Jefferson County Board of Commissioners Agenda Request

To:

Board of Commissioners

Mark McCauley, County Administrator

From:

Monte Reinders, P.E., Public Works Director/County Engineer

Agenda Date:

September 19, 2022

Subject:

Change Order #1, Ovivo USA, LLC

Port Hadlock Wastewater Project

Statement of Issue: Execution of Change Order #1 to the contract with Ovivo USA, LLC for supply of the Membrane Bioreactor (MBR) wastewater treatment plant equipment for Port Hadlock.

Analysis/Strategic Goals/Pro's & Con's: Change Order #1 adds \$6,098 to the contract for a larger Waste Activated Sludge (WAS) pump which is necessary to add sludge thickening to the process. Since the bid was submitted, the County and its engineers have determined that sludge thickening will provide an operational cost savings for the treatment process; however a larger pump is required.

Fiscal Impact/Cost Benefit Analysis: Change Order #1 is for \$6,098. Funding for this work comes from State Dept. of Commerce revenue that has been dedicated to this project.

Recommendation: Public Works recommends that the Board sign Change Order #1 where indicated and return all three (3) originals to Public Works for further processing.

Department Contact: Monte Reinders, Public Works Director x242.

Reviewed By:

Mark McCauley, County Administrator

Date

CHANGE ORDER NO.: 1

Owner: Jefferson County Engineer: Tetra Tech, Inc. Seller: Ovivo USA, LLC Project: Port Hadlock Wastewater Contract Name: Port Hadlock Wastewater Date Issued: 7/22/2022	Owner's Project No.: 405-1693-6 Engineer's Project No.: N/A Sellers Project No.: Effective Date of Change Order: Upon execution by all parties
The Contract is modified as follows upon execution o	of this Change Order:
Description:	
Increase WAS pump size at Owner's request to	support sludge thickening.
Attachments:	
See attached Change Order Proposal from Ovivo	o dated 7/22/2022 (8 pages).
Change in Contract Price	Change in Contract Times
Original Contract Price:	Original Contract Times: Substantial Completion: Per Article 2, 2.02
\$1,395,158 + WSST	Ready for final payment: Per Article 2, 2.02
Increase from previously approved Change Orders No. N/A:	Increase from previously approved Change Orders. N/A: Substantial Completion: N/A
\$ N/A	Substantial Completion: N/A Ready for final payment: N/A
Contract Price prior to this Change Order: \$ 1,395,158 + WSST	Contract Times prior to this Change Order: Substantial Completion: Per Article 2, 2.02
Increase this Change Order:	Ready for final payment: Per Article 2, 2.02 Increase this Change Order:
\$ _6,098	Substantial Completion: None Ready for final payment: None
Contract Price incorporating this Change Order:	Contract Times with all approved Change Orders: Substantial Completion: Per Article 2, 2.02
\$ <u>1,401,256</u> + WSST	Ready for final payment: Per Article 2, 2.02
Recommended by Engineer (if required) By: Title: Public Works Director/County Engineer	Accepted by Seller <u>Cric Schaefer</u> Ovivo USA, LLC
Date: _7/22/22	9/9/2022
Authorized by Owner	Approved by Funding Agency (if applicable)
Ву:	N/A
T:41	

Ovivo SiC Systems

2300 Greenhill Dr. #100 Round Rock, TX 78664



ECN 7 for Increase WAS Pump to Port Hadlock

Date

Prepared By

2/2022

OVIVO

2300 Greenhill Dr. #100 Round Rock, TX 78664 Services Performed For:

Port Hadlock

623 Sheridan St Port Townsend, WA 98368

This External Change Notice (ECN) is issued pursuant to the current contract between **Port Hadlock** ("Client") and Ovivo ("Vendor"), effective **July 22, 2022**. This ECN is subject to the terms and conditions contained in the contract between the parties and is made a part thereof. Any term not otherwise defined herein shall have the meaning specified in the contract, in the event of any conflict or inconsistency between the terms of this ECN and the terms of the contract, the terms of this ECN shall govern and prevail.

Proposal Overview

Client requests a larger WAS pump to support their sludge thickening / dewatering system.

Change Order covers material cost price differential between current pump and new larger pump size. Change Order covers labor cost to correctly size and specify new pump along with update Ovivo documentation to reflect new pump on drawings (P&ID, PFD, General Arrangements, Electrical Drawings, etc.) and to update documentation within submittal (Scope of Supply, Vendor Cutsheets, etc.)



Ovivo Scope of Supply

Ovivo to provide a new WAS pump, capable of 25-40gpm; fully installed and integrated on MicroBLOX skid in place of current WAS pump

Out of Scope Items

No change from previous scope, same exclusions apply.

Supporting Documentation & Attachments

Updated document and drawing package to be provided once Change Order signed

Delivery Details

Pump to be procured with rest of project equipment and delivered fully installed and integrated on microBLOX skid

Delivery Terms

No change from project contract

Purchase Price

ltem	Description	Sell Price (US Dollars)	
1	Increase WAS Pump	\$ 6,098	

Payment Schedule

Propose 100% of change order paid upon delivery of updated drawing and documentation package.
 This would allow, the current invoicing schedule and quantities for the overall project to remain unchanged.

Pricing and Commercial Terms

- Standard Terms are 30 days NET, interest charged at 1 ½% per month (18%) per annum on outstanding balances. Please refer to contract terms for a reference point
- Pricing are net, taxes are not included
- Prices are valid for 30 days from proposal issuance date. If a formal purchase order is not received
 and accepted within this validity period Ovivo reserves the right to review and adjust pricing and lead
 times as necessary.
- · Prices are quotes in US Dollars unless otherwise noted
- No allowances have been included for bonds of any kind

Warranty

Warranty terms will remain consistent with Ovivo project warranty statement

General Notes

Pricing is based on the use of Ovivo standard design, equipment engineering submittals (IFI),
 materials of construction, QA/QC procedures and documentation

Proprietary and Confidential Information

The attached document contains proprietary and confidential information and is submitted under a confidential relationship. By accepting this document the recipient agrees:



- It will not disclose to third parties or use any drawings, specifications, designs, processes or information supplied by Ovivo in any manner detrimental to the interests of Ovivo;
- Any special features particular to this design and information gained as a result of this document shall
 be treated as confidential and shall be the property of Ovivo and will not be incorporated in whole or
 in part in other projects unless recipient obtains written permission from Ovivo to do so;
- Not to copy in whole or in part nor reveal its contents in any manner or for any purpose except for the purpose stated herein;
- The foregoing applies without limitation to all documents prepared by Ovivo in connection with this submission and the recipient acknowledges that this document involves confidential rights of Ovivo and all design, manufacturing, reproduction, use and sale rights regarding same are expressly reserved.

Approval and Acceptance

In order to move forward with this change request Ovivo requires that the below be signed off and returned to the Ovivo Project Manager. Upon acceptance, a revised PO will need to be issued to include additional scope.

Por	rt Hadlock	Ovivo Project Manager
By:	By:	<u>Eric Schaefer</u>
Bob Wheeler: Project Manager:	Eric Schaefer:	r



Specification Sheet (1/2)

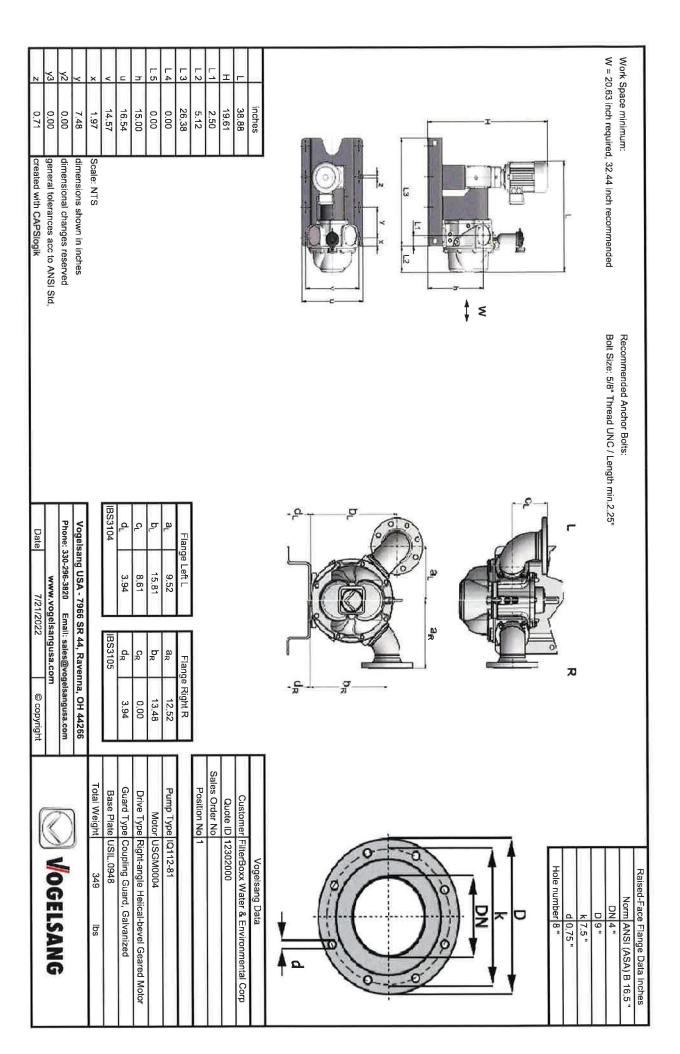


				PROCESS (CONDITIONS	
Customer Number	113487				Abrasion	Medium
Customer Name	FilterBox	Water & Env	rironmental Cor	p	Abrasiveness (1-10)	2 - mild Abrasive like RAS, Must
Project					Suction Condition	0.0 ft. flooded
Quote Number	12302000				Requested Capacity	40 gpm
Quote Position Number	1	•			Discharge Pressure	15.0 psi
	1				Discharge Head	10.0 pai
Number of Pumps					Inlet Pressure	0.0 pg
Pumping Temperature	100 °F					0.0 psi
Viscosity	not Provid				Differential Pressure	15.0 psi
Density	not Provid				Actual Capacity	40.2 gpm
Specific Gravity	not Provid	ded			Motor HP Reserve %	10%
Liquid PH	7				Rated Power	1.4 BHP
Chloride Content	not Provid	ded			Pump Speed	215 RPM
% Solids	not Provid	ded			Rated Volumetric Efficiency %	69.30%
Solid Size					Starting Torque	733 in.lbs.
NPSH-Available	31.14 ft.				Running Torque	413 in.lbs.
NPSH-Required	6.56 ft.				Tag Number 1	Not Specified
Medium		Vaste Activate	ad		rag Namber 1	That openings
INCUIUIII	Oldago, F	Table / loll vale		ISPLACEME	NT PUMP INFORMATION	
Pump Part Number	IQ112-81	H 4	, 00,,,,,		Buffer Chamber Fluid	Oil
Pump Model	IQ112-81				Mechanical Seal Type	Cartridge
Material of Construction					Mechanical Seal Single/Double	=
	Grey Cas	it iron			Seal Carrier Material	Mild Steel
Cover Type	0.0005 /6					
Housing Segment Material	100	Grey Cast Iron)		Material Block Ring 1	304 Stainless Steel (1.4301)
Housing Segment Coating	None				Material Block Ring 2	None
Housing Segment Form	Injection	S (I)			Material Mechanical Seal 1	Duronit
Radial Wear Plates	N/A				Material Mechanical Seal 2	None
Direction of Flow	Bi-Directi	onal			Thrust Washer Material	Mild Steel
Rotary Lobe Material	NBR				Strain Bolt Material	Galvanized
Rotary Lobe Coating					Pump Shaft Top	Motor Shaft Long
Rotary Lobe Form	HiFlo®				Pump Shaft Bottom	Motor Shaft Short
Rotary Lobe # of Wings	4				Pump Length	15.4 inch
O-Ring Material	NBR				Pump Width	13.9 inch
-						75 lbs
Lip Seal Material	HNBR	D :			Pump Weight	
Wear Plate Material		ar Resistant S	pecial Steel		Pump Shaft Diameter	45 mm
Wear Plate Coating	Galvaniz				Pump Shaft Diameter (Flange)	28 mm
Oil Bottle	Standard	Pressurized (Oil Bottle		Pump Shaft Length	2.4 inch
Drain Hose	No				Maximum Shaft Deflection	0.0015 inch
					ANCE DATA	
	Pump	20 Hz	60 Hz	80 Hz		
Pump Speed	214	72	215	287	RPM	
Flow Rate (new)	40	1.4	40.2	59.5	gpm	
Flow Rate (used)	1.3	-37.8	1.5	21.2	gpm	
Starting Torque	733	733	733	733	in.lbs.	
Running Torque	413	408	413	416	in.lbs.	
Running Power	1.4	0.5	1.4	1.9	BHP	
Efficiency (Volume)	69.2	7.2	69.3	77.1	%	
	24.9	2.6	25	27.5	%	
Efficiency (Total)						
Dynamic Pressure Reduction	0.19	0.02	0.19	0.34	psi	
NPSH-r	6.56	6.56	6.56	6.56	ft	

Specification Sheet (1/2)



	GEARED M	OTOR INFORMATION					
Part Number	USGM0004	Gearbox Service Factor	2.10				
Manufacturer	NORD Gear Corp.	Motor Service Factor	1.15				
Vendor Part Number	SK92372.1V-100LP/4 CUS TW-215	Insulation Class	F				
Motor Material	Aluminum	AGMA Class	III				
Gearbox Material	Cast Iron	KVA Code					
Class I Div I	No	Inverter Rating	Inverter Duty				
Class I Div II	No	VFD Turndown	10:1 Ratio				
Voltage	230/460	Duty	Continuous				
Frequency	60 Hz	Thermistors	No				
Phase	3	Thermostats	Yes				
HP	3 HP	Weight	91 lbs				
Efficiency %	90.0	230V Full Load Amps	7.7 A				
Motor Speed	1770 RPM	460V Full Load Amps	3.8 A				
RPM (Output)	215 RPM	575V Full Load Amps					
Output Torque	878 in.lbs.	Speed at 9 Hz					
Gear Ratio	8.19	Speed at 90 Hz					
Frame Size	100LP	Temp Rise					
Enclosure	TEFC						
		NG INFORMATION					
Coupling Manufacturer	TB Woods	Coupling Flange Drive	6S1				
Coupling Sleeve	6HS	Coupling Flange Pump	6S28MM				
FLANGE CONFIGURATION							
Flange Size	4.0 inch	Right Flange Type	Mild Steel Galv., 45° (Facing Right)				
Left Flange Part Number	IBS3104	Right Flange Material	Hot Dipped Galvanized Steel				
Left Flange Type	Mild Steel Galv., 90° Horizonal Bend (Facing S		N/A				
Left Flange Material	Hot Dipped Galvanized Steel	Marathon Flange Material	N/A				
Right Flange Part Number	IBS3105	Marathon Flange Configuration	N/A				
		ITY INFORMATION					
Warranty Type	Limited Industrial Warranty						

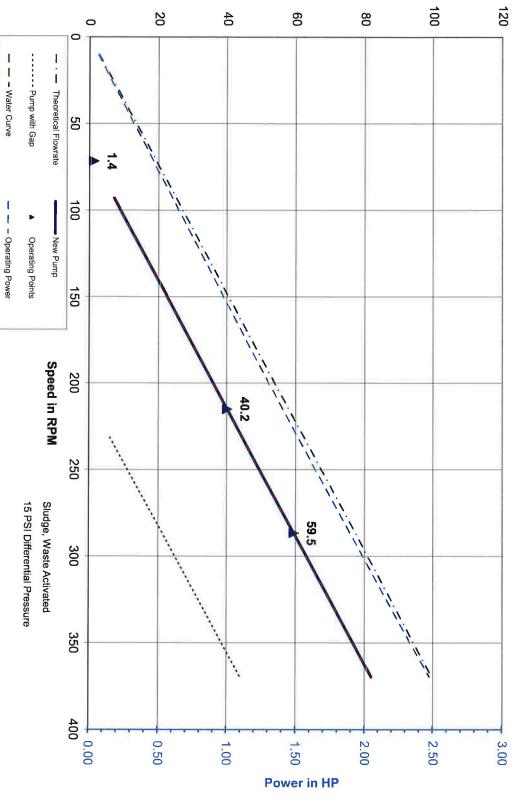




Flowrate / Speed at Constant Pressure IQ112-81

Quote No.: 12302000 Project: CAW432: Wasting Pump





Flowrate in GPM