



# City of Beaumont Wastewater Treatment Plant Salt Mitigation Upgrade Project Change Order No. 17

November 6, 2020

<b>Contractor:</b> W.M. Lyles Co.	<b>Original Contract:</b> \$ 53,312,000.00	<b>Calendar Days:</b> 820	<b>Comp. Date:</b> 1/26/2021
<b>Project Name:</b> Wastewater Treatment Plant Salt Mitigation Upgrade Project	<b>Previous Approved Changes:</b> \$2,387,919.12	95	5/1/2021
<b>Contract No.:</b> C180	<b>This Change: Amount</b> \$159,422.86	29	
<b>CO Number:</b> 17	<b>Revised Contract:</b> \$55,699,919.12	944	5/30/2021
	<b>Previous Phase 1 Completion Date</b> \$55,859,341.98		4/26/2020
	<b>Revised Phase 1 Completion Date</b>		5/20/2020

This change order is for changes to the subject contract as described herein. The Contractor shall supply all labor, equipment, and materials to complete the Change Order items for the lump sum price agreed upon herein. All Change Order items must be submitted to the City for approval prior to fabrication.

Item No.	PCO No.	Description of Changes	Amount	Phase 1 Time Extension (CD*)	Phase 2 / Project Completion Time Extension (CD*)
1	37	RW Pipeline Alignment and Material Changes Routing to BCVWD Future Pumping Station	\$140,662.15	0	0
2	38	WML TIA-05.R1 Inclement Weather Time Impact from May 1, 2019 to April 30, 2020.	\$0.00	24	29
3	39	RO Skids – Concentrate Control Valve Cartridge Assembly Replacement	\$9,799.38	0	0
4	40	MBR Feed Pumps – Seal Water Pump Protection Pressure Switch and Control Logic Changes	\$8,961.33	0	0
<b>NET CHANGE IN CONTRACT AMOUNT – INCREASE (OR DECREASE)</b>			<b>\$159,422.86</b>	<b>24</b>	<b>29</b>

\*Calendar Days

The amount of the Contract will be increased/decreased by the amount of One Hundred Fifty-nine Thousand, Four Hundred Twenty-two dollars and eighty-six cents (\$159,422.86). The Contract Time will be increased by twenty-nine (29) calendar days.

The Contractor agrees to furnish all labor, equipment, and materials and to perform all other necessary work, inclusive of the directly or indirectly related work, within the approved time extension required to complete the above Change Order items. The undersigned Contractor approves the foregoing Change Order as to the changes, if any, in the Contract Price specified for each item including any and all supervision costs and other miscellaneous costs relating to the change in Work, and as to the extension of time allowed, if any, for the completion of the entire Work on account of said Change Order. The City and the Contractor hereby agree that this Change Order constitutes full mutual accord and satisfaction for all time, all costs, and all impacts related directly or indirectly to this Change Order. The Contractor hereby agrees that this Change Order represents the full equitable adjustment owed under the Contract, and further agrees on behalf of himself and all subcontractors to waive all right to file any further claims or request for equitable adjustment arising out of or as a result of this Change Order or the cumulative effect of this Change Order on the performance of the overall Work under the Contract. This document will become a supplement of the contract and all provisions will apply hereto. It is understood that the Change Order shall be effective when approved by the City.

**Recommended:** Charles Bond, MWH Constructors, Senior Resident Engineer **Date:** 11-6-2020

**Accepted:** W.M. Lyles Co., Contractor **Date:** 11/10/20

**Approved:** \_\_\_\_\_, Albert A. Webb Associates, Program Manager **Date:** 11/11/2020

**Approved:** \_\_\_\_\_, City of Beaumont, City Manager **Date:** \_\_\_\_\_



Technical Justification:

PCO-37	
Design Adjustment: WML COP-042.0 CLAR-28	RW Pipeline to BCVWD
<p><u>Reason for Design Changes:</u></p> <p>Owner Initiated Change: The City of Beaumont in an agreement with Beaumont Cherry Valley Water District (BCVWD) has initiated a change of the Reuse Water discharge piping system. This clarification addresses changes to the onsite yard piping and Recycled Water Storage Tanks (RWST) and the offsite future BCVWD pump station.</p> <p><u>Design and Scope Changes:</u></p> <ul style="list-style-type: none"> <li>• Approximately 300 plus feet of the originally designed 16-inch discharge piping and appurtenance shall not be installed per revised drawings C-20 and C-23 of Design Engineer CLAR-28. The materials required per original scope of work, which has been procured and delivered to the job site shall be properly stored and turned over to the City.</li> <li>• Contractor shall instead provide approximately 220-feet of C905 pipe and all other materials, labor, and equipment necessary to install New 24-inch RW Offsite distribution system.</li> <li>• This design change requires deeper excavations in excess of 16-feet to connect the new 24-inch discharge piping system to the existing Clarifier 3 &amp; 4 influent piping near the bottom of the to be retrofitted clarifiers.</li> <li>• This change request also modifies work that was to be performed inside existing clarifiers 3 and 4, which will now discharge from the bottom of the basins, see clarification for revised details and materials.</li> <li>• Cost proposal includes the cost for new piping and material changes along with cost credit for clarifier materials that have not arrived on site.</li> </ul> <p><u>Cost Impact:</u></p> <p>W.M. Lyles' first cost proposal WML-COP 042 requested a contract increase amount of \$110,086.00. After MWHC's review it was determined that the cost of the new piping was not included. W.M. Lyles's second cost proposal was submitted for a cost increase of \$145,469.71. MWHC negotiated with WML to reduce time and labor and a third cost proposal was submitted for a contract cost increase of \$140,662.15.</p> <p>MWHC has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of \$140,662.15 to be executed in a change order for the modifications requested in the attached Design Change Clarification No.28.</p>	

**CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT**

**CHANGE ORDER PROPOSAL (COP) # 042.2  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> 26	
<b>Subject:</b> RW Pipeline to BCVWD	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
<p>This COP is for the installation of new piping to connect the recycled water storage tanks and the future DCVWD pump station per DCM 26 (Attached). A credit for the labor was provided for the deletion of the 16” pipeline between the MBR and clarifiers, however, the materials are already onsite. Please also note that this 24” pipeline is significantly deeper and will have to be trenched with shoring boxes the entire run as opposed to an open trench. In addition, 24” C900 DR18 Class 235 PVC pipe is included in this proposal.</p>	
<b>COST ESTIMATE</b>	
Total Cost : \$140,662.15 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	

**RESPONSE**

**Response By:**

**Date:**

Final Distribution: Oscar Mendoza, W.M. Lyles Co.  
Brian Knoll, Webb Associates  
MWH Inspector

W. M. Lyles Co.  
 42142 Roick Drive  
 Temecula, CA 92590

Reference #: CLAR - 028

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: RW Pipeline to BCVWD

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	RW Pipeline to BCVWD	1 LS	496	\$ 40,135.20	\$ 24,062.48	\$ 56,906.20	\$ -	\$ 121,103.88
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			496	\$ 40,135.20	\$ 24,062.48	\$ 56,906.20	\$ -	\$ 121,103.88

Subtotal		\$ 121,103.88
Mark-up - Labor	15%	\$ 6,020.28
Mark-up - Equipment	15%	\$ 3,609.37
Mark-up - Materials	15%	\$ 8,535.93
Mark-up - Subcontractor	5%	\$ -
Bond	1.0%	\$ 1,392.69
<b>Total This Change Order</b>		<b>\$ 140,662.15</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**  
**RW Pipeline to BCVWD**

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason		
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT
Dig Trench and Set Shoring	72			216			72														
Bed, Lay and Backfill	40			128			80														
Potholing	16			32			16														
Dig, Bed, Lay and Backfill	(40)			(80)			(40)														
Potholing	(4)			(8)			(4)														
	84	0	0	288	0	0	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Name	Rate			Hours			Extension	
	ST	PT	DT	ST	PT	DT		
Lab Pipe FM	\$77.80		\$103.90	\$129.98	84	0	0	\$6,535.55
Lab Pipe	\$75.19		\$99.97	\$124.75	288	0	0	\$21,654.20
Operator	\$96.33		\$128.99	\$161.66	124	0	0	\$11,945.44
Carp FM	\$85.03		\$115.33	\$145.63	0	0	0	\$0.00
Carp	\$81.11		\$109.45	\$137.79	0	0	0	\$0.00
Lab	\$71.72		\$94.78	\$117.82	0	0	0	\$0.00
Cement Mason	\$78.05		\$102.25	\$126.45	0	0	0	\$0.00
					496	0	0	
					<b>Total Labor =</b>			<b>\$40,135.20</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent
Dig Trench and Set Shoring	72				72	8	24
Bed, Lay and Backfill	48	16			48	8	
Pothole	16				16		
Dig, Bed, Lay and Backfill	(40)			(40)			
Potholing	(4)			(4)			
	92	16	0	(44)	136	16	24

Number	Description	Rate	Hours	Extension
17.12	Foreman Truck	\$29.60	92	\$2,723.20
32.037	ReachliftXtremeXR1055	\$58.61	16	\$937.76
31.028	Hydro Crane - 80 TonLink BeltRTC-8080 II 80 Tor	\$164.01	0	\$0.00
30.048	Loader Backhoe 410John Deere410L	\$64.30	-44	-\$2,829.20
20.041	ExcavatorJohn Deere350GLC	\$151.12	136	\$20,552.32
35.064	LoaderJohn Deere644J	\$123.00	16	\$1,968.00
17	Foreman Truck	\$29.60	24	\$710.40
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
35.064	LoaderJohn Deere644J	\$123.00	16	\$1,968.00
Rent	Owner Op dump trucks	\$100.00	24	\$2,400.00
			280	
			<b>Total Equipment = \$24,062.48</b>	

**C. Materials**

Description	Quantity	Unit	Price	Extension
24" C153 MJ 45 DEG ELBOW CML/PNT (Inplant)	5	ea	\$ 923.00	\$4,615.00
24" C153 MJ LATERAL WYE CML/PNT (Inplant)	1	ea	\$ 5,306.00	\$5,306.00
24" BLIND FLANGE CML/PNT (Inplant)	1	ea	\$ 875.00	\$875.00
24" MJ RESTRAINT FOR C900 (Inplant)	2	ea	\$ 483.00	\$966.00
24" C153 MJXFLG ADAPTER (Inplant)	1	ea	\$ 851.00	\$851.00
24" C153 MJ SLEEVE CML/PNT (Inplant)	2	ea	\$ 707.00	\$1,414.00
24" C900 DR18 CL235 PIPE (Ferguson)	280	LF	\$ 95.36	\$26,700.80
Fill Sand (Includes 80TN credit)	70	TN	\$ 16.50	\$1,155.00
24" Black Bar Guard	2	ea	\$ 151.63	\$303.26
10" Black Bar Guard	2	ea	\$ (48.32)	-\$96.64
18"x18" Steel Plate	2	ea	\$ 160.08	\$320.16
36"x36" Steel Plate	2	ea	\$ (226.41)	-\$452.82
Consumables	496	HR	\$ 3.50	\$1,736.00
Tax			7.750%	\$3,386.19
Freight (Ferguson)	1	ea	\$ 1,693.70	\$1,693.70
Freight (Inplant)	1	ea	\$ 1,100.00	\$1,100.00
			Subtotal	\$49,872.65
TRENCH SHORING RENTAL	1	ea	\$ 7,033.55	\$ 7,033.55
			<b>Total Material =</b>	<b>\$56,906.20</b>

**D. Subcontractor**

Quantity	Unit	Price	Extension
			\$0.00
			<b>Total Subcontract = \$0.00</b>

**CITY OF BEAUMONT WASTEWATER TREATMENT PLANT  
SALT MITIGATION UPGRADE PROJECT**

**CLARIFICATION 28**

<b>To (Construction Manager):</b> Stantec Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	
<b>From (Engineer):</b> AQUA/SKM Engineering Attention: Dallin Stephens Phone: 801-683-3746 Email: <a href="mailto:dallin.stephens@aquaeeng.com">dallin.stephens@aquaeeng.com</a>	
<b>Subject:</b> RW Pipeline to BCVWD	<b>Location:</b> Recycled Water Storage Tanks
<b>Reference Documents:</b> C-20, C-23, C-28, C-42, RSM-1, RSM-2, RSM-3	
<b>CLARIFICATION</b>	
<b>Note the following:</b>  This clarification addresses the yard piping connection between the recycled water storage tanks (RWST) and the future BCVWD pump station. These changes consist of combining two 24-inch pipe from each of the RWST to a common header and running the pipe towards the proposed BCVWD pump station location (see drawings C-20 and C-23). The pipe profile is also updated to indicate these changes as shown on C-28. Pipe connection details have also been created showing how the new piping will connect to the existing piping as shown on C-42. Mechanical modifications have also been made to the RWST as shown on RSM-1, RSM-2, and RSM-3.	
<b>Prepared By (Name):</b> Dallin Stephens, AQUA Engineering	<b>Date:</b> 6/1/2020
<b>Distributed By:</b>	<b>Date:</b>



FERGUSON WATERWORKS #1083  
 11909 TECH CENTER COURT  
 POWAY, CA 92064-7139

Phone: 858-391-3700  
 Fax: 858-391-5958

<b>Deliver To:</b> <b>From:</b> James Bryan <b>Comments:</b>
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13:02:21 SEP 17 2020

FERGUSON WATERWORKS #1083  
 Price Quotation  
 Phone: 858-391-3700  
 Fax: 858-391-5958

**Bid No:** B379697  
**Bid Date:** 09/17/20  
**Quoted By:** JPB

**Cust Phone:** 559-487-7926  
**Terms:** NET 10TH PROX

**Customer:** WM LYLES CO  
 551173-BEAUMONT WW TRTMT  
 PO BOX 4377  
 FRESNO, CA 93744

**Ship To:** WM LYLES CO  
 551173-BEAUMONT WW TRTMT  
 PO BOX 4377  
 FRESNO, CA 93744

**Cust PO#:** 24" C900

**Job Name:** 55.1173-BEAUMONT WW TRTMT

Item	Description	Quantity	Net Price	UM	Total
DR18BP24	24 C900 DR18 CL235 PVC GJ BLUE PIPE	280	95.360	FT	26700.80
FFREIGHT	FRT CHARGE FEE	1	1693.700	EA	1693.70
<b>Net Total:</b>					\$28394.50
<b>Tax:</b>					\$2129.39
<b>Freight:</b>					\$0.00
<b>Total:</b>					\$30523.89

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTACT YOUR SALES REPRESENTATIVE IMMEDIATELY FOR ASSISTANCE WITH DBE/MBE/WBE/SMALL BUSINESS REQUIREMENTS.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>  
 Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with \*NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.  
 WATER FLOW RATE NOTICE: Lavatory Faucets with flow rates over 0.5 GPM are not allowed for 'public use' in California.



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Scan the QR code or use the link below to complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=1083&on=25463>



**Inplant Sales, LLC**P.O. Box 520  
Westminster, CA 92684**QUOTATION**

Quote Number: 2135

Quote Date: Jul 16, 2020

Page: 1

Voice: (714) 372-3151

Fax: (714) 372-3177

**Quoted To:**W.M. LYLES CO.  
P.O. BOX 4377  
FRESNO, CA 93744-4377

Customer ID	Good Thru	Payment Terms	Sales Rep
WMLYLES	8/15/20	Net 30 Days	MEL

Quantity	Item	Description	Unit Price	Amount
		CHANGE ORDER		
5.00		24" C153 MJ 45 DEG ELBOW CML/PNT SYS	923.00	4,615.00
1.00		24" C153 MJ LATERAL WYE CML/PNT SYS	5,306.00	5,306.00
1.00		24" BLIND FLANGE CML/PNT SYS	875.00	875.00
2.00		24" MJ RESTRAINTS FOR C900 (DR41) FBE COATED, 316SST BOLTING	483.00	966.00
1.00		24" C153 MJ X FLG ADAPTER CML/PNT SYS	851.00	851.00
2.00		24" C153 MJ SLEEVE CML/PNT SYS FRT IS FOR PARTS TO BE SHIPPED TO THE COATER & COATER TO JOBSITE. ESTIMATE 1,100.00	707.00	1,414.00

Subtotal	14,027.00
Sales Tax	1,087.09
<b>TOTAL</b>	<b>15,114.09</b>



# Rental Quote

1184 W. Lincoln St.  
Banning, Ca. 92220

Phone: (951) 849-1611 Fax: (951) 849-1192

Quote# 20-08

Time: N/A

Customer: WM LYLES CONSTRUCTION

Date: 7/14/20 (Quote Date)

Contact: Robert Beck

Fax:

Phone: (951) 858-3060

Email:

Location: 4th Street Sewer Plant Project Beaumont, Ca.

J/N: Same

Rental Duration: 3-4 Weeks

QTY	EQUIPMENT DESCRIPTION	WEIGHT	ITEM	MINIMUM	DAILY	WEEKLY	4 WEEK
				EACH	EACH	EACH	EACH
4	Road Plate 8' x 16' Regular	5,248	1100000816	\$ 43.75	\$ 8.75	\$ 61.25	\$ 245.00
1	TRENCH SHIELD 4' X 8' - TS1672	2,078	4000000408	\$ 34.65	\$ 34.65	\$ 103.95	\$ 311.85
1	TRENCH SHIELD 8' X 8' - TS1350	3,952	4000000808	\$ 69.30	\$ 69.30	\$ 207.90	\$ 623.70
2	TRENCH SHIELD 4' X 20' - TS858	5,730	4000000420	\$ 63.00	\$ 63.00	\$ 189.00	\$ 567.00
2	TRENCH SHIELD 10' X 20' - TS808	12,949	4000001020	\$ 157.50	\$ 157.50	\$ 472.50	\$ 1,417.50
16	SPREADER 5" X 5" X 4' SPREADERS	22.32			N/C if returned		
8	SPREADER 5" X 5" X 8' SPREADERS	22.32			N/C if returned		
1	4 LEG LIFTING HARNESS			\$ 21.00	\$ 21.00	\$ 63.00	\$ 189.00
12	CONNECTING BOLTS & NUTS (EACH)		4300009001		N/C if returned		

**ESTIMATED RENTAL TOTALS**

WEIGHT	MINIMUM	DAILY	WEEKLY	4 WEEK
64,916	\$ 740.95	\$ 600.95	\$ 1,942.85	\$ 6,073.55

**\* NO SALES TAX ON RENTALS**

2 TRUCK LOADS ON (DELIVERY)

2 TRUCK LOADS OFF (PICKUP)

\$ 120.00 Per Hour Portal to Portal

2.00 HOURS PER TRUCK PORTAL TO PORTAL

\*ESTIMATED TOTAL TRANSPORTATION (DELIVERY AND PICKUP):

\$ 960.00

QTY	SALES ITEM DESCRIPTION:	EACH	TOTAL
			\$ -
			\$ -
SALE SUB-TOTAL			\$ -
10.25% EST. TAX			\$ -
ESTIMATED SALES TOTAL			\$ -

\*QUOTE IS VALID FOR 30 DAYS FROM DATE ISSUED AND IS SUBJECT TO CHANGE IF NOT YET AGREED.

\*RATES WILL BE REVIEWED ANNUALLY.

\*TOTAL TRANSPORTATION COST IS AN ESTIMATE ONLY FOR TOTAL TRUCKING INCLUDING DELIVERY AND PICKUP AND MAY INCREASE OR DECREASE BASED ON TOTAL TIME INCLUDING TIME ON JOB.

\*ENGINEERING COST IS FOR SITE SPECIFIC ENGINEERED SHORING DESIGN.

ENGINEERING COST IS AN ESTIMATE ONLY AND CAN VARY DEPENDING ON SITE CONDITIONS.

\*\*CUSTOMER MAY NEED TO UNLOAD FLAT BED SEMITRUCKS UPON DELIVERY.

If you have any further questions, please give me a call.  
Thank you for the opportunity to provide you with a quote.

Sincerely,

Manufactured by:



PO Box 458 · 1462 340<sup>th</sup> Street · Adair, Iowa 50002

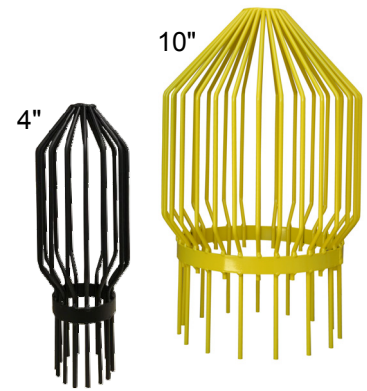
Phone: 1-800-232-4742 · Fax: 1-800-282-3353

www.agridrain.com · email: info@agridrain.com

## Bar Guards

### Eliminate plugged inlets with Bar Guards.

- ◆ Fights trash to help keep intakes flowing freely.
- ◆ Its unique design helps keep intakes from plugging with crop residue or any other type of trash.
- ◆ The Bar Guard may also protect pond tubes from rodent entry.
- ◆ Available in durable black or yellow powder coat finish for years of service. Please specify color when ordering.
- ◆ All intakes require periodic maintenance.



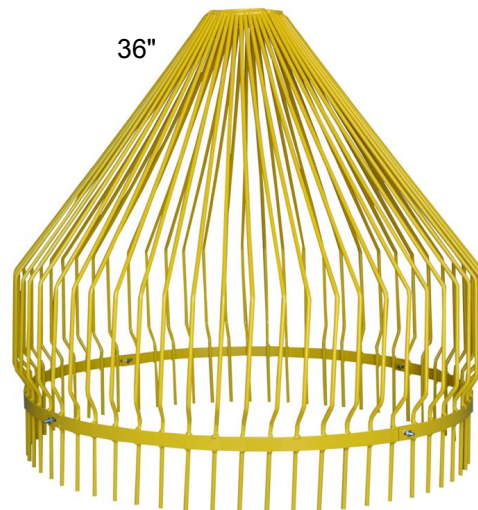
5% discount when purchased in case quantity. Cases available on 4"–9 per case, 5"–9 per case, 6"–9 per case, 8"–6 per case, and 8" H–6 per case.

Size	Bar Diameter	Number Of Bars	Approx. Bar Spacing	Bar O.D. Below Ring	Bar Depth Below Ring	Over-all O.D.	Over-all Height
4"	1/4"	15	15/16"	3 3/4"	4 1/4"	5 3/4"	17 1/4"
5"	1/4"	18	7/8"	4 3/4"	4 5/8"	6 5/8"	17 3/4"
6"	1/4"	20	15/16"	5 3/4"	5"	7 1/2"	18 1/2"
8"	1/4"	25	15/16"	7 3/4"	4 3/4"	9 1/2"	19 1/8"
8" H*	1/4"	27	15/16"	8 5/8"	5"	10 1/8"	19 1/2"
10"	1/4"	30	15/16"	9 3/4"	5"	11 1/2"	20"
10" H*	1/4"	32	15/16"	10 1/2"	4 3/4"	12 1/4"	20 3/4"
12"	1/4"	35	15/16"	11 3/4"	5"	13 5/8"	21 1/4"
12" H*/15"	1/4"	40	15/16"	14 1/2"	4 1/2"	16 1/8"	22"
18"	5/16"	40	1 2/9"	17 3/4"	5"	20"	24 5/8"
21"	5/16"	40	1 7/16"	20 3/4"	4 3/4"	22 1/2"	26 3/4"
<b>24"</b>	<b>5/16"</b>	<b>40</b>	<b>1 3/7"</b>	<b>23 3/4"</b>	<b>5"</b>	<b>25 1/2"</b>	<b>29"</b>
30"	5/16"	50	1 3/4"	29 3/4"	4 3/4"	31 7/8"	31 3/16"
36"	5/16"	60	1 5/8"	35 3/4"	4 3/8"	37 1/4"	36"
42"	3/8"	48	2 1/2"	42"	4 3/4"	44 3/4"	37 1/4"
48"	3/8"	48	2 7/8"	48"	4 3/4"	50 3/4"	37 1/4"

\*Special-sized Bar Guards to fit 12" Hickenbottom Intakes and 15" pipe.



24" - 30" Bar Guards are in two pieces. (Bolts, washers, and nuts are included.)



36", 42", and 48" are in four pieces. (Bolts, washers, and nuts are included.)



**City of Beaumont**  
**Wastewater Treatment Plant Salt Mitigation Upgrade Project**  
**Technical Justification:**

PCO-38	
Time Adjustment: WML TIA-05.R1	TIA-05 Inclement Weather Impact May-2019 thru April-2020
<p><u>Reason for Design Changes:</u> Inclement weather impact to the construction schedule from May 1, 2019 to April 30, 2020.</p> <p><u>Cost Impact:</u> MWHC has performed a P6 review of the attached contractor's Time Impact Analysis, TIA, for relevant periods 5 through 10 requested. The contractor's narrative along with MWHC's summary response is attached below. MWHC recommends a non-compensable time increase of 24-CD to MS01 and 29-CD time extension to MS02. With this time adjustment Phase 1 completion will be May 20, 2020 and Final Project Completion will be adjusted to May 30, 2021.</p>	



# Shop Drawing Review

		Date 6/25/2020
To:  W. M. Lyle Co.  Attention: Oscar Mendoza	Project Owner City of Beaumont	
	Project Name Beaumont WWTP Expansion	
Reference Submittal 013200-20A-Construction Progress Documentation-TIA05	Construction Contract No. C18-80	
TIA 05R1	Specification Section 013200	

Subject submittal has been reviewed and review action is as shown below:

Submittal No.	Subject	No. of Copies	No Exception Taken	Approved as Noted	Amend and Resubmit	Rejected Resubmit
13200-20A	CPM Baseline Schedule Submittal including: 1. P6 files: COB_TIA05.1, TIA05.2, TIA05.3, TIA05.5, and TIA05.6. 2. COB Schedule Narrative_TIA05R1.pdf	e-files		X		

WML submitted TIA05R showing inclement weather impacts from May 2019 through April 2020. TIA05 included the following summary table:

Milestone	Period	Calendar Day Impact	Cumulative Impact
MS01	1	-10	-10
	2	-26	-36
	3	-14	-50
	4	-3	-53
	5	-1	-54
	6	-1	-55
	7	-4	-59
	8	-3	-62
	9	-7	-69
	10	-8	-77
Milestone	Period	Calendar Day Impact	Cumulative Impact

MS02	1	-14	-14
	2	-22	-36
	3	-16	-52
	4	0	-52
	5	-5	-57
	6	-2	-59
	7	-3	-62
	8	-3	-65
	9	-7	-72
	10	-8	-80

It is important to note that periods 1 through 4 have been adjusted to a total cumulative impact of 51 days to MS01 and 47 days to MS02 per the response to TIA02 via the response to submittal 13200-7. The corresponding time extension was included in the executed change order No. 10.

Accordingly, the relevant review will be for periods 5 through period 10.

MWH has reviewed the TIA methodology and verified the project calendar for each inclement weather in the presented TIA P6 files. The following steps describes the impact of each period:

1. Period 5: Impact due to inclement weather days encountered in May 2019.

Inclement weather occurred on 5/1/19: Impact to the schedule is 1 CD to MS01 and 5 CD to MS02

COB WWTP Salt Mitigation Upgrade Project_APR 2019...		Global - Schedule Layout by WBS			25-Jun-20 11:52																													
Activity ID	Activity Name	Start	Finish	Total Float	S	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J			
<b>COB WWTP Salt Mitigation Upgrade Project_Apr 2019</b>																																		
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	17-Mar-21	-23	PROCEED (10/29/18)																													
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			N AERATION BASIN#1_P1SITE																													
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20)		11-Mar-20*	-35	◆ PHASE 1 COMPLETION (450 CD																													
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		17-Feb-21	-34	◆ PROJ																													
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21)		17-Mar-21*	-32	◆ PH																													
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05.19</b>																																		
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	22-Mar-21	-26	PROCEED (10/29/18)																													
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			N AERATION BASIN#1_P1SITE																													
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20)		12-Mar-20*	-36	◆ PHASE 1 COMPLETION (450 CD																													
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		22-Feb-21	-35	◆ PROJ																													
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21)		22-Mar-21*	-37	◆ PH																													

2. Period 6: Impact due to inclement weather days encountered in October 2019:

Inclement weather occurred on 10/30/19: Impact to the schedule is 1 CD to MS01 and 3 CD to MS02

COB WWTP Salt Mitigation Upgrade Project_SEPT 2019...		Global - Schedule Layout by WBS			25-Jun-20 13:36																													
Activity ID	Activity Name	Start	Finish	Total Float	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J								
<b>COB WWTP Salt Mitigation Upgrade Project_SEPT 2019</b>																																		
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	30-Apr-21	0	10/29/18}																													
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			BASIN#1_P1SITE																													
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		22-Apr-20*	0	◆ PHASE 1 COMPLETION (450 CD																													
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		02-Apr-21	2	◆ PROJ																													
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		30-Apr-21*	1	◆ PH																													
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05.19</b>																																		
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	03-May-21	-1	10/29/18}																													
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			BASIN#1_P1SITE																													
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		23-Apr-20*	-1	◆ PHASE 1 COMPLETION (450 CD																													
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		05-Apr-21	-1	◆ PROJ																													
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		03-May-21*	-2	◆ PH																													



3. Period 7: Impact due to inclement weather days encountered in November 2019.

Inclement weather occurred on 11/20/19 & 11/27/19: Impact to the schedule is 4 CD to MS01 and 3 CD to MS02

COB WWTP Salt Mitigation Upgrade Project_OCT 2019...		Global - Schedule Layout by WBS			25-Jun-20 13:45																												
Activity ID	Activity Name	Start	Finish	Total Float	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J								
<b>COB WWTP Salt Mitigation Upgrade Project_OCT 2019...</b>					29-Oct-18 A	10-May-21	-8	[Gantt bar from Oct 29, 2018 to May 10, 2021]																									
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A			[Gantt bar from Oct 29, 2018 to Oct 29, 2018]																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			[Gantt bar from Nov 5, 2018 to Nov 5, 2018]																												
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		02-May-20*	-10	[Gantt bar from May 2, 2020 to May 2, 2020]																												
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		12-Apr-21	-8	[Gantt bar from Apr 12, 2021 to Apr 12, 2021]																												
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		10-May-21*	-9	[Gantt bar from May 10, 2021 to May 10, 2021]																												
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05...</b>					29-Oct-18 A	13-May-21	-9	[Gantt bar from Oct 29, 2018 to May 13, 2021]																									
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A			[Gantt bar from Oct 29, 2018 to Oct 29, 2018]																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			[Gantt bar from Nov 5, 2018 to Nov 5, 2018]																												
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		06-May-20*	-14	[Gantt bar from May 6, 2020 to May 6, 2020]																												
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		15-Apr-21	-11	[Gantt bar from Apr 15, 2021 to Apr 15, 2021]																												
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		13-May-21*	-12	[Gantt bar from May 13, 2021 to May 13, 2021]																												

4. Period 8: Impact due to inclement weather days encountered in December 2019.

Inclement weather occurred on 12/4/19: Impact to the schedule is 3 CD to MS01 and 3 CD to MS02

COB WWTP Salt Mitigation Upgrade Project_NOV 2019...		Global - Schedule Layout by WBS			25-Jun-20 13:52																												
Activity ID	Activity Name	Start	Finish	Total Float	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J								
<b>COB WWTP Salt Mitigation Upgrade Project_NOV 2019...</b>					29-Oct-18 A	07-Jun-21	-26	[Gantt bar from Oct 29, 2018 to Jun 7, 2021]																									
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A			[Gantt bar from Oct 29, 2018 to Oct 29, 2018]																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			[Gantt bar from Nov 5, 2018 to Nov 5, 2018]																												
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		31-May-20*	-39	[Gantt bar from May 31, 2020 to May 31, 2020]																												
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		07-May-21	-33	[Gantt bar from May 7, 2021 to May 7, 2021]																												
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		07-Jun-21*	-37	[Gantt bar from Jun 7, 2021 to Jun 7, 2021]																												
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05...</b>					29-Oct-18 A	10-Jun-21	-29	[Gantt bar from Oct 29, 2018 to Jun 10, 2021]																									
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A			[Gantt bar from Oct 29, 2018 to Oct 29, 2018]																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	05-Nov-18 A			[Gantt bar from Nov 5, 2018 to Nov 5, 2018]																												
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		03-Jun-20*	-42	[Gantt bar from Jun 3, 2020 to Jun 3, 2020]																												
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		12-May-21	-38	[Gantt bar from May 12, 2021 to May 12, 2021]																												
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		10-Jun-21*	-40	[Gantt bar from Jun 10, 2021 to Jun 10, 2021]																												



5. Period 9: Impact due to inclement weather days encountered in March 2020.  
 Inclement weather occurred on 3/10/20, 3/11/20, 3/12/20, 3/13/20, 3/23/20: Impact to the schedule is 7 CD to MS01 and 7 CD to MS02

COB WWTP Salt Mitigation Upgrade Project_FEB 2020...		Global - Schedule Layout by WBS			25-Jun-20 14:06																											
Activity ID	Activity Name	Start	Finish	Total Float	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S								
<b>COB WWTP Salt Mitigation Upgrade Project_FEB 2020...</b>																																
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	22-Jul-21	-59																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	19-Nov-19 A			DOWN AERATION: BASIN #1_P1SITE																											
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		18-Jul-20*	-85	◆ PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)																											
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		23-Jun-21	-80	◆ PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)																											
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		22-Jul-21*	-82	◆ PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)																											
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05...</b>																																
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	29-Jul-21	-84																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	19-Nov-19 A			DOWN AERATION: BASIN #1_P1SITE																											
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		23-Jul-20*	-92	◆ PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)																											
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		30-Jun-21	-87	◆ PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)																											
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		29-Jul-21*	-89	◆ PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)																											

6. Period 10: Impact due to inclement weather days encountered in April 2020.  
 Inclement weather occurred on 4/6/20, 4/7/20, 4/8/20, 4/9/20, 4/10/20, 4/13/20: Impact to the schedule is 8 CD to MS01 and 8 CD to MS02

COB WWTP Salt Mitigation Upgrade Project_MAR 2020...		Global - Schedule Layout by WBS			25-Jun-20 14:11																											
Activity ID	Activity Name	Start	Finish	Total Float	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S								
<b>COB WWTP Salt Mitigation Upgrade Project_MAR 2020...</b>																																
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	19-Aug-21	-79																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	19-Nov-19 A			DOWN AERATION: BASIN #1_P1SITE																											
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		13-Aug-20*	-113	◆ PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)																											
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		22-Jul-21	-109	◆ PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)																											
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		19-Aug-21*	-110	◆ PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)																											
<b>COB WWTP Salt Mitigation Upgrade Project_TIA05...</b>																																
MS00	NOTICE TO PROCEED (10/29/18)	29-Oct-18 A	27-Aug-21	-85																												
4050	SHUTDOWN AERATION BASIN#1_P1SITE	19-Nov-19 A			DOWN AERATION: BASIN #1_P1SITE																											
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		21-Aug-20*	-121	◆ PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)																											
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		30-Jul-21	-117	◆ PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)																											
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		27-Aug-21*	-118	◆ PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)																											

**Conclusion:**

The following table summarizes the TIA review showing impact of each inclement weather period and the cumulative impact to the Project Milestones.

Milestone	Period	Calendar Day Impact	Cumulative Impact
MS01	5	-1	-1
	6	-1	-2
	7	-4	-6
	8	-3	-9
	9	-7	-16
	10	-8	<b>-24</b>

Milestone	Period	Calendar Day Impact	Cumulative Impact
MS02	5	-5	-5
	6	-3	-8
	7	-3	-11
	8	-3	-14
	9	-7	-21
	10	-8	<b>-29</b>

Accordingly, the Construction Management will recommend the City to approve 24 CD time extension to MS01 and 29 CD time extension to MS02.

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all qualities and dimensions; selecting fabrication processes and techniques of construction; coordinating work with other trades; and performing work in a safe and satisfactory manner.

Very truly yours,

Hgg rqq#V d|hjk#

**EDMOND SAYEGH, P. E.**

Sr. Construction Manager

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City of Beaumont Waste Water Treatment Plant  
Salt Mitigation Upgrade Project



Time Impact Analysis 05 R1



WM Lyles Co.

## INTRODUCTION

The following narrative outlines the Time Impact Analysis procedure and findings relating to Unforeseen Event 05 – Inclement Weather Delays from May 2019 through April 2020.

Note: Revision 1 is being provided per request by the Owner to include inclement weather incurred during April 2020 in the analysis.

## IDENTIFICATION OF SCHEDULE:

### Schedule Update Base File:

COB\_UP04  
COB\_UP09  
COB\_UP10  
COB\_UP11  
COB\_UP14  
COB\_UP15

### Schedule Analysis File:

COB\_TIA05.1  
COB\_TIA05.2  
COB\_TIA05.3  
COB\_TIA05.4  
COB\_TIA05.5  
COB\_TIA05.6

## TIME IMPACT ANALYSIS METHODOLOGY

The methodology used in this analysis follows a retroactive, “forward-looking” Time Impact Analysis (TIA) procedure. It compares the last approved schedule prior to the first impact event being analyzed to a copy of the same schedule with the addition of modeled schedule impact(s).

The modeled schedule impact events used in the analysis, herein are referred to as “Unforeseen Events” (UFEs), represent events that may impact the schedule and could not have been reasonably foreseen at the time of submitting the original bid for construction. These events are beyond the control, and without fault or negligence of the General Contractor.

### Analysis procedure for TIA05:

1. The last approved schedule (As-Planned Schedule) prior to first weather day being analyzed in TIA05 is the approved April 2019 Update, UP04.
2. The As-Planned schedule was copied to create the Impacted Schedule(s) of comparison (TIA05.1 – 6)
3. UFE(s) being analyzed were logically inserted into the Impacted Schedule of comparison. In this instance, original durations for specific activities were updated to reflect the additional time required to complete each impacted activity.
4. The affected Project Milestone(s) in the As-Planned schedule were compared to the affected Project Milestone(s) in the Impacted Schedule to quantify any impacts resulting from UFE(s).

5. This process was repeated for each subsequent update period impacted by inclement weather through the end of April 2020.
6. The resulting delay is broken down by impacted period and summarized by cumulative total in the Conclusion section of the narrative.

### UNFORESEEN EVENTS

An Unforeseen Event (UFE) is defined herein as an impact to the project schedule that could not have been reasonably foreseen at the time of submitting a bid for construction and which is beyond the control and without fault or negligence of the General Contractor.

There've been a total of 53 unforeseen inclement (working) weather days which have directly impacted the critical path of the project schedule from the start of the project through the end of April 2020. 37 of these days have already been analyzed in a previous TIA. The remaining 16 weather days are broken down by period as shown below:

5/1/19	(1)
10/30/19	(1)
11/20/19, 11/27/19	(2)
12/4/19	(1)
3/10/20, 3/11/20, 3/12/20, 3/13/20, 3/23/20	(5)
4/6/20, 4/7/20, 4/8/20, 4/9/20, 4/10/20, 4/13/20	(6)

### UFE 05.1: INCLEMENT WEATHER DELAYS MAY 2019

During May 2019, 1 inclement weather day was recorded. Below is a screenshot comparing the as-planned schedule vs the weather impacted schedule for the analyzation period:

### Milestone Comparison

Activity ID	Activity Name	Start	Finish	Total Float
<b>COB WWTP Salt Mitigation Upgrade Project_APR 2019</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20)		11-Mar-20*	-35
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		17-Feb-21	-34
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21)		17-Mar-21*	-32
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05.1</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20)		12-Mar-20*	-36
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		22-Feb-21	-39
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21)		22-Mar-21*	-37

MS01: -1 Calendar Days

MS02: -5 Calendar Days

**UFE 05.2: INCLEMENT WEATHER DELAYS OCT 2019**

During October 2019, 1 inclement weather day was recorded. Below is a screenshot comparing the as-planned schedule vs the weather impacted schedule for the analyzation period:

**Milestone Comparison**

Activity ID	Activity Name	Start	Finish	Total Float
<b>COB WWTP Salt Mitigation Upgrade Project_SEPT 2019</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		22-Apr-20*	0
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		02-Apr-21	2
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		30-Apr-21*	1
<b>COB WWTP Salt Mitigation Upgrade Project_Time Impact Analysis 05.2</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		22-Apr-20*	-1
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		05-Apr-21	-1
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		03-May-21*	-2

MS01: -1 Calendar Days

MS02: -2 Calendar Days

**UFE 05.3: INCLEMENT WEATHER DELAYS NOV 2019**

During November 2019, 2 inclement weather days were recorded. Below is a screenshot comparing the as-planned schedule vs the weather impacted schedule for the analyzation period:

**Milestone Comparison**

Activity ID	Activity Name	Start	Finish	Total Float
<b>COB WWTP Salt Mitigation Upgrade Project_OCT 2019</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		02-May-20*	-10
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		12-Apr-21	-8
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		10-May-21*	-9
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05.3</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		06-May-20*	-14
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		15-Apr-21	-11
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		13-May-21*	-12

MS01: -4 Calendar Days

MS02: -3 Calendar Days

**UFE 05.4: INCLEMENT WEATHER DELAYS DEC 2019**



During December 2019, 1 inclement weather day was recorded. Below is a screenshot comparing the as-planned schedule vs the weather impacted schedule for the analyzation period:

**Milestone Comparison**

Activity ID	Activity Name	Start	Finish	Total Float
<b>COB WWTP Salt Mitigation Upgrade Project_NOV 2019</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		31-May-20*	-39
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		07-May-21	-33
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		07-Jun-21*	-37
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05.4</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		03-Jun-20*	-42
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		12-May-21	-38
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		10-Jun-21*	-40

MS01: -3 Calendar Days

MS02: -3 Calendar Days

**UFE 05.5: INCLEMENT WEATHER DELAYS MAR 2020**

During March 2020, 5 inclement weather days were recorded. Below is a screenshot comparing the as-planned schedule vs the weather impacted schedule for the analyzation period:

**Milestone Comparison**

Activity ID	Activity Name	Start	Finish	Total Float
<b>COB WWTP Salt Mitigation Upgrade Project_FEB 2020</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		16-Jul-20*	-85
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		23-Jun-21	-80
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		22-Jul-21*	-82
<b>COB WWTP Salt Mitigation Upgrade Project_TIA 05.5</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		23-Jul-20*	-92
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		30-Jun-21	-87
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		29-Jul-21*	-89

MS01: -7 Calendar Days

MS02: -7 Calendar Days

**UFE 05.6: INCLEMENT WEATHER DELAYS APR 2020**

During April 2020, 6 inclement weather days were recorded. Below is a screenshot comparing the as-planned schedule vs the weather impacted schedule for the analyzation period:

**Milestone Comparison**

Activity ID	Activity Name	Start	Finish	Total Float
<b>COB WWTP Salt Mitigation Upgrade Project_MAR 2020</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		13-Aug-20*	-113
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		22-Jul-21	-109
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		19-Aug-21*	-110
<b>COB WWTP Salt Mitigation Upgrade Project_TIA05.6</b>				
<b>MILESTONES</b>				
MS01	PHASE 1 COMPLETION (450 CD AFTER NTP = 02/06/20 - 04/26/20)		21-Aug-20*	-121
MS01.1	PROJECT SUBSTANTIAL COMPLETION (4 WKS PRIOR TO MS02)		30-Jul-21	-117
MS02	PHASE 2 COMPLETION (820 CD AFTER NTP = 02/13/21 - 05/01/21)		27-Aug-21*	-118

MS01: -8 Calendar Days

MS02: -8 Calendar Days

**CONCLUSION**

WML is requesting that the Phase 1 Completion Milestone be extended by an additional 24 Calendar days and the Phase 2 Completion Milestone be extended an additional 28 calendar days to compensate for inclement weather delays from May 2019 – April 2020.

This brings the Phase 1 total weather day impact to -77 calendar days and the Phase 2 total weather day impact to -80 calendar days.

Milestone	Period	Calendar Day Impact	Cumulative Impact
MS01	1	-10	-10
	2	-26	-36
	3	-14	-50
	4	-3	<b>-53</b>
	5	-1	-54
	6	-1	-55
	7	-4	-59
	8	-3	-62
	9	-7	-69
	10	-8	<b>-77</b>
Milestone	Period	Calendar Day Impact	Cumulative Impact



MS02	1	-14	-14
	2	-22	-36
	3	-16	-52
	4	0	<b>-52</b>
	5	-5	-57
	6	-2	-59
	7	-3	-62
	8	-3	-65
	9	-7	-72
	10	-8	<b>-80</b>

**ATTACHMENTS**

- P6 Schedule Analysis File: COB\_TIA05.1- Impacted Schedule (May 19)
- P6 Schedule Analysis File: COB\_TIA05.2- Impacted Schedule (Oct 19)
- P6 Schedule Analysis File: COB\_TIA05.3 – Impacted Schedule (Nov 19)
- P6 Schedule Analysis File: COB\_TIA05.4 – Impacted Schedule (Dec 19)
- P6 Schedule Analysis File: COB\_TIA05.5 – Impacted Schedule (Mar 20)
- P6 Schedule Analysis File: COB\_TIA05.6 – Impacted Schedule (Apr 20)

**Technical Justification:**

PCO-39	
Design Adjustment: WML COP-044.0	RO Skid – Cartridge Assembly for Concentrate Control Valve
<p><u>Reason for Design Changes:</u></p> <p>RO Manufacturer Requested Change: At the initial startup of the RO membrane trains the trains are operating at an 83% recovery rate, which is above the 80% minimum recovery rate requested in the Reverse Osmosis System RFP but also within industry standard operating parameters for RO membranes. The desired recovery rate at this stage in the membrane life is 80% recovery. The benefit of operating at 80% recovery is to prolong membrane life, reduced brine water distributed to the Brine Water Discharge system, reduced cleaning of the membranes saving City staff time for other tasks and reduced annual chemical costs.</p> <p><u>Design and Scope Changes:</u></p> <ul style="list-style-type: none"> <li>• H2O Innovation shall procure and change out five - 5/8" valve cartridge assemblies for five - 3/4" valve cartridge assemblies on the RO train concentrate discharge Bray control valves.</li> </ul> <p><u>Cost Impact:</u></p> <p>The City of Beaumont, W.M. Lyles and equipment manufacturer H2O Innovation have previously discussed and negotiated the material costs of five replacement control valve cartridges. MWHC has reviewed the contractor's cost proposal requesting \$9,799.38 to perform the work. MWHC recommends a contract cost increase to be executed in a change order for the sum of <b>\$9,799.38</b>.</p>	

**CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT**

**CHANGE ORDER PROPOSAL (COP) # 044  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> N/A	
<b>Subject:</b> Replacement Cartridge Assembly for RO Concentrate Control Valves	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
This COP is for the purchase of replacement cartridge assemblies for RO concentrate control valves only. The cartridge replacement installation cost will be submitted under a separate COP.	
<b>COST ESTIMATE</b>	
Total Cost : \$ 9,799.38 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	

**RESPONSE**

**Response By:**

**Date:**

Final Distribution: Oscar Mendoza, W.M. Lyles Co.  
Brian Knoll, Webb Associates  
MWH Inspector

W. M. Lyles Co.  
 42142 Roick Drive  
 Temecula, CA 92590

Reference #: N/A

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: Replacement Cartridge Assembly for RO Concentrate Control Valves

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	Replacement Cartridge Assembly for RO Concentra	1 LS	0	\$ -	\$ -	\$ 8,436.83	\$ -	\$ 8,436.83
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			0	\$ -	\$ -	\$ 8,436.83	\$ -	\$ 8,436.83

Subtotal		\$	8,436.83
Mark-up - Labor	15%	\$	-
Mark-up - Equipment	15%	\$	-
Mark-up - Materials	15%	\$	1,265.52
Mark-up - Subcontractor	5%	\$	-
Bond	1.0%	\$	97.02
<b>Total This Change Order</b>		<b>\$</b>	<b>9,799.38</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**  
**Replacement Cartridge Assembly for RO Concentrate Control Valves**

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason		
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT

Name	Rate			Hours			Extension
	ST	PT	DT	ST	PT	DT	
Lab Pipe FM	\$77.80		\$129.98	0	0	0	\$0.00
Lab Pipe	\$75.19	\$99.97	\$124.75	0	0	0	\$0.00
Operator	\$96.33	\$128.99	\$161.66	0	0	0	\$0.00
Carp FM	\$85.03	\$115.33	\$145.63	0	0	0	\$0.00
Carp	\$81.11	\$109.45	\$137.79	0	0	0	\$0.00
Lab	\$71.72	\$94.78	\$117.82	0	0	0	\$0.00
Cement Mason	\$78.05	\$102.25	\$126.45	0	0	0	\$0.00
				0	0	0	
				0	0	0	
<b>Total Labor =</b>							<b>\$0.00</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent

Number	Description	Rate	Hours	Extension
17.12	Foreman Truck	\$29.60	0	\$0.00
32.037	ReachliftXtremeXR1055	\$58.61	0	\$0.00
31.028	Hydro Crane - 80 TonLink BeltRTC-8080 II 80 Ton	\$164.01	0	\$0.00
30.048	Loader Backhoe 410John Deere410L	\$64.30	0	\$0.00
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
35.064	LoaderJohn Deere644J	\$123.00	0	\$0.00
17	Foreman Truck	\$29.60	0	\$0.00
20.041	ExcavatorJohn Deere350GLC	\$151.12	0	\$0.00
35.064	LoaderJohn Deere644J	\$123.00	0	\$0.00
Rent	Owner Op dump trucks	\$100.00	0	\$0.00
				0
<b>Total Equipment =</b>				<b>\$0.00</b>

**C. Materials**

	Quantity	Unit	Price	Extension
Complete replacement cartridge assembly for Valves	5	ea	\$ 1,566.00	\$7,830.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Tax	7.750%			<u>\$606.83</u>
			Subtotal	<u>\$8,436.83</u>
<b>Total Material =</b>				<b>\$8,436.83</b>

**D. Subcontractor**

Quantity	Unit	Price	Extension
			\$0.00
			\$0.00
<b>Total Subcontract =</b>			<b>\$0.00</b>



1048 La Mirada Court  
 Vista, CA 92081  
 (760) 598-2206

DATE: 13-Oct-20

Quote No : **CO-009**

## Quote

**Client :** W.M.Lyles CO  
 Client PO# : \_\_\_\_\_  
 Contact : Grant Gourley  
 Project MR# : \_\_\_\_\_  
 City : Beaumont, CA  
 Country : USA  
 Telephone : 951-760-4169

**Project Information:**  
 Project Name: City of Beaumont RO System  
 Project Number: 18U5012  
 Location: Beaumont, CA  
 Client : City of Beaumont  
 Contact : \_\_\_\_\_

Quantity	Unit	Description	Unit price	Amount
5		Complete cartridge assembly with 3/4" round ports to replace the existing 5/8" orifices. This includes all new preassembled internals and bonnet.	\$ 1,566.00	\$ 7,830.00
		Ready to ship: 1wk ARO.		
		Freight: included in price.		
		There will be additional manhours needed to make the valve modification plus additional time needed to retune/verify the system with the new valve internals.		
		At this time, H2O does not feel that this change will cause a delay in the construction of the project and are therefore, not requesting an extension to the Contract Time. However, H2O reserves the right to review the impact of this change along with all other changes on the Contract Time at a future date.		

<b>Total without tax</b>	\$	<b>7,830.00</b>
<b>Admin fee</b>	\$	-
<b>TOTAL</b>	\$	<b>7,830.00</b>

\*Please note that taxes are not included and will be added as applicable

**Payment**  
 - As per existing contract  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Prepared by**  
 \_\_\_\_\_  
 Chris Whiting  
 \_\_\_\_\_  
 2020-10-13  
 Date Signature

**Authorized by**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Date Signature

**Notes**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Technical Justification:**

PCO-40	
Design Adjustment: WML COP-043.1 CLAR-33	MBR Feed Pump Seal Water Protection Pressure Switch Addition
<p><u>Reason for Design Changes:</u></p> <p>Owner Initiated Change: The MBR Feed pumps require seal water for pump operation and protection of the mechanical seals. The flow switches on each of the four pumps seal water feed piping systems are interlocked with the VFDs that provide electrical power and control the pump speed will cause a shutdown of the pumps if water flow is not detected. This alarm condition will also require the VFDs to be manually reset at the VFDs before a pump can be restarted. The MBR Feed Pumps are critical to continuous operation of the new treatment facility and need to be restarted if there is a momentary loss of seal water throughout the twenty-four-hour day and especially when the facility is not manned.</p>	
<p><u>Design and Scope Changes:</u></p> <ul style="list-style-type: none"> <li>• Add a pressure transmitter, PIT-3800 to the utility water system inside the MBR building. The pressure transmitter shall be cut into the existing utility water piping system in the vicinity of the MBR Feed Pumps, northwest corner of the building.</li> <li>• Contractor shall also install all necessary conduit, wiring and termination to connect the new device to the SCADA PLC inside the electrical room.</li> <li>• Provide necessary devices and wiring to change contact AR4 relays with new ATC 405AR timing relays.</li> <li>• Cost proposal shall include all necessary costs for labor and miscellaneous materials to perform this change. Contractor shall not perform any work until change has been approved by the City.</li> </ul>	
<p><u>Cost Impact:</u></p> <p>W.M. Lyles' initial cost proposal, COP 043 was submitted for a cost increase of \$11,174.00. After MWHC's first review and negotiation with the electrical subcontractor a second proposal was submitted for a cost increase of \$8,961.33.</p> <p>MWHC has reviewed the attached WML cost proposal and find it acceptable. Accordingly, MWHC recommends a contract cost increase of \$8,961.33 to be executed in a change order for the modifications requested in the attached Design Change Clarification No.33.</p>	



**CITY OF BEAUMONT WWTP SALT MITIGATION UPGRADE PROJECT**

**CHANGE ORDER PROPOSAL (COP) # 043.1  
(By Contractor)**

<b>To (Engineer/CM):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@stantec.com	<b>From (Contractor):</b> W.M. Lyles Co. Attention: Oscar Mendoza Phone: 619-565-6064 Email: omendoza@wmlylesco.com
<b>PCO/DCM No.:</b> 27	
<b>Subject:</b> MBR Feed Pumps Seal Water Modification	
<b>Reference Documents:</b> Attached	
<b>DESCRIPTION</b>	
This COP is for the installation of a new pressure transmitter as outlined under DCM 27 (Attached).	
<b>COST ESTIMATE</b>	
Total Cost : \$ 8,961.33 – see attached breakdown	
<b>SCHEDULE IMPACT</b>	
<b>Received by MWH Constructors (Date):</b>	

**RESPONSE**

**Response By:**

**Date:**

Final Distribution: Oscar Mendoza, W.M. Lyles Co.  
Brian Knoll, Webb Associates  
MWH Inspector

W. M. Lyles Co.  
 42142 Roick Drive  
 Temecula, CA 92590

Reference #: CLAR - 033

Attention: Charles W. Reynolds

City of Beaumont WWTP Salt Mitigation Upgrade Project

DESCRIPTION: MBR Feed Pumps Seal Water System

Item:		Unit	Total MH	Total MH Cost	Eq. Cost	Material	Subcont.	Total Cost
1	MBR Feed Pumps Seal Water System	1 LS	6	\$ 458.98	\$ 88.80	\$ 232.02	\$ 7,596.04	\$ 8,375.84
2		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
3		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
		1 LS	0	\$ -	\$ -	\$ -	\$ -	\$ -
Total Costs			6	\$ 458.98	\$ 88.80	\$ 232.02	\$ 7,596.04	\$ 8,375.84

Subtotal		\$	8,375.84
Mark-up - Labor	15%	\$	68.85
Mark-up - Equipment	15%	\$	13.32
Mark-up - Materials	15%	\$	34.80
Mark-up - Subcontractor	5%	\$	379.80
Bond	1.0%	\$	88.73
<b>Total This Change Order</b>		<b>\$</b>	<b>8,961.33</b>

Comments:

**City of Beaumont WWTP Salt Mitigation Upgrade Project**

**MBR Feed Pumps Seal Water System**

**A. Labor**

Description	Lab Pipe FM			Lab Pipe			Operator			Carp FM			Carp			Lab			Cement Mason			
	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	ST	PT	DT	
Install 1-1/2" Piping and Valve for Transmitter	3			3																		
	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Name	Rate			Hours			Extension
	ST	PT	DT	ST	PT	DT	
Lab Pipe FM	\$77.80		\$129.98	3	0	0	\$233.41
Lab Pipe	\$75.19		\$124.75	3	0	0	\$225.56
Operator	\$96.33		\$161.66	0	0	0	\$0.00
Carp FM	\$85.03		\$145.63	0	0	0	\$0.00
Carp	\$81.11		\$137.79	0	0	0	\$0.00
Lab	\$71.72		\$117.82	0	0	0	\$0.00
Cement Mason	\$78.05		\$126.45	0	0	0	\$0.00
				6	0	0	
				<b>Total Labor =</b>			<b>\$458.98</b>

**B. Equipment**

Description	17.12	32.037	31.028	30.048	20.041	35.064	Rent
Install 1-1/2" Piping and Valve for Transmitter	3						
	3	0	0	0	0	0	0

Number	Description	Rate	Hours	Extension	
17.12	Foreman Truck	\$29.60	3	\$88.80	
32.037	Reachlift XtremeXR1055	\$58.61	0	\$0.00	
31.028	Hydro Crane - 80 Ton Link Belt RTC-8080 II 80 Ton	\$164.01	0	\$0.00	
30.048	Loader Backhoe 410 John Deere 410L	\$64.30	0	\$0.00	
20.041	Excavator John Deere 350GLC	\$151.12	0	\$0.00	
35.064	Loader John Deere 644J	\$123.00	0	\$0.00	
17	Foreman Truck	\$29.60	0	\$0.00	
20.041	Excavator John Deere 350GLC	\$151.12	0	\$0.00	
35.064	Loader John Deere 644J	\$123.00	0	\$0.00	
Rent	Owner Op dump trucks	\$100.00	0	\$0.00	
			3		
			<b>Total Equipment =</b>		<b>\$88.80</b>

**C. Materials**

	Quantity	Unit	Price	Extension	
1-1/2" Galvanized Union	2	ea	\$ 34.87	\$69.74	
1-1/2" Tee	1	ea	\$ 19.57	\$19.57	
1-1/2" to 1" Bushing	1	ea	\$ 8.54	\$8.54	
1" Galvanized Pipe	1	ea	\$ 47.64	\$47.64	
1" Stainless Steel Ball Valve	1	ea	\$ 48.84	\$48.84	
Consumables	6	HR	\$ 3.50	\$21.00	
Tax	7.750%			\$16.69	
			Subtotal	\$232.02	
			<b>Total Material =</b>		<b>\$232.02</b>

**D. Subcontractor**

	Quantity	Unit	Price	Extension	
Southern Electrical Contractors	1	ea	\$7,596.04	\$7,596.04	
				\$0.00	
			<b>Total Subcontract =</b>		<b>\$7,596.04</b>



**Delivers tomorrow 10 am - 12 pm**

1	<b>Low-Pressure Pipe Fitting</b> Galvanized Iron, Union Straight Connector, 1-1/2 NPT Female 4638K737	2 Each	\$34.87 Each	\$69.74
2	<b>Low-Pressure Pipe Fitting</b> Galvanized Iron Tee Connector, 1-1/2 NPT Female 4638K127	1 Each	19.57 Each	19.57
3	<b>Low-Pressure Pipe Fitting</b> Galvanized Steel, Bushing Adapter, 1-1/2 Male x 1 Female NPT 4638K727	1 Each	8.54 Each	8.54
4	<b>Standard-Port 316 Stainless Steel Body On/Off Valve</b> with Lockable Lever Handle, 1 NPT Female 46325K31	1 Each	48.84 Each	48.84
5	<b>Standard-Wall Galvanized Steel Pipe</b> Threaded on Both Ends, 1 NPT, 48" Long 4499K53	1 Each	47.64 Each	47.64

Merchandise \$194.33

Applicable shipping and tax will be added.

**Contact**

Contact

**Delivery method**

Ground  
Tomorrow by 12 pm

**Delivery address**

W. M. Lyles Co  
715 west 4th St  
Beaumont CA 92223

**Delivery attention:**

Armando Cayama

**Payment method**

Invoice

**Invoice / receipt preference**

PO BOX 4377  
acayama@wmlylesco.com

**Billing address**

W. M. Lyles Co  
PO BOX 4377  
Fresno CA 93744

**Tax**

Taxable



Southern Contracting Company  
P.O. Box 445 San Marcos, CA 92079-0445  
Tel 760-744-0760 Fax 760-744-6475  
website: www.southerncontracting.com  
email: info@southerncontracting.com

## Change Order Request

**103801 — Wastewater Treatment Plant Salt Mitigation Upgrade**

**COR Subject: CLAR-033 MBR Feed Pups Seal Water**

---

**To**                    **Juan C. Ahumada**  
                             **W.M. Lyles**  
                             **42142 Roick Drive**  
                             **Temecula, CA 92590**  
                             **951-973-7393**

**Contract No: 55.1173**  
**COR Number: 103801-COR#021**  
**Rev1**  
**COR Revision Number: 0**  
**COR Date: 9/29/2020**  
**Work Type: Price / Do Not Proceed**  
**Other Reference No: CLAR-033**  
**Days Valid: 5**

---

**Return To**        **Dan Alcantar**  
                             **Southern Contracting Company**  
                             **760-744-0760x621**  
                             **619-778-0681**  
                             **DAlcantar@southerncontracting.com**

---

### Scope Of Work / Time Extension Request

The work associated with Hach Changes is a change to Southern Contracting Company's scope of work in which a change in Contract Price and Time is to be considered. Accordingly, Southern Contracting Company requests a Contract Change Order in the amount of \$7,596.04

Scope of Work is as follows:

- Per the request made by W.M. Lyles we will provide;

- pressure transmitter PIT-3800 to the utility water system in the MBR that feeds the seal water assemblies on the Membrane Feed Pumps. Install a ¾" conduit (S3800) from RIO-MB with a #18 twisted-shielded pair to the transmitter. Connect the transmitter to a spare analog input in RIO-MB.
- Modify the VFD's for the Membrane Feed Pumps by changing the relay AR4 with a timer TD4. The timer shall be an ATC 405AR On Delay timer to match the other timers in the VFD assemblies and shall be set to 45 seconds. The deceleration time on the VFD's for the pumps shall be set to 10 seconds.

Exclusions: Set up of network, programming, Installation of inline instrumentation Overtime.

Change in time: 5 days

Southern Contracting reserves all rights to additional costs and time for changes not identified in the documents furnished, and is not responsible for additional costs or time for work which is not part of our contract scope of work, unless stipulated above. Should additional information or clarification be required, please contact me at your convenience.

---

### Summary

**Total:** \$7,596.04

---

### **Reservation of Rights**

This COR does not include any amount for impacts such as interference, disruptions, rescheduling, changes in the sequence of work, delays and/or associated acceleration. We expressly reserve the right to submit our request for any of these items.

---

**Signed By:**



**Daniel Alcantar**

**PM**

**Dated:** 9/29/2020

## Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

**Job Name:** 103801 Beaumont Chang Orders

**Contractor:**

**Estimator:** Dan Alcantar

**Notes:**

**Bid Date:**

Summary Description	Material			Labor		
	Extended	%	Adjusted	Extended	%	Adjusted
Revised COR#021	\$740.92	100.00%	\$740.92	14.22	100.00%	14.22

### Top Sheet

Raw Cost	\$6,555.32	Sales per Month	\$0.00
Tax	\$57.42	Return per Month	\$0.00
Raw Cost with Tax	\$6,612.74	Price per Square Foot	\$0.00
Overhead	\$983.30	Hours per Square Foot	0.00
Profit	\$0.00	Square Feet	0.00
Total Return Amount	\$983.30	Job Months	0.00
Total Return %	12.94%	Hours per Week	0.00
Price	\$7,596.04	Workers per Day	0.00
Bond	\$0.00	Total Hours	14.22
Sell Price	<b>\$7,596.04</b>	Markup Sales Tax (Overhead)	No
Adjusted Sell ( )	\$0.00	Markup Sales Tax (Profit)	No
Adjusted Sell Return 0.00 %	\$0.00	Use Bond Table	No

### Labor

Class Description	Percent of Total	Hours Distributed	Hourly Rate	Burden		Labor Cost
				Rate	Percent	
General Foreman	50.00%	7.11	\$99.49	\$0.00	0.00%	\$707.27
Journeyman	75.00%	10.66	\$85.51	\$0.00	0.00%	\$911.83
<b>Totals</b>	<b>125.00%</b>	<b>17.77</b>	<b>\$91.10</b>	<b>\$0.00</b>	<b>0.00%</b>	<b>\$1,619.10</b>

### Mark Ups

	OVERHEAD			PROFIT		
	Total	%	Amount	%	Amount	
Materials	\$740.92	+ 15.00%	\$852.06	+ 0.00%	\$852.06	
Labor	\$1,619.10	+ 15.00%	\$1,861.97	+ 0.00%	\$1,861.97	
Supplier Quotes	\$3,929.00	+ 15.00%	\$4,518.35	+ 0.00%	\$4,518.35	
SubContractors	\$0.00	+ 5.00%	\$0.00	+ 0.00%	\$0.00	



## Bid Summary Report

103801 Beaumont Chang Orders Estimator: Dan Alcantar

Job #2336

Direct Job Expense	\$266.30	+	15.00%	\$306.25	+	0.00%	\$306.25
Equipment Rental	\$0.00	+	15.00%	\$0.00	+	0.00%	\$0.00
<b>Totals</b>	<b>\$6,555.32</b>		<b>15.00%</b>	<b>\$7,538.62</b>		<b>0.00%</b>	<b>\$7,538.62</b>

### Tax Report

	Taxed Amount	Tax Rate %	Tax Amount
Materials	\$740.92	7.75%	\$57.42
Labor	\$1,619.10	0.00%	\$0.00
Supplier Quotes	\$0.00	7.75%	\$0.00
SubContractors	\$0.00	0.00%	\$0.00
Direct Job Expense	\$0.00	0.00%	\$0.00
Equipment Rental	\$0.00	0.00%	\$0.00
<b>Total Tax:</b>			<b>\$57.42</b>

### Supplier Quotes

Name	Supplier	Tax (7.8 %)	Unit Cost	Multiplier	Amount
PIT		No	\$3,543.00	1.00	\$3,543.00
Timer relaysr		No	\$351.00	1.00	\$351.00
Freight		No	\$35.00	1.00	\$35.00
<b>Total:</b>					<b>\$3,929.00</b>

### Direct Job Expense

Name	Supplier	Tax (0.0 %)	Unit Cost	Multiplier	Amount
FM Truck		No	\$26.63	10.00	\$266.30
<b>Total:</b>					<b>\$266.30</b>

Job Name: 103801 Beaumont Chang Orders  
 Job Number: 2336  
 Extension Name: Revised COR#021

Material Filter: <None>  
 Report: COR - 2

**[Items and ByProducts]**

Item #	Item Name	Quantity	Unit Price	U	Ext Price	Unit Labor	U	Ext Labor
Label Set: Combined, Combined, Combined, Combined, Combined					<b><u>\$740.92</u></b>			<b><u>14.22</u></b>
Cost Code: 010 - Conduit/Raceway					<u>\$596.92</u>			<u>11.71</u>
2,684	3/4 GRC/PVC COATED	90.00	\$474.52	C	\$427.07	10.05	C	9.04
2,698	3/4 GRC/PVC COUP	9.00	\$493.74	C	\$44.44	11.30	C	1.02
2,790	3/4 GRC/PVC HUB	2.00	\$41.16	E	\$82.32	50.24	C	1.00
3,081	3/4 GRC/PVC C105 STRP	17.00	\$253.52	C	\$43.10	3.77	C	0.64
Cost Code: 020 - Wire/Cable					<u>\$144.00</u>			<u>2.51</u>
4	16 TSP - SHIELDED CABLE BELDEN	200.00	\$720.00	M	\$144.00	12.56	M	2.51
<b>[Items and ByProducts] Total:</b>					<b><u>\$740.92</u></b>			<b><u>14.22</u></b>

**CITY OF BEAUMONT WASTEWATER TREATMENT PLANT  
SALT MITIGATION UPGRADE PROJECT**

**CLARIFICATION 33**

<b>To (Construction Manager):</b> MWH Constructors Attention: Charles Reynolds Phone: 702-497-8024 Email: Charles.w.reynolds@mwhconstructors.com	
<b>From (Engineer):</b> SKM Engineering Attention: Mark Jeppsen Phone: 801-677-0011 Email: mark.jeppsen@skmeng.com	
<b>Subject:</b> MBR Feed Pumps Seal Water Modifications	<b>Location:</b> Throughout
<b>Reference Documents:</b> N/A	
<b>CLARIFICATION</b>	
<b>Note the following:</b>	
<ul style="list-style-type: none"> <li>• Add a pressure transmitter PIT-3800 to the utility water system in the MBR that feeds the seal water assemblies on the Membrane Feed Pumps. Install a ¾" conduit (S3800) from RIO-MB with a #18 twisted-shielded pair to the transmitter. Connect the transmitter to a spare analog input in RIO-MB.</li> <li>• Modify the VFD's for the Membrane Feed Pumps by changing the relay AR4 with a timer TD4. The timer shall be an ATC 405AR On Delay timer to match the other timers in the VFD assemblies and shall be set to 45 seconds. The deceleration time on the VFD's for the pumps shall be set to 10 seconds.</li> </ul>	
<b>Prepared By (Name):</b> Mark Jeppsen, SKM	<b>Date:</b> September 14, 2020
<b>Distributed By:</b>	<b>Date:</b>

**Scope Letter: 2 pages**

Technical  
Systems  
Incorporated

September 28, 2020

Quote Number: CO#09

To: Southern Contracting  
Attn: Dan Alcantar

Project: Beaumont WWTP Salt Mitigation  
Beaumont Wastewater Treatment Plant

Reference: **CLAR-33 Seal Water PIT**

2303 196th Street SW  
Lynnwood, WA 98036  
Tel: (425) 775-5696  
Fax: (425) 775-9074  
info@tsicontrols.com

Bid Date: N/A

Bid Time: N/A

Technical Systems, Inc. (TSI) is pleased to provide a quote for the above referenced project. Material for this project will be shipped FOB Lynnwood WA, complete, ready for field termination by others. TSI's price includes CA sales tax and does not include the cost to bond TSI's portion of the project.

TSI's price for the scope of work detailed on the following pages:

**Change Order Proposal Pricing:****\$3,543.00****Change Scope as Follows:**

- Supply new PIT-3800
  - o Foxboro IGP05S, total range 5-2000psi
    - Calibrate to Range TBD

Terms: Net 30  
FOB: Lynnwood WA  
Freight: Prepaid

This quote is valid for 90 days.

Please call with any questions you may have concerning pricing or any technical questions.

Sincerely,

*Colin Dightman-Kovak*

Colin Dightman-Kovak  
Technical Systems, Inc.  
1-425-678-4116

**Scope of Work**

## **Misc Equipment:**

Including:

1. Hardware Procurement
2. Required Testing
3. O&M, drawings updates

## **GENERAL**

1. TSI supplies a bill of materials, CAD-based drawings, and Operations and Maintenance Manuals for all equipment furnished by TSI.
2. TSI supplies the required field startup services for this project.
3. Panels fabricated by TSI are UL 508 labeled.

## **STANDARD INCLUSIONS**

We provide the following unless specifically excluded on our bill of material:

- 1) Equipment shipped FOB factory with freight allowed, tailgate, destination.
- 2) Field wiring diagrams showing interconnection of field instruments and instrumentation panels.
- 3) Instruction manuals as required.
- 4) All necessary field start-up and calibration of the equipment we supply.

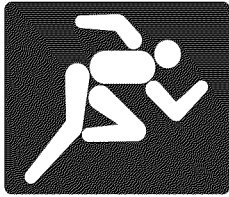
## **STANDARD EXCLUSIONS**

We do NOT include the following unless specifically included in our bill of material:

- 1) Pipe, tubing, valves or fittings between the instrument and the process.
- 2) Conduit, wire or cable not an integral part of the instrument.
- 3) Mounting brackets, stanchions, supports or mounting pads not an integral part of the instrument.
- 4) Labor to install the equipment.
- 5) The Cost, (if due to local union regulations), to have local craftsman make adjustments or wiring modifications to our equipment during start-up and calibration.
- 6) Any material or services not in our quoted sections.
- 7) This proposal is based on award of a supply purchase order and does not include any of the costs associated with bonding or subcontract administration. If bonding or a subcontract is required they can be provided for additional cost.

## **SPECIFIC EXCLUSIONS**

- 1) Installation of Panels and Instruments.
- 2) VFD changes for Membrane Feed Pumps (By Others)



**WESCO**  
DISTRIBUTION®

6251 KNOTT AVENUE

BUENA PARK CA 90620

**Quotation**

UNLESS THERE ARE DIFFERENT OR ADDITIONAL TERMS AND CONDITIONS CONTAINED IN A MASTER AGREEMENT THAT MODIFY WESCO'S STANDARD TERMS, BUYER AGREES THAT THIS QUOTE AND ANY RESULTING PURCHASE ORDER WILL BE GOVERNED BY WESCO'S TERMS AND CONDITIONS AVAILABLE AT [HTTP://WWW.WESCO.COM/TERMS\\_AND\\_CONDITIONS\\_OF\\_SALE.PDF](http://www.wesco.com/terms_and_conditions_of_sale.pdf), WHICH TERMS ARE INCORPORATED HEREIN BY REFERENCE AND MADE PART HEREOF. PLEASE CONTACT THE SELLER IDENTIFIED ON THIS QUOTE IF YOU REQUIRE A PRINTED COPY.

To: SOUTHERN CONTRACTING  
559 N. TWIN OAKS VLY RD.  
  
SAN MARCOS CA 920691710

Date: 09/28/20

Branch: 6705

Project Number:

Project Name

Quoted To:

Date of Your Inquiry: 09/28/20

When ordering please refer to Quotation Number: 026293

Item	Quantity	Catalog Number and Description	Unit Price	U/M	Total Price	Rate of Cash Discount	Shipping Time (Weeks)	Customer Delivery Date
10	4	ATC 405AR-100-S-2-X	75.000	E	300.00	0.00		09/28/20
15	4	ATC 000-825-85-00 SOCKET DIN RAIL	12.750	E	51.00	0.00		09/28/20
		BOTH ITEMS PLUS FREIGHT						
		SUB-TOTAL			351.00			
		TOTAL			351.00			

F.O.B. Point of Shipment. The prices stated in this offer shall, unless renewed, automatically expire fifteen days (15) from the date of this offer. Prices quoted are subject to adjustment should Duty and Tariff rates change from time of bid/quotation to time of order. WESCO reserves the right to adjust its pricing for Goods affected directly or indirectly by changing duties/tariffs/trade agreements and significant currency fluctuations.  
Per: