Contract Price prior to this Change Order	Contract Time prior to this Change Order
\$ <u>1,241,600.00</u>	Substantial Completion: <u>1/9/2022</u>
	Final Completion: <u>2/8/2022</u>
	days or dates
Net Increase (decrease) of this Change Order	Net Increase (decrease) of this Change Order
\$ <u>20,067.66</u>	<u>200</u>
	days
Contract Price with all approved Change Orders	Contract Times with all approved Change Orders
\$ <u>1,261,667.66</u>	Substantial Completion: <u>July 28, 2022</u>
	Final Completion: <u>August 27, 2022</u>
	days or dates

RECOMMENDED:

By: [Signature]
 Engineer (Authorized Signature)
 Date: 2/15/23

APPROVED

By: [Signature]
 Client (Authorized Signature)
 Date: 2-15-23

ACCEPTED

By: _____
 Contractor (Authorized Signature)
 Date: _____

EJCDC No: 1910-4-B (1990 Edition)

Prepared by the Engineers Joint Contract Documents Committee and endorsed by The Associated General Contractors of America.

**WWTP & Lift Stations 40, 73, 96 & 128 Odor Control
Itemization of Change Order 1 Costs/Credits**

Date 1/30/2023

Item	Unit Price	Bid Item Qty	Actual Amount Used	Unused Quantity	Total	Notes
Original Contract Price					\$1,241,600.00	
Additional Costs						
PCO 1 - Install 50A breaker in MCC-5B and 275 and 200 feet of wire to flow splitter and influent structures. Labor only and City provided materials.					\$4,800.00	
PCO 2 - Intake piping modifications for headworks structure					\$48,242.60	
Total Additional Costs					\$53,042.60	
Credits						
Tax savings from Owner purchased materials					\$ (32,974.94)	
Total Credits					\$ (32,974.94)	
Total Change Order Amount					\$ 20,067.66	